Minutes of the 60th meeting of the

INTERNATIONAL EXECUTIVE COUNCIL (IEC)

10 December 2009
1st Session: 10:30-13:15 hours
2nd Session: 14:15-18:00 hours

First Session (10:30 – 13:15 hrs)

Preamble

President Chandra Madramootoo welcomed the participants to the 60th International Executive Council (IEC) meeting. He informed that there will be two changes in the agenda items for discussion. Item 4 "The broad basing of ICID membership" will be dealt together with the item 11 'Report of the Permanent Finance Committee (PFC)". And items 5 "Secretary General (2010-12)" will be dealt together with item 8 "Report of the Management Board". He indicated that Pres. Hon. Peter Lee will present the item 13.1 "WatSave awards', separately at an appropriate time. He mentioned that there would be a signing ceremony of a 'Memorandum of Agreement between ICID and Iranian National Committee' pertaining to establishment of 'International Program in Research and Technology Transfer in Irrigation and Drainage' in Iran during the Council meeting.

President Chandra Madramootoo welcomed the delegates from Central Asia and said that the five Central Asian Republics were very active in ICID in early 1990s, their active participation diminished in the near past. He expressed his gratitude to Mr. Daryl Fields, the World Bank for providing financial support to reengage the Central Asian members, and also thanked the Central Office for facilitating their harmonization with the ICID activities once again. President Chandra emphasized that Central Asia is an important region to be actively engaged with and ICID need to work collectively and closely to improve agricultural productivity and also the socio-economic condition of the region. He then called on VPH Prof. Dr. Victor Dukhovny to introduce delegates from the Central Asian Republics. President informed that the special session on Aral Sea Basin Initiative has been rescheduled to be held on 11 December afternoon and invited all to participate. He appreciated the role played by the Central Office in organizing the special session.

VPH Prof. Dukhovny thanked President Madramootoo and Indian National Committee on Irrigation and Drainage for the hospitality. He extended special thanks to the World Bank for providing the financial assistance to the Central Asian team enabling to attend the event, and to the Central Office for facilitating and organizing the special session. He told that, of the five Central Asian States, Turkmenistan representative could not join the meeting.

VPH Dukhovny then introduced the team members - Mr. Khasanov, Dy. Minister of Water Resources of Tajikistan, (*applause ….*) who has been working in the water management for more than 35 years; Deputy General Director of Dept. of Water Resources of Uzbekistan, Mr. Ernazarov Nazimjon (a*pplause* …) who has many years of field experience in Uzbekistan; Mr. Lutfulla Mukhamednazarov, General Secretary of the Uzbekistan National Committee on Irrigation and Drainage, (*applause …*); Mr. Kadybek Beishekeev, Deputy General Director of the Dept. of Water Resources, Kyrgyzstan, (*applause …*) who is a well-known Water Resources Specialist in the Central Asia and was involved in a project in Chu-Talas River Basin shared between Kazakhstan and Kyrgyzstan, supported by the European Economic Commission in the Central Asia; and Mr. Polat Beisebekov, Director of Water Association, which is a new non-governmental organization in Kazakhstan, (*applause …*).

VPH Prof. Dukhovny invited the assembly to participate in the Special Session on Aral Sea Basin. He expressed his gratitude to President Chandra Madramootoo, Pres. Hon. Aly Shady for facilitating the training programs with the support from the McGill University and CIDA at the Interstate Commission for Water Coordination (ICWC); Pres. Hon. Bart Schultz, for formulating new curriculum for the training programs for the Central Asian States.
Applause ….

President Chandra Madramootoo then welcomed the colleagues from Mekong River Basin countries – Thailand, Cambodia, Vietnam, and Laos for attending the event. He also thanked Secretary General, Central Office for organizing the special session, and the Government of India for providing the financial support to enable their participation.

President then called upon VPH Dr. Nairizi to introduce His Excellency Mr. Mohammad Reza Attarzadeh, Deputy Minister of Energy for Water and Wastewater Affairs, Iran.

(The Deputy Minister spoke in Persian language which was translated by VPH Dr. Saeed Nairizi.)

H.E. Mr. Mohammad Reza Attarzadeh, Deputy Minister of Energy for Water and Wastewater Affairs, Iran expressed his pleasure to be associated with the ICID family members who are engaged and involved in the activities related to water and irrigation. He said that Iran has a very long history of irrigation and drainage and there is a good opportunity to get them involved in recent technological developments and activities of irrigation and drainage world over. The government of Iran has embarked upon large projects related to irrigation and drainage involving private companies as consultants and contactors. The Govt. of Iran has been planning to extend its international activities and relationships so as to learn from other international experiences and also to share their historical and present experience with others. The Iranian National Committee has been very active within the ICID in the recent past. He aspired that the Committee will continue working hard and strengthens its relationship with ICID in future too. The Deputy Minister said that IRNCID has accepted the proposal of Hon. President Dr. Madramootoo to establish a center for research and training activities for ICID and assist in the dissemination of the knowledge on irrigation and drainage within ICID network countries. He continued to indicate that though the research center will be hosted by Iran, active cooperation and collaboration from all is solicited to make it successful. He then invited all to come to Iran to participate ICID events in 2011, to be hosted by them.

Applause ….

Item 1 : Opening Remarks by President, ICID

President Chandra Madramootoo started his opening remarks by recapitulating that the rising food prices had been at the centre of global problems last year and the economists called the situation a 'silent Tsunami'. He informed that at the Conference on Food Security held in McGill University last year, however, the President of International Fund for Agricultural Development (IFAD) stated that the food crisis was not a silent Tsunami, but resulted mainly because of overlooking and ignoring the indicators such as investments in agriculture, investments in research, investments in water, food supplies, productivity, capacity building of farmers, etc. The precarious food situation even led to riots in some countries and the Heads of the States of those countries announced measures against rising food crisis while responding to the political turmoil. Together with this crisis, the issue of shifting of food production to biofuel production also heated up, when the impact of converting lands away from food production to bio-fuel production was witnessed with the consequent rise in food prices. For example, President Madramootoo mentioned, in Mexico, the price of corn flour went up since corn was shifted away from its use as food to fuel production, leading to riots. He recalled that the collapse of international banking systems also led to financial crises that saw some of the worst economic times in the economies such as in North America and to some extent in parts of Europe. This downturn in the economy continued to worsen the food crisis, as the people were not able to pay more for food, he said. As a result of these problems, another 100 million people or more added up to the number of hungry and malnutritioned, thus reversing the gains made under the Millennium Development Goals (MDGs) to reduce the number of people affected by malnutrition and hunger from about 900 million to 450 million by the year 2015.

President Madramootoo emphasized the role of irrigation and drainage community in grappling with the food production situation and suggested that some of these crises be transformed to reinvesting in agriculture and in water to boost food production. He recalled the strong role played by ICID at the recently concluded 5th World Water Forum held in Istanbul in which all the ICID sessions were very well attended and were amongst the best. He expressed his gratitude to President Hon. Bart Schultz, Vice President Hon. Henri Tardieu, Secretary General Gopalakrishnan and the Central Office who maintained a very strong ICID involvement, a lead role and helped to promote and publicize various ICID events and sessions. He said that many of the ICID Office-Bearers also contributed, among them being Vice Presidents Hon. Khalid Mohtadullah and M. Ait Kadi. He informed that the conclusions and recommendations of the ICID sessions had been uploaded on the ICID website and will also be published separately on a CD. He commended the ICID efforts which enabled such a large programme dealing with currently important issues like poverty, hunger, socio-economic issues, bio-fuels, the question of markets, credit in agriculture and water etc. to come up on the agenda of the World Water Forum program. He was happy to recall that some of the conclusions coming from ICID sessions at the Forum and contained in the IEC work program were also mentioned by the Hon'ble Prime Minister of India at the inaugural plenary that morning. President Madramootoo mentioned that in some of the ICID countries over 80% of the people producing food were women but they had been overlooked for too long a time, although they formed a large part of irrigators. The necessity for

training programs, capacity building to strengthen the participation of women in local communities, developing best practices, etc. were some of the issues that needed to be looked into and attention to these facts were brought in by the Prime Minister in his inaugural address, he said.

Dwelling upon the context of the rural livelihoods, **President Chandra Madramootoo** mentioned that it was important to see irrigation in terms of food production – not just to produce food for external markets or regional markets, but to improve rural livelihoods to stimulate the rural economies. He suggested that ICID ought to address these issues in the coming years, in the light of available asset base comprising land and water.

President Madramootoo mentioned about his visit to Fergana valley in Central Asia, which was an example of how important land and water were as assets to boost and improve the socioeconomic conditions of people in Central Asia. These were not only production units, but could be used as access to credits and markets. He felt it important to look at the whole integrated rural development system that had been existing for many years, while moving forward. He recounted that significant gains in water resources management, irrigation and agriculture had been made in the past decade as a result of green revolution whereby 40% of cereal production came from irrigated land in the developing countries such as in Asia, while 11% of cereal production came from irrigation in developed countries. However, he mentioned that still some 30% of the cereal production came from rainfed agriculture in developing countries, particularly in Asia and Africa. He cautioned that the rainfed agriculture should not be ignored. He recalled the Indian Prime Minister's comments that there was a need for water harvesting, water storage, water conservation, and management of water at watershed level to be able to produce more than just one crop a year in rainfed areas. At the same time, large irrigated areas in the world totaling to some 300 million hectares are required to enhance productivity and increase the gains. An increase in the system efficiency with rehabilitation and modernization of irrigation systems, enhancing water productivity and the land productivity is of importance. At the same time, the issues related to assets, credits, markets, institutional reforms, managing water at small scale, increasing level of efficiency in small holdings, etc. remained as challenges for us and to those living in agrarian economies in many countries. The smallholders were part of agriculture development and it was necessary to consider how to bring in appropriate institutional systems and reforms in the socio-economic structure so as to have a larger return on investments from smaller land areas, including areas affected by droughts. He recalled that arid and semi-arid tropics were home to the world's poorest of the poor, with nearly 800 million living in these regions having unpredictable climate conditions, low and inadequate rainfall, poor soils and inadequate physical and social infrastructure, thereby highlighting the need for water management, water harvesting, water storage and delivery of water in the arid and semi arid tropics.

President Madramootoo invited the attention of the audience to the major challenge, viz., potential impacts due to climate change. There were some vulnerable areas where the temperature could increase by about 5°C by the year 2050 when a decrease of about 10% rainfall could take place. There was a possibility that some areas could also be lost due to excessive increase in drought conditions, while some areas would become wetter. The net expansion in the semi-arid tropics was likely to be about 11% or 300 sq. km. in the future, he said. With the help of statistics and graphs, President Madramootoo dwelt on the issue of water scarcity and crop yields. Mentioning that while in countries like India, there had been significant gains in productivity through green revolution with the advent of new crop varieties in the drier regions such as Kenya where the rainfall had remained relatively stable in the range of 500 to 600 millimeters per year, the yield also remained relatively stable in close correlation with rainfall until about 1995. After this, the crop yields had started to drop quite dramatically even with the rainfall remaining constant. He said that the reason for this drop was found to be the increase in the costs of inputs when the farmers did not have the financial resources to put in money for them. However, he said that if the predictions in climate change could indicate what would happen with rainfall in future, the impact on drop in crop yields could be better known. He recalled a published paper from the University of Minnesota wherein the global crop yields for some major crops like maize, wheat, rice, soybeans, root and chilly crops were studied. It was seen that the biggest increase in crop yield occurred during the period from 1961 to 1989 with wheat yield increasing by about 2.75%. However, between 1990 and 2007, a similar increase in the crop yield was not seen. This led to consideration of various issues such as germplasm, question of using new hybrid varieties, availability of water, farmers' socio-economic condition, input supplies, etc. all of which had a major impact in the decrease of yields. Thus, Prof. Madramootoo said, the question of germplasm, working with biotechnologists and plant scientists was important to develop drought tolerant crops, as also the ability to provide that germplasm to the farmers. He opined that managing water under conditions of scarcity will continue to be one of the factors as regards the crop yields, therefore, this together with climate change scenario will have to be kept in mind. It had been seen that the low crop yields were the result of low inputs, low technology, inappropriate water applications in the current climate change situations, but with attention paid to these significant inputs, the yield gap could be narrowed with improved practices. He suggested that the improved practices and improved germplasm had to be taken seriously in ICID's work program.

Prof. Dr. Madramootoo mentioned that mainly the public sector was investing in agricultural research in developing countries, while very little investment was visible from the private sector. Globally the public sector dominated the investments in agricultural research. He recollected that the Prime Minister of India mentioned in his speech about the previous green revolution that was possible due to public investment in research, calling the next green revolution to be governed mainly by the private sector in research. President Madramootoo felt that this was another role for ICID to look at and Vice President Hon. Nairizi would address the issue of direct private sector participation in ICID in his PFC report. He exhorted all those present to take seriously and not ignore the recommendations of the PFC as to how the private sector should be involved more and more, not only in what we did in ICID, but also to help us to come in closer contact with industry to promote research investments in water and agriculture. He felt that it was necessary for ICID to be a leader in irrigation and drainage research and was pleased to mention that a Memorandum of Understanding (MoU) would be signed by ICID with the Iranian Government and the Iranian National Committee (IRNCID) later that day. He said that he had been discussing with the National Committees how ICID could rebuild its leadership in irrigation and drainage research that could be more client driven rather than donor driven. He hoped that by the next year or so some headway could be made in this regard to bring ICID back into the forefront of research agenda to achieve some of the goals and challenges that he had earlier mentioned in his presentation.

President Madramootoo concluded his opening remarks by thanking all the National Committees for their very strong support to ICID and by also thanking the ones with whom he had a chance to interact and attend their annual conferences.

Applause ….

Item 2 : Application of Countries for ICID Membership

President Chandra Madramootoo then moved on to Item 2 **'**Application of Countries for ICID Membership'. He informed that Central Office has received applications from two countries for the membership - Cameroon and Fiji and asked members to refer the details of these countries as given in the printed agenda. Although there were no representatives either from Cameroon or Fiji at the meeting, President recommended the Council to accept their membership and asked for support from National Committees.

The motion was supported by Indonesia and seconded by Australia, Canada, China, Estonia, Hungary, France, Spain, Uzbekistan, Korea, Malaysia, Iran, Turkey and Italy. All others were in favour. As there were no comments and / or questions, the membership applications of Cameroon and Fiji were unanimously accepted by the Council.

President thanked all and asked Secretary General to write to the National Committees of Cameroon and Fiji conveying acceptance of their applications for ICID membership and (*pay their first membership subscription*), soliciting their participation at the next year's IEC for making presentation.

Secretary General thanked the President.

Item 3 : Venues for Future Conferences

President Chandra Madramootoo moved on to Item 3 "Venues for future conferences". As the 3rd African Regional Conference was approved to be held in 2011 in Mali, President invited representative of Mali National Committee to say a few words.

President Madramootoo *(spoke in French)* indicated that delegates can deliver their speech in French as there was simultaneous translation facility both in English and French.

Dr. Abdoulays Dembele (Mali) (*spoke in French*) thanked the President and said that he is the President of Irrigation and Drainage Association of Mali which is also the National Committee of ICID. The Association with the support of Mr. Adama Sangare has proposed to host the 4th African Regional Conference in Mali in 2011, which was also supported by the Nigerian National Committee. However, as you know, Nigeria had withdrawn its proposal to host the 3rd AfRC, Mali will be organizing the 3rd AfRC in place of 4th AfRC as planned earlier.

Dr. Dembele informed the Council about the developments since they accepted to hold this conference. The National Committee has written an official letter to the Ministry of Agriculture, and also held an official meeting with

the Minister to explain the status. He said that the Minister has favorably considered the proposal and would write to the Government of Mali to seek their official support. The National Committee has also set up a working group to prepare a work plan and an agenda and all the necessary arrangement to hold the 3rd AfRC. He hoped to present a comprehensive work plan at the next Council meeting in Indonesia.

President (*spoke in French*) thanked Dr. Dembele and appreciated various preparations towards hosting the Conference by Mali National Committee and assured him full support from ICID.

President Chandra Madramootoo apprised about the upcoming European Regional Conference to be held in Groningen, The Netherlands, from 16-20 May 2011. He said that the French national Committee has since submitted a proposal to host an European Regional Conference ahead of NETHCID in 2010 ahead of the one accepted in 2011 in the Netherlands. The AFEID Conference will focus on Groundwater. Both the NETHCID and AFEID have agreed to this arrangement and the ERWG supports the hosting of both conferences.

President (*spoke in French*) then invited Mr. Henri Tardieu to make a presentation regarding the proposed European Regional Conference in France.

VPH Henri Tardieu (*spoke in French*) thanked the President and also to Dutch National Committee for agreeing to host the 24th European Regional Conference in France. He said that the conference will have focus on the issues of groundwater and will be held in December 2010 at Orléans, a town near Paris located at the center of major watershed covering the entire Paris region. VPH Tardieu informed that various methods of regulation - technical as well as legislative have been initiated to have a fair and equitable allocation of the ground water. He mentioned that there are issues of groundwater management in Europe as highlighted by the EU Water Framework Directive and this conference will be within the framework of next World Water Forum which will be held at Marseilles in 2012.

President **(*spoke in French*)** thanked Vice President Hon. Henri Tardieu and invited questions, comments, if any.

Since there were none, **President Chandra Madramootoo** moved on to discuss about the 62nd IEC, the 21st Congress on Irrigation and Drainage, and 7th International Micro Irrigation Congress that will be held in Tehran from 15-23 October 2011. He said that IRNCID is working hard to prepare for the events.

As regards the events in 2012, President informed that at the 59th IEC held at Lahore, Thailand had expressed its desire to host the 7th Asian Regional Conference in 2012, but since then there has been no further confirmation from Thailand National Committee as regards their interest in hosting the event. President then called on a representative of Thailand National Committee to know the updates.

Mr. Chatchai Boonlue (Thailand) thanked the President and apprised of a change in their thinking**.** Thailand National Committee is now willing to host the 64th IEC meeting and 7th Asian Regional Conference in 2013.

President Chandra thanked Mr. Boonlue and asked the Thai National Committee to write to the Central Office with a formal application and they would then be invited at next year's IEC in Yogyakarta to present their formal proposal to host the 64th IEC meeting and 7th ARC in 2013.

The Egyptian National Committee also had shown interest in hosting the 63rd IEC and 4th African Regional Conference in Cairo in 2012. As there was no representative of ENCID at the meeting, President proposed to defer the decision at this meeting.

There were two other National Committees – Australia and Turkey who have expressed interest to host 63rd IEC in the year 2012. President proposed to go in an alphabetic order. He invited Australian National Committee to come forward and make presentation of their proposal.

Dr. Willem F. Vltoman (Australia) thanked President and made a power point presentation about the Australia's proposal to host the 63rd International Executive Council Meeting, 7th Asian Regional Conference in 2012 along with the National Conference that Irrigation Australia would organize at Adelaide. The Conference theme is proposed as "*Regional Cooperation for Water and Food Security*".

Dr. Vlotman said that Adelaide has excellent flight connectivity and good connections with world's major airlines, and world-class conference facilities. Adelaide has 2 million population, has very pleasant climate and it is also known as the 'Festival City' of Australia. There are many good hotels and interesting sights to see around. There are several interesting studies and activities carried out by the Murray-Darling Basin Authority. Through modeling approach, efforts were made to figure out sustainable water diversion limits in the prevailing conditions of drought. There is a major irrigation modernization project and also a major project on environmental assessment for improving and keeping the wetlands alive. The post and pre-conference tours are planned to visit these areas. Alongside the Conference, there will be a major exhibition. These exhibitions usually attract nearly 3000 of which about 100 to 150 participants are of local irrigation companies. The registration fees will be USD 750 (or 820 AUD) and will also cover the cost for visiting the exhibitions. A team called "Group of People Team Adelaide" will work on the sponsorships for all these events. Dr. Vlotman announced that the 'Team Adelaide' and other sponsors will provide 40000 Australian Dollars to subsidize travel and registration fee of students and young professionals to attend the conference. He mentioned that he has submitted a detailed proposal to the Central Office. Dr. Vlotman concluded his presentation by inviting all National Committees and all members to come to Adelaide, Australia in 2012.

President Chandra Madramootoo thanked Dr. Vlotman and invited questions, clarification, if any from the floor. As there were none, he invited Turkish National Committee to make their proposal for the 63rd IEC in 2012.

Mr. Hasan Basri Yuksel (Turkey) thanked the President and said that they are interested in hosting the 65th IEC and 22nd ICID Congress in 2014 and would like to make a presentation, if allowed.

President Madramootoo proposed that the presentation by Turkish delegate will be made later, as it pertains to 65th IEC and 22nd Congress. He then invited voting by showing hands from the floor to Australia's proposal to host the 63rd IEC and 7th Asian Regional Conference in 2012.

South Africa, Russia, Indonesia, Japan, France, Canada, China, Korea, Malaysia, Turkey, India, Netherlands, UK, Ukraine, Germany, Pakistan, and many other countries unanimously supported the Australia's proposal and it was accepted by the Council. President congratulated Australian National Committee.

Applause …..

President Chandra Madramootoo suggested that Thai National Committee might like to make a presentation of their proposal of hosting the 64th IEC meeting at the time of 61st IEC meeting scheduled to be held in Indonesia in 2010. He then moved on to discuss proposals for 2014. He said that there are two proposals – Turkey and Korea to host the 22nd ICID Congress and the 65th IEC meeting in 2014. So he asked the Turkish delegates to proceed with their presentation. .

Mr. Hasan Basri Yuksel (Turkey) thanked the President and read the message from Hon'ble Minister for Environment and Forestry Prof. Dr. V. Eroglu, who was also the General Director of the State Hydraulic Works General Directorate. Dr. Eroglu conveyed his thanks and regards to the Executive Council members and all the delegates. He also thanked ICID for its significant contribution to the 5th World Water Forum held in March 2009 in Istanbul. He desired that Turkey would be very pleased to host the 65th IEC meeting 22nd ICID Congress, if approved by the Council.

Mr.Yuksel then made a presentation on "Turkey's irrigation development - the past, present and future". He said that in Turkey agriculture and industrial sectors support each other, and about 8% of Turkey's export depends on the agricultural products. Turkey is self-sufficient in food and is one of the major exporting countries of the agricultural products to the Middle-East and the European countries.

Turkey has uneven distribution of rainfall both spatial and temporal and therefore country faces many challenges and threats for sustainable agricultural production. Turkey's annual exploitable water resources have been estimated at 112 billion cubic meters. Presently about 43.6 billion cubic meters per year are withdrawn. Irrigation is the biggest user of water sharing 74% of the total water withdrawals. Turkey in 2003 had adopted a new irrigation policy to convert traditional irrigation practices to modern systems. It has proposed to reduce the share of irrigation water withdrawal from 74% to 64% by adopting modern irrigation facilities and water saving techniques. Turkey has arable land of 28 million hectares, one-third of which can be classified as irrigable. However, about 8.5 million hectares could be economically brought under irrigation using available technology. Presently, 5.34 million ha are equipped with irrigation facilities. State Hydraulic Works General Directorate was established in 1954 as a prime state organization responsible for development of overall water resources for hydropower, irrigation and domestic

and industrial purposes. The Directorate contemplates to equip the total irrigable land with modern irrigation facilities by 2023 which is the 100th anniversary of Turkish Republic.

Mr. Youksel said that special feature of Turkey is its strategic location connecting continents of Asia and Europe, west and east, and emerging and developing countries. Turkey has a rich history of water resources management, culture and technology. Anatolia region - the Asian part of the Turkey is a cradle of many civilizations and has witnessed irrigation facilities since as old as 4000 years. He concluded his presentation by saying that Turkey is the 15th largest economy of the world, 6th largest economy amongst the trans-European countries, and is the 7th most visited tourist destination in the world.

Applause ….

President Chandra Madramootoo thanked Mr. Youksel and invited questions from the floor. Since there were none, he called on a Russian representative to come forward as RUCID has also expressed its interest to host 22nd ICID Congress in 2014. However, Secretary General intervened and said that Russian National Committee has since withdrawn their proposal. President therefore invited Korean National Committee to make a presentation.

Prof. Tai Cheol Kim (Korea) thanked the President and started his power point presentation. He said that a draft proposal to host the 65th IEC and 22nd Congress in Seoul in 2014 was mooted by the Korean National Committee (KCID) two years back in Sacramento. He said that KCID had joined ICID in 1969 and presently has 10 working groups and 1500 active individual members and 88 company members to support KCID financially. KCID is one of the well known NGO in Korea and has already won the ICID's "Best Performing National Committee Award" in 2002. The 52nd IEC hosted by KCID at Seoul in 2001 was a great success. Since then lots of developments in irrigation sector has occurred. So KCID is very eager to host the Congress and the IEC meeting in 2014 to discuss impending questions with the tentative theme "Water management in the years of climate change and international cooperation in 21st century". Question 1 would be "Policies and adoption in climate change" with sub themes on topics like drought, flood management, and rehabilitation and modernization of irrigation systems, etc. Question 2 would be "Practical way of international cooperation in 21st century" and sub-themes related to evaluation of international cooperation, and how to activate the rural development projects in ODA and new policy trend of the international cooperation in 21st century, especially to assist and support the developing countries.

Prof. Kim cited an example of country's preparedness to adapt Climate Change practically. He said that Korea is a member of development assistance organization, OECD. Korea has donated 6 billion US Dollars to ODA funds towards sharing the know-how of the rural development through irrigation and drainage projects in the developing countries.

Prof. Kim narrated as how his country has gone through a dramatic economic, technological and social transformation during the last 3 to 4 decades. The Country has achieved self sufficiency in food and food security through rural development which is one of the role model for the developing countries. This was possible mainly through construction of irrigation and drainage infrastructure, land consolidation, and farm mechanization. After achieving the successful rural development and food security, Korea focused on strengthening its industrial sector - like heavy industry, car manufacturing and ship building, and subsequently to the advanced Information Technology sector.

Prof. Kim also apprised about the post conference study tours and various sightseeing tours which will be organized on the occasion of the Congress. He concluded his presentation by inviting all to visit Korea to see the advanced rural society and modernized irrigation and drainage facilities, besides its rich culture and urged all to support hosting of the 65th IEC meeting and 22nd Congress in 2014 in Seoul.

Applause …..

President Chandra Madramootoo thanked Prof. Tai Cheol Kim and said that the Council has two proposals for hosting the 65th IEC and 22nd Congress in 2014; one from Turkey and another from South Korea. He then opened the floor for questions or comments.

Dr. Saeed Narizi (Iran) said referred to discussions held in the PFC meeting regarding the financial aspects. It was suggested that both Turkey and Korea may be asked to provide financial bids to host the 65th IEC and 22nd Congress in 2014 and present at the 61st IEC meeting to be held in Indonesia in 2010 for PFC's consideration.

President thanked VPH Nairizi and asked for any other comments.

VPH Dukhovny (Uzbekistan) said that, the Govt. of Turkey had already hosted the 5th World Water Forum in March 2009 which was an excellent mega event. So it would be worthwhile to take some break before hosting another big event by Turkey. He supported hosting of the 22nd ICID Congress in Korea as the country has well developed and modern irrigated agriculture and many developing countries will be benefited by seeing their agriculture and rural development projects.

Applause ….

President Madramootoo thanked VPH Dukhovny.

Dr. W.F. Vlotman (Australia) supporting to the comments by Dr.Nairizi enquired as to whether the Central Office has received the financial proposals from these two countries? And were there bids in order? It is essential that Congress events ensure financial viability and income to ICID.

President asked Secretary General to clarify.

Secretary General Gopalakrishnan explained that there is a prescribed format to be filled in providing relevant financial details of the event by the National Committee desiring to host it. This is to be submitted to the Central Office and posed to PFC. Normally, this is needed once in principle IEC approves the event. As regards hosting of the 22nd IEC, this was not the case. Appreciating the concern of the Chair of the PFC, Secretary General brought to the attention of the Council that the financial strength of the ICID has deteriorated in the past due essentially to non-receipt of anticipated amount of the registration fees from some of the past ICID Congresses which has adversely impacted ICID revenues. However, he said that as per the provisions in the constitution and by-laws, the IEC is empowered to make a choice amongst the countries offering the bid and the financial aspects are subsequently reviewed in PFC. Members could ask any questions and clarification to the concerned National Committee hosting the Congress, on any aspects, including financial, to enhance ICID revenues.

President Chandra Madramootoo thanked Secretary General for clarification and asked for any more comments from the floor. There were none. Considering all the views, President indicated that it would not be beneficial to delay making a decision, and the Council may give opportunity to one of the National Committees to be selected and start working on the financial proposal. He said that the submission of the financial proposal was never a pre-requisite for approval by the IEC in the past. He would not like to introduce therefore, any change in the prevailing practice. President recommended taking votes by show of hands. He then asked for votes from the floor - first from those who were in favour of hosting the 65th IEC meeting and 22nd Congress in South Korea and then those who were in favour of hosting the event in Turkey.

Meanwhile, President asked all members to make sure that they signed the attendance sheet as there will be voting, later on, for electing the three Vice Presidents. The attendance need to tally with the number of votes. Central Office professionals participated in hand – count exercise in each case and conveyed the results to the President.

President Chandra Madramootoo based on the vote counts announced the decision of the council that the 22nd Congress goes to the South Korea based on the results from counting of votes. He congratulated South Korean National Committee for the honor.

Applause…..

President Madramootoo thanked Turkish National Committee for their interest to host the 22nd Congress. He encouraged them hosting another event subsequent to the 22nd Congress, given the IEC decision in favour of Korea. He assured ICID's full support to KCID and looked forward to receiving a detailed financial proposal for hosting the event in 2014.

President then suggested National Committees of Thailand, Turkey or any other Country willing to host the 64th IEC in 2013 making a formal proposal and sending it to the Central Office for its approval at the 61st IEC meeting to be held in October 2010 in Indonesia.

President also urged National Committees of Americas to volunteer hosting of the 5th American Regional Conference. He encouraged National Committees of Canada and USA who were present to explore the possibility of hosting the Regional Conference through their joint collaboration.

Item 6 : Appointment of Chairman PCSPOA

President Chandra Madramootoo then moved to item 6 "The appointment of Chairman of the PCSPOA". He informed that VPH Gao Zhanyi, Chairman PCSPOA will be stepping down at the end of this IEC meeting and Study Tours; and in consultation with the Secretary General he has proposed the nomination of Vice President Dr. Hafied Gany from Indonesia to be the next Chair of PCSPOA. President congratulated Dr. Gany and said that he would resume his term of office at the end of this meeting.

Applause ……

President Chandra Madramootoo moving on further asked Secretary General to present his report.

Item 7 : Secretary General's Report

Secretary General Gopalakrishnan thanked President Madramootoo and proceeded to handle his report with the help of Power Point Presentation slides. He commenced his report indicating that a written one forms of the printed Agenda for Council Proceedings and that he can assume that many might have spent some time to go through them. SG said that he would briefly touch upon them and important developments, if any additionally during the course of his presentation.

Secretary General Gopalakrishnan apprised the council that the 59th IEC coupled with 20th ICID Congress on the theme "Participatory IWRM from Concept to Action" was held in Lahore, in October 2008. About 500 delegates attended the Lahore events, 150 being international guests from 24 countries. A Symposium, a Special Session and some workshops were also organized. The 7th N.D. Gulhati Memorial Lecture was delivered by Prof. Chandra Madramootoo. The minutes of the meetings were posted on ICID website on 23 January 2009. Publications from Central Office during the year included the Annual Report and the News Letters and News Updates. ICID journal assigned to M/s John Wiley appeared at the regular intervals thanks to the hard work of the Editor PH Bart Schultz and his editorial team.

Secretary General then covered the ICID membership status in a nutshell. He highlighted that there were 64 active member countries, 34 deemed inactive, 09 admitted but not paid subscription, 03 withdrawn. The total membership network is 108. With the admission of two more countries in this IEC, it would move to 110. With regard to augmenting membership efforts continue. Afghanistan, admitted in the last IEC has paid their membership. Jamaica who also was admitted, are yet to pay their initial subscription. The new members joining us are Uruguay and Niger. The continental-wise distribution of active members stood at, Africa, 24%; Americas, 34%; Asia and Oceania, 74% and Europe 83%. Secretary General added that some more new applications for membership anticipated from Saudi Arabia and Bhutan did not reach before the current IEC. Secretary General commended all efforts of several Vice Presidents in enhancing the membership and also to activate those who are deemed inactive.

Secretary General moved on to cover the ICID activities through its workbodies. He amplified that the experts of the National Committees fill in 281 out of the 387 slots of core membership of in 3 Permanent Committees, 3 Special Sub-committees, 17 Working Groups/Work Teams, 4 Regional Working Groups and 4 Task Forces and contribute for the respective WGs. The three bodies – the Management Board (MB), Staff Committee (SC) and MT-Journal to assist MB looked after all the administrative matters concerning ICID. OBC continued to advice, prior to the Council meetings, on issues of importance.

Secretary General then brought forth the actions taken in enhancing ICID visibility during the preceding year. He briefed a few meetings of international importance in which invitations were favourably responded by his attendance. The High Level FAO Conference on "Water for Agriculture and Energy in Africa" held in Sirte, Libya in December 2008, IWMI-FAO-ADB Conference on "The Asian Irrigation Future" in Bangkok in January 2009 and the 5th World Water Forum in Istanbul, Turkey in March 2009 were cited. With regard to ICID events, Secretary General explained that he attended the 23rd European Regional Conference held in Lviv, Ukraine with the support of the

Ukrainian National Committee. Besides, he participated in the 2nd International Conference on "Global Food Security" held by McGill University in October 2009 on invitation and funding support.

Secretary General explained about ICID WWC association, and ICID participation in the General Assembly of World Water Council in Marseilles, France. ICID also contested for the new Board of Governors but due to severe competition in College 5 in which it was classified could garner a little less than what was required to get in. Secretary General indicated that quite a few events held in India related to globally important organizations like WWF, IUCN, WB, Research Organizations and Academic Institutions and others were also attended on invitation to ICID. He then touched upon the efforts of other office bearers in enhancing ICID image and visibility and that President visited Morocco, Spain and Mali. Several Vice Presidents' visits covered some of their neighbours assigned under the distribution and beyond. The Central Office could have a few details from VP Karim Shiati in this regard, essentially his visit to the middle-east countries. All these contributed a lot in enhancing ICID visibility.

Secretary General also highlighted the details of some of the key dignitaries who visited the Central Office during the year which could provide a better interaction. He cited the visits of Dr. Gavin from Delhi Office of FAO India & Bhutan Affairs, PCTA Chair, VPH Dr. Hector Malano, PFC Chair VPH Dr. S. Nairizi, Secretary Generals Honoraire Dr. C. D. Thatte and Dr. R.S. Varshney, Mr. Waseem Nazir from PANCID, Dr. Tom Franks from ICID.UK, ICOLD VPH Dr. Francois Lemperiere, Prof. A.K. Biswas of 3rd World Centre on Water Management, IWRA President Dr. Cecilia Tortajada, INCID Chair Mr. A.K. Bajaj, World Bank Expert on Sedimentation Mr. Sultan Alam, Mr. Ganesh Pangare of GWP, Prof. Prem Vashishta of IWP Delhi besides representatives from various international organizations.

Secretary General Gopalakrishnan said that the Text Delivery Service (TDS), the Library Service and the web hosting for WGs were utilized by many during the preceding year. The website visits were substantially more compared to earlier years. He cited a magnificent output from the French Unit in Central Office was related from the French translation of Multilingual Technical Dictionary (MTD). He said that the workbodies can now directly access their respective web pages and 21 workbodies have so far established their individual web pages for disseminating their activities and that a domain name was registered for getting additional space on the server, www.icidonline.org. The publications and publicity materials brought out by Central Office included the entire Lahore Congress transactions on CD-ROM, a CD-ROM titled "ICID@60" which consolidates the sixty year record of ICID in different angles. He further indicated that a draft report was brought out on CD-ROM on ICID inputs to the World Water Forum on Topic 2.3 "Water and Food for ending Poverty and Hunger". Secretary General went on to indicate that a report on Task Force on IBWT was also slotted for the year but since PH Bart Schultz is busy giving a final touch for this ICID document, the publication will be brought out next year.

Secretary General Gopalakrishnan said that complimentary copies of last year's publications were supplied to all National Committees and these included *Water Saving in Agriculture*, highly acclaimed *Manual on Performance Evaluation of Sprinkler and Drip Irrigation Systems in Different Agro Climatic Regions of the World*. The latter was viewed as a very concise and comprehensive publication and there were more demands for it. He said that the *Report of the ICID Task Force on Least Developed Countries in Asia* was distributed to all NCs gratis. Secretary General complemented Secretary K.N. Sharma for accomplishing the updation of the Multilingual Technical Dictionary (MTD) that has been made available to delegates on a CD-ROM. English, French, Chinese, Japanese, Russian and English-French equivalents are covered in this updation.

Secretary General Gopalakrishnan placed on record his sincere appreciation to President Chandra Madramootoo for all the good that he has done for ICID and CO since assuming Office last year. President Chandra had proposed a fresh look in order to enhance our focus particularly on Africa, Central and South-East Asia, the result of which are seen in this Asian Regional Conference, he said and quoted as example Special Sessions on Mekong River Commission Session and Aral Sea Session. Secretary General expressed his sincere thanks to all the Chairs of the NCs for their continued support and conveyed his sincere appreciation to INCID for their great efforts at a very short notice in organising this year's IEC and handling it so well. ICID had the privilege of getting introduced to one of the world's largest democracies' leader, the Indian Prime Minister, Hon'ble Dr. Manmohan Singh and other distinguished league of Ministers during IEC. In the end, he thanked his devoted Central Office staff for their hard work, their understanding of some difficulties and the constraints; he could manage a demanding situation even though with a lesser manpower, due to their support. He amplified that the strength of CO was at its low, three professionals with others numbering 16, less than 2/3rd of what was obtaining for the past few decades. On this occasion of ICID's sixtieth year of existence, SG said craved for the blessings of Lord Almighty to give everyone in ICID family the needed strength and courage to meet the future challenges, outlined in the presidential speech.

Applause …..

President Chandra Madramootoo invited questions to the Secretary General on his report. As there were no questions, he thanked Secretary General, for his contributions and hard work in Central Office which was deeply appreciated by all National Committees. President then announced about a brief ceremony of signing of MoU between ICID and IRNCID. He requested Secretary General to read the contents of the MoU.

Secretary General then read the contents of the Memorandum of Understanding between ICID and Ministry of Energy, Islamic Republic of Iran through the Iranian National Committee on Irrigation and Drainage (IRNCID): *(to quote)*

"In due recognition of:

(i) the pressing needs to ensure global food security by increasing the present level of food production;

(ii) the important role of research and technology development towards this global goal;

(iii) the need for capacity building at all levels in efficient water management;

(iv) ICID being the largest NGOs in irrigation and drainage covering 108 countries;

(v) the organizational strength of ICID with its well established widespread network of National Committees created over the past six decades and with contribution from specialized workbodies;

(vi) the Iranian rich traditional knowledge coupled with modern advances in irrigation and drainage technologies. ICID and Ministry of Energy, Islamic Republic of Iran hereby through its IRNCID undertake to jointly launch a centre for an International Program of Research and Technology in Irrigation and Drainage and to develop a plan of action as soon as possible.

Signed on 10th of December 2009 at New Delhi by President Chandra Madramootoo representing ICID and H.E. Mohammad Reza Attarzadeh, Deputy Minister for Water and Waste Water Affairs of the Ministry of Energy, Islamic Republic of Iran and Chairman of IRNCID".
(Unquote)

President Chandra Madramootoo thanked Secretary General and Iranian National Committee for their leadership in launching of an 'International Centre for Research and Technology Transfer in Irrigation and drainage'. He said that a 'Board of Governors" will be set up to support the center and invited all countries of ICID to participate fully so as to take this center to the next level of implementation as one of the excellence in international research in irrigation and drainage. President then adjourned the meeting for the lunch break.

Post lunch on reassembly by all concerned, **President Chandra Madramootoo** welcomed them back and continued discussion on the remaining agenda items. He invited VPH Gao Zhanyi to present the report of the Management Board.

Second Session (14:15 – 18:00 hrs)

Item 8 : Report of the Management Board (MB)

Vice President Hon. Gao Zhanyi welcomed President, Vice Presidents, Secretary General, President Hon., Vice President Hon., and other members of the Council and presented the recommendations of the 29th meeting of the MB held on 5 December 2009.

VPH Gao Zhanyi said that the MB took note of the nominations received from the National Committee and international organizations for appointment of General Reporters and the Panel of Experts for the questions and sub-questions of 21st ICID Congress to be held in Tehran, Iran in 2011. He said that in order to maintain the balance of wider geographical spread of international experts, the following nominations were finalized from amongst those suggested by National Committees:

- Dr. S. Nairizi (Iran), as General Reporter for Question 56: Water and Land Productivity Challenges

Panel of Experts for various sub-questions:

  - Dr. Yohei Sato (Japan) for 56.1 "Water and Land Productivity: Concepts, Indices and Targets;

- Dr. Muhammad Nawaz Bhutta (Pakistan) for 56.2 “Innovations, Technologies and Best Practices for Sustaining and/ or Increasing Water and Land Productivity”;
- Dr. Ragab Ragab (UK) for 56.3 “Productivity of Poor Quality Waters for Irrigation Uses”.
- Dr. B.R. Sharma (India) for 56.4 “Improving Crop Water Productivity under Stressed Environment”; and
- Dr. James E. Ayars (USA) for 56.5 “Irrigation and Drainage Management Improvements”.

- Dr. Theib Y. Oweis, ICARDA (Syria) or Dr. Jose A. Ortiz Urrutia (Spain), as General Reporter for Question 57 “Water Management in Rainfed Agriculture”.

Panel of Experts for various sub-questions:

- Dr. N. Hatcho (Japan) for 57.1 “Drainage and Flood Management in Rainfed Farming”.
- Dr. Suhas Wani, ICRISAT (India) for 57.2 “Water Harvesting and Conservation”
- Dr. Md. Ait Kadi (Morocco) for 57.3 “Supplementary Irrigation” and
- Ing. Helvecio Mattana Saturnino (Brazil) for 57.4 “Rainfed Farm Management”.

- For the Special Session “Modernization of Water Management Schemes” Dr. M.H. Amer (Egypt) was recommended as the General Reporter; Dr. Ir. Maurits Ertsen (The Netherlands); Dr. M. Satoh (Japan); and Dr. Karim Shiati (Iran) as the Panel of Experts.

President Chandra Madramootoo then asked the Central Office to approach the nominees for their consent and where necessary make amendments in consultation with him.

VPH Gao Zhanyi continued to indicate that the Management Board took note of the interest of UN-Water Decade Program on Capacity Development (UNW-DPC), Bonn for a bilateral cooperation with ICID for capacity development and organizing an international workshop on “Capacity development for farm management strategies to improve crop water productivity using AquaCrop” in Tehran in 2009. The Management Board desired that WG-TRUE should look into the aspect of capacity building as the erstwhile WG-CBTE has already been wound up. MB suggested that there can be a generic approval for partnering with other international organizations like IUCN, WWF and others and a common MoU can be evolved by the Central Office.

Reporting further the MB recommendations, **VPH Gao Zhanyi** said that the Management Board considered the setting up of new Task Force on two specific subjects- one on ‘Bio-Fuel’, and the other on ‘Sedimentation of Reservoirs’, and asked Central Office to follow up further.

VPH Gao Zhanyi informed further that the Management Board took note of the recommendation of the Iranian National Committee with regard to widening the membership network of the Commission by an inclusive process which can enable the induction of organizations, institutions, manufacturers of irrigation equipments, instruments/ drainage accessories, contractors, etc. He said that the MB has endorsed the need to enhance the strength of ICID by such process as it would not only help in enhancing technology exchange but also strengthen the ICID finances, and recommended the Council to approve the proposal in evolving a suitable mechanism to achieve the objective.

VPH Gao Zhanyi mentioned about MB’s proposal to constitute a Committee comprising President Chandra Madramootoo, Pres .Hon. Peter Lee, Pres. Hon. Bart Schultz, Chairman, INCID Mr. A.K. Bajaj and Secretary General Gopalakrishnan to formulate a declaration which would be called the “New Delhi Statement” to be read out at the plenary session on the closing day of the 5th ARC.

He informed that the Management Board approved the suggestions to provide a Permanent Observer status to the “Challenge Program on Water for Food” (CPWF) and invite them for IEC meetings. It was hoped that CPWF would reciprocate by partnering with ICID on their programs, where relevant. **Dr. Gao** further informed that on conclusion of the 60th IEC meeting, the present PCSPOA Chair will be relinquishing his role. MB had proposed the nomination of Dr. Hafied A Gany (Indonesia) as his successor and the next Chairman of PCSPOA.

VPH Gao Zhanyi informed that the President had constituted an advisory committee chaired by VPH Larry Stephens and comprising PH Keizrul bin Abdullah, Mr. Stephen Mills, VPH Safwat Abdel Dayem and VPH Khalid Mohtadullah to review the appointment of a new Secretary General or the reappointment of the current Secretary General under special circumstances and said that the advisory Committee has prepared a detailed report for submitting to the President with a recommendation that will brought to the IEC.

VPH Gao Zhanyi said that the Management Board took note of special issue on 'Water for Food and Poverty Alleviation' of ICID Journal Volume 56, Supplementary 1, February 2009, edited by guest Editors Henri Tardieu and Bart Schultz; a CD-ROM brought out by ICID containing the output of Topic 2.3 "Water and Food for Ending Poverty" under the Theme 2 'Advancing Human Development and Millennium Development Goals' and would be released during the 5th ARC. The MB also took note of the excellent arrangement for the New Delhi meetings by INCID and recorded their appreciation for their work in obtaining an overwhelming response of technical papers from a large number of countries.

VPH Zhanyi appraised the MB's view on the current status of IPTRID that there should be a new direction in reshaping the future IPTRID and noted that Morocco in the coming months might hold a high level consultation meeting inviting some new key players. MB hoped that the newly oriented IPTRID with participation of some of the large irrigated countries like China, India, Iran and Turkey might take some lead in piloting the same.

VPH Gao Zhanyi concluded his report by informing that the MB has approved the MT recommendations for publishing 5 issues of the journal from 2011 (152 pages instead of 128 pages). The annual subscription rates for the members will be $ 36 (*online*) and US$ 43 (*for online + prints*) from 2010.

Applause….

President Chandra Madramootoo thanked VPH Gao for presenting the MB report and invited questions on the MB report. Since there were none, President asked for approval of the report from the floor.

(Canada, Japan, Iran, France, Korea voted in favour; none against and the report was unanimously approved by all.)

Item 9 : Report of the Permanent Committee on Strategy Planning and Organizational Affairs (PCSPOA)

President, moving on further, requested **VPH Gao Zhanyi**, Chairman of the Permanent Committee for Strategy Planning and Organizational Affairs (PCSPOA) to present his report.

VPH Gao Zhanyi, Chairman, PCSPOA welcomed once again all and presented the key activities and recommendations of the workbodies under PCSPOA.

As regards the membership of the PCSPOA, he informed that as per the By-laws 3.2.2(e), VPH Dr. Mark Svendsen (USA), VPH Felix Reinders (South Africa) and he himself would retire from the membership of the Committee at the conclusion of the New Delhi events on completion of their four year tenure. Three new Vice Presidents who would be elected at the Council meeting would join the committee as members. He said that as stipulated in By-law 3.2.2(e) the President, in consultation with the Secretary General has nominated Dr. Hafied Gany as the new Chair of the PCSPOA, until 2011. He then informed about the new membership as accepted for various workbodies under PCSOA as follows:

Working Group on Young Irrigation Professionals Forum (WG-YPF) - Mr. Piyush Ranjan (India) in place of Dr. Sanjay Belsare; Mr. Houman Khaledi (Iran) in place of Mr. Ali Reza Salamat; Dr. Takanori Nagano (Japan) in place of Mr. Hidekazu Tagashira;

Asian Regional Working Group (ASRWG) - Mr. Ravinder Singh (India) in place of Mr. C.D. Khoche

Special Work Team on Aral Sea Basin (ST-ARAL) - Dr. Kai Wegerich (The Netherlands)

As regards the membership of new countries and membership drive, **VPH Zhanyi** informed that Cameroon and Fiji have submitted their applications for membership. He brought to the attention of the Council the fact that, in the past several National Committees had been accepted for the membership, but they were yet to pay their first subscription to commence their individual memberships, formally. The new countries approached by the Central Office for ICID membership included 8 countries from Africa, 8 countries from Americas and 9 countries from Asia and Oceania, and 6 countries from Europe. He said that the PCSPOA has supported the report made by the Convener of the Special Committee to review issues under PCSPOA as proposed.

Briefing on the updates of status of National Committees, **VPH Gao Zhanyi** said that presently, ICID has 64 National Committees. Thirty two National Committees were *'deemed to be inactive'*. Nine countries were admitted but not paid their first subscription as yet. There were more *'deemed inactive members'* from Africa and Americas. He stressed that it was not only important to make payments of subscription, but equally important was to get actively involved in ICID activities besides the regional ones. Citing the example of European Region, **Dr. Zhanyi** said that although there were 24 active members in term of subscription payments, only 9 members attended ERWG meeting. He urged all National Committees to get fully involved in ICID activities.

VPH Gao Zhanyi appreciated the efforts put in by Vice Presidents Dr. Karim Shiati, Dr. Ing. Eiko Lübbe, Prof. Peter Kovalenko, Dr. A. Hafied A. Gany, Mr. Shinsuke Ota, and Prof. Lucio Ubertini in strengthening regional cooperation and activities of National Committees as allocated to them.

Apprising on the status of the Task Force on Priority issues for Least Developed Countries in Africa (TF-LDCsAF), **Dr. Gao Zhanyi** informed that the TF meeting could not be held due to low attendance of African countries. A revised version of the TF's draft report was however, circulated during the AFRWG meeting. PCSPOA has decided took note of it and decided to close the Task Force (TF-LDCsAF).

So far, Central Office has Constitutions of 41 National Committees. **VPH Gao Zhanyi** requested all those National Committees who have revised their constitution to send copies of their revised constitution to the Central Office for their record. He asked the Central Office to provide the Constitutions to all those National Committees who are yet to form a Constitution, for reference.

VPH Gao Zhanyi then reported about key activities of the workbodies under PCSPOA.

African Regional Working Group (AFRWG). Since the Nigerian National Committee (NINCID) could not host the 3rd African Regional Conference due to circumstances beyond their control, the 4th African Regional Conference which was approved at Lahore to be held in Mali in 2011 would be renamed as 3rd African Regional Conference.

European Regional Working Group (ERWG). PCSPOA took note of the 23rd European Regional Conference on the theme "Progress in Managing Water for Food and Rural Development" held at Lviv, Ukraine from 18-21 May 2009. The French National Committee has proposed to host the European Regional Conference with the theme "Groundwater Resources: an Essential Resources to be Saved and Managed" in Orleans, France in December 2010. Hence, the European Regional Conference which would be held in 2011 in The Netherlands with the theme "Integrated Water Management for Multiple Land Use in Flat Coastal Areas" will be re-sequenced as the 25th European Regional Conference.

Asian Regional Working Group (ASRWG). The 6th Asian Regional Conference will be held in Yogyakarta, Indonesia from 10-16 October 2010. The main theme of the Conference is "Improvement of irrigation and Drainage efficiency under the small land holding condition."

A Memorandum of Understanding between the Iranian National Committee and Turkish National Committee; and also between the IRNCID, German National Committee and the Germany Water History Association have been signed to enhance the regional cooperation.

American Regional Working Group (AMRWG). The AMRWG organized a workshop on the theme "Food vs Fuel: Implications for Water Resources", but there was thin attendance. The Committee suggested focusing on consolidation of the membership in the AMRWG.

Special Work Team on Aral Sea Basin (ST-ARAL): VPH Prof. Victor Dukhovny, Chair, ST-ARAL in consultation with VP Prof. Peter Kovalenko and VPH Dr. G.G. Gulyuk has proposed that the ST-ARAL be renamed as "Working Group on Irrigation and Drainage in States with Transition Economy" (WG-IDSTE). The new group was proposed to be chaired by VP Peter Kovalenko with VPH Dukhovny as Vice Chairman.

Special Work Team on Lake Chad Basin (ST-LCB): The tenure of the ST was extended by two years to complete its mandate. An interim meeting of ST-LCB was organized on 17 December 2008 in Sirte, Libya, on the sidelines of the High Level Conference on Water for Agriculture and Energy in Africa – "The Challenges of Climate Change". The ST has urged ICID support in furthering their activities.

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Committee on Congresses/Conferences (C-CONGR): The Committee reviewed the preparations for the forthcoming ICID events - 61st IEC meeting and 6th Asian Regional Conference during 10-16 October 2010 at Yogyakarta, Indonesia, 62nd IEC meeting and 21st ICID Congress during 15 -23 October 2011 at Tehran, Iran, and 25th European Regional Conference from 16 to 20 May 2011in Groningen The Netherlands and expressed satisfaction.

Working Group on Young Irrigation Professionals Forum (WG-YPF): The Committee noted that the young professionals have been increasingly playing an important role in ICID activities and recommended the extension of the tenure of WG to fulfill its mandate. It was reported that so far, 23 National Committees have established their Young Professionals' Fora. National Committees of France, India, Japan and South Africa have prepared their own regional directory of Young Professionals, while National Committees of Russia, China, Pakistan and Malaysia were in the process of preparation. It was informed that a Network of Young Professionals through development of a web-based platform was being established for sharing knowledge and information. The PCSPOA also observed declining attendance of Young Professionals in IEC meetings and asked National Committees to support and encourage Young Professionals to attend ICID events.

VPH Gao Zhanyi informed PCSPOA's suggestion that it would be unnecessary to establish a new workbody by merging the African and Asian Task Forces on LDCs, as TF-LDCs-AS has already finished its mandate, while the African Regional Working Group was also keeping track of TF-LDCs-AF.

Deliberating on strategy for communication and cooperation between ICID and other International Organizations and NGOs, **Dr. Gao Zhanyi** said that the Commission has close links with many leading international organizations and also promoting linkages with farmers associations and other water users both in the developing and developed countries. The PCSPOA encouraged all the National Committees to translate ICID publications and other technical documents into local languages for the benefit of farmers.

VPH Gao Zhanyi said that PCSPOA endorses the proposal of PFC of extending ICID membership to international organizations, private companies and manufacturers as it was not only important for boosting the ICID revenue but also for further extension of the technologies provided by ICID.

VPH Gao Zhanyi concluded his report by mentioning that the President, ICID has taken a renewed interest in revamping IPTRID.

Applause……

President Chandra Madramootoo thanked VPH Dr. Gao Zhanyi and invited questions on his report.

President Hon. Bart Schultz observed that a paper by the Chairman, Task Force on Least Developed Countries in Africa (TF-LDCsAF) has been published in the special issue of the Journal that was brought out on the occasion of the 5th World Water Forum. He said that it was a journal paper and not a position paper of ICID.

President Chandra Madramootoo thanked President Hon. Schultz and invited other comments.

Dr. W. Vlotman, Australia wanted to know whether the Task Force on Least Developed Countries in Asia still existed or terminated upon completion of the report.

VP Dr. Karim Shiati replied that the Task Force on Least Developed Countries in Asia has already been concluded upon completion of its report.

Dr. Vlotman thanked for the clarification and suggested to amend the minutes under item 6 accordingly. He then pointed out some discrepancies in the items 10 and 11, and said that there were more items of information on slides which were presented but were not included in the minutes and requested to correct in the final version.

President Chandra Madramooto suggested the Secretary General to revisit the slides and add information that was not reflected in the draft minutes, and asked for any other questions or comments.

President Hon. Schultz commented that in the supplementary agenda notes of the PCTA, it was stated that the new nominee of a National Committee was proposed in place of another existing member. This is not entirely correct since the total tenure of a PCTA member is 6 years. If a nominee is proposed 'in place' of an existing member then the nominee will serve only for the balance period and not for the full term of 6 years, whereas that

may not be the intention of the NCs while proposing nominations. He therefore suggested checking wordings as per the By-laws pertaining to membership of permanent committees while finalizing the minutes of the PCTA.

President Madramooto then asked for voting to approve the PCSPOA report.

India, Pakistan, UK, Indonesia, Netherlands, Turkey, Thailand, Iran, Italy, Japan, South Africa, Canada, Australia, Korea, Spain, China, Uzbekistan, and many other National Committees voted in favour, and the PCSPOA report was approved unanimously subject to corrections/ amendments as appropriate.

Applause….

President Chandra Madramootoo then moved to item 10 and invited Vice President Hon. Hector Malano to present the report of PCTA.

Item 10 : Report of the Permanent Committee for Technical Activities (PCTA)

Vice President Hon. Prof. Hector Malano presented highlights of the key items pertaining to the Working Groups and Task Forces as well as some key recommendations of PCTA which may require approval by the Council. As regards the new membership of the PCTA, he informed about the acceptance of the nomination of Dr. Husnain Ahmed (Pakistan) for the membership.

VPH Malano then apprised about acceptance of the nominations for membership and key activities of various workbodies under PCTA categorized under four Strategy Themes as follows:

Strategy Theme 'Knowledge'

C-PR&P has accepted PH Prof. Bart Schultz (The Netherlands) and Mr. A.K. Ganju (India) as new members. The Committee would continue working with the Central Office to improve the Newsletter and that the ICID Newsletter has been renamed as quarterly ICID NEWS. The Committee was also exploring publishing of the ICID presentations made at the WWF5.

ICID Journal Editorial Board (EB-JOUR): Mr. C.M. Pandit (India) and Dr. Yohei Sato (Japan) were accepted as members; while Prof. Ir. Dr. Mohd. Amin bins Mohd Soom (Malaysia), Prof. Machiel F. Viljoen (South Africa) were provisionally accepted as members subject to receipt of formal nominations from their National Committees. Dr. Bruce Lankford (UK) and Dr. Marcel Kuper (France) were accepted as Associate Editors. Prof. Malano emphasized that there has been a large growth in the number of manuscript submissions to the Journal which testimonies its popularity, and therefore the need for additional members in the Editorial Board. The Journal also published three special issues in 2009 and signed a new five-year agreement with the publisher of the Journal.

Working Group on Coordination of Dictionaries (WG-CD): The Group has brought out an updated version of the Multilingual Technical Dictionary (MTD), which was demonstrated at the PCTA meeting. Prof. Malano commended the work of the WG. He mentioned that the translation of MTD in Indonesian language has been completed and translation into Persian and Turkish languages was in progress. He recommended Central Office to explore the possibility of uploading the dictionary on ICID website.

Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST): Dr. Kamran Emami was accepted as new Chairman and Mr. Yogesh Paithankar (India) as member of the Group. The Group was focusing on the work of history of irrigation and drainage in Eastern Asia, Southern Europe and the Mediterranean. The WG has decided to continue its name as 'Working Group on History of Irrigation, Drainage and Flood Control'. The mandate has also been revised and updated to reflect some additional issues related to management and governance, institutional factors and social concerns.

Working Group on Technology and Research Uptake and Exchange (WG-TRUE): Dr. Kazumi Yamaoka (Japan) and Mr. Indra Raj (India) were accepted as new members. The working group has proposed to organize an internal workshop in Indonesia in 2010. The WG would also explore possible ways of revamping and including IPTRID into its mandate. The WG felt that capacity building encompasses all areas of ICID activities. It was therefore suggested that, the Central Office would prepare a background paper and eventually come up with the recommendations to incorporate capacity building activities in the various working groups.

Strategy Theme 'Systems'

Working Group on Modernization of Irrigation Services (WG-MIS): Engr. Syed Mansoob Ali Zaidi (Pakistan) was accepted as new member of the Group. The WG held its internal workshop and has focused on developing a rolling work plan for its future activities. At its next meeting in Indonesia, the Group would discuss six case studies at its meeting.

Working Group on Water Saving for Agriculture (WG-WATS): Mr. R. K. Gupta (India) and Dr. Muhammad Arshad (Pakistan) were accepted as new members. The Group while accepting the resignation of VPH Dr. Alain Vidal (France) expressed gratitude for his contribution. Dr. Vidal has volunteered to continue as Permanent Observer. The book on 'Water Saving in Agriculture' which was released in 2008 has been translated into Persian language. The WG has recommended some changes in WatSave awards. The WG has suggested to limit one nomination for each category of award by any National Committee when more cases come up and to add an (4^{th}) award for farmers. Prize money for each of the four awards will be US$ 500. The balance amount of the US$ 6000 could be used for travel grants to the young professionals and for farmers. The balance of the un-spent money could also be retained for future in case the US$ 6000 is unavailable in a particular year.

The above proposal was unanimously endorsed by the Council

VPH Hector Malano then moved to the next **Working Group on Drainage (WG-DRG)** and informed that the WG has cancelled membership i.e. Mr. Ahmed Mohammad Aziz (Iran) and Dr. Anzeim Carl Albertovitch (Kazakhstan) as they did not attend more than two consecutive meetings. The WG through its work plan would like to focus on three topics - disposal of salts and silts, societal perception of drainage, and impact of climate change on drainage.

Working Group on Role of Irrigation in Poverty Alleviation and Livelihoods (WG-POVERTY): The WG was emanated from the previous Task Force**.** VPH Dr. Alain Vidal Chairman of the erstwhile Task Force, did not attend the meeting but indicated his willingness to accept the Chairmanship. Dr. Yohei Sato (Japan), Mr. R.C. Jha (India), Mr. Hassan Javaid Afridi (Pakistan), Mr. Andre Roux (South Africa), Mr. Laurie Tollefson (Canada), Dr. Adama Sangare (Mali), and Mr. Enayat Farahani (Iran) were accepted for membership of the Group. Mr. R.C. Jha was nominated as Vice Chairman. The WG will hold a workshop in Indonesia to develop its work plan.

Task Force on Financing Water for Agriculture (TF-FIN): TF accepted the resignation of Prof. Paul van Hofwegen and expressed appreciation for his contribution. Dr. G. R. Backeberg (South Africa) accepted to be the Chairman and Dr. Sylvain Roger Perret (France) as Secretary – subject to his formal nomination by AFEID. Other members accepted were VPH Henri Tardieu (France), Dr. E. Farhadi (Iran), Dr. K. Yamaoka (Japan), Dr. Brian Davidson (Australia) - pending receipt of his formal nomination from IAL/ANCID, and Mr. V. K. Chawla (India). The Task Force held a workshop on 'Development and Financing on Irrigation Schemes'. It would continue refining its mandate.

Strategy Theme `Basin'

Working Group on Water Management in Water Stressed Regions (WG-DROUGHT): The new nominations of Dr. T.B.S. Rajput (India) and Mr. Mohammad Sadegh Jafari (Iran) for the membership were accepted. The WG nominated Vice President Hon. Franklin E. Dimick (USA) as Chairman, Mr. Mohd. Sadegh Jafari (Iran) as Vice Chairman and Dr. Abraham Mehari Haile (Netherlands) as Secretary. The WG would focus on the implementation of a new work plan which has been developed.

Working Group on Sustainable Development of Tidal Areas (WG-SDTA): The Group nominated Dr. Henk Ritzema (The Netherlands) as Vice Chairman, and Dr. Ruey-Chy Kao (Chinese Taipei) as Secretary. Dr. Jo Jin Hoon (South Korea), Mr. Dhimant B. Vyas (India), and Mr. H.W. Wang (Chinese Taipei) were accepted as Permanent Observers, pending receipt of their formal nominations from respective National Committees. The Group has requested to extend its mandate until 2010 so as to complete the *Handbook on Sustainable Development of Tidal Areas*. The document would be published by ICID with the financial support from the National Committees of Korea, Japan, and Chinese Taipei Committee.

President Chandra Madramooto asked for Council's approval towards extension of the mandate of the WG-SDTA to 2010

The motion was supported by Japan, Malaysia, Iran, Nepal, India, USA, Finland, Korea, Spain, Uzbekistan, Australia, and many other countries and was approved.

Working Group on Environment (WG-ENV): Mr. C.K. Agrawal (India) and Dr. Sylvain-Roger Perret (France) were accepted as members of the Group. Since there was no report from the WG-ENV at the PCTA meeting, the highlights could not be presented.

Working Group on Comprehensive Approaches to Flood Management (WG-CAFM): There was no report of the WG at the PCTA meeting. However, it was noted that Dr. Takao Masumoto (Japan), Dr. K. Emami (Iran), and Mr. G.S. Purba (India) were accepted for the membership. Dr. K. Emami (Iran) was elected as Vice Chairman. He made a presentation on 'Value Engineering its Applications in Irrigation and Drainage Projects'. On the WG's suggestion to form a new working group in this area, PCTA recommended that a workshop on the topic for arriving at the appropriate decision may be held.

Working Group on Global Climate Change and Agricultural Water Management (WG-CLIMATE): There was no report on the working group activities presented during PCTA. The new membership of Prof. Sue Walker (South Africa) was accepted, and Mr. Ray Shyan Wu (Chinese Taipei) was nominated as Secretary.

Strategy Theme 'On-Farm'

Working Group on Water and Crops (WG-CROP): The Working Group accepted three new members - Prof. Dr. Rai Niaz (Pakistan), Ms. Jaleh Vaziri (Iran), and Dr. K. Yella Reddy (India); while Mr. L.C. Tollefson (Canada) was nominated as Vice Chairman. The Group has recently revised its mandate and has requested a workshop on 'Water Saving and Conservation' in Indonesia. PCTA has recommended to address the question of actual crop water requirement vs. potential evapo-transpiration and to coordinate with WG-CLIMATE on topics of common interest for the workshop.

Working Group on Use of Poor Quality Water for Irrigation (WG-PQW): The Group accepted Dr. Makoto Yokozawa (Japan) as a new member. The work plan was reviewed and updated. The WG proposed to organize a special session on 'Water Quality and Irrigation' in Tehran in 2011.

VPH Hector Malano wanted to know whether Council's approval was needed to the proposals for holding workshop/special session by the WG-CROP and WG-PQW?

President Chandra Madramootoo enquired from the Iranian National Committee for their concurrence in hosting the workshop in 2011.

VPH Dr. Nairizi responded that it would be desirable to have a consensus and approval from the host country to know if they could accommodate the new workshop proposals.

President Madramootoo then suggested that the Organizing Committees of 61st IEC of Indonesia and of the Tehran Congress be approached for hosting these workshops, who in turn would communicate with the Central Office about their concurrence at the earliest and there would be no need for seeking the Council's approval once again. This would give the organizers of the workshop sufficient time for preparations.

VPH Dr. Nairizi and VPH Dr. Hector Malano thanked the President for the decision.

VPH Malano then briefed the activities of the **WG-ON-FARM.** He said that Mr. A.K. Randev (India) was elected as Secretary, and Mr. Makoto Yokozawa from Japan, Dr. Rai Niaz Ahmed from Pakistan, and Mrs. Mira Edelbeher from Slovenia were accepted as members. The WG has been very active and has a number of activities in their work plan. A Special Session on 'Micro Irrigation' was held at Delhi. WG intends to organize the 8th International Micro irrigation Congress in 2011 in Tehran. The objectives, themes and sub-themes for the Micro Irrigation Congress have been finalized.

VPH Malano moving further apprised about the task forces that completed their mandates. 'Task Force to Guide ICID Inputs to World Water Forum 5' which organized 4 sessions at Istanbul, has recommended PCTA to consider the creation of a new task force to drive the inputs to World Water Forum 6.

President Chandra Madramootoo intervened and said that PCTA has accepted the recommendation of the TF and ICID would act on it.

VPH Hector Malano further informed that the Task Force on Inter-Basin Water Transfer (TF-IBWT) had also concluded its mandate, at Lahore and its report was to be finalized. The TF has suggested that the Central Office could explore the possibility of publication of the document, commercially.

Prof. Malano informed about the proposals for creation of new three task forces - "Sedimentation of Reservoir", "Water for Bio-Energy and Food", and "Compilation of Information on River basins". As regards the TF on 'Sedimentation of Reservoirs', PCTA felt that this is a topic in the domain of ICOLD but recommended that a background paper justifying the creation of the task force be discussed in Indonesia. As regards the task force on "Water for Bio-Energy and Food", PCTA supported the request as it considered it as an important issue. In case of the third task force on 'Compilation of Information on River Basins', the PCTA recommended preparing a background paper for discussion in Indonesia.

VPH Hector Malano also mentioned about the PCTA's support for the proposal for MoU between UNW-DPC and ICID. In conclusion, VPH Hector Malano remarked that the PCTA is a forum for discussion and exchange of views on all important technical activities of ICID and items in the working groups eventually finding the synergy or overlaps that exist between them. He recommended that WG and TF Chairpersons endeavor to attend PCTA meetings for the entire duration. For this purpose, PCTA meeting need to be scheduled to avoid clashes with other IEC activities. Workbodies should encourage maximizing the use of meeting time in substantive activities and minimizing the time spent on administrative matters. He recalled the past practice of requesting work plans from different working groups as useful as it forced a sort of discipline in the execution of the work plan. He suggested that all new WGs (or renewal of existing WG and TF) to prepare a set of objectives, clearly identified output and work plans to deliver them. He also suggested to review and coordinate work plans of all workbodies to identify potential overlapping activities and explore potential synergies.

President Chandra Madramootoo thanked VPH Hector Malano for the presentation of the PCTA report and emphasized on the issues brought out by the Chair, PCTA. He requested all Chairpersons to ensure their attendance in PCTA meeting so as to have all the reports presented and achieve the desired outputs of the workbodies. President then opened the floor for questions.

VPH Mark Svendsen expressed his apology for his inability to report to PCTA. He suggested a correction in the minutes of the WG-CLIMATE meeting regarding the appointment of the new Secretary Mr. Ray Shyan Wu (Chinese Taipei). He commented that the workbody outputs not necessarily have to be the written product. Citing the example of WG-CLIMATE, he said that it is a rapidly changing, dynamic field and any attempt to bring out a document could become obsolete before it is finalized. The WG-CLIMATE output, following the mandate consists of creating exchange forums for bringing together people to discuss and talk about the climate change. The Group has been successful in this endeavor.

President Chandra Madramootoo clarified that the rolling work plan need not be very precise but it does provide some ideas about the broad activities and expected outcome of the workbody. As regards the question of overlap, he suggested that the Chair of PCTA and Strategy Theme Leaders could highlight the areas where the working groups need to come together on specific activities which might help line up WG efforts more strongly.

VPH Mark Svendsen appreciating the comments of the President said that all such overlaps are not necessarily bad and said that there was a group constituted to look up such overlaps and suggest merging of such issues. He said that there is a need for a clear mandate and a sense of dynamism in a working group and to encourage collaboration among workbodies.

President Madramootoo commented that because of the lack of manpower, shortages of resources, and as the working group activities are voluntarily done by the members, there was no intention to set up such a workbody to find out overlaps but the intention is to help some of the workbodies to broaden their ideas and develop scenarios. Thus the aim is to find out ways to collaborate activities of the WGs to bring out stronger outcome.

VPH Malano said that the intention of the PCTA recommendations was not to preclude anyone but to emphasize that synergizing the energies will bring out better output than doing it separately.

Dr. R. Ragab (UK) brought to the attention that the WG-PQW has one of the activities related to WG-CLIMATE and there was no overlap, and both the groups were collaborating on the activities of common interest. Commenting on the long-term rolling plan of the Group, Dr. Ragab said that due to low attendance of the members during the annual meetings, it becomes difficult to prepare the 3 or 5 years rolling plan and suggested the Council to look into the issues of the declining attendance of members at the annual meetings.

President Madramootoo intervened and said that not all of the activities of the Workbody have to be done at the physical meetings and there is a scope for developing the activities through electronic communication.

Dr. R. Ragab (UK) responded that the work plans can better be finalized after discussions among the members and therefore physical get-together of members is important. He further suggested that ICID should take on board the issue of potential evapo-transpiration or actual evapo-transpiration or actual crop water requirement and brought to the attention of the Council the vital contribution of the WG-CROP in bringing out the FAO Irrigation and Drainage Paper No. 56 which is being used world-wide.

VPH Hector Malano clarified that the PCTA's comment was not related to the method of calculation of evapo-transpiration but its emphasis was on actual accounting of water while computing the water balance at different scales.

VPH Nairizi further clarified that the discussions was regarding mixing of evaporation from the barren land and accounting it towards crop water requirement which in fact, is not consumed by crop either potentially or actually. He therefore, suggested to look into a new concept that includes water actually consumed by crop. He stated that the crop water requirement and irrigation water requirement should not be mixed. It is necessary to account that water which reaches to the crop root zone and is consumed and not which is evaporated before reaching to the crop root zone or crop itself.

President Chandra Madramootoo appreciated the comments of Dr. Nairizi that we need to look at the water use from the basin scale to field scale and all the interactions that occurred from upstream to downstream.

Dr. W.F. Vlotman (Australia) commented that the outputs of the workbodies not necessarily have to be written evidences, and that the rolling work plans do not work effectively. He requested VPH Malano to reflect his observations in the PCTA minutes which would provide important guidelines for the various workbodies.

President Hon. Peter Lee commenting on the attendance of the meeting of PCTA, said that the attendance get affected due to on-going parallel events in which some of the PCTA members are called to make presentations. Moreover, he pointed out that all the Chairpersons of the PCTA workbodies are the ex-officio members of PCTA and therefore it is not just a matter of making report on their workbodies but they are supposed to attend the PCTA meeting for full time.

Dr. R. Ragab (UK) adding to his earlier comments said that at the field scale one can study the split up of potential evapo-transpiration and actual evapo-transpiration; but that is not the case at the catchment scale. He observed that most working group members work at field scale and only very few work at the catchment scale.

VPH Prof. Dukhovny commenting on the attendance of members in the working group meetings said that owing to lack of financial support it is difficult for many members to participate physically in the working group meetings. He therefore emphasized that there should be more electronic communication among members and that the working group activities need to be oriented accordingly. Prof. Dukhovny further commented that besides the technical issues, it is also equally important to look into social, economic and financial aspects of irrigation and drainage.

President Madramootoo concurring to the views of VPH Dukhovny emphasized that members need to work more using electronic means in coming future.

Dr. W.F. Vlotman (Australia) suggested that given the fact of low attendance of members at the meetings, there is a need to encourage electronic means of communication like web conferencing which could be a cheaper alternative. He suggested exploring the possibility of providing web conference facility at the upcoming workbody meetings in Indonesia for the benefit of those members who would not be able to participate in the meetings.

VPH Tardieu observed that some of the WGs are working on position papers. Citing the example of the paper jointly prepared with Prof. Bart Schultz for the World Water Forum 5 which reflected collective position of the ICID, he encouraged the working groups to prepare the position paper collectively not by individuals.

President Madramootoo thanked members for their useful comments and invited voting towards acceptance of the PCTA report.

(India, Pakistan, Indonesia, Netherlands, Iran, Russia, Turkey, Thailand, Estonia, South Africa, Spain, Korea, France, China, Uzbekistan, Australia supported the report and it was unanimously accepted.)

Applause……

President Madramootoo thanked Vice President Hon. Malano for presenting the PCTA report. He then moved on to item 11 and invited Chair, PFC Vice President Hon. Saeed Nairizi to present the PFC report.

Item 11 : Report of the Permanent Finance Committee (PFC)

Vice President Hon. Dr. Saeed Nairizi (Iran), Chairman, PFC, started his presentation of the PFC Report by mentioning that he would run through the items of the agenda in the following sequence -- Membership Review, Subscription Arrears, Arrangements for future Congress and Conferences, Audited Accounts for the Years 2008-09, Budget for year 2010-11, Preliminary Budgets 2011-13 and Action on PFC Internal Review Report. He thereafter informed that the required number of membership of the PFC ought to be between 9 and 15, including the Secretary General, and presently there were 12 members including the Secretary General. Out of these, 2 members from Italy and Russia would complete their tenure and would be retiring this year. He mentioned that Vice President Hon. Alain Vidal also indicated his cessation of participation from all ICID workbodies as he will not be an AFEID nominee. However, he informed that two new nominations had been received, namely, those of Mr. A.K. Bajaj from India and Mr. Akira Nakazawa from Japan which were approved by the Committee at its meeting. Dr. Laszlo Hayde was nominated to be the Vice Chairman of the Committee. He expected nominations from The Netherlands, Korea, Australia, Turkey and Mali so that there would be more members in the Committee.

VPH Dr. Saeed Nairizi further informed that the total annual anticipated subscription for the year 2009 was US$ 234,390 from 64 active member countries and the receipts till March 2009 were US$163,760. These were equivalent to realization of 82% of the subscription against corresponding figure of 78% last year. This included annual subscription rise of 3% approved at the 58th IEC meeting in Sacramento. He said that there were 18 National Committees who were in arrears of subscription of more than one year, 7 National Committees in arrears of more than 2 years and 4 National Committees in arrears of more than 3 years by March 2009. These 4 countries owed a total subscription amount of US$113,747. At the PFC meeting, the members however, recommended not to apply sanctions against the 4 defaulting National Committees in arrears of more than 3 years and give them another year to clear their arrears. Dr. Nairizi asked if an approval to these proposals was required by the IEC.

President Chandra Madramootoo pointed out that this was the factual position and realization of subscription did not need any approval at this stage.

VPH Dr. Saeed Nairizi continued his presentation with the financial arrangements for the future events. He said that the 60th IEC and 3rd African Regional Conference were earlier planned to be held in Abuja, Nigeria which were unfortunately cancelled. The 60th IEC meeting and the 5th Asian Regional Conference were now being held in New Delhi, India successfully. He said that the 61st IEC and the 6th Asian Regional Conference will be held next year in Yogyakarta, Indonesia while the 3rd African Regional Conference will be organized in Mali and the 24th European Regional Conference in The Netherlands in 2011. He further informed that AFEID had proposed to hold a European Regional Conference in 2010 in France which was approved by the Council. The 62nd IEC and 21st Congress will be held in 2011 in Iran, while the 65th IEC and 22nd Congress was approved in the present meeting of IEC to be held in South Korea in 2014. He informed that up to the time of meeting only the report from Iran concerning the anticipated conference contribution from the 21st Congress in Tehran had been received, while such statements from other host countries were awaited. He mentioned that an indication of financial aspects in the prescribed format suggested by the Central Office will help decision which was important for the financial situation of the Commission. He said that this aspect will be separately discussed with the Korean National Committee who had been now granted the hosting of the 2014 Congress. He was happy to inform that the New Delhi IEC and Regional Conference will be contributing 15% share from the registration fees, so also Yogyakarta, Indonesia who will be hosting the next year's IEC. Contribution to ICID from the Iran Congress would be 50% of the number of registered participants. He hoped to have above 400 foreign delegates and 800 local participants in Tehran. He recalled the provision in the by-laws regarding the extra copies of Transactions requisitioned by the National Committees in anticipation of more number of registrants, however, for which they did not pay. The payments for extra copies of

Transactions sent to Beijing and Lahore remained to be paid for. This needed to be strictly implemented. He mentioned that the PFC had now suggested that the regional conferences and international drainage workshops contribute 5% of the registration fee towards the ICID budget. Dr. Nairizi wanted to know if an approval of the proposal could be sought from the Council.

President Chandra Madramootoo put before the House the proposal of the PFC for contribution of 5% of registrations from future regional conferences and specialty workshops, as this amount was very nominal. He invited the members for comments, if any.

Dr. W.F. Vlotman (Australia) felt that the definition of ICID's sanctioned meeting was not clear. He informed that they had regional meetings and workshops numbering 2-3 every year. He wished to know if suggested contribution was for separate regional meetings or combined meetings. He informed that for Australia in the 2012 Regional Conference, they proposed to have one fee and no separate fees for different events.

President Chandra Madramootoo clarified that the suggested contribution was not about separate fees for every event, but for the events which used the ICID banner and logo helping to draw people to such conferences. He further clarified that they were not talking about national meetings, but the regional meetings which were being approved by ICID.

Dr. W.F. Vlotman again asked whether the combined IEC meeting with a regional conference would attract 20% or 15% contribution.

President Madramootoo explained that there was only one registration fee, for example, in Delhi for attending both the meetings. Thus, no separate fee for Asian Regional Conference and IEC was being charged. The IEC contribution remains at 15% fee, even if a regional conference is combined with that. However, if it is a stand alone regional conference, approved by the IEC and not combined with IEC meeting, a contribution of 5% of registration fee for all such regional conferences is proposed to be made.

VPH Henri Tardieu (France) was happy to mention that they will be very pleased to make such contribution to ICID from the European Regional Conference that had been now approved by the Council to be held in 2010 in France. He felt happy that they will be the first stand alone regional conference to do so.

VPH Dr. Saeed Nairizi reiterated that the proposed ICID support of 5% was only for a separate regional conference or an international workshop. The 50% contribution was for a Congress and 15% from an IEC with or without a regional conference. Thus, there were three categories.

President Chandra Madramootoo sought the concurrence of the House for the proposal of 5% contribution to ICID budget from a stand alone regional conference or workshop approved by IEC in which ICID logo or banner was used.

(Iran, Australia, Canada, France, Thailand, Netherlands, Indonesia and Korea proposed and Malaysia, Spain, Estonia, China, South Africa, Uzbekistan, Hungary and Japan supported. The proposal was approved unanimously.)

VPH Dr. Saeed Nairizi continued with his presentation and mentioned that they expected to have revenue from registration fees from the New Delhi events which were likely to attract a participation of at least 400 participants, in Yogyakarta some 350 participants were expected, while in Tehran, as mentioned earlier, more than 400 participants excluding local ones. He hoped that this would help the ICID budget to some extent. He proceeded then on to forecast for the remaining months of the FY 2009-10, budget for FY 2010-11, and preliminary budgets for the years 2011-12 and 2012-13 for consideration and approval by IEC. He said that the exchange rate between US Dollar (US$) and Indian Rupees (INR) was considered as Rs.45 in the budget. The audited accounts for the year ending March 2009 showed a total receipt of Rs.30.11 M which included the subscription of the National Committees, support from conference and the let out property in the CO together with the arrears of past year's rent. The sale of publications, bank interest, etc. generated about Rs.5 M. Against receipts, about 50% of the amount was spent on salaries and allowances to the staff amounting to Rs.15 M. The other items of expenditure were services and maintenance, property tax and utilities, conference expenditure, travel expenditure, etc. totaling Rs.24.18 M. The audited accounts for the year ending March 2009, therefore, showed a surplus of Rs.5.93 M. This was against an anticipated deficit projected last year. This surplus has enhanced the net assets by about Rs.7 M from the opening assets of Rs.29.39 M at March 2009 level, totaling to Rs.36.58 M. This was equivalent to 1.77 times the three year rolling average of the annual receipts, up from the previous 1.68 at March 2008 level. This resulted due to the receipt of past year's rent dues and the deferment of payment to L&DO, pending receipt of bill from the govt. department.

VPH Dr. Nairizi, coming to the item of forecast for the year 2009-10 up to March 2010, mentioned that the receipts were likely to be Rs 22.17 M against an anticipated budgeted receipt of Rs.19.96 M in the Lahore budget. Against these receipts, a payment of Rs.26.68 M was anticipated to be made against salaries and allowances (Rs.18.97 M), printing and distribution (Rs.2.93 M) and other heads. Thus, he said, the net deficit would go to Rs.4.51 M to bring the closing reserve at Rs.32.07 M at March 2010 level. Dr. Nairizi then went on to the budget for the year 2010-11 and said that this was based on a projection of exchange rate of Rs.45 vis-à-vis US Dollar. He said that the total receipts during next year were expected to be Rs 24.55 M of which Rs.10.86 M was likely to be from subscription and Rs. 9.76 M from the rent from the additional space at the CO. The Conference support was likely to be Rs.2 M. Against these receipts, payments likely to be made during next year will be Rs.27.45 M, out of which the salaries and benefits to the staff comprised 16.2 M, while one installment of Rs.4 M to L&DO was proposed to be made during next year. Thus, a likely expenditure would be Rs.27.45 M and the net deficit in the budget 2010-11 was likely to be Rs.2.90 M. However, **Dr. Nairizi** assured that there would be hopefully a satisfactory revenue from the Tehran meeting which would bring up total revenues resulting into almost about Rs.4 M as surplus. He said that in the projections so far, only an increase of 3% from the subscription, 15% from the IEC meetings and 50% from the Congress has been considered while the recently approved share of 5% from the regional conferences and workshops had not been taken into account. He expressed the satisfaction that the reserve factor will remain at 1.3 which was admissible. He explained the receipt and payment sequence of the ICID with the help of a mass curve graph about the revenue and payment structure of the Commission for the last 10 years, mentioning that cumulatively the receipts and payments almost matched. He mentioned that from the Congress starting from the year 2006 onwards, the expenditure and revenues were moving parallel but with a certain deficit gap and hoped that by the Tehran Congress and thereafter from the Seoul Congress all these deficits would be reversed and the trend would be positive.

VPH Dr. Nairizi thereafter underlined the recommendation from the PFC Review Committee report that in order to enhance the ICID financial situation, there was a necessity to bring in private companies into the ICID fold which had been missing from the irrigation sector discussions there. He said that so far no representatives in the capacity of manufacturers, consultants, contractors and companies directly participated in the ICID activities but only as delegates comprising mainly National Committees representatives. Thus, the companies were not truly represented and their voice was not heard in the ICID forum. It is felt that if a platform was provided to these delegates to give them an opportunity to discuss their problems, the decision making process would be greatly improved within the working groups. ICID will also be benefited not only financially but also technically and will have the advantage of listening to different views. He assured that there will be no disadvantage to the National Committees who might be having members from these companies locally. Finally, he exhorted all the countries who proposed to make the offer for hosting Congress in future to provide better revenues and conference support to the ICID budget. With these, Dr. Nairizi concluded his presentation.

Applause …..

President Chandra Madramootoo opened the floor for discussions and said that there were 4 proposals in front of the members for consideration – audited financial statement for the year 2008-09, forecast for the budget 2009-10 up to March 2010, budget for approval for the year 2010-11 and preliminary budgets for the years 2011-12 and 2012-13. He sought the vote on auditor's report for the past year with the show of hands.

(Japan, Iran, India and Pakistan proposed, supported by The Netherlands, Nepal, France, Mali, South Africa, Korea, Malaysia, Spain, Estonia, Thailand, Uzbekistan, Hungary and Ukraine. The audited accounts were passed.)

President Madramootoo went on to the second item for approval, i.e. forecast for the remaining months of the year 2009-10 and said that there was a deficit of Rs.4. 51 M which included the arrears of payment to the staff in line with the 6th Pay Commission of the Government of India (GoI). He enquired from the Secretary General whether the forecast included only 40% of the balance 60% to be made.

Secretary General Gopalakrishnan informed that this was in line with what transpired in the Staff Committee.

President Chandra Madramootoo explained that the balance payment of arrears of 60% had been split into two parts – 40% to be made within this financial year and the remaining in the next. He asked for support of the House for approving the budget forecast of the year 2009-10.

(Pakistan, Italy, Japan and Mali proposing, The Netherlands, Korea, Malaysia, South Africa, Canada, France, Spain, Uzbekistan, Thailand, Estonia, Germany and Hungary supporting the proposal. The budget forecast for the year 2009-10 was passed.)

President Madramootoo then put up the budget for the year 2010-11 for approval by the House and mentioned that the receipts were expected to be of the order of Rs.24.55 M, while the payments were likely to be Rs.27.45 M with a deficit of Rs.2.9 M. He elaborated from the projected graph that the peaks and valleys seen in the graph were the results of revenues and expenditure during non-Congress years and Congress years. He asked for the approval of the House on the proposed budget.

(India, Iran, Italy, Japan and Korea moved, Malaysia, Spain, South Africa, Saudi Arabia, Nepal, Thailand, Russia, Uzbekistan, Finland, Estonia, Canada and China supported. The proposal was approved.)

VPH Dr. Nairizi thanked the Secretary General and the Central Office staff with whom he worked during the last year and showed a good example of how good the budget was be controlled. He hoped that better and healthy situation would soon return to ICID.

President Chandra Madramootoo thanked Dr. Nairizi for his presentation and also thanked the Secretary General and the Central Office Staff for their hard work.

Applause ….

President Chandra Madramootoo stated that during his term as Chair of PFC in the last couple of years some stringent cuts in the Central Office expenditure had been made and those were continued. He himself made a visit to the Central Office to review their operations and finances, and Vice President Hon. Dr. Nairizi also did the same thing independently. Both had taken a view that the Central Office had tightened its belt as regards expenditure, to the extent possible. He enquired if there were any responses from the floor.

Dr. Ragab Ragab (UK) said that budget for 2007-08 and year 2008-09 showed surpluses of Rs.5.3 M and Rs.5.9 M respectively, but while forecasting always a deficit forecasting is made. He wanted to know how the marginal error came. He pointed out that a deficit forecast implied that this will be made up by increasing the membership subscription. Since the National Committees who were not supported by their Governments could not afford to increase the subscription, they would pass on the burden to the members with the likely consequence that some of them might leave. He suggested that the marginal errors, if any, should be looked into and the ways and means to increase the ICID revenues should be explored.

President Chandra Madramootoo corrected Dr. Ragab that the budget for the year 2007-08 was not in surplus of Rs.5.3 M but a deficit. He then said that his suggestions were noted and thanked him for the same.

President Madramootoo then moved on to the next item 12 on "Presentation of Strategy Theme 'Knowledge' and said that it was a tradition of the Council that a presentation on one strategy theme is made every year at the Council meeting. He informed that Vice President Hon. Alain Vidal, the strategy theme leader 'Knowledge' was not present, but Vice President Hon. Larry D. Stephens had kindly agreed to make the presentation. He invited Vice President Hon. Stephens to make the presentation on the strategy theme 'Knowledge'.

Item 12 : Presentation of Strategy Theme 'Knowledge'

VPH Larry D. Stephens (USA) thanked President Madramootoo and said that Vice President Hon. Alain Vidal who was the Theme Leader, had prepared the presentation and he (VPH Stephens) was making presentation on his behalf. The ICID workbodies generated, synthesized and disseminated knowledge. ICID had looked at the canal and beyond and then from 'more crop per drop' to 'more income and less water'. We all were faced with the question of how we put our knowledge to students, farmers and practitioners. Looking back at ICID achievements, VPH Larry said that during the last few years, we had increased our publications, especially the quality of publications, while we also dramatically improved our website. He credited the Central Office for their work in keeping the website up-to-date, very active and as a good communication tool. He opined that this was probably our best vehicle for communication with the rest of the world. VPH Stephens mentioned about the strong representation and visibility of ICID in the World Water Forum-5. He said that we were facing some new challenges also. Not only there was a need to enhance productivity from water, but we needed more crops per drop, more income per drop, or perhaps even more millennium development goal per drop, which were all linked to poverty alleviation. There was a necessity to cope up with global climate change and other challenges such as development of local markets. He called for exploring and better understanding of links between food and water crises, recognizing that 75% of the rural poor among 1 billion suffered from hunger. He said that alleviating hunger meant reducing rural poverty. Since increased climate variability required more water storage, it was necessary to see how we could develop storages in the present environment. VPH Larry Stephens mentioned some of the key players in the knowledge area like FAO, IWMI, IPTRID (a part of FAO-UN), CGIAR, Challenge Program on Water

for Food etc. as also institutions like the Gates Foundation and other foundations that were investing huge amounts in food, agriculture and water. He made a brief review of the knowledge making bodies in progress and thought that PCTA Chairman Hector Malano was doing a good job on this. He recalled the contribution of workbodies like the present Working Group on WG-TRUE who were discussing how ICID should address capacity building, as also a possible new structure for IPTRID that will be driven by the client countries and not the donors. He lauded the contribution of the workbodies like publications committee, dictionary, editorial board, and ICID Journal and said that the WG-HIST had brought out interesting developments - not just history of physical projects for water, but also institutional factors and social concerns, relationship between history and sustainability etc. Concluding his presentation, VPH Stephens said that the Task Force for World Water Forum-6 will become a part of the Knowledge Theme and he looked forward to see the ICID presentations in the Forum as before.

Applause ……

President Madramootoo thanked VPH Larry Stephens for his brief presentation and moved on to item 13 on presentation of awards. He invited President Hon. Peter Lee to introduce the awards and their recipients.

Item 13 : Presentation of Awards/Presentation of Plaques

President Hon. Peter Lee introduced the presentation of awards by saying that it was a great honour to head the Panel of Judges for WatSave Awards which were among the best things that ICID did and reminded that the Prime Minister of India Dr. Manmohan Singh that morning also called for water savings. He said that the Panel of Judges this year represented all the major regions, e.g. Mr. Laurie Tollefson from Americas, Vice President Ota from Asia, Vice President Samia El-Guindy from Africa, and Dr. Laszlo Hayde from the European region. He acknowledged the sponsorship of the WatSave awards by the Indian National Committee (INCID). He was pleased to mention that this year all the awards were being presented in all categories. President Hon. Lee began with the Young Professionals award and declared that as per the unanimous decision of the panel this year, the Young Professionals award would go to Dr. Malcolm Gillies of Australia for his contribution entitled “An observational approach to the optimization of surface irrigation”.

Applause…..

President Hon. Lee mentioned that while the Australian representative was receiving the citation plaque, he would give little bit of information about the work. He said that this nomination was for a software for the inverse solution of the volume required for surface irrigation (furrow, bay or basin) capable of dealing with variable conditions by virtue of being based on measurement of actual advance and runoff. Pilot studies had indicated that in-field water savings in excess of 20% were achievable. The program and its successors will offer the potential of such savings on an area in Australia alone, of more than 1 Mha, he said.

President Hon. Lee then moved on to WatSave Award 2009 for Technology which was first of the senior awards. He declared that the WatSave Technology award would go to Prof. Rai Niaz Ahmad for a wheat bed planting machine to plant four rows between each irrigation furrow, three furrows per pass, which saved 45% of water compared to traditional methods, with a 17% increase in yield. The machine was used for other crops viz. cotton, maize and rice with different but impressive results. The water productivity improvement was achieved on 815 hectare at four locations, but the technology had great potential of more than 8 million hectare of wheat in Pakistan alone.

Applause…..

President Hon. Lee went on to declare the WatSave Innovative Management award. He informed that there were five nominations from India and Egypt including two from farmers. He said that though the achievement had at the farm scale did not save so much water at regional or national scale, yet it will be significant when it came to necessary increase in food demand as enunciated by Prime Minister of India that morning. He informed that not as a main award, but a special plaque was recommended in the category of farmers for the work on “Rainwater conservation through natural cracks in deep black soils” to Mr. Arvind Narayanrao Nalkande, India who was a farmer.

Applause…

President Hon. Lee said that this innovative method used cracks for conservation of water and this was done by Mr. Nalkande and his neighbours combining with water harvesting technology. A 40-50% increase in yield was possible with this type of conservation compared to normal rainfed conditions. He said that the panel was highly

impressed with this farmer initiative and recommended that a farmer's award should become a permanent feature in future.

Moving on, **President Hon. Lee** came to the presentation of the last award for Innovative Water Management and declared that this would go to Messrs Shahaji Manikrao Somawanshi, Bharat Kawale and Sanjay Madhukar Belsare of India for their work entitled "Increased productivity from participatory management of bulk water entitlements". He said that these three gentlemen represented different departments and presented a good example of cooperation in participatory irrigation management. He said that the award was for transformation of irrigation of about 9600 hectare area through management transfer over a period of about 15 years. A substantial improvement in water productivity came in the last 5 years with management based on assured entitlements of volumetric bulk supplies that had increased the irrigated area by about a third with more or less the same amount of water at the canal head.

Applause…..

Finally, **President Hon. Lee** thanked members of the Panel of Judges for the WatSave awards 2009.

President Chandra Madramootoo then suggested a small change to the agenda and invited President Hon. Bart Schultz to make his recommendation on the award for the Best paper in the ICID Journal – Irrigation and Drainage.

President Hon. Bart Schultz thanked President Madramootoo and recalled that in 2005 at Beijing the Editorial Board of the Journal decided that each year an award will be made for the best paper published in Irrigation and Drainage journal. The award would consist of a plaque by ICID in addition to either US$500 cash or US$800 worth Wiley publications sponsored by M/s Wiley-Blackwell, the publishers of the ICID Journal. He said that the best paper from the papers printed in 2008 was selected using criteria of innovative papers which were scientifically sound and contributed to a better understanding of the development and management of irrigation and drainage. He said that during 2008, a total of 46 papers had been published in 5 issues. The best paper was selected by a Jury, consisting of the Chairman of the Editorial Board, Joint Editors and the Associate Editors. The paper selected was "Integrated water assessment model for water budgeting under future development scenarios in Qiantang River Basin of China" authored by Ms. Jianxin Mu (China), Dr. Shahbaz Khan (Australia) and Dr. Gao Zhanyi (China) published in volume 57.4 of the Journal.

President Hon. Schultz observed that conjunctive water use for agriculture was turning out to be a major environmental challenge in some river basins and there was an urgent need to quantify future water availability and water demand to identify whether there was a surplus or deficit of water. In the award paper, the Basin-wide Holistic Integrated Water Assessment (BHIWA) model developed at the ICID was used in an attempt to simulate the water balance of the study basin, i.e. Qiantang River Basin in China, as well as to analyse the impacts of land and water use on return flows of this basin. The Jury felt that the paper was highly relevant for emerging countries and such type of forecasts were relevant for more or less all river basins in these countries. He concluded that the paper presented a practical application of BHIWA model that was developed by ICID in the framework of the Dialogue on Water, Food and Environment.

Applause…..

President Madramootoo then moved on to presentation of plaques to the three retiring Vice Presidents and invited them to come forward. They were - Dr. Eiko Lübbe (Germany), Dr. Karim Shiati (Iran) and Mr. Mohd Azhari bin Ghazalli (Malaysia). The plaques were received by the retiring Vice Presidents themselves or their NC representatives.

Applause…..

President Madramootoo then invited the retiring members of the ICID workbodies to receive the plaques. The Chairs who were presented the plaques were – Vice President Hon. Dr. Gao Zhanyi (China), Vice President I.B. Shaikh (Pakistan), Vice President Hon. Alain Vidal (France), Prof. N. Hatcho (Japan), Vice President Hon. Victor Dukhovny (Uzbekistan), Mr. Ali Reza Salamat (Iran), and Dr. Hu Heping (China). The Chairs themselves or their representatives received the plaques.

Applause…

President Madramootoo then invited Secretary K.N. Sharma to come forward to receive a citation plaque for his outstanding contributions to ICID. He said that Mr. Sharma had graciously extended his term for additional two years with ICID. However, he had now decided that he would like to engage himself in other literary activities and works, including writing on water resources developments. President thanked Mr. Sharma profusely for all the invaluable support he had been giving to ICID during his career with the Organization and appreciated his excellent performance all through.

Applause….

VPH Dr. Nairizi (Iran) also presented a memento to Mr. Sharma on behalf of the Iranian National Committee.

Applause….

Secretary General M. Gopalakrishnan said that he was falling short of words to thank Mr. Sharma enough for his commendable contribution to ICID. He said that Mr. Sharma had been a very active and dynamic personality. The House fully knew about the excellent work done by him and extremely useful contribution he made to the ICID activities all these years. He carried on practically all the activities of the Central Office in a commendable manner. He said that they will lose a very good friend, supporter and an extremely capable person who mattered a lot in all that the Secretary General could achieve. Secretary General Gopalakrishnan once again thanked Mr. Sharma profusely on his own behalf as well as on behalf of the entire House and wished him best of health and prosperity.

Prolonged Applause…..

Secretary K.N. Sharma thanked the President, Secretary General, Office Bearers and all National Committees for their extreme goodwill, excellent support and commendable cooperation. He said that he had a long active service tenure of more than forty one years, of which about half (twenty one years) was in the service of ICID. He said that he enjoyed his work in ICID and had a very rewarding experience. He had the good fortune of working with 4 Secretaries General, 8 Presidents and 69 Vice Presidents, all of whom were wonderful people and eminent professionals, being stalwarts in their own professions. He said he was happy that he had been in a great company of such giants and it was a real pleasure working with them. He thanked all of them for the affection shown by them towards him and expressed his gratitude for the kind words of appreciation that all of them had been speaking about him all these years. Mr. Sharma wished ICID, the National Committees and every member of the House individually a very good luck and a bright future and hoped that ICID would continue to rise to greater and greater heights in its service towards humanity and its contribution to achieve more food and fibre for all.

Applause…..

(While the voting process for the election of Vice Presidents was going on under item 15, President invited President Hon. Bart Schultz to report on item 14 on ICID inputs to World Water Forum 5.)

Item 14 : Report on ICID inputs to World Water Forum 5

President Hon. Bart Schultz said that much had already been said about ICID's involvement in the Fifth World Water Forum. He informed that ICID sessions were put under the theme on the Millennium Development Goals of which UN Water/ FAO were the theme leaders. In this theme there were four topics and ICID was in-charge of topic 2.3 on Water and Food for Ending Poverty and Hunger. He said that this was exceptional for the reason that not many international societies looked at ICID as the representative for water and food for elimination of hunger and poverty. People in ICID were considered more as irrigation engineers, he said. Thus to become the coordinator of the topic was creditable, for which the support from both World Water Council and the Turkish organizers was very useful. In addition to topic 2.3, ICID played quite a significant role in some other topics as well through various working groups and ICID membership. He informed the House that on each topic a Consortium was formed and this exercise was done very carefully and successfully as there were 50 Consortium members among them. Most of the international organization such as IFAD, IUCN, WWC etc. were represented in the ICID topic. During the preparatory process of the sessions, all the documents were circulated to all the Consortium members by the Central Office who had a significant role to play. Four drafts to all Consortium members and consultation members were circulated. PH Schultz further mentioned that four sessions were held on the topic 2.3 on each of the four key questions for which convener, co-convener and a reporter were nominated. These responsibilities were shared by the members of the Consortium. For example, he said that the convener of session 1 was IWMI, convener for session 2 was IFAD, convener for session 3 was Consortium of Farmers Associations of India and the ICID was the

convener for session 4. All the sessions were extremely successful and largely attended. He also informed that a special issue of the ICID Journal had been published in which Vice President Hon. Tardieu introduced the ICID paper. Concluding his presentation, PH Schultz said that the full ICID topic paper was available on the website of ICID and a CD-ROM was brought out in this meeting presenting the key issues of the topic and the synthesis report. The synthesis report on topic 2.3 will also be brought out separately in a CD-ROM which will be published by ICID.

President Chandra Madramootoo thanked President Hon. Bart Schultz for his brief presentation and asked Vice President Hon. Tardieu if he wished to make a comment.

Vice President Hon. Tardieu (France) said that he did not have much to supplement to what was already said by President Hon. Bart Schultz. He informed that the next World Water Forum will be held in March 2012 in Marseille, France and the process for the same will be more or less similar as for the Istanbul meeting. He hoped that ICID would be involved in the thematic process. He also informed that there will be interaction with the local government and elected members of the parliament in France. The ministerial process will conclude with a Ministerial declaration. He hoped that the process will be started in March 2010 with a kick-off meeting and hoped that ICID will be represented in the first meeting.

President Chandra Madramootoo thanked Vice President Hon. Tardieu and President Hon. Bart Schultz and assured that ICID would be represented in the kick-off meeting at Marseille.

President Madramootoo then moved on to item 15 on election of three new Vice Presidents to replace the three retiring ones.

Item 15 : Election of Three Vice Presidents

President Chandra Madramootoo announced the retirement of the following three Vice Presidents at the end of the current IEC and appurtenant tours – Dr.-Ing. Eiko Lübbe (Germany), Dr. Karim Shiati (Iran) and Mr. Mohd Azhari bin Ghazalli (Malaysia). He said that there will be six Vice Presidents who will continue beyond this IEC, viz. Prof. Peter Kovalenko (Ukraine), Dr. Hafied Gany (Indonesia), Engr. Dr. Illahi B. Shaikh (Pakistan), Dr. (Mrs.) Samia El-Guindy (Egypt), Mr. Shinsuke Ota (Japan), and Prof. Lucio Ubertini (Italy). Thus, there will be three vacancies which will be filled up at this IEC for which three nominations viz. those of Dr. Willem F. Vlotman (Australia), Dr. Laszlo G. Hayde (Hungary) and Mr. A.K. Bajaj (India) had been received. The CVs of these candidates were available with the House. He informed that the Office Bearers Committee also reviewed the nominations and was of the opinion that all the three candidates were worthy of being appointed as Vice Presidents of ICID. He however said that to determine the order of seniority of the three candidates there was a need to have a voting. Candidate receiving most number of votes will be the senior most. He asked the Central Office staff to distribute the ballots to the National Committee representatives.

President Madramootoo said that while the ballots were distributed, he would ask the three National Committees to kindly come forward and make very brief remarks about the candidates, since all of them were well known in ICID. He also requested President Hon. Schultz and President Hon. Lee to help in counting of the ballot papers after the voting process.

Mr. Ian Moor-House, the Australian representative introduced Dr. Willem Vlotman and said that he attended his first IEC committee meeting in 1987. Dr. Vlotman was exceptionally brilliant person who studied initially in The Netherlands and completed his study in USA. He held Ph.D. degree and had a Civil Engineering Water Management background with more than 30 years of experience in international research in land and water management. He had travelled across many countries and published couple of books and more than 50 articles. In August 2009, he joined Murray Darling Basin as Assistant Director Basin Plan Modelling. Dr. Vlotman had been member, secretary and chairman of ICID workbodies and had contributed to various publications. He was an official member of Australian National Committee since November 2004 and was currently National Committee Chair of Australia. The National Committee was happy to present Dr. Vlotman to be a Vice President and believed that he was highly qualified for the position.

Applause…..

Representative from Hungarian National Committee (HUCID) said that his task was easy since everyone knew very well Dr. Laszlo Hayde who had a long experience with ICID. Dr. Hayde participated in hundreds of conferences and workshops and was an active member of several committees and working groups of ICID. With his work in various committees, Dr. Hayde had already proved his worthiness and competence. The CV of Dr. Hayde available with the members was self explanatory and the National Committee believed that he would be a fit candidate for the post of Vice President.

Applause…..

The Indian National Committee (INCID) representative said that Mr. A.K. Bajaj was the Chairman of India's Central Water Commission (CWC) and Chairman of Indian National Committee (INCID). He was an engineer by training and held a Master of Engineering degree in water resources subject from IIT, Delhi. The CWC was the main technical arm of the Ministry of Water Resources employing about 1700 engineers and other personnel. Mr. Bajaj worked in different capacities in CWC and handled several technical wings of the Commission like – design of hydraulic gates for dams and barrages, planning and formation of new river valley projects, flood forecasting, flood management, dam safety, dam break modeling design, trans-boundary rivers etc. The candidature for the post of Vice President would see Mr. Bajaj play a larger role in the water sector.

Applause….. (The voting process started).

President Chandra Madramootoo invited a representative of Indonesian National Committee (INACID) to say a few words for next year's conference in Indonesia.

Dr. Syaiful Mahdi of INACID thanked the President and invited all the members to Yogyakarta, Indonesia next year. He promised to give them a good experience and not only provide a warm hospitality in Indonesia, but also present traditional culture. He said that Minister of Public Works and the King of Jakarta will welcome all of them in Yogyakarta and hoped that they would have a nice stay there.

Applause…..

President Chandra Madramootoo, after the counting of the votes, declared the order of seniority of three newly elected Vice Presidents in the following order – Dr. Willem Vlotman (Australia), Dr. Laszlo Hayde (Hungary) and Mr. A.K. Bajaj (India) and congratulated each one of them.

Applause…. There was a loud cheer from the floor congratulating the new Office-Bearers.

Item 16 : Any Other Business

None.

Item 17 : Closing Remarks by President, ICID

President Chandra Madramootoo placed on record the Council's appreciation for India and the Indian National Committee (INCID) who were the hosts for this IEC and the Asian Regional Conference. He thanked Chairman Bajaj on behalf of the Council and conveyed his deepest thanks to him and to Government of India.

President, ICID then announced that it was the end of agenda items for consideration by the IEC. He thanked the House for the patience and indulgence in this IEC meeting and thanked the members for the successful Council meeting and for their hard work.

Secretary General M. Gopalakrishnan thanked the President for conducting the IEC meeting in an admirable manner.

Applause….

APPENDIX I [IEC Item 9]

Minutes of the Twentieth Meeting of the
PERMANENT COMMITTEE ON STRATEGY PLANNING AND ORGANIZATIONAL AFFAIRS (PCSPOA)
New Delhi, India
08 December 2009 : 09.30-13.15 hours (Session – I)
08 December 2009 : 14.15-18.00 hours (Session – II)

Mandate: The Committee shall be concerned with increasing the number of member countries and assisting the National Committees to become more active in their own countries to achieve the goals set for them from time to time. The Committee will also undertake issues related to strategic planning for ICID. The Committee will coordinate the activities of Vice Presidents in their areas.

Members Present: (1) Vice President Hon. Dr. Gao Zhanyi, Chairman (China, 2005); (2) Vice President Dr. Ing. Eiko Lübbe (Germany, 2006); (3) Vice President Dr. Karim Shiati (Iran, 2006); (4) Vice President Prof. Peter Kovalenko (Ukraine, 2007) (5) Vice President Dr. A. Hafied A. Gany (Indonesia, 2007); (6) Vice President Mr. Shinsuke Ota (Japan, 2008); (7) Vice President Prof. Lucio Ubertini (Italy, 2008); and (8) Er. M. Gopalakrishnan, Secretary General, ICID.

Ex-Officio Members Present: (1) Dr. Ing. Eiko Lübbe, Chairman, European Regional Working Group; (2) Dr. Karim Shiati, Chairman, Asian Regional Working Group; (3) Dr. Sanjay Belsare, Vice Chairman, Working Group on Young Irrigation Professionals Forum; and (4) Prof. V.A. Dukhovny, Chairman, Special Work Team on Aral Sea Basin.

Permanent Observers Present: None

Observers: (i) Mr. Kunihiko Naito (Japan); (ii) Mr. Tetsuya Oishi (Japan); (iii) Mr. Tai Cheov Kim (Korea); and (iv) Er. K.N. Sharma, Secretary, ICID (Central Office).

Item 1 : Confirmation of minutes of the 19th meeting of PCSPOA held at Lahore, Pakistan, 15 October 2008

The minutes of the 19th meeting of PCSPOA held in Lahore were confirmed.

A. CONTINUING ITEMS

Item 2 : Membership of PCSPOA and Workbodies

2.1 In terms of By-law 3.2.2(e), Vice Presidents Hon. Dr. Gao Zhanyi (China), Dr. Mark Svendsen (USA) and Mr. Felix B. Reinders (South Africa) retired from the membership of the Committee at the conclusion of the New Delhi events on completion of their 4-year tenure. The 3 new Vice Presidents who will be elected at the 60th IEC will join the Committee as members in their place.

2.2 As stipulated in By-law 3.2.2(e) : 'The Chairperson of the Committee is nominated by the President, in consultation with the Secretary General from amongst the incumbent Vice Presidents. The Chairperson shall serve the Committee during the tenure of membership of this Committee', Vice President Dr. A. Hafied A. Gany has been nominated as the new Chairman of PCSPOA and he will serve as the Chair, PCSPOA until 2011.

2.3 The Committee nominated Vice President Mr. Shinsuke Ota as the Vice Chairman of PCSPOA.

2.4 The following memberships were accepted:

Working Group on Young Irrigation Professionals Forum (WG-YPF)

Mr. Piyush Ranjan (India) in place of Dr. Sanjay Belsare;
Mr. Houman Khaledi (Iran) in place of Mr. Ali Reza Salamat;
Dr. Takanori Nagano (Japan) in place of Mr. Hidekazu Tagashira.

Asian Regional Working Group (ASRWG)

Mr. Ravinder Singh (India) in place of Mr. C.D. Khoche.

Special Work Team on Aral Sea Basin (ST-ARAL) [renamed as Working Group on Irrigation and Drainage in States under Social-Economic Transformation (WG-IDSST)]

Dr. Kai Wegerich (The Netherlands)

Item 3 : New member countries and Membership Drive

3.1 Two new countries have submitted their applications for membership of ICID. They are Cameroon and Fiji.

Afghanistan's and Jamaica's applications for ICID membership were accepted at the Lahore IEC (2008). Afghanistan has paid its subscription to commence its membership of ICID while the first subscription from Jamaica is still awaited.

3.2 Various countries in different regions that were approached to join ICID membership were noted. The efforts made for the membership of Bhutan, Sweden and UAE were also noted.

Item 4 : Steps emanating from Internal Review Report of PCSPOA presented at 58th IEC

PCSPOA supported the report made by the Convener of the Special Committee to review issues under PCSPOA presented at the 58th IEC meeting in Sacramento. The Special Committee has not supplemented any further information and has decided to drop this item from future agenda.

Item 5 : Active National Committees & reactivation of inactive NCs

Annex 2 of the PCSPOA Agenda shows the updated list of ICID Network of participating countries as on 15 September 2009. The statement below summarizes the membership status, in detail:

Region	Active	Deemed to be Inactive	Admitted but not paid subscription	Withdrawn	Total Network
Africa	08	15	04	-	27
Americas	07	09	01	01	18
Asia and Oceania	25	04	04	01	34
Europe	24	04	-	01	29
Total	64	32	09	03	108

The inactive NCs in all the regions were exhorted to activate themselves. Vice Presidents, to whom the active and non-active NCs are attached, were also requested to use their good offices for reactivation of such NCs. Many have done their best.

The efforts made for reactivation of the inactive countries and membership of non-member countries were noted.

Vice Presidents' reports on their efforts to strengthen regional cooperation and activity of NCs

In the light of the election of three new Vice Presidents at Lahore, a redistribution of the National Committees and regions amongst the newly elected and present Vice Presidents for the year 2009-10 will be done by the Central

Office with the consent of the Office Bearers. Non-member countries in the regions may also be shown as allocated to the Vice Presidents, to facilitate their admission to ICID through their good offices/efforts.

Vice President Dr. Karim Shiati, Vice President Dr. Ing. Eiko Lübbe , Vice President Prof. Peter Kovalenko, Vice President Dr. A. Hafied A. Gany, Vice President Mr. Shinsuke Ota, and Vice President Prof. Lucio Ubertini all reported their efforts to activate the inactive NCs and to strengthen regional cooperation and activities of NCs.

Vice President Dr. Shiati suggested that the Central Office should write to the countries of the VPs to allocate some fund for facilitating their travel. On behalf of the Central Office Mr. Sharma agreed that the CO will be too glad to write such letters. He requested the VPs to provide names and contact details of the concerned officials in their countries.

New Roles to Vice Presidents

As discussed at Lahore, the new roles of Vice Presidents were highlighted that the (i) Vice Presidents should keep close contact with NCs allocated to them, (ii) Vice Presidents should keep in contact with each other to reactivate inactive members during their visits across the regions and allocations and (iii) the Chairmanship of Regional Working Groups should be assigned to a Vice President in the region.

During the last year the Vice Presidents have made efforts to play their new roles.

Item 6 : Priority issues for Least Developed Countries (LDCs) and Task Forces

The Committee noticed that the TF-LDCsAS report was submitted in 2008 meeting, and TF-LDCsAF report could not be completed until this year. The committee envisaged that it is impossible to finish the TF-LDCsAF report in short time due to low attendance. The committee has advised to close the Task Force for African LDCs.

Item 7 : Strengthening and Broadbasing of NCs, Evolving/Revising Constitution of NCs

The Central Office had in its record the Constitutions of 41 National Committees. The rest of the National Committees have been exhorted to send a copy of their Constitution to the Central Office and inform about modifications, if any. The Committee suggests that the Central Office should provide existing sample Constitutions of National Committees to NCs without a constitution for reference to draft their own constitutions.

B. REVIEW OF TENURES AND ACTIVITIES OF WORKBODIES

Item 8 : African Regional Working Group (AFRWG)

The Nigerian National Committee (NINCID) could not hold the 3rd ARC due to circumstances beyond their control. This information had been communicated to all National Committees/Committee of ICID and also posted on ICID website. The 4th African Regional Conference which was approved at Lahore to be held in Mali in 2011 will now have to be renamed as 3rd African Regional Conference in view of the developments cited above.

Item 9 : European Regional Working Group (ERWG)

During the 2nd International symposium on Water Management in Berlin from 31 March to 3 April 2009, one topic about irrigation issues was held under the umbrella of ICID. Prof. Quast was chairman of the session. The proceedings of this event were asked to be distributed to Finland, Hungary, the Netherlands and Ukraine.

It was noted that the 23rd European Regional Conference on the theme “Progress in Managing Water for Food and Rural Development” was successfully organized in Lviv, Ukraine from 18-21 May 2009. About 70 papers were presented in parallel sessions at the Conference. Nearly 85 Professionals participated to present response papers and poster presentations. The participants included experts from Bulgaria, Germany, Hungary, India, Iran, The Netherlands, Poland, Romania, Russia, Spain, UK, and Uzbekistan besides Ukrainians in a sizeable number.

At Lahore IEC, The Netherlands National Committee’s proposal to hold the 24th European Regional Conference in 2011 was accepted. The French National Committee proposed an additional European Regional Conference to be held in Orleans, France in December 2010. After discussion, ERWG agreed to host the conference on the topic “Groundwater Resource: an Essential Resource to be Saved and Managed”, and the conference will be named as

the 24th European Regional Conference. The European Regional Conference in 2011 in The Netherlands will therefore be renamed as the 25th European Regional Conference.

Item 10 : Asian Regional Working Group (ASRWG)

The TF-LDCsAS report was released during the Lahore events of ICID.

The 5th Asian Regional Conference is being held in New Delhi, India from 6-11 December 2009 on the theme "Improvement in Efficiency of Irrigation Projects through Technology Upgradation and Better Operation and Maintenance". The 6th Asian Regional Conference will be held in Yogyakarta, Indonesia from 10-16 October 2010. The main theme of the Conference is "Improvement of Irrigation and Drainage Efficiency through Participatory Irrigation Development and Management under the Small Land Holding Conditions."

The 3-year rolling plan of the working group was discussed and adopted. In the adopted plan, the Asian Regional Working Group highlighted the new ICID memberships from the region and cooperation amongst the NCs in the region by signing MoUs.

Item 11 : American Regional Working Group (AMRWG)

The Central office may continue to make efforts for nominations for AMRWG membership and ICID membership. Mr. Tollefson offered to assist and cooperate with Central Office in pursuing the membership issue.

The AMRWG intended to organise a workshop on the theme "Food vs Fuel: Implications for Water Resources" in New Delhi, but despite best efforts, only one speaker, i.e. Dr. Srinivas Rao (ICRISAT, India) could join the workshop. In view of thin attendance and to respect the feelings of the speaker, Mr Tollefson facilitated Dr. Srinivas' presentation on 'Food and Fuel – Sorghum Program on Biofuel' in WG–CROP. In future though, it was decided to consolidate the membership first. None of the activities listed in the agenda could be pursued due to non availability of members. The meeting ended with thanks to Dr Srinivas (India), who came to Delhi exclusively for the workshop.

Item 12 : Special Work Team on Aral Sea Basin (ST-ARAL)

VPH Prof. Victor Dukhovny, Chair, ST-ARAL proposed in consultation with VP Prof. Peter Kovalenko and VPH Dr. G.G. Guluyk that the ST-ARAL be renamed as "Working Group on Irrigation and Drainage in States under Social-Economic Transformation". Prof. Dukhovny stated that VP Prof. Peter Kovalenko had agreed to be the Chair and himself to be his deputy, if the proposal was approved. The proposal was accepted by PCSPOA.

Item 13 : Special Work Team on Lake Chad Basin (ST-LCB)

The tenure of the ST was extended by two years to complete its mandate. An interim meeting of ST-LCB was organized on 17 December 2008 in Sirte, Libya, in the sidelines of the High Level Conference on "Water for Agriculture and Energy in Africa – The Challenges of Climate Change". A roundtable conference on the background paper circulated by Lake Chad Basin Commission was the agenda. The minutes of the meeting brought out some possible and crucial roles for ICID.

In the absence of the Chair and other members, no business was conducted at the ST meeting during this IEC.

Item 14 : Committee on Congresses/Conferences (C-CONGR)

The preparations for the 61st IEC meeting and 6th Asian Regional Conference to be held from 10-16 October 2010 at Yogyakarta, Indonesia are on the way. The related information can be accessed from the website www.icid2010.org.

The preparations for the 21st ICID Congress and 62nd IEC meeting during 15-23 October 2011 at Tehran, Iran are progressing smoothly. The topics and sub-topics of the 21st ICID Congress have been finalized. General Reporters and Panel Experts were appointed.

The Committee noted that the 24th European Regional Conference proposed to be organized by the French NC in Orleans, France in December 2010 on the theme "*Groundwater resource : An essential resource to be saved and managed"* will not clash with the theme of the now re-designated 25th European Regional Conference on "Integrated

Water Management for Multiple Land Use in Flat Coastal Areas" to be held from 16-20 May 2011 in Groningen, The Netherlands. The Committee also reviewed the preparations for the 25th ERC.

Item 15 : Working Group on Young Irrigation Professionals Forum (WG-YPF)

The Committee noted that the young professionals had been increasingly playing an important role in ICID activities. PCSPOA recommended the extension of tenure of WG-YPF to fulfill its mandate.

Till now 23 National Committees have established their Young Professional Forums. France, India, Japan and South Africa have prepared their own regional directories of Young Professionals. Other NCs, such as Russia, China, Pakistan and Malaysia are also preparing their regional directories. The establishment of a Network of Young Professionals through development of a web-based platform is on the way for sharing knowledge and information.

The Committee also noted that the attendance of YPs in IEC meeting had been decreasing in recent years. NCs should continue to support and encourage YPs to attend ICID events and cheaper accommodations should be identified for them.

C. NEW ITEMS

Item 16 : New Workbodies

At Sacramento, it was recommended to create a new workbody by merging the African and Asian Task Forces on LDCs, with members from Asia, Africa, International Organizations, and LDCs. During this meeting, PCSPOA felt that it was not necessary any more to establish such a workbody now.

Item 17 : Strategy for Communication and Cooperation between ICID and other Organizations/NGOs

(i) Lead International Organizations

It was noted that ICID had been in close cooperation with related International Organizations by attending their meetings and through communication. Some of the organization with which ICID has close cooperation are FAO, The World Bank, World Water Council (WWC), World Water Forum, Global Water Partnership (GWP), International Fund for Agricultural Development (IFAD), International Commission on Large Dams (ICOLD), World Meteorological Organization (WMO), Third World Centre for Water Management (TWCWM), Asia-Pacific Water Forum (APWF), UN-Water, IPTRID, UN World Water Assessment Programme (WWAP), ISO, Global Subsidies Initiative (GSI), etc. ICID continues to host the International Water-related Associations' Liaison Committee (IWALC) Secretariat in Central Office and the Secretary General renders coordinating support as its Secretary.

ICID should preferably continue, on a reciprocal basis, to invite the related International Organizations as members or observers of ICID while endeavouring to join other International Organizations as member or observer, when invited.

(ii) Farmers and other Water Users

The importance to strengthen communication and cooperation between ICID and farmers and other water users was noted.

Committee endorsed the suggestion that the NCs of ICID translate and distribute the ICID publications (selected based on the likelihood of their potential application) locally and other important messages. Where necessary, the NCs may produce some simplified booklets, by using illustration diagrams to explain appropriate technologies covering such (latest) aspects on irrigation, drainage and flood management techniques. The National Committees could also develop a team of 'extension workers' to help the farmers come closer to ICID for exchange of information. The National Committees could also collect information on the irrigation and drainage products in their countries, manufacturers, prices, installation methods, etc. and bring out catalogues for the benefit of farmers. The NCs (as also ICID) could organize technical workshops focused on matters of interest to farmers, such as water rights/law, economic/financial aspects etc. and distribute relevant material in languages considered effective for communication to stakeholders.

The Committee encourages the NCs to translate the ICID publications and technical documents into local languages so that local farmers could understand them better. Extension services should also be strengthened.

(iii) Membership of International Organizations, Private Companies and Manufacturers

The internal review of the Permanent Finance Committee had suggested to involve in ICID activities, directly the international organizations and other private companies and manufacturers who were interested in the irrigation and drainage sector. In addition to bringing in a new knowledge base to ICID, such a move is likely to generate financial support to the ICID revenues, which are falling short of the expenses over the years more and more. The International Organizations could be given the membership of ICID as Associate Members or Corporate Members or Institutional Members or Organizational Members and could be extended the privilege of attending workbody meetings and IEC meeting, though without voting rights. A membership fee can be suggested, if this is acceptable, in principle.

The Committee noted Iranian National Committee of ICID's (IRNCID) request that the issue of inviting private companies and international agencies/organizations to ICID family as members should be taken up.

PCSPOA endorses the involvement of institutions, organizations, companies and manufacturers in ICID activities.

D. FOR INFORMATION

Item 18 : 5th World Water Forum (WWF-5), Istanbul, Turkey, 16-22 March 2009

ICID was the Coordinator for Topic 2.3. The outputs of the Sessions under the Topic have been finalized. The Central Office has printed the finalized report on a CD-ROM and the same is also available on ICID website.

Item 19 : Consultative Group of IPTRID

The Committee noted that President, ICID has taken a renewed interest in revamping IPTRID.

Item 20 : Any other business

Mr. Sharma informed the Committee that the ICID Multilingual Technical Dictionary on Irrigation and Drainage has been revised, updated and released with 5 languages - English, French, Chinese, Japanese and Russian. The new edition has many improvements and facility to make modification to the Dictionary through web. He presented copies of the Dictionary to the members.

APPENDIX II [PCSPOA Item 10]

Minutes of the Sixteenth Meeting of the
ASIAN REGIONAL WORKING GROUP (ASRWG)
New Delhi, India
06 December 2009: 09.30–13.15 hours

Year of Establishment: 1996

Mandate: The general objective of the Asian Regional Working Group is to focus on common topics and issues and to enhance the transfer of appropriate technology in irrigation and drainage to and from the Asian Region. The mission of ARWG is to encourage membership and to coordinate activities in the region.

Members Present: (1) Vice President Karim Shiati, Chairman, 2006 (Iran, 1997); (2) Mr. Tai-Cheol Kim, Vice Chairman, 2007 (Korea, 2006); (3) Mr. Waseem Nazir (Pakistan, 1999) represented by Mr. Bashir Ahmad Sial; (4) Mr. Sheng-Feng, Kuo (Chinese Taipei, 2001) represented by Mr. Kao Ruey-chy (Chinese Taipei); (5) Mr. S. Siswoko (Indonesia, 2002) represented by Vice President Dr. Hafied Gany; (6) Mr. C.D. Khoche (India, 2006) represented by Mr. Ravinder Singh (India); (7) Mr. Taner Kimence (Turkey, 2006) represented by Mr. Ahmet Seren; (8) Vice President Shinsuke Ota (Japan, 2006); (9) Mr. Mohd. Abdul Nassir bin Bidin (Malaysia, 2007) represented by Dr. Mohammud Che Husain; (10) Mr. Wang Xiaodong (China, 2008); and (11) Er. M. Gopalakrishnan, Secretary General, ICID.

Permanent Observer: Dr. W.F. Vlotman (Australia).

Member Honoraire Present: Vice President Hon. Dr. Gao Zhanyi (China).

Observers: (1) Dr. Chen, Shen-Hsien (Chinese Taipei); (2) Dr. Hsiao-wen Wang (Chinese Taipei); (3) Mr. Kyi Htut Win (Myanmar); (4) Mr. Myint Aung (Myanmar); (5) Dr. Park, Kwangsoo (Korea); (6) Dr. Park Chang Youn (Korea); (7) Dr. Nor Azazi Zakaria (Malaysia); (8) Mr. Ian Moorhouse (Australia); (9) Dr. Kim, Il Hwan (Korea); (10) Dr. Naito Kunihiko (Japan); (11) Dr. Masumoto Takao (Japan); (12) Dr. Alghamdi A. (Saudi Arabia); (13) Mr. Liu, Chien-Pang (Chinese Taipei); (14) Dr. N. Krishnamurthy (India); (15) Dr. G.N. Dhanapal (India); (16) Dr. K. Murali (India); (17) Dr. Park, Kzwook (Korea); (18) Dr. Syaiful Mahdi (Indonesia); (19) Dr. Kim, Jin-Taek (Korea); (20) Mr. Yeh, Shu-Shr (Chinese Taipei); (21) Mr. Kuo, Pin-Han (Chinese Taipei); (22) Mr. N.K. Manglik (India); (23) Prof. Mohd. Amin Mohd. Soom (Malaysia); (24) Mr. Tan, Yih-Chi (Chinese Taipei); (25) Mr. Koichi Kuwabara (Japan); (26) Dr. Tsugihiro Watanabe (Japan); (27) Mr. Shinsuke Hara (Japan); (28) Mr. Tetsuya Oishi (Japan); (29) Mr. Chen Cheng-Tsung (Chinese Taipei); and (30) Mr. Gao Lihui (China); (31) Mr. Husnain Ahmad (Pakistan).

Website: http://www.asrwg.icidonline.org/

Item 1 : Confirmation of the minutes of the 15th meeting of ASRWG

The minutes of the 15th meeting of the Working Group held at Lahore in October 2008 were confirmed.

Item 2 : Membership of the Working Group

The following nominees were neither present during the last meeting at Lahore (2008) nor at New Delhi (2009) and hence their nominations were deferred till the next meeting in 2010:

- Mr. Hanan Itzkovitch (Israel)
- Engr. H.M. Jayatillake (Sri Lanka)

Mr. Ravinder Singh (India), however, was present and his nomination was accepted.

The nominees from Nepal, Thailand and Uzbekistan have not been contributing to the activities for more than three years. The Central Office may seek fresh nominations from these National Committees.

A. CONTINUING ITEMS

Item 3 : To discuss future Work Plan

3.1 New Country Membership in ICID

The WG members noted the information and progress made regarding new country memberships of Bhutan, Fiji and UAE. The Chairman hoped that these countries would join ICID this year.

The representatives from Myanmar and Saudi Arabia (both active members of ICID) attended the ICID events after a long gap. The Chairman and Central Office may follow up with these countries to get nominees for ICID workbodies, especially ASRWG.

3.2 Other activities

The Chairman informed the members about the MoU between IRNCID and TUCID; MoU among IRNCID, GECID and AWHG; and cooperation with SYCID. The other actions to enhance regional cooperation among National Committees in Asia are also being explored by the Chairman.

3.3 Work plan

Three years rolling plan for the activities of the Working Group is adopted.

Item 4 : ASRWG Newsletter and ASRWG Homepage

Members noted the progress made regarding network linkages between the NCs of Australia (ANCID), Chinese Taipei (CTCID), Iran (IRNCID), Malaysia (MANCID), Thailand (THAICID) and India (INCID) with the ASRWG website. All the members are further encouraged to strengthen the network linkages and act in coordination.

To continue the networking further, the Central Office may continue to contact all National Committees (except Australia, Chinese Taipei, Iran, Malaysia, Thailand and India) to establish their own URL and develop network linkages between various NCs pertaining to the Asian region.

The Chairman requested the other National Committees to provide their links (URL) to the Central Office.

Item 5 : Work on the Basin-sharing Model for Mekong River Formation

Dr. Siripong Hungspreug (Thailand) was once again not available to report progress towards the status of work on the Basin-sharing model for Mekong River Formation.

Secretary General Er. M. Gopalakrishan informed the members regarding the scheduled workshop on Mekong River Basin in India.

Item 6 : Asian Drainage Programme for the Humid Tropics (ADPHT) and eradication of information gap

The Chairman informed the members that the Asian Drainage Programme for the Humid Tropics (ADPHT) has been established for 5 years. No activity has been reported due to the lack of budget; technical and logistic support. The members suggested that the WG may keep this item in the agenda for one more year. In case of no outcome from the ADPHT till next meeting of the WG, this item may be dropped from the agenda.

It was also suggested that the Drainage Centre, which has been established in Cairo, Egypt, covering the Northern Africa, can expand its activities to cover more countries from the arid and semi-arid Middle East. The Chairman will follow up this issue with the Drainage Centre of Egypt.

Item 7 : Linkages with Regional and Transnational Organizations for Cooperation

7.1 International Water Management Institute (IWMI)

The WG members noted the good collaboration between IWMI and ICID. Secretary General apprised that ICID as co-ordinator of Topic 2.3 dealing with "Water and food for ending poverty and hunger" interacted with a consortium of partners. One of the 4 sessions on this was assigned to IWMI during the Forum in Istanbul (Session 2.3.1) that was handled by Director General Dr. Colin Chartners himself.

He also highlighted ICID-IWMI interactions in the exercises undertaken by the later. One such was their research programme on "Trends in Asian Irrigation". A special session in 5th ARC has also been organized to introduce this research project findings.

7.2 Global Peat Initiative (GPI)

Since no progress has been made or reported by Dr. Hungspreug (Thailand) for quite some time, this item may be dropped from the agenda.

7.3 Food and Agriculture Organization of the United Nations (FAO)

Dr. Klaus Siegert, Permanent Observer, ASRWG (FAO representative) was neither available at Lahore (2008) nor at New Delhi (2009) meetings for discussion on the subject. However, the ASRWG suggested to develop project programs related to 'Agriculture and Water' for obtaining possible support from FAO.

The WG members noted the further developments as explained by Secretary General M. Gopalakrishnan during the meeting. FAO had requested ICID inputs for the World Water Development Report 4, as the lead agency. The report in preparation has identified challenge areas and will attempt to highlight regional perspectives – focusing on 'Risks and Uncertainties'.

7.4 UN – WATER

The WG members noted the active role played by ICID in recent UN-Water meetings. Secretary General M. Gopalakrishnan informed that ICID Coordinated Topic 2.3 "*Water and Food for ending poverty and hunger"* during 5th World Water Forum in 2009. ICID has joined the UN-Water Task Force on Water & Climate through WG – Climate, and Task Force on "Climate Change and Irrigation (ARTF-CC)" of ASRWG. More information is available in Item 9 and 12 below.

The Chair of UN-Water, that rotates amongst the members in UN System, had been in FAO. ICID, as one of the partners of UN Water, had been playing an active role upon invitation. The close liaison with UN Water has enhanced ICID's role and visibility in all issues linking agricultural water management, linking future water challenges with external drivers like climate change, global financial crisis and bio-fuel compulsions.

7.5 ICID / UNW-DPC Cooperation on capacity development in agricultural water management

The WG members noted the information on ICID / UNW-DPC Cooperation on capacity development in agricultural water management. The Chairman further explained the cooperation of UNW-DPC and ICID in dissemination of the advance AquaCrop software for calculating the irrigation water requirement of crops. A draft MoU on Capacity Building Development between UNW-DPC and ICID has been prepared and is in processing.

Item 8 : Possibilities of developing cooperative arrangements with International Society of Paddy and Water Environment Engineering (PAWEES) and International Network of Water Environment and Paddy Fields (INWEPF)

Vice Chairman Dr. Kim Tai-Cheol and Dr. Cheng, Chairman of PAWEES were present at the WG meeting and briefed the activities of the INWPEF and PAWEES during the years 2007, 2008 and 2009 in the meeting. The WG members were urged to publish their papers in the PAWEES Journal and participate in their annual conferences, when possible. The members noted that INWEPF has been studying the food security and poverty alleviation, sustainable water use and shared partnership.

Item 9 : Asian Regional Task Force on Climate Change and Irrigation (ARTF-CC)

Vice President Dr. Ota (Japan) presented the outcome of the Asian Regional Task Force on Climate Change and Irrigation (ARTC-CC) in the meeting. Dr. Masumoto Takao (Japan), Dr. Kim (Korea) and Dr. Shiati (Iran) also presented their case studies.

The Working Group decided that there should be a close coordination of activities of the ARTF-CC and the Working Group on Global Climate and Agricultural Water Management (WG-CLIMATE), which was headed by VPH Dr. Mark Svendsen (USA), for on-going activities. It was further decided that the workshops, symposia, seminars will be highlighted in the next meeting of the WG during 61st IEC in Indonesia in 2010.

Item 10 : 5th Asian Regional Conference

The WG members noted the information on the 5th Asian Regional Conference (ARC) during 9-11 December 2009 at New Delhi, India. In addition to the above, several special sessions and workshops were held.

The WG members requested the representative from Indonesia to actively participate in the technical sessions of the 5th ARC at New Delhi, India.

Item 11 : 6th Asian Regional Conference

As decided, the 6th ARC would be hosted by Indonesia National Committee (INACID) from 10-16 October 2010 at Yogyakarta, Indonesia. The theme for the 6th ARC will be "Improvement of Irrigation and Drainage Efficiency through Participatory Irrigation Development and Management under the Small Land Holding Conditions". Vice President Dr. Gany from Indonesia briefed the Working Group about the latest developments of the 6th ARC to be held in 2010 and distributed the 2nd Announcement of the event. The announcement contains information on call for papers and submission deadlines. More information is available at the conference website at www.icid2010.org.

Item 12 : Any other business

- **World Water Development Report 3**

The Chairman informed the members that the World Water Development Report 3 (WWDR3) on "*Water in a Changing World*" is available at the website: www.unesco.org/water/wwap for download. The Chairman encouraged members to review the valuable report and recommended to send comments/suggestions for the future reports that will be undertaken by WWAP in consultation with UN Water partner organizations like ICID.

- **UN Water Task Force on 'Water and Climate'**

UN-Water has initiated a UN Water Task Force on "Water and Climate" of which VPH Dr. Mark Svendsen and VP Dr. Karim Shiati were the members.

The Chairman briefed the members on further progress about the UN Water Task Force on "Water and Climate". The UN Water Task Force has already submitted a one-page report entitled "Climate Change adaptation" which was submitted to Copenhagen meeting (December 2009). The UN Water Task Force has also released a 13 pages report entitled "Policy Brief from UN-Water on Climate Change". This was discussed in the WG and it was felt that a part of the report which deals with the effect of climate change on agricultural food production was controversial.

APPENDIX III [PCSPOA Item 13]

Minutes of the Fourth Meeting of the
SPECIAL WORK TEAM ON LAKE CHAD BASIN (ST-LCB)
6 December 2009: 09.30-13.15 hours
New Delhi, India

Year of Establishment: 2005 **Completion of the Mandate: 2011**

Mandate:

- To assist in the establishment of broad based ICID National Committees in each of the Lake Chad Basin country;
- To obtain and disseminate information on the problems of Lake Chad Basin to other ICID member countries with similar problems;
- To organize national and international discussions on related scientific and technical issues in the basin; and
- To co-operate with other international organizations in related activities.

Members Present: (1) Dr. Sizwe Mkhize (South Africa) represented by Dr. Andrew Sanewe (South Africa); (2) Dr. S.A. Kulkarni, Executive Secretary, ICID.

Observer: (i) Prof. T. Watanabe (Japan), and Mr. Maurice Roos (USA).

Website: http://www.st-lcb.icidonline.org/

Note: In the absence of the Chair and scarce attendance of memers, no business was conducted.

APPENDIX IV [PCSPOA Item 12]

Minutes of the Sixteenth Meeting of the
SPECIAL WORK TEAM ON ARAL SEA BASIN (ST-ARAL)
New Delhi, India
08 December 2009: 09.30-13.15 hours

Year of Establishment: 1994

Mandate: To assist in establishing broad based ICID National Committees in each Aral Basin country; to obtain and disseminate information on problems of Aral basin to other ICID countries with similar problems; to organize national and international discussions on related scientific and technical issues in the basin; and to cooperate with other international organizations in related activities.

Members Present: (1) Vice President Hon. Victor A. Dukhovny, Chairman, 2005 (Uzbekistan, 1994), (2) Prof. Dr. N. Hatcho (Japan, 2002); (3) Acad. Boris Kizyaev (Russia, 2002) represented by Mrs. Irina Bondarik; (4) Mr. Ron W. Coley (Canada, 2003) represented by Mr. Laurie Tollefson; and (5) Er. M. Gopalakrishnan, Secretary General, ICID.

Member Honoraire Present: Vice President Peter Kovalenko (Ukraine).

Representatives from the Region: (i) Mr. Polat Beisebekov (Kazakhstan); (ii) Mr. Kadybek Beishekeev (Kyrgyzstan); (iii) Mr. Khasanov Khamidula Usmanovich (Tajikistan); (iv) Mr. Ernazarov Nazimjon (Uzbekistan); (v) Mr. Lutfulla Mukhamednazarov (Uzbekistan); and (vi) Dr. Olga Zhovtonog (Ukraine).

Observers: (i) Dr. Sandor Szalai (Hungary); (ii) Dr. Kai Wegerich (The Netherlands); (iii) Mr. Ludmila Kireycheva (Russia); (iv) Mr. Yurchenko Irina (Russia); and (v) Glyuck Irina (Russia).

Website: http://www.icwc-aral.uz

Item 1 : Confirmation of the minutes of the 14th meeting of ST-ARAL

(The 15th meeting of ST-ARAL during Lahore Meetings (2008) could not take place in view of scarce attendance of members.)

The minutes of the 14th meeting of the ST-ARAL held at Sacramento in October 2007 were confirmed.

Item 2 : Tenure of the Working Group/Work Team

The deliberations in the 13th meeting (2006) brought out the progress achieved by the ST-ARAL in a nutshell. To recapitulate, those are:

- Establishing membership drive among ICID National Committees of Aral Sea Basin and receipt of application from Azerbaijan
- Acquiring publicity in information network developed based on the three years activity of Central Asian Regional Water Information Base (CAREWIB) project, supported by the Swiss Agency for Sustainable Development and Cooperation (SDC)
- Educational activities organized by the Training Centre of Interstate Commission for Water Coordination (ICWC) with the support of CIDA and McGill University
- Acceptance of IWRM and its substantial implementation in Aral Sea Region
- Accomplishment of works related to IWRM and request for its wider dissemination and
- Establishment of broad based cooperation with different International and Donor Organizations.

The Chair did not hesitate to highlight that the Work Team has already outlived its stipulated tenure of 6 years and there was a need to call a closure.

However, it was felt by the team that the work of ST-ARAL should continue with a new mandate and action plan addressing pending task or transfer of the pending tasks to a proposed new Working Group on *"Irrigation, Drainage and Environment for Economy Transfer*". An alternate name which sprung up was *"Water Resources Management in Degraded Basins"*. It was also felt that it can couple itself with either the Work Team on Lake Chad or other river basins, where Inter Basin Water Transfer (IBWT) was of importance elsewhere in the world, for a closer coordination.

Chairman VPH Prof. Victor A. Dukhovny could not attend the Sacramento (2007) and Lahore (2008) meetings. No further discussion was possible in the last meetings and it was decided to postpone the subject until the New Delhi meeting.

VPH Prof. Victor A. Dukhovny, Chairman, ST-ARAL vide his e-mail (30 October 2009) to the President and Secretary General, ICID has proposed to restructure the ST-ARAL to form new Working Group on *'Irrigation and Drainage in States with Transition Economy'*. VP Kovalenko (Ukraine), VPH Guluyk (Russia), and Dr. S. Khamraev (Uzbekistan) have supported the proposal of creating new WG. The CO has provided information towards the creation/ formation of new work body (ICID by-laws 3.1) to VPH Prof. Dukhovny (Uzbekistan). In response, VPH Prof. Dukhovny together with VP Prof. Kovalenko has submitted (**Annex 1**) the draft mandate and short description of the new WG for consideration.

VPH Prof. Dukhovny proposed VP Prof. Kovalenko (Ukraine) to lead the new WG, while keeping himself available for the position of Vice Chairman, once IEC approves the formation of new WG.

The Central Office has circulated (27 October 2009) VP Prof. Kovalenko's e-mail to all NCs seeking their suggestions/ observations towards creating a new WG as above.

In response to VP Prof. Kovalenko's e-mail, VPH Prof. Brane Maticic (Slovenia) has informed (29 November 2009) that he will not be able to attend the New Delhi meeting in December 2009 but has raised some issues for discussion from the viewpoint of Slovenian conditions during the meeting:

- There is supposed to be geographical consideration among ICID countries with transition economy in Europe and outside Europe - Geographical considerations;
- There are ICID countries with transition economy in Europe that are members of EU and others that do not yet belong at present time to EU - Political & Economical issues should be considered;
- There are countries within EU that are pro- globalization in food production and against globalization - what are critical issues for the development and modernization of agriculture with water management activities specially in countries with transition economy within EU;
- Different environmental problems in these different countries should be considered as well; there is opposition against irrigation & drainage activities in some countries; and
- Spatial needs and spatial planning should be taken into consideration; they are different in different countries.

VPH Prof. Maticic does not intend to spoil the general opinion on issues with the establishment of such WG but perhaps feels that some more time may be needed to develop maturity on these issues. Nevertheless, participants (including representatives of Hungary and Germany, same as representatives from Ukraine and Russia and members of working group) supported opinion of VPH Prof. Dukhovny and VP Prof. Kovalenko to join specific interests of the States that went from top level development with centralized socialistic system to market economy through significant fall of all indicators of production and wellbeing.

Taking in to account the importance of commonly acceptable decisions for those states, there is a need to find most reliable financial, economic, institutional and technical approach for rehabilitation of former huge irrigation and drainage projects. The participants therefore decided to propose title for this group as *"Working Group on Irrigation and Drainage in States Under Social-Economic Transformation"*. They were sure that integration of scientific and practical experiences of these countries; and follow up of success stories will create a big impact in combating poverty and guarantee of food security for states with emerging economy.

Participants invited all National Committees, who once had socialistic system, to join the new WG.

ST Aral proposed its recommendations as 1st Draft "Action Plan" **(Annex 2).**

Item 3 : To review the membership of the Work Team

Item 3.1 : Work Team Membership

Considering the proposed new direction of WG, Chairman proposed to invite fresh nominations from the existing membership and other NCs for the new term of WG.

Item 3.2 : Country Membership

The following points were noted under this item during the 13th meeting:

- Uzbekistan and Kazakhstan are active NCs of ICID.
- Turkmenistan was accepted as a member in Bali (1998) but their initial payment of subscription was awaited.
- Tajikistan made the initial payment and remained active till December 2002. It is now an inactive NC.
- Azerbaijan was admitted to ICID family but the payment of their subscription to affect the new membership is awaited.

The Central Office of ICID was in correspondence with the Chairman, ST-ARAL and Chairman, ASRWG regarding country membership of the NCs of Turkmenistan, Tajikistan and Azerbaijan. The CO may request the NC of Kyrgyzstan to pay its dues, at least for one year, to keep its membership active in ST-ARAL to support its activities.

A. CONTINUING ITEMS

Item 4 : Further progress regarding Aral Sea Basin (ASB)

In the 13th meeting, IPTRID indicated about the distribution of the English version of the report on Aral Sea Basin (ASB) amongst the key actors and stakeholders of the region based on the IPTRID mailing list. SIC-ICWC translated the ASB report into Russian language with the help of IPTRID and Chairman, ST-ARAL and distributed the book amongst the key stakeholders using SIC-ICWC mailing list.

The Chairman, ST-ARAL while expressing his gratitude to IPTRID and all other donors of the ASB for providing financial and technical assistance, stressed the need to promote the work related to drainage investigations, drainage design and drainage investments.

It may be noted that IPTRID Strategic Framework was subject to further review. IPTRID's own future status is not certain. Members of Group impressed their views about the need for ICID to transform IPTRID into a real mechanism for analyzing and aggregating the advance technology for all developing countries including the states in transition.

4.1 WWF5 and Aral Sea Basin

During WWF5 at Istanbul, a special session on Aral Sea Basin was arranged with GWP showing a new interest in introducing IWRM concept.

Pre-Forum Conference in Bishkek organised with assistance from Turkish Government had big impact on the dissemination of principal positions of global water improvement in region. Sub-regional side event (SE 026) on 'Climate change, water resources management, governance and capacity building issues in Central Asia and Caucasus' was co-organised by Interstate Commission for Water Co-ordination in Central Asia (ICWCCA) and Global Water Partnership (GWP) on 18 March 2009 at Istanbul, Turkey.

During the event VPH Prof. Dukhovny presented a book on 'IWRM – From Theory to Real Practice: The Experience of Central Asia'. The book highlights IWRM practical experiences from CACENA. The book is available online at: <http://www.cawater-info.net/library/eng/gwp/dukhovny_sokolov_e.pdf>.

President Chandra Madramootoo, VPH Dukhovny and Secretary General Gopalakrishnan participated in the event. Central Asia representatives together with SDC organized special presentation on implementation of IWRM in the Central Asia especially in Ferghana valley on the territory of three states

The background, challenges and actions and principal outcomes of CACENA side event are enumerated in **Annex 3**. Additional information on Aral Sea Basin and GWP CACENA can be accessed at: <www.cawater-info.net>, <www.gwpcacena.net>.

4.2 APWF and Aral Sea Basin

The members of ST might be interested to note an initiative that took place during the 1st Asia Pacific Water Summit (APWS), organized during 3-4 December 2007 at Beppu in Japan. Among many other sessions, Aral Sea Panel Session on "Commitment for Ensuring Water Security in the Aral Sea Basin – Cooperation versus Competition" is of particular interest to ST-ARAL. The background of summary report of Aral session is available at **Annex 4**. Now ICWC are continuing to participate actively in development APWS and preparing for its' 2nd Summit.

Item 5 : Capacity Building Programs

The following points were brought out:

- CAREWIB Project is being implemented with the financial assistance of the SDC. This will strengthen the present organizational infrastructure and encourage large-scale involvements of stakeholders and world audience in the Aral Sea problems.
- Now, due to CAREWIB project enforcement and spread of information, there is an increase in number of visitors (up to 1000-1400 per day) which has initiated development of national systems by same order as previous regional systems. Big success in this area has been achieved by Kazakh, Kyrgyz and Uzbek national teams. This will help spread the methodological approach of the CAREWIB, not only to national network formation with proper information on qualitative and quantitative availability of water, land and environmental characteristics, but also on the provincial and sub basin level.
- As result of success of CAREWIB, the UN Commission for Eastern Europe and Central Asia promoted the idea of creation of special unit of Russian-speaking countries besides presenting their activities on water, irrigation and drainage on website: WWW.CAWATER-INFO.net. Organizing meeting of this collaboration took place in Moscow in April 2008, and as a result more than 20 new organizations from Russia, Ukraine, Moldova and Belarus have participated through this new window. It can be used as official window of new ICID group in future.
- The IWRM has been successfully implemented in the Ferghana region (the territory of 3 states: Kyrgyzstan, Tajikistan and Uzbekistan) where involvement of stakeholders initiative, hydrographyzation and some technical measures saved more than 250 million m^3 of water per year from an area of 110,000 ha of irrigated lands. As a result, the IWRM concept was disseminated to other areas as well. Particularly in Uzbekistan, where implementation of IWRM began in 7 different rayon of 7 provinces covering an area of 250,000 ha, with support from SDC.
- Technical Assistance from Asian Development Bank for Improved Management of Shared Water Resources in Central Asia coordinated by SIC-ICWC initiated preparations of Agreements on the transboundary aspects for Amudarya and Syrdarya rivers and financial issues for collaboration.

The Chairman further intimated that ST-ARAL together with Prof. Chandra Madramootoo, President, ICID and President Hon. Aly Shady would continue exploring assistance for the Capacity Building Programme. UNESCO-IHE is also taking interest for developing network of training branches in the region.

(i) New initiatives in Aral Sea Basin

In the 13th meeting (2006), the Chairman Special Team mentioned that the ST should continue its efforts in coordinating with Brace Centre of McGill University (Canada), SIC-ICWC, CIDA and EU for bringing developments in different zones of Central Asia.

But taking into account the small movement from CIDA, the ICWC applied to different donors and succeed in getting assistance from IHE-UNESCO for preparation of trainers of training program (sponsored by Dutch Government).

Swiss Government through SDC introduced huge assistance to the region for development of IWRM program for local provincial training Centres in Kyrgyzstan (Osh), Tajikistan (Khojent) and Uzbekistan (Andijan and Ferghana) that permitted training of more than 9000 specialists from WUAs and farms in 2008.

(ii) Environmental and Socio-economic Assessments

As result of completion of the first stage of the project on "Delta Syrdarya improvement" financed by the Government of Kazakhstan and The World Bank and preparation of a feasibility study on the second stage of the project situation in delta Syrdarya, functioning improved significantly in the North Sea to the proposed design level. Now, the second stage of project has begun and 6 lakes' system will get sustainable water availability.

Promotion of the works for South Priaralie was carried out by the Government of Uzbekistan and as a result some coastal lakes will get water.

Item 6 : Top level meeting in Alamaty and new AFAS

Outstanding meeting of 5 Heads of States – Presidents of Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan took place on 28 April 2009 in Alma-Ata. This was first Summit after 2002, where problems of Aral Sea basin were presented which resulted in appointment of a new Chairman of Executive Committee of Aral Sea fund. Presidents signed Memorandum that stated their will to develop future collaboration between states, to prepare new Program of Aral Sea (PBAM-3) and to pay special attention to finding mutual solutions on the rational use of water and hydropower resources of the region.

Based on this decision, the new EC IFAS organised a set of meetings together with ICWC and different donors for their involvement in preparation of this program and other parts. Specific attention and first push to this movement was given by World Bank, Government of Germany, UN EECE and OSCE. Special body of UN – Preventive Diplomacy in Central Asia was formed in Ashgabat with direct goal of organising/monitoring water and environmental situation in Central Asia.

Item 7 : Issues on "Scientific and technical framework of transfer of Siberian water to Central Asia"

While deliberating various issues, Prof. Dukhovny informed that the region should concentrate its attention in the next 20-25 years on the efficient use of its own water and increase its productivity. The project on 'transfer of water' has sound viability for tackling the problems of Siberia from excess water and ASB from water scarcity by mid 21st century. But the real needs of Central Asia will depend on many factors such as characteristic of the region in terms of self-sufficiency in food and development of irrigation, global prices of agricultural produce, political and social situation in the region and in the neighbouring states.

The Chairman, ST-ARAL also brought to the notice of the members regarding new political movement in the sphere of Euro Asian Economic Council, which helped to generate fresh interest in the future of transfer of Siberian river flows to the region of Central Asia.

Mr. Acad. Boris Kizyaev, Member, ST-ARAL informed during the 13th meeting that the plan was political having social implications. The Government has yet to work out the feasibility. In 2-3 years, some result could be expected.

Mayor of Moscow Mr. Lusjhkov published a book about renovation of this proposal that caused big reaction in mass media. This question also was discussed in the Russian Water Forum in November 2009 where Ambassador of Kazakhstan in Russia also supported this idea.

The Central Office requested (11 May 2009) Mr. Acad. Boris Kizyaev (Russia) to provide update on the above issue. In response, VPH Dukhovny informed (18 May 2009) that he has brought out the issues in his presentation which are available on their website.

Chairman referred to his publications in Russian and international press where an analysis of the present situation in region has been presented underlining the previous idea that the water availability from present water resources

in Central Asian states can be guaranteed only under condition of close collaboration and effective water use. Destabilising factors such as climate change, demographic pressure, growth of Afghanistan water demands can cause an additional water demand after 2025-2030. But now the principal focus of water and irrigation development in Central Asia should be to organise better implementation of IWRM following the experiences of IWRM in Ferghana to save at least 20% of water from present volume of water delivery, to reduce water consumption significantly and to overcome hydropower egoism, which may have big impact on energy generating organizations. Enforcement of international and regional water laws together with implementing proper financial tools will assist in sustainable survival of region on its own water.

In present situation, only North Kazakhstan and South Siberia introduced sharp demand for additional water

Future water demand for region needs to be mutually investigated by Central Asia, Russia and international scientific and design organizations by identifying most efficient approach in different conditions. Nevertheless, final decision will depend on the common political will of all the involved project States.

Item 8 : Need for developing linkages with WG-CLIMATE

In the 13th meeting (2006), VPH Prof. Dukhovny stressed the need for including more work on socio-economic aspects addressing issues like reduction of poverty, provision of livelihoods etc through implementation of improved water management practices.

VPH Prof. Dukhovny, Chairman, ST-ARAL brought the following three issues to the attention of Chairman, WG-CLIMATE:

(i) Impact of change in precipitation, temperature and humidity of air on the water resources of region
(ii) Impact of glacier melting on the river flow and
(iii) Impact of climate change on the water consumption of crops.

The Chairman, WG-CLIMATE agreed (2007) to consider the aspects under the purview of WG-CLIMATE.

During the 14th meeting at Sacramento (2007), it was suggested to continue the discussion on ST-ARAL through E-mails.

Now Central Asian states provide big works in this direction. Particularly Kazakhstan, Kyrgyzstan and Uzbekistan have completed second report on present and expected transformations due to climate change and strategies for their adaptation. IFAS together with Euro Asian bank published a generalised report on regional forecast that will be use for the preparation of a new Program of Aral Sea (PBAM-3).

By the invitation of President ICID Prof. Chandra Madramootoo, VPH Prof. Dukhovny participated in a global Conference in November 2009 at Montreal, Canada where reports from SIC ICWC were presented on impact of climate change on water and food security in the region.

Item 9 : Any other business

VPH Prof. Dukhovny, Director, Scientific Information Centre of Interstate Commission for Water Coordination, Uzbekistan participated in the International Conference “The Problems of Aral : Impact on the Gene Pool of Population, Flora, Fauna and International Cooperation for Mitigating Consequences” scheduled during 11-12 March 2008, Tashkent. Report was introduced and published in the special issues of proceedings.

VPH Prof. Dukhovny joins the other participants in personally thanking President ICID Prof. Chandra Madramootoo, Secretary General Er. M. Gopalakrishnan and Dr. Daryl Fields of World Bank for their big assistance that allowed the participation of delegates from Central Asia in New Delhi meetings.

Annex 1 [Appendix IV, Item 2]

DRAFT
WORKING GROUP ON 'IRRIGATION AND DRAINAGE IN STATES UNDER SOCIAL-ECONOMIC TRANSFORMATION'
(to be established)
[Erstwhile Special Work Team on Aral Sea Basin (ST-ARAL)]

Background

The principal goal of the new Working Group on Irrigation and Drainage in States with Transition Economy is to facilitate a single platform of National Committees of ICID that belong to States characterized by transition economy, in overcoming certain mutual problems in Irrigation and Drainage.

It is well known that after the splitting up of former USSR States that were included in Warsaw collaboration or Soviet Union went through very difficult times to overcome the problems connected with changing economic, political and social situation, especially in rural area during the past 2 decades. These are characterized by some common features such as:

- reduced size and direction of government subsidy to agriculture, water management, irrigation and drainage;
- lack of investment not only in development of Irrigation and Drainage, but also in sustainability of these networks;
- lack of States' attention to Irrigation and Drainage.

As result, in all these States, one can recognize that there is a:

- reduction of irrigated area (it was 12 Mha or 5% of global irrigated area);
- significant loss of organizations responsible for supporting infrastructure of irrigation and capacity building in water management;
- failure of Irrigation and Drainage science;
- lack of interest of young professional in Irrigation and Drainage.

Goal: to promote innovative approaches and necessary instruments to provide sustainable irrigation and drainage management within IWRM plans and RD projects in the countries of transition.

Mandate

- to agree concerning the organizational and management structure of the working team;
- to develop and strength a network among the countries of transition;
- to organize monitoring and evaluation of common problems in the States that belong to transition economy;
- to create database and exchange of information about changing situation in Irrigation and Drainage in these States and to attract global and national attention to existing trends affecting global and national food security and wellbeing of rural population;
- to summarize the experiences in overcoming negative tendencies in organizing public-private partnerships, implementation of IWRM and broad-basing of stakeholder;
- to monitor the ecological situation in the transition states, including problems of close basin (Aral Sea, Caspian Sea), salinization and water logging, etc.;
- development of appropriate advance irrigation and drainage technology in transition states and its dissemination through capacity building;
- to promote farmer's training to create awareness about irrigated and drainage agriculture.

Proposed activities

- organizing conferences and workshops;
- development of web portal similar to ‘CAREWIB portal’ and Russian website www.cawater-info.net;
- produce publications/ proceedings.

Long-term perspective of activity

- to create enabling environment for effective scientific cooperation and cross policy coherence on irrigation and drainage issues within IWRM on catchments scale;
- to develop long term vision on future role of irrigation and drainage in the countries of transition to overcome poverty, provide food security and environmental sustainability on the basis of water scenario development on local and regional level;
- to integrate irrigation and drainage management with IWRM plans at river basins levels and RD projects;
- to develop agro environmental measures within the projects on irrigation and drainage together with the measures for long-term protection of water resources and sustainable argo-landscapes;
- to develop new mechanisms and tools to implement investment projects in irrigation and drainage restoration and development by using advanced water and energy saving technologies, economic and policy instruments.

All countries with transition economy are invited to join sub- teams according to their priorities and capacities.

Tenure

- six years (2009-2015)

Annex 2 [Appendix IV, Item 2]

DRAFT ACTION PLAN
WORKING GROUP ON 'IRRIGATION AND DRAINAGE IN THE STATES UNDER SOCIAL-ECONOMIC TRANSFORMATION'

To start the activities of WG, the following actions are proposed:

1. Working Group set up

1.1. Disseminate information about establishment of the Working Group among the appropriate ICID members with invitation to apply for membership to the ICID Central Office and ask for opinions

1.2. To improve working plan according to the responses from potential participants

2. Collection of information/data about current situation on various aspects

2.1. To develop questionnaire on current problems of irrigation, drainage systems and environment; state of policy; legal, institutional and technical developments in water management; economical situation, science and education

2.2. To create common methodological approach to establishment an electronic data base and organize a forum for exchange of information and opinions

2.3. Regular evaluation of the information in the data base including ongoing and finished projects in connection with mandate of the WG

3. Development of special web-page of the WG on the Russian portal of CAREWIB

4. Formulation and implementation of joint projects

4.1. To make assessment of existing research gaps and best practices;

4.2. To formulate ideas for joint projects to strengthen the situation in water management with focus on integrated water management;

4.3. To organize dialogue for preparation of recommendations for water governance and policy making tools;

4.4. Project development based on stakeholders dialogues and their associations.

5. Vision for future development

5.1. To establish an analytical sub-group for the permanent follow up and monitoring of working plan development

5.2. Overview of the national documents in connection with future development of water management, e.g. adaptation strategies to climate change, national communications for UNFCCC and UNCCD etc

5.3. Synthesize the national inputs

5.4. To develop long term vision on future role of irrigation and drainage in the participating countries to provide food security and environmental sustainability on the basis of water scenarios development on local and regional level

Annex 3 [Appendix IV, Item 4 (4.1)]

SPECIAL WORK TEAM ON ARAL SEA BASIN (ST-ARAL)

5th World Water Forum
GWP Sub-Regional Side Event (SE 026)
on
'Climate Change, Water Resources Management,
Governance and Capacity Building Issues in Central Asia and Caucasus'
18 March 2009 at Istanbul, Turkey

Background

The CACENA (Caucasus and Central Asia) region can geographically be subdivided into:

The Southern Caucasus (three countries – Azerbaijan, Armenia and Georgia), and Central Asia (five countries – Kazakhstan, Kyrgyz Republic, Tajikistan, Turkmenistan and Uzbekistan). There is a big differentiation in renewable water resources availability among the countries within each subregion.

The biggest part of the territory is located in the arid and semi-arid climate, and irrigated agriculture accounts for about 85-90% of total water use. The most common challenging issues for the Caucasian sub-region are the low access to proper drinking water supply and sanitation, water ecosystems degradation, floods and, in some zones, water scarcity. For Central Asia there are increasing water deficit and water ecosystems degradation. Transboundary issues (conflicting interests for water among upper and downstream countries) are common for the whole CACENA region.

There are principal efforts undertaken by national water authorities mostly addressing to implementation of the integrated water resources management (IWRM) principles towards sustainable development and MDGs achievement in all eight countries. These include public participation in decision making, promoting political will to cooperation among sectors and countries, initiating dialogues among all stakeholders and support to practical actions at local levels. Due to active role of the Regional Water Partnership (RWP) CACENA in a close cooperation with the Executive Committee of International Fund for the Aral Sea Saving (EC IFAS) and the Interstate Commission for Water Coordination (ICWC) a lot of joint activities have been implemented, as a result of which good relationship has been established between water related professionals from all countries. During the regional meetings within the framework of RWP CACENA, exchange of information and management experience takes place between the principal stakeholders. The RWP CACENA provides favorable conditions for integrating not only into the GWP network activities, but together with the IFAS and other regional processes also for involving local partners into activities supported by other international organizations and donors.

Main Challenges and Actions

There are a number of challenges for sustainable water resources management in Central Asia and Southern Caucasus, which are predetermined by the following destabilizing factors:

- Population growth, although its rates have reduced in comparison with the last quarter of the 20th century, makes up not less than 1.5% per year resulting in significant, additional demands for water;
- Urban population growth and expanding urban areas causes additional pressure on the water resources;
- Changes in crop pattern due to restructuring of agriculture there is tendency to produce more highvaluable crops;
- Climate change causes increasing water requirements for agriculture and more often recurrence of extreme flood and drought events;
- Progressing instability in world prices on agricultural production against increase in costs of agricultural inputs makes the irrigated farming less cost-effective, at the same time there are no alternatives to irrigation due to its high social significance for the region (about 60% of rural population rely on it).
- Worsening of the competition for water resources between upstream and downstream countries - mainly due to shifting the water flow regimes towards the interests of maximum hydropower production, especially in winter time – created serious friction in regional cooperation.

- Possible increase in water withdrawals from the Amudarya river by Afghanistan after stabilization of its economic situation will the add stress on the actual water balance.

There are also a number of internal challenges, which should be added to those listed above:

- Lowering the accuracy of water resources accounting/registration and forecasting, resulting in unproductive water losses along river channels;
- Obsolescence and degradation of water infrastructure at all levels of water management hierarchy resulting in increase of unproductive water losses and deterioration of monitoring;
- Low level of capital investments to rehabilitation and upgrading water infrastructure;
- Increased number of end water users (farmers);
- Insufficient financing of Operation and Maintenance (O&M) resulting in loss of skilled personnel.

The principal outcomes of the CACENA side event were as following:

a. Climate Change

i. EC IFAS presented recently completed regional report on Climate Change in Central Asia, which shows the real picture of the challenging issues region will faced in coming few decades

ii. Tajik Minister of Land & Water to look at less water consuming crops. This initiative was supported by other water leaders from CACENA countries

iii. Agreement of immediate need improved water efficiency among key actors

iv. Actions to be taken for improved water quality

b. Transboundary Cooperation

i. Water leaders from the region confirmed their commitment for cooperation and looking to the GWP CACENA as a neutral platform for transboundary dialogues

ii. ADB is happy with progress and will support further efforts towards new agreements

c. Water Governance

i. IWRM is a baseline for on-going reforms in water sector over the region

ii. Uzbek delegates called to build cooperation on the UN Convention 1997 principles. In response, Tajik delegates proposed Central Asian Convention on Water

d. Capacity Building

i. The need for joint regional capacity development umbrella was stressed to coordinate all actors involved (local, regional, international donors and agencies, etc.)

ii. Build on achievements from Swiss financed IWRM project in Fergana Valley (leaded by ICWC and IWMI) with involvement GWP CACENA, UNDP and CapNet

iii. Universities of Helsinki and Montana ready to cooperate for growing new generation of water leaders

Some ideas on follow-up activities after 5th World Water Forum:

- Meeting of ICWC in April 2009 – to discuss outcomes of the 5th World Water Forum and follow-up activities.
- Meeting of Presidents of the IFAS countries in Kazakhstan – to discuss further Joint Aral Sea program activation.
- Give input to the “Wider Europe Initiative” proposed by Finland on its water component
- Cooperation with Helsinki University of Technology on a 2009-2010 Caucasus curriculum on IWRM for young water professionals

- A number of working regional meetings under umbrella of “Transboundary Dialogue” to discuss progress on interstate agreements, which are under preparation with support from ADB and conducted by EC IFAS (certain contribution to dialogues will be made by GWP CACENA with involvement of Finland).
- Launching new program for CACENA jointly with WWC and IUCN “Water Governance” – summer 2009 (expected Finland involvement – details will come later).
- Special session during Regional Asian Conference of ICID in December 2009 – to discuss further collaboration program for the Central Asian countries.
- Preparations for the 2nd Asia-Pacific Water Summit to be held in Singapore in June 2010

Additional information available at: www.cawater-info.net, www.gwpcacena.net

Annex 4 [Appendix IV, Item 4 (4.1)]

SPECIAL WORK TEAM ON ARAL SEA BASIN (ST-ARAL)

APWF and Aral Sea Basin

One of the decisions in the 4th WWF held in Mexico in 2006 was to involve the region's water ministers and establish an effective mechanism that will encourage more collaborative efforts on water resources management. It was hoped that this will accelerate the process of integration of water resources management for the socio-economic development effectively in the Asian and Pacific regions. This resulted in the creation of an Asia-Pacific Water Forum (APWF).

The 1st meeting of APWF was held in Beppu, Japan in December 2007. The forum identified that the 'Aral Sea Basin' agenda is unique and is of the global importance and recommended a UN recognition for concerted action.

- In the 1st Asia Pacific Summit, while making the speeches by the heads of the Government pertaining to Central Asian Countries, the President Republic of Tajikistan and Vice Prime Minister of Kyrgyzstan agreed that the economy and vulnerability of water related disaster need a cooperative approach. This was particularly so to solve water related issues including those of the ASB. Increasing investment levels, particularly in rehabilitating their country's ageing water infrastructure were asked for and mentioned that it require immediate attention.
- In the 1st Asia Pacific Summit, the Asian Development Bank (ADB) reported on their commitment to boost water investments in the ASB region. The intended outcomes of the ADB Water Financing Programme (WFP), which was launched in the 4th WWF by the ADB for a new five-year WFP, were also presented in the meeting. The WFP will direct new investments at rural communities, cities and heart of the water sector, river basins. Under the WFP, the ADB enhanced actions of interest in water. Well over US$2 billion annually was allocated between the periods 2006 -2010 (4th WWF Synthesis, 2006).

Aral Sea Panel Session on 'Commitment for Ensuring Water Security in the Aral Sea Basin – Cooperation versus Competition' was organized during the 1st APWS. The summary report of the session follows:

The Aral Sea crisis is the disaster of the 20th century. It will require huge efforts to solve the Aral Sea basin problems. Efforts have been made in last 15 years, but many problems still remain to be solved. The Large Sea is shrinking continuously. The problem is worsening due to global climate change, population growth and economics of the Central Asian countries.

The Aral Sea Panel Session has been organised to discuss existing problems and propose new initiatives to achieve sustainable water management in Central Asia.

The session was Chaired by President of the World Water Council Mr. Loich Fauchon and attended by the President of the International Fund for saving the Aral Sea, President of the Republic of Tajikistan H.E. Mr. Emomali Rahmon, officials from Central Asian countries, representatives of the international organizations, academics, NGOs, private sectors and media. The problems of the Aral Sea Basin in the context of the Priority Themes of APWF were discussed within the framework of the session. The initiatives proposed were:

- Offer the International Fund for saving the Aral Sea; the status of the United Nations Institute for coordination of activities of international organizations and donors. Also announce the Aral Sea Basin as the priority region for achieving the Millennium Development Goals.
- Support the initiative of the Government of the Republic of Tajikistan about organization of an International Conference on water related disaster reduction in 2008 in Dushanbe, during which the outcomes of the 1st Asia-Pacific Water Summit were shared.
- Promote the creation of the Aral Sea Basin Public Water Council.
- Create a Central Asian sub-regional Centre of the Asia-Pacific Water Forum in Dushanbe, Republic of Tajikistan.

APPENDIX V [PCSPOA Item 8]

Minutes of the Twentieth Meeting of the
AFRICAN REGIONAL WORKING GROUP (AFRWG)
6 December 2009: 14.15-18.00 hours
New Delhi, India

Year of Establishment: 1994

Mandate: To promote links and networking among the African countries as well as regional and international institutions for enhancing cooperation and coordination, and to support integrated river basin development, training and research issues and information system for African needs.

Members present: (1) Dr. Adama Sangare, Acting Chairman (Mali, 2008); (2) Secretary General, ICID represented by Dr. S.A. Kulkarni, Executive Secretary, ICID.

Permanent Observer: Mr. Andrew Sanewe, SARIA representative (South Africa).

Members Honoraire present: (i) VPH Henri Tardieu (France) and (ii) VPH Felix Reinders (South Africa).

Observers: (i) Mr. Jabbar Aziz Beigi (Iran); (ii) Ms. Mohadiaa (Egypt); (iii) Mr. Andre Roux (South Africa); (iv) Mr. Abdoulaye Dembele (Mali); and (iv) Mr. Azim Ashyeri (Iran).

Note: Dr. Sizwe Mkhize, Chairman, AFRWG vide his e-mail of 14 September 2009 informed the Central Office that he may be relieved from the Chairmanship, owing to his intense engagement in the new job. In absence of the Chairman, Dr. Adama Sangare, Vice Chairman agreed to Chair and conducts the proceedings of the meeting. Subsequently, the Group will elect/ nominate a new Chairman during the meeting.

Website: http://www.afrwg.icidonline.org

Item 1 : Confirmation of the minutes of the 19th meeting held at Lahore

The minutes of the 19th meeting of the Working Group held at Lahore in October 2008 were confirmed

Item 2 : Review of membership of the group, permanent observers, and countries

2.1 Membership of the Group

No new nominations were received for the membership of the WG.

As Dr. Sizwe Mkhize (South Africa) has stepped down from the Chairmanship of the WG, Group nominated Dr. Adama Sangare (Mali) as new Chairman. The Group also nominated Dr. Andew Sanewe (South Africa) and SARIA representative as new Vice Chairman.

2.2 Membership of African countries

At present, from Africa Region ICID has 8 active member countries, 15 deemed to be inactive countries, and 4 countries were admitted but not paid their subscription.

At the Lahore meeting, it was observed that countries with established forums (i.e. ARID and SARIA, IPIA) should use the AFRWG platform to enhance their activeness and ICID membership. It was noted that the Central Office had corresponded with the National Committees of Algeria (CNAID), Angola (ANGCID), Ghana (GHANCID), Kenya (KENCID), Libya (LICID), Madagascar (MADCID), Malawi (MILCID), Mozambique (MOCID), Senegal (SENCID), Sudan (SUCID), Tanzania (TANCID), Uganda (UGCID) and Zimbabwe (ZICID) for their reactivation, but there was no response from any country.

The Central Office had also written to Botswana, Guinea, Mauritania, Togo, Namibia and Swaziland for new membership. Countries of Burkina Faso, Chad, Mauritius, and São Tomé and Príncipe whose membership application had been accepted by IECs at previous meetings, to pay their membership subscription to formally effect their membership. The Central Office had appraised the VPs in charge of the region of these efforts so as to facilitate `follow-up' action from their side. Central Office had written to Cameroon. In response, Cameroon had sent its application for the membership in July 2009. *(The Cameroon's application was put up at the 60th IEC meeting held at New Delhi on 10 December and since been accepted and approved for the ICID membership).*

Dr. S. A. Kulkarni, Central Office, ICID explained the procedure for a country to join ICID and also the methodology to workout annual membership subscription. He said that a detailed information on "How to apply for Membership"; "On-line Computation of Annual Subscription"; and "Application Form" is available on ICID website http://www.icid.org/index_e.html.

The Group suggested to reconsider the membership fees to encourage the African countries to join ICID and also that the Central Office to extend communication to the non-member countries to keep them abreast of ICID activities.

A. CONTINUING ITEMS

Item 3 : Progress on the implementation of the Action Program for Africa

3.1 Report of the Southern African Regional Irrigation Association (SARIA) Workshop, February 2009

The Group took note of the annual workshop of the Southern African Regional Irrigation Association (SARIA) held in February 2009 at Bloemfontein, South Africa.

The SARIA representative Mr. Andrew Senewe mentioned that the workshop is held yearly and a symposium will be held in February 2010. He expressed concern about paucity of fund for hosting such events.

3.2 60th IEC and 3rd African Regional Conference, October 2009, Abuja (since cancelled)

The conference was cancelled by the Nigerian National Committee (NINCID) due to certain exigencies

3.3 4th African Regional Conference, Mali, 2011

As the 3rd African Regional Conference that was to be held in Nigeria in 2009 has been cancelled, it will now be held in Mali. Dr. Sangare told that the Mali National Committee (AMID) was already preparing for the organization of the Regional Conference.

The Central Office, ICID had written to the Minister of Agriculture, Mali to provide details on the theme, topics, and subtopic, venue and date towards hosting of the Regional Conference. Subsequently, on 1 December 2009 a meeting was held between the President of Mali National Committee (AMID) and the Minister of Agriculture. As a result of the meeting, the Minister has approved the organization of the Conference. In view of the other major ICID events to be held in 2011, Dr. Sangare said that the Conference will be held in the month of September 2011.

Mr. Dembele, President of the Mali National Committee (AMID) made a presentation on the land and water resources and the potential of Mali. A video on the success of the Office Du Niger (*Large scale irrigation system covering more than 100,000 ha*) was also shown.

Item 4 : Three-year work plan of the Group

Due to scarce attendance of members at the meeting, the three-year work plan of the WG could not be discussed. The new Chairman and Vice Chairman therefore proposed to postpone the discussion to the next meeting to be held in Indonesia in October 2010. Chairman requested all members, ARID, SARIA, IMAWESA and representatives of other African Organizations to provide their ideas/ activities to him well in advance of the next meeting to formulate a framework of activities within the mandate of the WG.

Central Office was requested to circulate the draft work plan, once ready to all members and observers.

Item 5 : Cooperation with other Working Groups and International Organizations

5.1 ICID Working Groups

The decision about members to serve as liaison persons on related ICID workbodies for effective exchange of information and collaboration was discussed during the New Delhi meeting.

It was also proposed that Dr. Sanewe, Chairman, SARIA will act as a liaison person to Special Work Team on Lake Chad Basin (ST-LCB); while Chairman Dr. Sangare, who is also the President of ARID will liaise with Working Group on the Role of Irrigation in Poverty Alleviation and Livelihood (WG-POVERTY). Chairman will also nominate a member to liaise with Asian Regional Working Group (ASWRG).

5.2 Focus on Africa

At Sacramento in 2007, the Internal Review Special Committee of PCSPOA had recommended that under the "preference for Africa" there could be two Vice Presidents in charge of Africa, instead of one, in particular to link with regional initiatives and associations (Lake Chad, ARID, SARIA, NEPAD, etc.). WG appreciated the recommendation but expected more action on ground.

It was reiterated that more African National Committees need to become active by contributing to WG activities. Central Office of ICID was requested to facilitate contact between Nationals Committees and donors for supporting their activities.

5.3 High Level Conference on "Water for Agriculture and Energy in Africa: The Challenges of Climate Change, Libya

The Group took note of the Sirte event held in December 2008 in Libya and about Secretary General, ICID's participation in the Conference.

It was brought to the attention of the group that Consultants are deployed to develop documents for AgWA. The Group proposed that SARIA and ARID may liaise with AgWA to offer their support and willingness to collaborate by way of providing technical input and hosting/ organizing workshops.

5.4 Collaboration with the 'Improved Management of Agriculture Water in Eastern and Southern Africa (IMAWESA)'

There was no representative of IMAWESA to provide a report.

It was informed that the IMAWESA would be launching its Phase II in April 2010 (IMAWESA 2) and will be linked to AGWA as a regional (Eastern and Southern) association.

5.5 AquaCrop Workshop, Burkina Faso

The Central Office had circulated among all member countries of Africa an announcement, as received from FAO, about an AquaCrop Workshop on "Capacity Development for Farm Management Strategies to Improve Crop-Water Productivity using AquaCrop". The training workshop was organized for western Africa from 27-31 July 2009 at Ouagadougou, Burkina Faso. Many delegates from West Africa Countries participated in this training workshop.

The next AquaCrop workshop will be held in South Africa in March 2010. This workshop will be focused on countries in Southern Africa and Cameroon.

5.6 African Ministerial Conference on Environment (AMCEN), Nairobi, Kenya

No feedback of the Conference was available.

Item 6 : Publicizing Working Group's activities through a Newsletter and other international publications

Chairman urged all members to contribute information/ article so as to bring out "AFRWG Newsletter". The Newsletter can include information about AgWA, SARIA, ARID and National Committees in Africa etc. The Chairman nominated the Chairmen of ARID and SARIA to compile/ edit and prepare the WG Newsletter on regular basis. The Central Office will offer its full assistance in bringing out the Newsletter.

Item 7 : Webpage of the AFRWG

The Group's webpage http://www.afrwg.icidonline.org/ is active and has a lot of information for members to make good use. Central Office had added some more information/ links of interest to WG activities to the webpage.

Members were encouraged to visit the links/ documents and also provide related documents to the Central Office for posting on the webpage.

Item 8 : Report of the Task Force for Identifying Priority Issues for Least Developed Countries (LDCs) in Africa

Few copies of the draft final report of the Task Force were available for perusal at the meeting. The report will be discussed on Monday, 7 December during the TF-LDCs-AF meeting. Members were encouraged to submit their ideas, comments and suggestions to Engr. I.K. Musa, Chairman, TF-LDCs-AF at majidadimusa@ yahoo.com for consideration.

Item 9 : Any other business

All those present were informed about the following:

- AgWA meeting and 2nd African Water Week took place in Johannesburg in November 2009
- The 8th World General Assembly of the International Network of Basin Organizations (INBO) will be held 20-23 January 2010 in Dakar, Senegal. The meeting is open to all INBO member organizations and permanent observers and also to all the water administrations and organizations worldwide, interested in Integrated Water Resources Management (IWRM) at the level of river basins and in adaptation to the impacts of climate change.

APPENDIX VI [PCSPOA Item 15]

Minutes of the Fifteenth Meeting of the
WORKING GROUP ON YOUNG IRRIGATION PROFESSIONALS FORUM (WG-YPF)
New Delhi, India
07 December 2009: 09.30-13.15 hours

Year of Establishment: 1993

Mandate:

- To provide an international platform for young irrigation and drainage professionals and to encourage and promote amongst the young professionals a high standard of professional development in the subjects of irrigation, drainage and environment.
- To facilitate the development, acquisition and wider dissemination of knowledge and information about irrigation, drainage, flood control and environment amongst the young professionals.
- To maintain and enhance links with national and international youth having interests in the related subjects or the activities relevant to ICID objectives.
- To educate young professional about ICID's role, objectives, activities, structure, constitution and Bylaws.

Members Present : (1) Mr. Ali Reza Salamat, Chairman, 2003 (Iran, 2000) represented by Mr. Houman Khaledi; (2) Dr. Sanjay Belsare, Vice Chairman, 2005 (India, 2003); (3) Dr. Bennie Grové (South Africa, 2003) represented by VPH Felix Reinders; (4) Engr. Qazi Tallat Mahmood Siddiqui (Pakistan, 2006) represented by Mr. Husnain Ahmad; and (5) Mr. Velayudan, SV. Kalaiselvam (Malaysia, 2006) represented by Dr. Nor Azazi Zakaria.

Observers: (1) Dr. Takanori Nagano (Japan); (2) Dr. C. Venkata Reddy (India); (3) Dr. C. H. Sreenivas (India); (4) Dr. Mohammud Che Husain (Malaysia); (5) Mr. Piyush Ranjan (India); (6) Mr. S. Vishnu Vardhan (India); (7) Mr. Tetsuya Oishi (Japan); (8) Mr. Shinsuki Hara (Japan); (9) Dr. Muhammad Arshad (Pakistan); (10) Dr. Rai Niaz Ahmed (Pakistan); (11) Mr. Rambhau Shirode (India); (12) Mr. Prashant Gupta (India); (13) Dr. Kiwook Park (Korea); (14) Dr. Mohamad Amin Mohamad Soom (Malaysia); and (15) Dr. Vijay K. Labhsetwar (ICID Central Office).

(In absence of Chairman, Dr. Sanjay Belsare, Vice Chairman conducted the meeting.)

Website: http://www.wg-ypf.icidonline.org/

Item 1 : Confirmation of the minutes of the 14th meeting of the WG-YPF

The minutes of the 14th meeting of the Working Group held on 13 October 2008 at Lahore (Pakistan) were confirmed.

Item 2 : Review of the membership of the Working Group

2.1 Membership of the Group

(a) Past nominations

The nomination of Ms. Kartabayeva Irina Anatolyevna (Kazakhstan) was deferred till next meeting in 2010 since she was neither present nor represented in the meeting.

(b) New nominations

The Indian National Committee (INCID) has nominated Mr. Piyush Ranjan (India) in place of Dr. Sanjay Belsare for the membership of the Working Group.

The Iranian National Committee (IRNCID) has nominated Mr. Houman Khaledi (Iran) in place of Mr. Ali Reza Salamat for the membership of the Working Group.

The Japanese National Committee (JNC-ICID) has nominated Dr. Takanori Nagano (Japan) in place of Mr. Hidekazu Tagashira for the membership of the Working Group.

Chairman welcomed new nominees to the Working Group meeting. Nominees then briefly introduced themselves to the Working Group. Their nominations were accepted.

The nominees from RUCID and PANCID were not present and hence their nominations were deferred till the next meeting in 2010.

(c) Non-attendance/ contribution

From the attendance and contribution record of Central Office, it was observed that Ms. Jianxin Mu (China) and Ms. Nepveu de Villemarceau Audrey (France) have neither attended the meetings of the Working Group nor contributed to the activities of the WG through correspondence for the last two consecutive years (2007 and 2008). Fresh nominations may be invited from the concerned National Committees with an assurance that the new nominees would contribute to the activities of the WG. Contribution through correspondence is considered as active participation, in case nominees are unable to attend meetings for want of funds.

It was also proposed by some attendees to raise the age from 40 to 45 years for being considered as young professionals.

It was also decided that follow up actions be taken up by the Chairman in cooperation with Central Office.

2.2 Election of Chair and Vice Chair

As Mr. Ali Reza Salamat (Iran), Chair and Dr. S.M. Belsare (India), Vice Chair have completed 40 years of their age and therefore they will not be able to continue as members of WG-YPF. They expressed their thanks to the WG members as well as ICID for their support and cooperation. They desire to continue to support the activities of the WG as observers.

The issue of election of new Chair and Vice Chair was differed in view of scarce attendance of members. Mr. Ali Reza Salamat may continue as Interim Chairman of the WG till the next meeting in October 2010 or a consensus choice is made via virtual discussion, whichever is earlier.

A. CONTINUING ITEMS

Item 3 : Review of the progress made by the National Committees in establishing Young Professionals Forum (YPF)

The Chair stated that 23 National Committees have established their Young Professional Fora. The Central Office already pursued the matter with other NCs to establish a Young Professionals Forum (YPF) in their respective NCs. In response, NETHCID has informed the Central Office that they will continue to encourage the involvement and participation of young professionals in ICID activities but were not inclined to establish an YPF.

Pakistan National Committee (PANCID) is making efforts to establish the young professional forum of ICID. They have so far drafted the by-laws of the YPF-Pakistan and have circulated it among different universities for comments. So far five Universities have provided their comments on the by-laws. YPF-Pakistan is waiting for more comments. PANCID was requested to submit approved by-laws to Central Office in due course.

Chair/Central Office will continue to pursue the matter of establishing YPF in more NCs.

Item 4 : Review of the progress on preparation of a directory of Young Professionals

So far, France, India, Japan and South Africa have prepared their own country directory of Young Professionals. Actions from other NCs such as Russia, China, Pakistan and Malaysia are awaited.

The Central Office has already forwarded a sample format of the questionnaire to those NCs who have not yet prepared their directories of Young Professionals. The Chair invited the above mentioned NCs to frame their own YPF directories to be sent to the Central office with a copy to Chair.

The Malaysian representative mentioned that they will submit their directory in due course. Indian, Iranian and Japanese representatives agreed to update and expand their directories soon.

Item 5 : Establishment of a Network of Young Professionals through development of a web-based platform

During last meeting, the updated WG website www.wg-ypf.icidonline.org was demonstrated. To move further, the Central Offices already requested all members to review the WG's updated webpage and send their suggestions/ comments. It was further requested to send their contact details (*those who have not yet provided*) to Chair for inclusion in the webpage.

During last meeting, Dr. Maurits Ertsen (The Netherlands) demonstrated the online web-based platform and agreed to send invitation letters to those who are interested in sharing the knowledge and information via this facility. This facility will provide an opportunity to gather the information on the latest events to be held for the young professionals and also exchange information with other members. This platform operates under the supervision of the Dutch Organization of Higher Education. Members were requested to get in touch with Dr. Ertsen <m.w.ertsen@tudelft.nl> in this regard.

Chairman requested to actively use this platform for exchange and sharing information which will result into strengthening WG-YPF. It was decided to follow up this issue with members and NCs.

Item 6 : How to activate Young Professionals

The chair discussed various initiatives, as given below, taken so far to activate young professionals in ICID activities.

- Nomination of a young professional from each National Committee as an additional member in each Working Group of ICID;
- Contribution of papers by young professionals for publication in ICID Journal; and
- Participation/nomination of young professionals in WatSave Awards.

It was appreciated that the above initiatives were taken by ICID to activate YPF, but these were apparently not sufficient to enthuse the young professionals to join YPF. It is high time that some concrete measures are taken to rejuvenate this group, as today's young professionals will be tomorrow's ICID's pillars. The following measures could be considered:

- Making obligatory to NCs to nominate an additional young member in each Working Group of ICID.
- NCs shall ensure the participation of young professional member in their delegation to ICID events.
- Full waiver of registration fee to WG-YPF member as well as other young professionals participating in the ICID events.
- Providing sponsorship and inexpensive accommodation to WG-YPF members when possible.

It was decided to take up the matter with PCSPOA and follow up with Central Office and NCs to encourage young professional's participation in ICID events.

Item 7 : Future activities of the WG

It was decided to focus on consolidating present activities of WG-YPF. It was also decided to provide some time slot for YPF presentations during regular annual meetings of WG-YPF at the time of IECs and perhaps a full day for YPF activities during ICID triennial Congresses.

Item 8 : Current activities of YPF members

All YPF members were asked to send a copy of their new publications to the Central Office for keeping them in its archive. The members were also asked to send a brief of their current activities to the Chair for its coverage in the yearly Newsletter of the WG-YPF with a copy to Central Office.

Item 9 : Papers for Publication in the ICID Journal and Newsletter

ICID Newsletter is published every three months. The CO may consider one page summary of those papers of the young professionals which are approved by the Scientific Committee for Newsletter. The ICID Journal on Irrigation and Drainage publishes five issues per year besides special (sponsored) issues from time to time. The procedure for preparing papers for the ICID Journal is well explained in the Journal website <http://www3.interscience.wiley.com/cgi-bin/home>. Members are requested to prepare and send their papers for publication in the ICID Journal (published by M/s Wiley Blackwell, UK).

Item 10 : YPF Newsletter

The YPF Newsletter was disseminated among the members of the WG as well as observers. The electronic version of the Newsletter was posted on the WG-YPF website for its easy access. All members of the Working Group were invited to provide information related to the activities of their YPF, so as to incorporate the same in the forthcoming issue of the YPF Newsletter. All National Committees were requested to send relevant news to Chair.

It was also decided to share the YPF Newsletter through e-mail besides making it available on the WG webpage.

Item 11 : Encouragement for participation of Young Professionals in WatSave Awards

The Chairman, WG-YPF stated that WatSave awards are being presented in 3 categories since 1998. One of the awards is allocated to the best work carried out by the young professionals in the field of water saving techniques. Chairman requested all members to compete in WatSave awards 2010 by sending their best works or performance in water savings through their National NCs to ICID Central Office.

Item 12 : Any other business

As there were no other issues for consideration, the meeting ended with vote of thanks to the chair.

APPENDIX VII [PCSPOA Item 14]

Minutes of the Twentieth Meeting of the
COMMITTEE ON CONGRESSES/CONFERENCES (C-CONGR)
New Delhi, India
07 December 2009 : 0930-13:15 hours

Year of Establishment: 1990

Mandate: To recommend general improvement in conduct of Congresses/Conferences sessions; to recommend tasks and duties for General Reporters and Panel of Experts for Congress Questions and Special Session; to study and establish, if needed, the basic guidelines for recommending the tasks and responsibilities of National Organizing Committees; to establish appropriate procedures for selection of Congress Questions, Special Sessions and Symposia; to establish procedures for scheduling of most appropriate workshops, seminars, etc. to be held at the time of Congress; to make recommendations on the number and type of simultaneous meetings at Congresses/Conferences in order to improve effectiveness and attendance; to study and accord advice to the National Committees, for methods to adopted in each case for an effective follow-up of the Conclusions and Recommendations of Congresses/Conferences; and to make recommendations on printing the proceedings for distribution of abstracts in advance.

Members present: (1) Vice President Hon. Dr. S. Nairizi (Iran) representing Mr. Mohammad Kazem Siahi, the Convener; (2) Vice President Dr. Illahi B. Shaikh (Pakistan) represented by Mr. Hussain Ahmad; (3) Indian Representative Mr. Yogesh Paithankar; (4) The Netherlands Representative Dr. H.C. Toussaint; (5) Indonesian Representative Vice President Dr. A. Hafied A. Gany; (6) Ukraine Representative Vice President Dr. Peter Kovalenko; and (7) Dr. Vijay K. Labhsetwar, ICID Central Office.

Members Honoraire Present: (i) Prof. Dr. Chandra A. Madramootoo (Canada), President, ICID; (ii) Mr. Peter S. Lee (UK), President Hon. ICID; (iii) Vice President Hon. Felix Reinders (South Africa); and (iv) Er. M. Gopalakrishnan, Secretary General, ICID.

Observers : (i) Mr. Enayatollah Farahani (Iran); (ii) Dr. G. Abbas Rikhtechi (Iran); (iii) Dr. Reza Dafari Manesh (Iran); (iv) Dr. Syed Mansoob Ali Zaidi (Pakistan); (v) Mr. Mohd. Amin Mohd. Soom (Malaysia); (v) Ms. Mega Handojo (Indonesia); (vi) Mr. Syaiful Mahdi (Indonesia); (vii) Mr. Mehrzad Ehsani (Iran); (viii) Dr. Jin Taek Kim (Korea); (ix) Dr. Mohammad Sadegh Jafari (Iran); (x) Dr. Rambhau Shirode (India); (xi) Dr. Kwadgsoo Parak (Korea); (xii) Mr. Tai Cheol Kim (Korea); (xii) Mr. H. Y. Narayanan (India); (xiii) Mr. Olga Zhovtong (Ukraine); (xiv) Dr. N. Tankeshdoor (Iran); (xv) Dr. Atfar Zaden (Iran); (xvi) Dr. S.A. Assadollahi (Iran); and (xvii) Dr. Mostafa Vafanzadeh (Iran).

Website: http://www.c-congr.icidonline.org

Item 1 : Confirmation of minutes of the 19th meeting of the C-CONGR

The minutes of the 19th meeting of the C-CONGR at Lahore, Pakistan were confirmed.

Item 2 : Review the membership of the Committee

The Committee is composed of a Convener, who will be a member of the Organizing Committee of the next Congress and 6 other members to be appointed as follows: One member of each of the Organizing Committees of the previous and next to immediate next Congresses, two members of the two previous Organizing Committees and two future IEC meetings. The basic composition might be completed by addition of one member of the Organizing Committee of each of the Regional Conferences held during the past and the future Congress, unless it coincides with an IEC Meeting.

Accordingly, the Central Office may continue to invite nominations from the concerned National Committees.

Item 3 : ICID Congresses on Irrigation and Drainage

3.1 Feedback from the 20th ICID Congress on Irrigation and Drainage (2008) in Lahore, Pakistan

Mr. Hussain Ahmad (Pakistan) briefly informed the committee of the successful organization of the Lahore Congress (details are available at annex 1 of the agenda). The Guidelines (at Annex 2 of the Agenda) are quite comprehensive and so far have been utilized by the concerned National Committees successfully. The Committee opined that no more additional notes are required at this time.

3.2 Review and discuss the preparations of the 21st ICID Congress (2011) in Tehran, Iran

Mr. Ehsani from Iran explained the preparations for the 21st ICID Congress via an excellent Power Point Presentation, stressing on the theme *"Innovation in Technology and Management on Micro Irrigation and water resources technology".* He informed the members that the Congress website is routinely updated and invited the National Committee to visit the website for latest information. He requested the members to provide a link to the Congress website through their country's website

3.2.1 Topics and Sub-topics of the 21st ICID Congress

The members noted the Topics and Sub-topics of various events for the 21st ICID Congress. The detailed scopes of the Questions (Nos 56 and 57), Special Session, Symposium, History Seminar and the 8th International Congress on Micro Irrigation are available in Annex 3 of the PCTA Agenda (Page A-96).

3.2.2 General Reporters / Panel Experts

As per IEC directives, the General Reporters (GRs) and Panel Experts (PEs) for a Congress are to be recommended by the Permanent Committee for Technical Activities (PCTA) based on the nominations received from National Committees.

The GRs and PEs (and their alternates) for the two basic Questions and Special Session of Tehran Congress (2011) have been identified in MB. This was reported in 60th IEC.

Item 4 : International Executive Council Meetings (IECs)

4.1 Feedback from the 59th International Executive Council (IEC) 2008, Lahore, Pakistan

Mr. Hussain Ahmad (Pakistan) informed the committee that due to the security reasons, the number of participants was below the original expectation. However, it is expected that the guidelines (at Annex 2 of the Agenda) for the conference should be strictly implemented for successful organization of the ICID events.

4.2 Review and discuss the progress of the 60th IEC meeting during 5-11 December 2009 at New Delhi, India

Indian Representative Mr. Yogesh Paithankar briefly explained the preparations made by INCID. He made following two suggestions:

- To get more participation, INCID suggested to contact potential individuals and organizations (other than ICID family) who may be interested in ICID Activities e.g. through the respective embassies in the organizing country
- The list of organizations and sponsors that have been contacted by INCID will be made available to other National Committees that are expecting to host ICID events.

4.3 Review and discuss the preparations for the 61st IEC meeting during 10-16 October 2010 at Yogyakarta, Indonesia

Vice President Dr. A. Hafied A. Gany (Indonesia) reported the progress on committee formation, information dissemination, topic, sub topic, venues and accommodation together with the status of website that can now be accessed at www.icid2010.org He further informed that the details of the 61st IEC meeting will be announced and placed on the website after getting confirmation from the Central Office of ICID.

4.4 Review and discuss the preparations for the 62nd IEC meeting during 15-23 October 2011 at Tehran, Iran

Mr. Ehsani (Iran) explained that the details of the 62nd IEC meeting will be announced and placed on the website after getting confirmation from the Central Office of ICID.

Item 5 : Regional Events

5.1 Feedback from the 23rd European Regional Conference

Mr. Olga Zhovtong (Ukraine) informed the committee as below:

- Ukraine National Committee successfully conducted the 23rd European Regional Conference with special focus on Water, food and rural development; Integrated Water Resource Management; and Rural Development.
- Declaration has been made on irrigation, drainage, flood control and environment, expecting the participants to have more concern for others with more efforts to improve their working condition and project implementation. Participation of local people to work together with the government and other sectors was highlighted.
- Young Professionals Forum was conducted successfully during the 23rd European Regional Conference.
- Due to language problem, most people from Ukraine speak Russian, they expect to have more publications in Russian, or information can be made available in Russian language on Russian website.
- It was further suggested that farmers, business sectors and local stakeholders may be invited in the conference for comprehensive dialogue.

5.2 Feedback of the 3rd African Regional Conference during 11-14 October 2009 at Abuja, Nigeria

The representative from Nigeria was not available to provide feedback on the 3rd African Regional Conference (AfRC). *(The 3rd African Regional Conference could not be held at Abuja as scheduled and has been deferred. However, the upcoming Mali Conference in Africa shall be designed as 3rd AfRC.)*

5.3 Review and discuss the progress for the 5th Asian Regional Conference during 6-11 December 2009 at New Delhi, India

The Indian Representative Mr. Yogesh Paithankar informed that some difficulties were faced due to short time available for preparing for the conference and hence affecting the implementation of the planned actions.

5.4 Review and discuss the preparations for the 6th Asian Regional Conference during 10-16 October 2010 at Yogyakarta, Indonesia

The Indonesian representative informed that preparations have been going on well and all the information can be accessed through the conference website at www.icid2010.org. The website is being regularly updated.

Theme and Sub-Themes of the Conference

Theme: "Improvement of Irrigation and Drainage Efficiency through Participatory Irrigation Development and Management under the Small Land Holding Conditions".

Sub-Themes:

1. Irrigation under the Escalating Water Scarcity and the Issue of Agricultural Land conversion and Fragmentation;
2. Challenges for Irrigated Agriculture under the Small Land Holders in the Approaching Decades :

    a. *Irrigation Water for Food Security;*
    b. Irrigation Water for Supporting livelihood;
    c. Irrigation Water for Supporting Environment.

3. Participatory Irrigation Development and Management under the Small Land Holding Conditions.

4. Multifunctional roles of Irrigation Water and the Role of Sustainable Balance of Ecosystem under the Small Land Holdings;

5. Synergizing of the Small and the Large Holder Irrigation under the Rapid Development of Rural and Urban Infrastructures.

5.5 The French National Committee proposed an additional European Regional Conference to be held in Orléans, France in December 2010

The Committee noted that the French National Committee of ICID (AFEID) proposes to hold an European Regional Conference (ERC) ahead of the planned one in The Netherlands in December 2011. The AFEID had liaised with the Netherlands National Committee of ICID (NETHCID) on this matter. AFEID has highlighted that there would not be any interference of clash of themes between the two Conferences. The AFEID intends to focus on '*Groundwater resource : an essential resource to be saved and managed"* in their conference (*Annex 3 of the minutes of ERWG*) while the one planned by The Netherlands will focus on '*Development of Tidal Areas*'. PCTA is being apprised of the new event, later on 09 December 2009.

Due to the above development, the European Regional Conference being proposed by AFEID would be numbered as 24th European Regional Conference (2010) to be held in Orléans, France. The 25th European Regional Conference therefore will be held in The Netherlands (renumbered).

5.6 Review and discuss the progress of the 4th African Regional Conference (2011) in Mali

There was no report available on preparations for the 4th African Regional Conference (2011) in Mali. However, Secretary General M. Gopalakrishnan informed that Mali is very keen to host the Regional Conference. This conference is being renamed as 3rd African Regional Conference as African Regional Conference did not take place in Nigeria (see Item 5.2 above).

5.7 Review and discuss the progress of the 25th European Regional Conference (2011) in The Netherlands

Dr. H.C. Toussaint (The Netherlands) informed that the preparations for the 25th European Regional Conference (2011) in the Netherlands have been going on well (*Annex 4 of the minutes of ERWG)*. They will be focusing on the theme: "*Integrated Water Management for Multiple Land Use in Flat Coastal Areas*" from 16 to 20 May 2011 in Groningen, The Netherlands.

Issues and themes

Topic I Multiple Land-use (Integrated Water Management for multiple Land-use in flat low lying coastal areas).

Topic II Fresh Water Management and Salt intrusion - Tidal Water Management cases (e.g. Venice, Italy, St. Petesburg, Russia).

Topic III Flood Risk Management - Flood Risk Management on Flat Coastal Areas under the influence of changing storm surges, subsidence and impacts of climatic changes in land use.

Topic IV Institutional Arrangements and History - Institutional arrangement for Water Management and flood protection, such as water board and the role of government provinces, communities and non-governmental organization e.g. in the framework of Integrated Coastal Zone Management (ICZM).

Item 6 : Website of C-CONGR

Website of C-CONGR should always be updated to include new information on ICID events. It is important that the National Committees inform the central office in time, so that it can be facilitate to spread the information to other countries.

Item 7 : Any other business

Thanks to the efforts of President Hon. Peter Lee, some desirable steps have been outlined for study tours as seen in **Annex**. All Organizing Committees may carefully study to implement these guidelines prepared for the conference / technical tours.

It is important to take note of the other water related events in the world so that ICID events don't overlap with them.

Annex [Appendix VII, Item 7]

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE
GUIDELINES FOR CONFERENCE TOURS

Types of Tour

There are four categories of tour dealt with here:

1. One-day or half-day tours, usually held during the conference, which may or may not be provided within the registration fee for the conference.

2. Post-conference tours provided at extra cost and lasting 1-3 days (and sometimes longer).

3. Networking tours, similar to 1.but held before the conference starts to provide an opportunity for the delegates (and accompanying persons) to get to know one another and the region of the conference.

4. Ideally such tours should be offered at little or no extra cost to the delegate.

5. Accompanying person's half-day tours and visits, which are generally non-technical. These may be arranged with a tour company, but tours that are run by or involve the conference organisers (or their families) are more personal and greatly appreciated. The costs of such tours and visits can be additional to the accompanying person's registration fee, but the cost should be competitive with tours available to ordinary visitors.

A good programme of such tours can contribute very positively to delegate numbers, and add greatly to the enjoyment of the conference and its venue.

More than one choice of tour may be offered in the case of category 1, 2 or 4, but not 3. In case there is insufficient interest in a particular tour, delegates should be warned that it may be cancelled. If delegates are asked to express a second or third choice then this can help in arranging a satisfactory alternative.

Content of Technical Tours

For nearly all delegates, participation in a technical tour (categories 1, 2 and 3 above) and especially any extra cost must be justified by the tour's technical value. Tours may also have touristic, social or cultural content but the technical component is paramount and essential.

For some delegates, the technical content may be satisfied by a visit to an engineering installation, but these days , more and more delegates are seeking opportunities to study water management in a more integrated context and interact with end-users (the farmers especially). The social, financial and management aspects of agricultural water management are of growing interest.

Planning Stops

The tour should aim to have a stop at intervals of no more than every 1-2 hours. These stops should be planned for delegates to appreciate environmental, historical or economic aspects relevant to managing water for sustainable agriculture.

A brief stop to inform delegates that the tour is crossing a notable waterway, or moving into a particular catchment or agricultural region is enough to break the journey and add technical value.

Some tour companies like to give time for delegates to stop at shops where possibly they get a commission. Such stops are not appropriate for technical tours and tour companies need to be used with caution.

For stops to be of real value, there should be a clear schedule (provided beforehand) with the names of places, organisations and people to be met, and a map of the route and if appropriate a plan of the scheme in its geographical context.

Some delegates have to submit reports to their sponsors and/or they may have difficulty with the language. Printed information is especially helpful here.

Keeping to Time

It is important that the tour is not too ambitious and keeps to time. The route should be reconnoitered beforehand, allowing that the speed and access of the bus may not be easy.

A time should be scheduled for each stop and on the day, the delegates should be given a time and signal to re-board the bus.

It is very beneficial if member/s of the organising committee travel with the tour to provide guidance and answer questions between stops.

A following car may be useful to collect those who miss the bus to avoid the common problem of 1-2 people holding up the whole tour. This may be especially important if there is an evening event or delegates are catching planes etc. An additional car may be needed to allow individual delegates to leave early if necessary.

Comfort and Safety

Toilets and refreshments should be provided. If toilet facilities are unavailable or limited at certain stops, then delegates should be warned of this. Drinking water, and possibly a toilet, should be available on the bus.

Time can be saved by providing refreshments that can be quickly consumed, and sit-down dining and a full-meal service is not obligatory. Vegetarian and pork-free alternatives are required for some delegates.

There should be a contingency plan for dealing with inclement weather (eg heavy rain), disabled access, sudden illness, accidents etc.

Security and special safety precautions (eg seat-belts) may be required or expected, and this should be part of the contingency planning.

ICID Guidelines for Conference Tours

Planning Checklist

1. Does the tour have the necessary content relevant to the broad interest of managing water for sustainable agriculture?

2. Is the tour capable of being completed in the scheduled time, looking after the comfort of the delegates?

3. Is the interval between the stops no greater than 1-2 hours and are there adequate toilet and refreshment arrangements?

4. Are the delegates provided with adequate information about the schedule, route and stops, including printed information sheets and maps giving names and other key information?

5. Who is responsible for the schedule overall and at each stop, and are there arrangements for limiting and dealing with delays?

6. Is there a contingency plan to deal with special needs and incidents?

APPENDIX VIII [PCSPOA Item 9]

Minutes of the Fifteenth Meeting of the
EUROPEAN REGIONAL WORKING GROUP (ERWG)
New Delhi, India
07 December 2009: 09:30-13:15 hours

Year of Establishment: 1995

Mandate: The mission of ERWG is to promote awareness about critical ICID relevant water issues at all levels in Europe and to pay special attention to the environmentally sustainable water management in Europe.

Members present: (1) Vice President Hon. Dr.-Ing. Eiko Luebbe, Chairman (Germany, 2002); (2) Vice President Prof. Dr. Peter Kovalenko, Vice Chairman (Ukraine, 2005); (3) Dr. Laszlo Hayde, Secretary (Hungary, 2005); (4) Vice President Hon. Prof. Dr. Brane Maticic represented by Ms. Marina Pintar (Slovenia, 1996); (5) Vice President Hon. Dr. Ricardo Segura (Spain, 1999); (6) Vice President Hon. Dr. Henri Tardieu represented by Mr. Bernard Vincent (France, 1999); (7) Mr. Jaakko Sierla (Finland, 2001); (8) Mr. Mati Tonismae (Estonia, 2002); (9) Dr. Pol Hakstege represented by Mr. Bert Toussaint (The Netherlands, 2007).

Observer: (i) Prof. Dr. Joachim Quast (Germany); (ii) Dr. Klaus Rottcher (Germany); (iii) Dr Heinz Sourell (Germany); (iv) Dr. Sandor Szalai (Hungary); (v) Dr. Ilmar Tupits (Estonia); (vi) Ms. Helena Aijo (Finland); and (vii) Dr. Olga Zhovtonog (Ukraine).

Website: http://www.erwg.icidonline.org

Item 1 : Confirmation of the minutes of the 14th meeting of the Working Group

The minutes of the 14th meeting of the Working Group held on 7 December 2008 at Lahore (Pakistan) were confirmed.

An interim meeting was held on 17 May 2009 in Lviv, Ukraine, before the 23rd European Regional Conference (2009) on '*Progress in Managing Water for Food and Rural Development'***.** Germany, Estonia, Hungary, Spain, The Netherlands, Ukraine and ICID Central Office were represented. The outcome of the meeting has been incorporated in these minutes.

Item 2 : Review of membership of the Working Group

The British National Committee of ICID (ICID.UK) has not responded to invitation from Central Office for a fresh nomination for membership in ERWG.

The National Committees of Belgium, Bulgaria, Poland and Slovak Republic have become inactive in the past. The Central Office is in contact (17 February 2009) with these National Committees for their reactivation. The Central Office has also invited (18 March 2009) Albania, Belarus, Bosnia & Herzegovina, Moldova, Norway and Sweden for fresh ICID membership. In response, Sweden has informed (01 June 2009) the Chairman that they are very interested in the working with ICID but not being able to pay the subscription. Norway showed interest as well, but for the time being they declined the offer of ICID membership. Responses from the others are awaited. The Central Office may continue its efforts in making new members.

Item 3 : Links with regional and transnational organizations for co-operation

The Chairman apprised the members on new developments/cooperation especially with regard to EWA (European Water Association), the International Commissions for Protection of the Rivers like Rhine, Danube, and Odra. The ERWG network includes 7 National Water Management Associations **(Annex 1)**.

Ongoing contacts have been made with the UN-Water Decade Programme on Capacity Development (Dr. Ardakanian, Bonn in Germany). ICID-UNU co-operation commenced during the year in an activity in Tehran – organized by UNU with cooperation from IRNCID.

The German Water History Association together with GECID received an Iranian technical group from IRNCID in Kassel, Germany, for an extended excursion on water management issues from 8-18 August 2009. This has followed the May 2008 visit of German professors and students to Iran, meeting Iranian students and visiting historical sites. In that tour the ERWG Secretary also participated on behalf of UNESCO-IHE. Dr. Röttcher reported on the great success of this cooperation.

Item 4 : Feedback on River Basin Management Projects supported by ERWG

Two projects with German participation were '*Water Management Tasks in the Summer Polders of the Nemunas Lowland*' together with Lithuania and "*Flood Modelling in the Upper Dnister Valley*" together with Ukraine. Prof. Joachim Quast (Germany) informed that these projects have now been finalised and the results would be published in English. The cooperation with both Lithuania and Ukraine will continue.

The co-operation with Ukraine was done within the framework of the joint Ukraine / German UNESCO research project "Transformation Processes in the Dnister Region (Western Ukraine) – Concept Development for Sustainable Land Use". The results of the Dnister project were published as a book, which was presented to the WG. A special symposium on the Dnister Project was held as a part of the ERC2009 at Lviv in Ukraine. The 'Lviv Declaration' (Annex 2 of the Agenda) that emerged at the end of the Conference could provide the basis for further research cooperation.

Upon successful completion of new education and training programs on knowledge for the application of best practices of river basin management by Dr. Laszlo Hayde (*UNESCO-IHE in the Netherlands*) in cooperation with Prof. Istvan Ijjas (former Secretary of ERWG), the Budapest University of Technology, the members were encouraged to contact the ministries in their countries for similar initiatives and explore ideas on further utilization of the available training materials. However, since there was no follow up on this activity it has been decided that this item will be completely deleted from the agenda of the next meeting.

Item 5 : Dialogue on Water for Food and Environment

It has been agreed to continue the co-operation among ICID-ERWG, Central and Eastern Europe Global Water Partnership (CEE-GWP) and World Wide Fund of Nature (WWF).

The Chairman asked the members to maintain cooperation with the CEE-GWP and WWF, e.g. invite their attention to participate in the ICID conferences, like the 'Drainage Workshop' held in Helsinki (Finland) and Tallin (Estonia). FINCID invited them but without any success.

ERWG members continued the dialogue on the following topic: the WFD and its implementation through tools of the Common Agriculture Policy in the years 2007-2013. The new Directives can be accessed at following websites:

<http://ec.europa.eu/environment/water/water-framework/wfd_newsletter.html> or
<http://ec.europa.eu/environment/water/>

The Chairman apprised the members on the above dialogue.

Item 6 : European Work Team on Water Related Risk Analysis (EWTWRRA)

The idea of merging of Drought and Flood Work Teams under the frame of Risk Management had been brought (2007) to the fore by Dr. Vermes (Hungary). After detailed discussions on the proposed aims, the WG accepted the idea of merging European Work Team on Drought (EWTDRO) and European Work Team on Floods (EWTFLO) to create a new Work Team under the name Work Team on Water Related Risk Analysis (EWTWRRA).

The WG deliberated on the new mandate of the WT and its membership. It seemed appropriate to consider the impacts of extreme events on agricultural production at situations of water scarcity and inundation and to develop risk mitigation strategies. The importance of the topic(s) was agreed during the discussions held at Lviv Interim meeting. Dr. Sandor SZALAI (Hungary) has been requested to invite National Committees to nominate members to the WT. He is also expected to provide an initial work plan (considering proposals from ITALCID, HUCID and GECID) for the activities of the WT and circulate it in early 2010.

Item 7 : ERWG Work Team on EU Water Framework Directive (EWTWFD)

Although this work team has been very active and prosperous in the past, in the absence of a WT Chairman, the work of EWTWFD could not progress well in the recent years. As time has passed and member countries are heavily involved in the implementation of the EU WFD, the WG decided to skip the Work Team and bring forward this topic in the planned WIKI-based electronic platform (Item 11).

Item 8 : European Work Team on Sustainable Irrigation Management (EWTSIM)

A document, title "*Irrigation Sector Reform in Central and Eastern European Countries*", based on the project results (Phase I), has been published and distributed as hard copy and CD during the previous meeting of the WG. Vice President Prof. Kovalenko later distributed a new proposal for the Phase II of the project "*Irrigation Sector Reform in Central and Eastern European Countries*", prepared by the Ukrainian National Committee and Prof. Bart Schultz. Because of financial and organisational problems, this work had to be postponed.

Vice President Prof. Kovalenko was in contact with GTZ to raise the awareness of the problems and explore funding opportunities. The new report (incorporating new irrigation technologies, water saving, efficiency, etc.) may serve as a 'manual' for GTZ to raise the awareness. Contacts have also been renewed by the Chairman. GTZ showed interest but still hesitates.

The Chairman apprised the members.

Item 9 : European Work Team on Drainage (EWTDRA)

The future activities of the WT were deliberated and specified during the International Drainage Workshop at Helsinki / Tallinn (2008). The activities will, among others, focus on drained non-chernosem soils in technical and organizational terms.

The Chairman further apprised the members. In the next 10 years drainage will be of more importance in the countries e.g. in Finland, of the region.

Item 10 : Conferences supported by ERWG

Prof. Joachim Quast (Germany) informed that he chaired a session on irrigation issues during the *2nd International Symposium on Water Management* held during 31 March - 3 April 2009 at Berlin, organised under the umbrella of ICID together with DWA-German Water and Waste Association. He is expected to make the proceedings available to Finland, Hungary, the Netherlands and Ukraine.

- **Feedback from 23rd European Regional Conference of ICID, 2009, Ukraine**

The 23rd European Regional Conference (ERC) of the International Commission on Irrigation and Drainage (ICID) was held 18 - 21 May 2009 in Lviv, Ukraine. The theme of the ERC was **'Progress in Managing Water for Food and Rural Development'**. The conference was organized by the Ukraine National Committee of ICID (UKCID) in cooperation with the ICID European Regional Working Group (ERWG). Professionals from Bulgaria, Estonia, Germany, Hungary, Iran, The Netherlands, Poland, Romania, Russia, Spain, Ukraine, United Kingdom, Uzbekistan and Secretary General, ICID participated in the conference. Approximately 50 young professionals have attended and/or made presentations during the meeting.

The members noted the feedback provided by UKCID. "Lviv Declaration" is available at **Annex 2** and was discussed and agreed by the meeting.

- **The French National Committee proposed an European Regional Conference to be held in Orleans, France in December 2010**

After discussions, it was agreed that this will be the 24th ERC under the title of *"Groundwater Resource: an Essential Resource to be Saved and Managed"*. The organizing committee will soon make available the details of the ERC (*topic, sub-topics, dates and venue*) to the members of ERWG. The draft of the proposal is available at **Annex 3**.

- **25th European Regional Conference of ICID in The Netherlands (2011)**

Although the first flyer was published indicating the ERC in the Netherlands as 24th ERC in 2011, but during the meeting the French National Committee proposed to host another ERC in 2010. In view of new proposal from French National Committee, it was decided to call the French ERC as 24th ERC in 2010 and the Dutch ERC as 25th ERC in 2011. The 25th European Regional Conference of ICID will be held during 16-20 May 2011 at Groningen in The Netherlands. The details of the 25th ERC are available at **Annex 4.** Cooperation with the Working Group on Sustainable Development of Tidal Areas (WG-SDTA) and Working Group on Comprehensive Approaches to Flood Management (WG-CAFM) was initiated by NETHCID. The NETHCID representative apprised the members on the organizational details of the 25th ERC.

- **Conference on Sustainable Agriculture Engineering, 5-8 November 2009, Sofia, Bulgaria**

The Central Office publicized this event through its website and News Update. The members took note of the event.

Item 11 : ERWG Letter Editorial Board

The Editorial Board for the ERWG Letter consists of Dr. Frantisek Dolezal, Dr.-Ing. Eiko Luebbe (Editor), Chairman of GECID and ERWG, Prof. Dr.-Ing. Joachim Quast, Secretary of GECID, Prof. Dr. Lajos Szlavik and Dr. Henri Tardieu, President of AFEID.

ERWG Letter 19 (2009) has been published (May 2009) and circulated. Copies of earlier letters can be viewed at <http://www.erwg.icidonline.org>. Some hardcopies of earlier issues are still available with the Chair and can be ordered from GECID (E-mail: gecid@zalf.de). The next letter is planned to be published after Easter 2010. Contributions are welcome and should be sent to the Chair at the above e-mail address.

The role of the ERWG Letter for the exchange of information among ERWG members and the possible use of an internet (WIKI-based) information platform will be explored.

Item 12 : Young Professional Fora and IPTRID in Europe

The response of Young Professionals at European Regional Conferences (ERC) of ICID is always overwhelming. A Young Professional Forum was conducted during the 23rd European Regional Conference at Lviv. Efforts were successfully made to raise funds to support the Young Professionals who were involved in the joint UNESCO German - Ukrainian project on the development of the Dnister region from German Ministry of Research and Education.

It has been recommended to the organizers of the coming Regional Conferences to follow the practice.

Item 13 : Any other business

ERWG members were informed in Lviv that the founder and first president of the Hungarian National Committee of ICID (HUCID), Prof. Emil Mosonyi, VPH has recently passed away at the age of 99.

Besides carrying many other important positions, from 1965, he has been Professor of the Technical University of Karlsruhe, Director of the Theodor Rehbock Laboratory in Germany, from 1984 Professor emeritus.

- **Ambientalia Special Issue "Ten Years of the Water Framework Directive: an overview of multiple disciplines" – Call for Papers**

The ICID Central Office circulated (09 November 2009) the above 'Call for Papers' among the ICID National Committees in Europe, Aral Sea Basin Countries and Egypt and Turkey for their contributions.

Ambientalia is a multidisciplinary scientific journal aimed at providing with a platform for the exchange and debate in the field of environmental sciences and applications. Ambientalia Special Issue Series (**http://revista.ambientalia.org/**) is aimed at producing multidisciplinary compilations of environmental research on selected relevant topics. Responses are awaited.

The Chairman announced that during the next meeting in 2010, a new Chairman will be elected. Proposals were welcomed.

Annex 1 [Appendix VIII, Item 3]

EUROPEAN REGIONAL WORKING GROUP (ERWG) OF THE INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)

Profile

The European Regional Working Group (ERWG) of ICID was founded at the 46th IEC Meeting in Rome in September 1995, and is acting under the motto "Comprehensive land and water management in European river basins for the sustainable development of the rural landscape". The tasks of ERWG can be summarized as follows:

- Knowledge transfer and exchange of experience in matters of border crossing water and land management in European countries
- Co-operation of experts and organisations engaged in national, supranational and international objectives of water management and irrigated agriculture
- Development and promotion of border crossing projects and conferences
- Members are the ICID National Committees of 24 European countries, as below :

Country Representatives			
Austria	Mr. Frederick M. Cate	**Lithuania**	Dr. Antanas Maziliauskas
Croatia	Dr. Davor Romic	**Macedonia**	Prof. Zvonimir Vukelic
Cyprus	Mr. Nicos Tsiourtis	**Portugal**	Mr. Pedro Eduardo da Cunha Serra
Czech Republic	Prof. Svatopluk Matula	**Romania**	Prof. Ion M. Nicolaescu
Estonia	Mr. Mati Tonismae	**Russia**	Dr. Irina G. Pankova
Finland	Mr. Jaakko Sierla	**Serbia-Montenegro**	Mr. Peter Pantelic
France	Dr. Henri Tardieu	**Slovenia**	Prof. Brane Maticic
Germany	Dr.- Ing. Eiko Luebbe	**Spain**	Mr. Ricardo Segura Graino
Greece	Prof. Dr. A. Poulovassilis	**Switzerland**	Mr. Claude Alain Vullier
Hungary	Dr. Laszlo Hayde	**The Netherlands**	Dr. Pol Hakstege
Ireland	Dr. John Martin	**Ukraine**	Prof. Peter Kovalenko
Italy	Dr. Michele A. Cuccaro	**United Kingdom**	---

Chairman : Dr.-Ing. Eiko Luebbe (Germany)
Vice-Chairman : Prof. Dr. Peter Kovalenko (Ukraine)
Secretary : Dr. Laszlo Hayde (Hungary)
Observer : Mr. Mohammed Benblidia (IME)

Countries with observer status

Bosnia & Herzegovina : Prof. Dr. Mihovil Vlahinic
Moldova : Mr. Valeriu Catrinescu
Serbia : Prof. Dr. Svetimir Dragovic

Subordinate Work Teams

***European Work Team* on Water Related Risk Analysis (EWTWRRA)**

Chairman *To be elected* (Dr. Sandor Szalai, Hungary)
Members *To be elected*

European Work Team on Sustainable Irrigation Management (EWTSIM)

Chairman	Prof. Peter Kovalenko (Ukraine)
Members	Mrs. Helena Aijo (Finland)
	Mr. Frederick M. Cate (Austria)
	Mr. Jan Cermak (Czech Republic)
	Mr. Eugeny Goussenkov (Russia)
	Mrs. Jasmina Taseva (Macedonia)
	Prof. Dr.-Ing. Joachim Quast (Germany)
	Dr. Olga Zhovtonog, Secretary (Ukraine)
	Mrs. Yldiko Zima Szaloki (Hungary)
Observer	World Bank representative

European Work Team on Drainage (EWTDRA)

Chairman	Dr. Georgiy G. Gulyuk (Russia)
Members	Dr. Irene Bondarik, Secretary (Russia)
	Prof. Brane Maticic (Slovenia)
	Dr. Iulian Mihnea (Romania)
	Mr. Toomas Timmusk (Estonia)
	Dr. Willem Vlotman (Australia)
	Mrs. Marija Vukelic-Sutoska (Macedonia)
	Dr. Nicola Yacik (Ukraine)
	Mr. Daniel Zimmer (France)

Editorial Board of ERWG Letter (EBLET)

Editor	Dr.-Ing. Eiko Luebbe (Germany)
Secretary	Prof. Dr.-Ing. Joachim Quast
Members	Dr. Frantisek Dolezal (Czech Republic)
	Mr. John Hennessy (UK)
	Dr.Lajos Szlávik (Hungary)
	Mr. Henri Tardieu (France)

Water Network

In addition to the European National Committees of ICID, the following organizations/association/institution have been incorporated in the ERWG Water Network :

5 European professional organizations

- CIPR - Commission Internationale pour la Protection du Rhin
- EurAgEng - Special Interest Group on Soil and Water, European Society of Agricultural Engineers
- EWA - European Water Association
- EWRA - European Water Resources Association
- TECHWARE - Technology for Water Resources

7 National Water Management Associations

- BSHE - Bulgarian Society of Hydraulic Engineers
- DWA - German Association for Water Management, Waste Water and Waste
- DONBH - Society for Irrigation and Drainage of Bosnia & Herzegovina
- LZHIS - Lithuanian Association of Land and Water Management Engineers
- MHT - Hungarian Hydrological Society
- RSRE - Russian Society of Reclamation Engineers
- SITWM - Polish Association for Water Plant Construction and Land Improvement Engineers and Technicians

6 European Water Management Institutes

- ACVAPROJECT - Water Management Design Institute (Moldova Republic)
- DHI - Danish Hydraulic Institute
- IIDS - Institute of Irrigation and Development Studies, University of Southampton (United Kingdom)
- RIIDHE - Research Institute for Irrigation, Drainage and Hydraulic Engineering (Bulgaria)
- VITUKI - Water Resources Research Centre Plc. (Hungary)
- IME - Institut Méditerranéen de l'Eau (France)

Work Results

- ERWG Letter No. 1 to 19 (newsletters)
- European Sector Vision on Water for Food and Rural Development (report)
- ICID Guide "How to work out a drought mitigation strategy" (guideline)
- Water Resources Management in the Czech Republic, Hungary, Lithuania, Slovenia (book)
- Diffuse Entries in Rivers of the Odra Basin (research report)
- Proceedings of several European conferences
- First and Second CEE WFE Dialogue Reports (Dialogue on Water, Food and Environment – Dialogue on the implementation of the EU Water Framework Directive in Agriculture in the Central and East European Countries) (reports)
- Danube Valley : History of Irrigation, Drainage and Flood Control (book)

Current Projects

- Flood risk mitigation by agricultural non-structural measures
- Drought mitigation strategies
- Flood prevention strategies
- Dialogue on water for food and environmental security in Central and Eastern Europe

Annex 2 [Appendix VIII, Items 4 & 10]

FEEDBACK FROM 23RD EUROPEAN REGIONAL CONFERENCE OF ICID, 2009, UKRAINE
'LVIV DECLARATION'

The 23rd European Regional Conference (ERC) of the International Commission on Irrigation and Drainage (ICID) was held during 18 - 21 May 2009 at Lviv, Ukraine. The theme of the ERC was **'Progress in Managing Water for Food and Rural Development'**. The conference was organized by the Ukraine National Committee of ICID (UKCID) in cooperation with the ICID European Regional Working Group (ERWG). Professionals from Bulgaria, Germany, Hungary, Iran, the Netherlands, Poland, Romania, Russia, Spain, Ukraine, United Kingdom, Uzbekistan, and ICID participated in the conference and discussed the various keynotes and papers.

The Conference placed high emphasis on the issues related to flood control, water demands, GIS technologies and application in the field of water management. The special theme was dedicated to the climate change in view of frequent floods and droughts observed in Europe. Special attention was given to the development of management plans for river basins.

The 23rd European Regional Conference concluded with following Declaration/Recommendation:

1. The conference papers highlighted the good 'on-going' development with respect to integrated management of water and land resources both with respect to policy related developments (stakeholder participation, actual implementation, modeling, data collection, and storage) and their dissemination.
2. More and more projects were being developed and implemented in an integrated way by taking into account social conditions with stakeholder participation. Possible impacts of climate change including technical, economical, gender, and environmental aspects are getting addressed. However, more need to be done to improve these aspects. This will be especially important during the operation and maintenance phase of rural development projects. It is in this phase that the benefits of projects are really realized.
3. Primarily due to human activities and to a certain extent due to the impacts of climate change, the effects and impacts of floods and droughts are significantly increasing in many places. Therefore, it is increasingly important that in the development of projects, both the present day conditions as well as the envisaged mid-term and long-term scenarios are taken into account in the decision-making process. In the light of this, the European Water Framework Directive and the European Flood Directive are important guiding documents that have to be implemented jointly.
4. For improved coordination of the wide range of activities for rural development at different spatial levels, like integrated land and water management, river basin management, rural development and spatial planning, it is recommended to update legislation and organizational structures where relevant.
5. There is an urgent need to strengthen international water legislation for protection of water rights for agriculture in order to support sustainable and integrated water management - irrigation and/or drainage, dependent on the local conditions - as a requirement to guarantee food security.

The conference recorded its appreciation to the activities of the Inter-state Coordination Water Commission of Central Asia in the framework of cooperation of the five states - Kazakhstan, Tajikistan, Uzbekistan, Turkmenistan, and Kirgizstan - on trans-boundary waters under the conditions of climate change and felt that it could be an example for the trans-boundary cooperation in other river basins.

The conference also supported the development of a Russian speaking network of water management specialists that was initiated in the Moscow meeting of January 2009 and recommends that scientific organizations join the network.

Agreed actions

- To increase food production significantly, through sustainable rural development in the forthcoming decades by realizing the potential of several of the European countries, like Ukraine, it was agreed (*by several parties*) that an initiative will be taken for a joint project on '*Integrated Water Management*' for improving food production in European countries. The ICID European Working Group will take the initiative to prepare a proposal in cooperation with the potential partners.

- To improve the network for European young professionals in the water management sector to be initiated jointly by UKCID and GECID. They will also promote joint activities like research projects, exchanges, summer schools, etc.
- To review and further develop the activities of Work Team on Sustainable Irrigation Management (WT-SIM) in light of integrated rural development.

Lviv,Ukraine
21 May 2009

Acknowledgement : VP Peter Kovalenko, UKCID
VP Eiko Lübbe
Chair, ERWG

Annex 3 [Appendix VIII, Item 10]

"Gérer l'eau pour une agriculture durable"

ASSOCIATION FRANÇAISE POUR L'EAU L'IRRIGATION ET LE DRAINAGE

FRENCH COMMITTEE OF THE INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)

DRAFT

24TH EUROPEAN REGIONAL CONFERENCE
"GROUNDWATER RESOURCE: AN ESSENTIAL RESOURCE TO BE SAVED AND MANAGED"
December 2010, Orleans in France

Groundwater is the main source of freshwater for the planet. According to UNESCO (2003), it provides more than 50% of the world's drinking water, 40% of the industrial demand and 20% of the agricultural uses. Groundwater presents many characteristics which makes it more attractive than surface water: a better chemical and bacteriological quality, an opportunity for on demand individual use without heavy investment in collective infrastructure a cost-free storage capacity.

The low setup and operation costs of drilling and pumping equipment, but also the weaknesses of regulations on groundwater have been the reasons for a considerable expansion of the use of groundwater worldwide over the past 40 years. But, unlike surface water, groundwater is not easily measurable and manageable for three main reasons. First, in most case it is used by a large number of independent users, including farmers, which have direct access to the water individually; in many regions, most wells are not declared and/or not registered, making their management difficult if not impossible. Second it is an invisible, extremely complex resource, making it very difficult to be understood by users and managers. Finally, the legal and institutional specific arrangements are difficult to implement and enforce. This lack of mechanisms for managing groundwater resource exposes it to the risk of the "tragedy of the commons" described by Hardin (1968) which can lead to its overuse, and consequently to the deterioration of its quality, sometimes irreversible, as it happens with saline intrusion in coastal aquifers.

Experiments on regulatory tools, incentives and enforcements have been conducted for managing groundwater resource in different environments around the world. In Europe the objective of restoring the good ecological status required by the Water Framework Directive (WFD) establishes a regulatory framework urging actors to implement these rules. In more liberal environments such as the United States or Australia, other approaches have been promoted. Finally, in developing countries where the direct control of groundwater is often more difficult to implement, other solutions are explored.

The objective of this European conference is to address the issues of groundwater management in these different environments. The conference will take place in Orleans where a volumetric management has been in use for ten years on one of the largest groundwater aquifers in France, following negotiations between farmers and administration. In collaboration with the ICID European Regional Working Group, other experiences in Europe will also be presented. AFEID will also make contact with ICID National Committees to present experiences in the United States and Australia, as well as in developing countries, namely India (in collaboration with IWMI) and North African countries.

This conference will be placed in the perspective of the 6th World Water Forum Marseille 2012.

Annex 4 [Appendix VIII, Item 10]

DRAFT PROPOSAL
25TH EUROPEAN REGIONAL CONFERENCE
"INTEGRATED WATER MANAGEMENT FOR MULTIPLE LAND USE IN FLAT COASTAL AREAS"
16-20 May 2011, Groningen, The Netherlands

Subtitle: "Water management for sustainable land use in tidal zones"

Background

Within the Netherlands National Committee of the International Commission on Irrigation and Drainage (NETHCID) the idea to organize an ICID Regional European Conference on "**Integrated water management under multiple land use in flat coastal areas**" was discussed in Sacramento, USA during the ICID meetings in October 2007 and further elaborated resulting in this draft proposal.

Scope

The reason for this initiative is the increasing importance of coastal areas for integrated water management for multiple land use, such as agricultural food production and the increasing vulnerability of especially tidal areas, deltas and estuaries due to increase in population density and value of public and private property, subsidence and effects of climate change. In these geographical areas water management and where applicable flood protection for land use is related to many issues, such as flood risk management, land reclamation, rural reconstruction, salt water intrusion and habitat development. Also the institutional settings of organisations of water management are important aspects. In Europe the question how to deal with the complex requirements when following the various relevant European Directives is an example of this last issue. Flat coastal areas are widespread in Europe, so for most European (ICID member) countries the conference will be relevant, as well as for other countries with large coastal areas. Exchange of lessons learned can be very helpful to cope with future challenges and develop sustainable and cost-effective approaches for water management and flood protection on behalf of integrated development and management of land use in flat coastal areas.

Issues and themes

The focus is on integrated approaches towards water management and land use in (manmade) flat coastal areas in Europe, in relation to coastal zone management. The core issue is on water management and flood protection in such areas with respect to land use. Consequently, urbanisation as such is not suggested as central theme. Possible themes to be discussed and elaborated are:

- Main theme: Integrated water management for multiple land use in flat coastal areas;

  Topic I. Integrated water management;

  - Flood risk management in flat coastal areas under the influence of changing storm surges, subsidence and impacts of climatic changes in land use;
  - Role of ecology and habitats in water management and flood protection
  - Water management under multiple land use;

  Topic II. Challenges and opportunities of salt-water intrusion

  - Tidal water management e.g. Venice, Italy; St. Petersburg, Russia; Haringvliet, the Netherlands
  - Fresh water/saline water interactions in coastal areas and consequences for ecology and water quality

Topic III. Role of European legislation, directives, in the development and management of flat coastal areas

- o Institutional arrangements for water management and flood protection, such as water boards, and the role of governments, provinces, communities and civil society organisations e.g. in the framework of ICZM(Integrated Coastal Zone Management);
- o Legal arrangements, such as the European water Frame Work Directive.

Topic IV. Societal and economic aspects such as cost-benefit analyses of possible measures.

- o Historical perspective of developments in flat coastal areas

Further Steps

The proposal will be further elaborated in cooperation with members of the ICID Working Groups on Sustainable Development of Tidal Areas, on comprehensive Approaches to Flood Management and the European Regional Working Group. We propose to organize the meeting as the 24th ICID European Regional Conference in 2011. The chairman of the European Regional Working Group supports the idea and has suggested considering an organization by the NETHCID with contributions by the German National ICID Committee (GECID). This is appropriate, as both in the Netherlands and Germany extensive experience has been gained on the items of the proposed conference. Groningen in the northeast of the Netherlands is the preferred location, because it is as an accessible town in the coastal area of the Netherlands, not far from the German coast.

This proposal was accepted and the venue was approved at the ICID Congress in Lahore, Pakistan, October 2008. As a helpful precursor for the preparation of the proposed European Regional Conference an informal workshop could be held during the ICID Asian Regional Conference in Yogyakarta, Indonesia in 2010. There, appealing responses might be expected from member countries within Europe, but hopefully from outside Europe as well, such as Korea (coastal areas), India (Kerala and other coastal lowlands), Japan, Bangladesh and Australia (lower Murray- Darling basin).

APPENDIX IX [PCSPOA Item 6]

Minutes of the Fifth Meeting of the
TASK FORCE FOR IDENTIFYING PRIORITY ISSUES FOR LEAST DEVELOPED COUNTRIES IN AFRICA (TF-LDCs-AF)
7 December 2009: 09.30-13.15 hours
New Delhi, India

Year of Establishment: 2005 **Completion of the Mandate: 2009**

Terms of Reference (ToR): The Task Force will create a knowledge base to understand the problems faced by Least Developed Countries in Africa (LDCs-AF), work out requirements of the LDCs, identify level and extent of support from ICID and explore the avenues for bilateral/multilateral cooperation.

Members: No members were present at the meeting. Dr. S.A. Kulkarni, Executive Secretary, representing Secretary General, ICID was present.

Observers: (i) Mr. Soong Dae Chol (South Africa); (ii) Dr. Adama Sangare (Mali); and (iii) Mr. Abdoulaye Dembele (Mali)

Note: No business was conducted due to non-attendance of the members. However, Dr. Kulkarni briefed the observers as follows:

- The final revised version of the Task Force Report by merging of the draft versions as prepared by Chairman Engr. I.K. Musa and Dr. Sizwe Mkhize, Chairman, AFRWG and comments provided by Mr. Loulseged Makonne was circulated at the AFRWG meeting held on 6 December 2009. The AFRWG recommended to circulate the final version of the report among all members of the Task Force as well as the AFRWG for their concurrence/ final remarks. The report may then be published as appropriate. A copy of the final version of the report will be tabled at the PCSPOA meeting.

  PCSPOA may like to provide its recommendations in finalizing the Task Force Report.

- The Task Force was established in 2005 with a mandate of completing its activities by November 2007 or latest by 2008 on the occasion of the Lahore Congress. However, due to scarce attendance of the members at Lahore, and also in view of the incomplete activities, specially the report of the Task Force, it was proposed to conclude the TF on the occasion of the 60th IEC. However, again in view of the non-attendance of the members, the meeting could not be held at New Delhi also.

  PCSPOA may like to guide/ recommend further continuation of the Task Force.

APPENDIX X [PCSPOA Item 11]

Minutes of the Sixth Meeting of the
AMERICAN REGIONAL WORKING GROUP (AMRWG)
New Delhi, India
07 December 2009: 14:15-18:00 hours

Year of Establishment: 2003

Mandate: (1) To assist in the development of broad-based ICID National Committee in each Latin American country, (2) To obtain and disseminate information on irrigation and drainage in Latin America, (3) To organize national and international discussions on relevant scientific and technical issues, and (4) To provide the catalyst for promoting better contact with the ICID and other relevant international organizations.

Members present: (1) Mr. Laurie C. Tollefson (Representative from Canada); and (2) Dr. Vijay K. Labhsetwar (Representing Secretary General, ICID).

Apology: Dr. Dennis Wichelns (USA).

Observer : Dr. P. Srinivas Rao (ICRISAT, India).

Item 1 : Confirmation of the minutes of the 5th meeting of the Working Group

The minutes of the 5th meeting of the Working Group held at Lahore, Pakistan in October 2008 were confirmed.

Item 2 : Review of Membership

Dr. Vijay K. Labhsetwar informed on membership issues as below:

- National Committees of Brazil, Canada, Chile, Guyana, Portugal and Uruguay have yet to send nominations for the membership of the Working Group.
- Further, 9 National Committees i.e. Argentina, Columbia, Dominican Republic, Ecuador, Honduras, Panama, Peru, Surinam and Venezuela, which have become '*deemed inactive*' have not responded to invitation from Central Office to revive their memberships.
- The new (fresh) countries in Americas: Republic of Bolivia, Republic of Costa Rica, Republic of El Salvador, Republic of Guatemala, Republic of Haiti, Republic of Paraguay, Republic of Puerto Rico, Republic of Trinidad & Tobago and Republic of Nicaragua, have not responded to invitation from Central Office for the membership of ICID.
- The Republic of Jamaica was admitted to ICID during 59th IEC meeting in October 2008 at Lahore, Pakistan. However, the 1st current annual subscription from the Republic of Jamaica is still awaited.

The Central office may continue to enthuse above for nominations and ICID membership. Mr. Tollefson offered to assist and cooperate with Central Office in pursuing the membership issues.

Item 3 : Election/nomination of Chairman, Vice Chairman and Secretary

Due to scarce attendance of members, it was decided to defer the elections till the next meeting in Indonesia in October 2010.

Item 4 : Activities of the WG

4.1 Workshop on '*Food Vs Fuel : Implications for Water Resources'*

In spite of best efforts from Central Office as described in the agenda, only one speaker i.e. Dr. P. Srinivas Rao (ICRISAT, India) could join the workshop. In view of scarce attendance at the workshop, Mr. Tollefson requested Dr. Ragab Ragab, Chairman, WG-CROP to allow presentation of Dr. Srinivas at the meeting of WG-CROP, which may be interesting and relevant there as well.

Eventually, Dr. Rao's presentation was very well received at the WG-CROP meeting.

4.2 Other activities

None of the activities listed in the agenda could be pursued in view of scarce attendance and due to lack of input from member countries.

Item 5 : Any other business

The meeting ended with thanks to Dr. Srinivas Rao, who came to Delhi exclusively for the workshop.

APPENDIX XI [IEC Item 10]

Minutes of the Twenty Ninth Meeting of the
PERMANENT COMMITTEE FOR TECHNICAL ACTIVITIES (PCTA)
9 December 2009: 09.30-13.00 hours (Session-I)
9 December 2009: 14.00-17.30 hours Session-II)
New Delhi, India

Members present: (1) Vice President Hon. Hector Malano, Chairman (Australia, 2005); (2) Mr. Bruno Molle, Vice Chairman (France, 2006) represented by dr. Bernard Vincent; (3) Vice President Hon. Larry D. Stephens, Secretary (USA, 2003); (4) Prof. Daniele de Wrachien (Italy, 2005) represented by Dr. Graziano Ghinassi; (5) Dr. Yohei Sato (Japan, 2005); (6) Dr. Nikolay G. Kovalev (Russia, 2007) represented by Dr. Irina Bondarik; (7) Mr. Hasan B. Yuksel (Turkey, 2007); (8) Mr. A.K. Bajaj (India, 2008); and (9) Er. M. Gopalakrishnan, Secretary General, ICID represented by Mr. K. N. Sharma, Secretary, ICID.

Ex-Officio Members present: (i) VPH Felix Reinders, Chairman, WG-ON-FARM; (ii) President Hon. Peter Lee; (iii) Mr. W.F. Vlotman, Chairman, WG-DRG; (iv) Dr. M.W. Ertsen, Chairman, WG-MIS; (v) President Hon. Prof. Bart Schultz, Chairman, EB-JOUR; (vi) Prof. Linden Vincent, Chairman, WG-TRUE; (vii) Dr. Sang Hyun Park, Chairman, WG-SDTA; (viii) Dr. Ragab Ragab, Chairman, WG-CROP and WG-PQW; and (ix) Dr. S. Nairizi, Chairman, WG-DROUGHT.

Observers: (i) Mr. Ahmet Seren (Turkey); (ii) Mr. Taner Kimence (Turkey); (iii) Mr. Tetsuya Oishi (Japan); (iv) Mr. Enayatollah Farahani (Iran); (v) Dr. Kamran Emami (Iran); (vi) Dr. N. Hatcho (Japan); (vii) Mr. Tai Cheol Kim (Korea) and (viii) Mr. Husnain Ahmad (Pakistan).

Item 1 : Confirmation of minutes of the 28th meeting of PCTA held at Lahore, Pakistan, 16 October 2008

The minutes of the 28th meeting were confirmed.

A. CONTINUING ITEMS

ITEMS FOR ACTION

Item 2 : Membership of the Committee

The nomination of Engr. Husnain Ahmed (Pakistan) was approved for PCTA membership.

The Central Office will contact the Egyptian National Committee (ENCID) regarding the membership of VPH Hussein Ehsan El-Atfy, who was not able to attend PCTA meeting continuously for the past three years.

Item 3 : Composition of Workbodies

3.1 Recommendation for the position of Chairmen/ Vice Chairmen/ Secretaries for workbodies

The following Workbody positions were recommended:

- WG-HIST: Dr. Kamran Emami (Iran), Chairman
- WG-SDTA: Dr. Henk P. Ritzema (The Netherlands), Vice Chairman; Dr. Ruey-Chy Kao (Chinese Taipei), Secretary.
- TF-FIN: Dr. G. R. Backeberg (South Africa), Chairman
- TF-POVERTY: Mr. R. C. Jha (India), Vice Chairman.
- WG-CLIMATE: Mr. Ray Shyan Wu (Chinese Taipei), Secretary.
- WG-ON-FARM: Dr. A. K. Randev (India), Secretary.
- WG-CROP: Mr. LC. Tollefson (Canada), Vice Chairman.
- WG-CAFM: Dr. K. Emami (Iran), Vice Chairman and Dr. T. Masumoto (Japan), Secretary.

- WG-DROUGHT: VPH Franklin E. Dimick (USA), Chairman; Mr. Mohd. Sadegh Jafari (Iran), Vice Chairman; and Dr. Abraham Mehari Haile (The Netherlands), Secretary.

New membership proposals for Workbodies

The following new Workbody nominations for the membership are recommended to IEC:

Working Group on History of Agricultural Water Management (WG-HIST)

- Dr. Kamran Emami (Iran) and Mr. Yogesh Paithankar (India).

ICID Journal Editorial Board (EB-JOUR)

- Mr. C. M. Pandit (India)
- Dr. Yohei Sato (Japan)

In addition, two nominations were accepted provisionally, pending receipt of formal nominations from the respective National Committees:

- Prof. Machiel F. Viljoen (South Africa); and
- Dr. Mohd Amin bin Mohd Soom (Malaysia)

Dr. Marcel Kuper (France) and Dr. Bruce Lankford (UK) were accepted as Associate Editors.

Working Group on Technology and Research Uptake and Exchange (WG-TRUE)

- Dr. Kazumi Yamaoka (Japan)
- Mr. Indra Raj (India)

Working Group on Modernization of Irrigation Services (WG-MIS)

- Engr. Syed Mansoob Ali Zaidi (Pakistan)

Working Group on Water Saving for Agriculture (WG-WATS)

- Mr. R. K. Gupta (India)
- Dr. Muhammad Arshad (Pakistan)
- Dr. Alain Vidal (France) will continue as Permanent Observer.

Working Group on Water Management in Water Stressed Regions (WG-DROUGHT)

- Mr. Mohammad Sadegh Jafari (Iran)
- Dr. T.B.S. Rajput (India)

Working Group on Sustainable Development of Tidal Areas (WG-SDTA)

Three nominations were accepted provisionally, pending receipt of formal nominations from respective National Committees:

- Dr. Jo Jin Hoon (Korea)
- Mr. Dhimant B. Vyas (India)
- Mr. H. W. Wang (Chinese Taipei) – were accepted as permanent observers.

Working Group on Environment (WG-ENV)

- Mr. C.K. Agrawal (India)
- Dr. Sylvain Perret (France)

Working Group on Comprehensive Approaches to Flood Management (WG-CAFM)

- Dr. Takao Masumoto (Japan)
- Mr. B. S. Purba (India)

Working Group on Global Climate Change and Agricultural Water Management (WG-CLIMATE)

- Prof. Sue Walker (South Africa)

Working Group on Water and Crop (WG-CROP)

- Prof. Dr. Rai Niaz (Pakistan)
- Ms. Jaleh Vaziri (Iran) and
- Dr. K. Yella Reddy (India)

Working Group on Poor Quality Water for Irrigation (WG-PQW)

- Mr. Makoto Yokozawa (Japan)

Working Group on On-Farm Irrigation Systems (WG-ON-FARM)

- Mr. Makoto Yokozawa (Japan)
- Prof. Dr. Rai Niaz Ahmed (Pakistan)
- Mrs. Mira Edelbaher (Slovenia)

Working Group on the Role of Irrigation in Poverty Alleviation and Livelihoods (WG-POVERTY)

- Mr. Enayatollah Farahani (Iran)
- Dr. Yohei Sato (Japan)
- Mr. Hassan Javaid Afridi (Pakistan)
- Mr. R. C. Jha (India)
- Mr. Andre Roux (South Africa)
- Mr. Laurie Tollefson (Canada) and
- Dr. Adama Sangare (Mali)

Task Force on Financing Water for Agriculture (TF-FIN)

- VPH Henri Tardieu (France)
- Dr. E. Farhadi (Iran)
- Mr. K. Yamaoka (Japan)
- Dr. G. R. Backeberg (South Africa)
- Mr. V. K. Chawla (India)

In addition, the following two nominations were accepted provisionally, pending receipt of formal nominations from the respective National Committees:

- Dr. Sylvain Roger Perret (France) as observer/ Secretary and
- Dr. Brian Davidson (Australia)

Committee on Public Relations and Publications (C-PR&P)

- President Hon. Dr. Bart Schultz (The Netherlands)
- Mr. A. K. Ganju (India).

3.2 Websites of ICID Workbodies

VPH Hector Malano, Chairman, PCTA noted that webpage for the WG on Environment should be developed when possible. Mr. Sharma offered to help place basic information on the webpage by the Central Office

Item 4 : Consideration of reports of Chairs of Workbodies followed by those of respective Strategy Theme Leaders

4.1 Presentation by Workbodies under the Strategy Theme – Knowledge (ST.K)

4.1.1 Committee on Public Relations and Publications (C-PR&P)

VPH Larry Stephens, Chairman of the Committee noted that the Committee has decided to rename the quarterly newsletter to *ICID News*. He further noted that the Committee will keep working with the Central Office to continue to further improve the excellent ICID website.

4.1.2 ICID Journal Editorial Board (EB-JOUR)

Chairman Bart Schultz reported on the status of publishing the Irrigation and Drainage Journal, noting the number of special issues published in 2009 and future plans for the Journal.

4.1.3 Working Group on Coordination of Dictionaries (WG-CD)

Mr. K. N. Sharma reported that an updated version of the Multilingual Technical Dictionary on CD-ROM has been issued during the New Delhi IEC Meeting. A section on climate change has been added. PCTA recommends that Central Office explore ways to allow the Dictionary to be made free on the internet.

4.1.4 Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST)

Dr. N. Hatcho reviewed the WG progress, including drafts on History of Irrigation in Eastern Asia, and History of Irrigation, Drainage and Flood Control in Southern Europe and the Mediterranean. He noted that the name of WG will not be changed, but the mandate has been updated to include management and governance issues, institutional factors and social concerns. The relationship between history and sustainability will also be examined.

4.1.5 Working Group on Technology and Research Uptake and Exchange (WG-TRUE)

Prof. L. Vincent reported that the WG will have a Workshop in 2010. Responses to a questionnaire on benefits of research were reviewed and evaluated.

The WG will explore how to revamp and include IPTRID into the mandate of the WG. The WG was also asked to consider adding capacity building to the WG mandate, but the WG feels that it is not capable of adding this topic to the mandate. PCTA recommends that Central Office prepare a position paper on capacity building.

4.1.6 Synthesis and Recommendations by Theme Leader on Knowledge (ST.K)

The Theme Knowledge presentation will be made during the New Delhi IEC Meeting.

4.2 Presentation by Workbodies under the Strategy Theme – Systems (ST.S)

4.2.1 Working Group on Modernization of Irrigation Services (WG-MIS)

Dr. Maurits Ertsen, Chairman, WG-MIS reported that the WG organized a successful Workshop in New Delhi and outlined plans for future activities. The WG plans to have six cases presented during the 2010 meeting.

4.2.2 Working Group on Water Saving for Agriculture (WG-WATS)

President Hon. Peter Lee reported for the WG, noting that the book "*Water Saving in Agriculture"* was released in 2008 and has been translated into Persian.

The WG recommends several changes in the WatSave Awards:

1. Limit nominations to one per National Committee for each award category.
2. Add a fourth award for Farmers. (It was suggested that IFAP be notified of the award.)

3. A prize of US$ 500 be given for each of the four awards, and the balance of the US$ 6,000 be used to provide travel grants for the Young Professional and Farmers Awards.

The award funds of US$ 6,000 rely on contributions from National Committees, usually the host NC for the IEC Meeting. PCTA recommends that unspent award funds from the past be retained for the future possibility that US$ 6,000 is not available during a given year. Central Office has however noted that there is no unspent award money as on date.

4.2.3 Working Group on Drainage (WG-DRG)

Dr. W. F. Vlotman reported for the WG. The WG has identified three topics to be addressed as work items. The venue for the 11th International Drainage Workshop will be selected during the 2010 WG meeting. The WG held an internal workshop in New Delhi and will also do an internal workshop during the WG meeting in Indonesia.

4.2.4 Working Group on the Role of Irrigation in Poverty Alleviation and Livelihoods (WG-POVERTY)

PH Peter Lee represented Chairman Dr. Alain Vidal. The WG plans to have an internal workshop during the next meeting in Indonesia. The WG agreed to add three additional objectives to their mandate.

4.2.5 Task Force on Financing Water for Agriculture (TF-FIN)

TF Chairman Dr. Gerhard Backeberg reported that a workshop on the theme *Development and Financing of Irrigation Schemes* was held in New Delhi. The TF is still refining its mandate.

4.2.6 Synthesis and recommendations by Theme Leader on Systems (ST.S)

Dr. Vlotman plans to explore ways to reduce the formality and administrative aspects of Workbodies. VPH Malano noted that he has also asked that administrative aspects of workbody agendas be reduced as much as possible.

4.3 Presentation by Workbodies under the Strategy Theme – Basin (ST.B)

4.3.1 Working Group on Water Management Stressed Regions (WG-DROUGHT)

VPH Dr. S. Nairizi reported as interim chair of the WG, noting the plans for the new WG. Pending approval of new WG officers, definite work plans have not been initiated.

4.3.2 Working Group on Sustainable Development of Tidal Areas (WG-SDTA)

Dr. Park Sang Hyun, WG Chairman, reported that the WG has asked to extend the mandate through 2010. He noted that the WG is completing a *Handbook on Sustainable Development of Tidal Areas*, to be published by ICID with financial support by the National Committees of Korea, Japan and Chinese Taipei.

4.3.3 Working Group on Environment (WG-ENV)

No WG report was given.

4.3.4 Working Group on Comprehensive Approaches to Flood Management (WG-CAFM)

No WG report was given.

Mr. Kamran Emani, Iran, made a presentation on Value Engineering. He suggested that a workbody on Value Engineering be established. It was suggested that a Workshop be organized, presenting case studies of Value Engineering applications in irrigation and drainage projects.

4.3.5 Working Group on Global Climate Change and Agricultural Water Management (WG-CLIMATE)

No WG report was given.

4.3.6 Synthesis and recommendations by Theme Leader on Basin (ST.B)

Mr. Bernard Vincent presented a report on behalf of VPH Henri Tardieu, and highlighted the following points:

- WE-ENV was preparing a position paper on environment which could be useful for explaining the irrigation sector issues to non specialists. He urged the WG to collaborate with IUCN.
- WG-DROUGHT was seeking new ways to approach drought.
- WG-CLIMATE has been successful in sharing real time information on climate change. The WG challenges the UN Water policy brief which stated that "global food production does not seem to be threatened."
- WG-SDTA was preparing an excellent handbook, to be published in 2010.

PCTA noted that VPH Henri Tardieu has resigned as Theme Leader- Basin. A new Theme Leader would be selected.

4.4 Presentation by Workbodies under the Strategy Theme – On-Farm (ST.OF)

4.4.1 Working Group on Water and Crop (WG-CROP)

Dr. Ragab Ragab, WG Chairman, reviewed the topics discussed by the WG. The WG requests approval to organize a Workshop on *Water Saving and Conservation* in 2010. IEC approval is requested.

President Chandra Madramootoo recommended that the climate change aspects of the WG be coordinated with the WG on Global Climate Change and Agricultural Water Management to avoid duplication of effort. After discussion, it was agreed to recommend to IEC that work plans for all workbodies be reviewed and coordinated. Further, all Workbodies should be reminded that the Chairman or a representative should attend PCTA meetings to report on workbody activities and to facilitate coordination with other workbodies.

4.4.2 Working Group on Use of Poor Quality Water for Irrigation (WG-PQW)

Dr. Ragab Ragab, WG Chairman, noted that the WG reviewed and updated the work plan. The WG requests approval to organizing a workshop on *Water Quality and Irrigation* during the Tehran Congress. IEC approval was requested.

4.4.3 Working Group on On-Farm Irrigation Systems (WG-ON-FARM)

Mr. Felix Reinders, WG Chairman, reported that the WG meeting was well attended. He noted that excellent papers were presented. Plans for the 8th International Micro Irrigation Congress to be held in Tehran during the 21st ICID Congress, were reviewed.

4.4.4 Synthesis and recommendations by Theme Leader on On-Farm (ST.OF)

Dr. S. Nairiizi, Theme Leader highlighted the following through his presentation:

WG-ON-FARM: It is a good to see that surface irrigation is getting more attention, but we have to go further to define simple techniques to manage irrigation scheduling and irrigation system operation. Irrigation efficiency is another basic concept of irrigation practice at the farm level which should be defined in more detail to focus on what is really a loss and focus on effectiveness of irrigation water application, rather than efficiency of distribution

WG-CROP: This is an emerging working group from the previous one, with a revised mandate. It is recommended that more information and research outcomes be completed by the WG on the basic question of actual crop water requirement against the conventional crop potential evapotranspiration, which is used as the basis for irrigation water allocation.

Item 5 : ICID Task Forces

5.1 Task Force to Guide ICID Inputs to WWF-5 (TF-WWF-5)

Mr. Sharma reviewed ICID inputs to World Water Forum 5. The TF has completed its mandate.

The TF recommended, and PCTA concurs, that a Task Force be established to provide ICID inputs to WWF-6.

5.2 Finalizing the TF-IBWT publication

The final report on Inter Basin Water Transfers will soon be finalized by President Hon. Dr. Bart Schultz. He would also explore commercial publishing of the report, in consultation with the Central Office.

B. ITEMS FOR INFORMATION

Chairman Prof. Malano invited the members to review the items for information. The details in respect of each of the following items were noted.

Item 6 : ICID's Cooperation with International Organizations

6.1 UN Organizations

- UN-Water
- Food and Agriculture Organization of the United Nations (FAO)
- World Water Assessment Programme (WWAP)
- International Fund for Agricultural Development (IFAD)
- World Meteorological Organization (WMO)
- UNESCO

6.2 World Water Council (WWC)

6.3 International Water Management Institute (IWMI)

6.4 International Water-related Associations' Liaison Committee (IWALC)

6.5 International Standards Organization (ISO)

6.6 International Union for Conservation of Nature (IUCN)

6.7 McGill University, Montreal, Canada

6.8 King Hassan II, Morocco – Academie des Science

Item 7 : ICID Congresses/Conferences

The outcome of the past events and the future events as listed in the agenda of the PCTA, were noted. The Committee took note of the planned 24th European Regional Conference in France in December 2010 (a new offer).

PCTA endorsed the theme and sub-themes of the following forthcoming event:

- 61st IEC and 6th Asian Regional Conference, Yogyakarta, Indonesia, 10-16 October 2010
- 62nd IEC and 21st International Congress on Irrigation and Drainage, Tehran, Iran, 15-23 October 2011
- 24th European Regional Conference, the Netherlands, May 2011 (Since changed as 25th ERC with 24th ERC, scheduled for December 2010, in Orleans, France.)
- 3rd /4th African Regional Conference, Mali, 2011.

Item 8 : Any other business

PCTA was informed that the proposals for setting up new Task Forces on ICID position on (i) Biofuel Policy, and (ii) Sedimentation of Reservoirs, was also brought for consideration in the Management Board where it was agreed to.

While the brief on Topic 2.3 for the World Water Forum 5 Istanbul would form the basis for activising of the TF on Biofuel policy position, a concept paper for the TF on Sedimentation prepared in Central Office was endorsed, to begin with (**Annex**). Nominations would be solicited from National Committees by the Central Office for these TFs. The maiden meetings of these TFs would take place in Yogyakarta in October 2010 where TF composition and ToRs could be firmed up.

PCTA discussed the proposal for the publication of the document on `River Basins of the World' and felt that a background paper on this will be useful to consider the matter.

Annex [Appendix XI, Item 8]

SEDIMENTATION ISSUES RELATING TO WATER RESOURCES PROJECTS FOR IRRIGATION AND FLOOD MANAGEMENT

One of key issues that came up during Lahore meetings was the loss of sizeable storage capacity of Himalayan Reservoirs and also the pattern of settlement in the storage basin which could many times result in operation and maintenance problems and harm the benefits derivable.

The typical case that came up for detailed consideration related to Tarbela Reservoir. Participants in a special session convened exclusively at short notice and members of ICID national Committee present during the occasion were unanimous of the need for constituting a working group to look into various aspects and create a knowledge exchange platform; consultations with other international global organizations were also suggested.

The Lahore Declaration issued at the end of the conference indicated our commitment to look into this aspect by constituting a Working Group. As a follow up, we have a document from PANCID which elaborates the Tarbela case as an initiation document for the working group.

ICOLD, IHA are the other sister organization too have concentrated on this subject from different perspectives.

Incidentally, ICID Secretary General had an invitation to participate in an international workshop on the subject convened by World Bank as a part of their efforts to encourage sustainable water management in Himalayan River systems taking in board the Climate Change issues. This Workshop held in 2009 June attempted to address critical four issues in relation to sediment management in hydro projects, such as sediment data management, sustainable reservoir operations, run of the river hydro electric projects and Sediment Data Management. The efforts of the World Bank to have successive conferences on the subject are continuing. Bangladesh, Bhutan, China, India, Nepal, Pakistan and Srilanka were able to present some of the individual country experiences, research findings and aspects of tackling the problems. Organised under South Asia initiative, the objective of the workshop was “promote the goals of poverty reduction, economic development, mitigation and adaptation to climate change, and water security through significant and measurable improvements in water resources management and development at the regional, international basin and national levels in South Asia” and enhance cooperation among the countries of the region.

Some international experts of renown can also be co-opted as appropriate in tune with available provisions. Our focus will be the future impacts on irrigation utilizing the available frontier knowledge base in reservoir and in channel sedimentation (Yellow River).

APPENDIX XII [PCA Item 4.1.4]

Minutes of the Twelfth Meeting of the
WORKING GROUP ON HISTORY OF IRRIGATION, DRAINAGE AND FLOOD CONTROL (WG-HIST)
New Delhi, India
06 December 2009: 09.30-13.15 hours

Strategy Theme: Knowledge

Year of Establishment: 1998 **Completion of the Mandate: 2014**

Mandate: To motivate ICID National Committees in various countries to set up their National Working Groups and provide them guidance to compile, publish, update and/or translate documents on history of irrigation, drainage, flood control, and river engineering, incorporating relevant agricultural, political, socio-economic, climatological and geographical aspects for proper understanding of the technological developments in the subject, if possible chronologically. Furthermore, to organise seminars at ICID Congresses in order to show to experts the importance of historical studies when planning new projects.

Members Present: (1) Prof. Dr. N. Hatcho, Chairman, 2002 (Japan, 1998); (2) Dr. Hubert Toussaint, Secretary (The Netherlands, 2005); (3) Vice President Hon. Ricardo S.Graino (Spain, 1998); (4) Mrs. Xuming Tan (China, 1998); (5) Dr. Laszlo Hayde (Hungary, 2001); (6) Mr. B.D. Pateria (India, 2003) represented by Mr. Yogesh Paithankar; (7) Vice President Dr. A. Hafied A. Gany (Indonesia, 2005); (8) Dr. Ing. Klaus Röttcher (Germany, 2006); and (9) Prof. Wen-Pin Shu (Chinese Taipei) represented by Mr. Gwo-Hsing Yu.

Observers: (1) Dr. Kamran Emami (Iran); (2) Prof. Ray-Shyan Wu (Chinese Taipei); (3) Mr. J.B. Mohapatra (India); (4) Mr. Suresh C. Chaurey (India); (5) Mr. Hemantra Kumar Patra (India); (6) Dr. Deepak Kumar Das (India); (7) Mr. Suresh Ch. Dala (India); (8) Mr. V.B. Nath (India); (9) Mr. B.S. Rawat (India); (10) Mr. A. Assadollahi (Iran); (11) Mr. Ashis Banerjee (India); (12) Mr. Syed Mansoob Ali Zaidi (Pakistan); (13) Mr. Mehrzad Ehsani (Iran); (14) Mrs. Zhaleh Vaziri (Iran); (15) Mr. Kai Wegerich (The Netherlands); (16) Mr. Gholamreza Khajeh Sahouti (Iran); (17) Mr. T.M. Dholakia (India); (18) Mr. M.S. Zaman (India); (19) Mr. N.B. Patel (India); (20) Mr. G.V. Surendra (India); (21) Mr. H.V. Shivakumar (India); (22) Mr. D. Kalpana (India); (23) Dr. Radha Y (India); (24) Dr. Ch. Sreenivas (India); (25) H. Rahman (India); (26) B.N. Bilgundi (India); (27) Dr. S. Vishnu Vardhan (India); (28) Dr. G. Kishore Babu (India); (29) Dr. K.Y. Reddy (India); (30) Dr. T.V. Satyanarayana (India); (31) Mr. Mohammad Kiafar (Iran); (32) B.S. Patil (India); (33) Dr. C. Venkata Reddy (India); and (34) S.D. Kabbur (India).

Website: http://www.wg-hist.icidonline.org/

Item 1 : Confirmation of minutes of the 11th meeting of WG-HIST

As no comments on the minutes of the 11th meeting were received, the minutes of the 11th meeting held on 13 October 2008 at Lahore, Pakistan were confirmed.

Item 2 : Review of membership of the Working Group

Mr. Charles L. Abernethy (UK) vide his e-mail of 1 December 2009 has informed the Central Office that he will not be able to attend the WG-HIST meeting scheduled on 6 December 2009 at New Delhi.

Members who were neither present at the meetings nor contributed through correspondence for the last two consecutive years were:

- Mrs. F. Sinati (Italy)
- Dr. Naser Shayan (Iran)
- Prof. Zorko Kos (Croatia)
- Mr. Aliyu Jada (Nigeria)
- Mr. Satit Maneepai (Thailand)

- Dr. Alexus Vogel (Austria)
- Mr. Jean Verdier (France)
- Mr. B.D. Pateria (India)

The Central Office (CO) requested fresh nominations from the concerned National Committees.

In response, Iranian National Committee (IRNCID) nominated Dr. Kamran Emami (Iran) in place of Dr. Naser Shayan and the Indian National Committee (INCID) nominated Mr. Yogesh Paithankar (India) in place of Mr. B.D. Pateria. Both nominations were accepted.

The Pakistan National Committee (PANCID) nominated Mr. Zarar Aslam in place of Dr. I.B. Shaikh for the membership of the WG. As Mr. Aslam was not present at the meeting, his nomination was differed till the next meeting of the WG in 2010.

It was decided to continue the membership of Mrs Sinati (Italy), Mr. Maneepai (Thailand) and Mr. Verdier (France), in view of their involvement in the current WG-activities related to these countries.

It was also decided to make one final request to NCs of Croatia, Nigeria and Austria for fresh nominations or else the membership of Croatia, Austria and Nigeria in the WG-HIST may be terminated.

2.1 Election of Chairman

Dr. Kamran Emami (Iran) was nominated as the new Chairman of WG-HIST. His nomination was accepted.

The WG members profusely thanked Prof. Dr. N. Hatcho (Japan) for Chairing the WG since 2002 and his active contributions in the activities of the WG including history seminars. Prof. Hatcho was instrumental in bagging the first *Best Performing Workbody Award* (BPWA) for WG-HIST in 2005.

A. CONTINUING ITEMS

Item 3 : Report by the Chairman on progress made by the National Working Groups (NWG) on their assignments

History chapters from member countries are being prepared. Mr. Charles L. Abernethy (UK) communicated that Ms. Bhadra Kamaladasa of Sri Lanka Irrigation Department has recently compiled a book on History of Sri Lanka. Prof. Hatcho is in contact with Sri Lanka to get an electronic version of the chapter to include the History of Sri Lanka as a part of publication on Eastern Asian History of Irrigation. Response is still awaited.

Regarding USA, a right person to contribute is yet to be identified. Currently, a comparative history of the US Army Corps of Engineers and the Dutch Rijkswaterstaat is being written, which will be completed at the end of 2010. This book will be presented to the WG-HIST.

At the New Delhi meeting, a *History of Irrigation Development in Orissa, India* was presented by INCID. Other books on regional Indian irrigation history could be made available by INCID representative.

Item 4 : Progress on publishing History of Irrigation in Eastern Asia

The Chairman apprised the members on the progress on the *Eastern Asian* publication, renaming it as a "*Monsoon Asia History*". He informed that the Dutch comment was e-mailed in November 2009 which focused on the variation in the size of the national contributions to the *Monsoon Asia History.* The Chairman will make a more concise version and a synthesis. The Chinese NC was requested to send an updated electronic version on the *Chinese History of Irrigation* book published in 2005.

Item 5 : Progress on publishing History of Irrigation, Drainage and Flood Control in Southern Europe and the Mediterranean

At the New Delhi meeting, Prof. Segura presented a print of a bilingual updated draft version on *'Reflections on the History of Irrigation and Drainage in Spain'*. He will integrate the text about Portugal.

Item 6 : Cooperation with International Water Organizations

Information provided by Dr. Klaus Röttcher (Germany) on the phase-I of the Project and that of writing a compendium with a focus on Mediterranean area and the Middle East, was noted. Information on short courses on the world history of water management, provided by Dr. Hayde, was also noted.

WG- members were encouraged to submit papers for the new Journal 'Water History' and also possibly participate in the International Conference on Water History during 16-19 June 2010. The IWHA representative Dr. Maurits Ertsen (e-mail: m.w.ertsen@tudelft.nl; m.ertsen@citg.tudelft.nl) may be contacted for more information.

Item 7 : Website of WG-HIST

The Chairman apprised the members on current status. WG members were encouraged to facilitate the access of information related to WG-HIST activities, which are to be provided with links on the NC websites.

Item 8 : Work plan

Dr. Hafied A. Gany (Indonesia) proposed to organize a History Seminar of the WG on 'History of Irrigation in Eastern Asia', focusing especially on the use of modern water technology in 2010 during the 61st IEC meetings in Yogyakarta, Indonesia.

Dr. Gany informed that the seminar will focus on historical evolution of an irrigation system and associated governance mechanisms, as well as adaptation measures (innovative mechanism or technology) to cope with rapidly changing economic, social and environmental conditions surrounding irrigated rice farming, in particular under small land holding, high sediment transportation, and high water fluctuation (drought and flood). Specifically the seminar will cover the following aspects:

- technology (efficient water use, water productivity increase, water savings) and infra structural development
- management of organization (water users' association, leadership, organizational setup)
- institutional and legal frameworks (rules, enforcement of rules, fee collection, federation of association, laws and regulations)
- governance system (water governance structure, conflict resolution)
- hydraulic structures and management of irrigation system
- sustainable development
- comparative perspectives

The WG-HIST decided to prepare an outline for a one-day seminar, with a maximum of 15 presentations. A documentary presentation will also be included. The organization of a half-day tour, relating to the irrigation history of Indonesia, will be taken into consideration.

The technical organization committee will be composed of Prof. Hatcho, Dr. Gany, Dr. Emami and Dr. Roettcher/ Prof. Fahlbusch. Contact Dr. Hafied A. Gany (Indonesia) at e-mail: gany@hafied.org for more information

During the 62nd IEC Meeting and the 21st ICID Congress on Irrigation and Drainage during 16-23 October at Tehran, Iran, a History Seminar will be organized. The theme will be *'Possibilities of Using Traditional Methods in Modem Water Management Systems'*. Dr. Emami distributed the 2nd announcement of the Tehran congress. Members were encouraged to submit papers for the History Seminar. Contact: Dr. Kamran Emami (Iran), E-mail:emami@kuritkara.com; kkemami@gmail.com.

B. NEW ITEMS

Item 9 : New name and mandate of the Working Group

WG-HIST had decided in its 10th meeting (2007) held at Sacramento to change and enlarge its set of objectives and sum up its activities. The name of the new Working Group was proposed to be *'Working Group on History of Agricultural Water Management'* (with the same acronym as WG-HIST).

However, at the Delhi-meeting the WG decided to maintain the original name of the WG. As far enlarging WG's mandate was concerned, the focus will be on governance, institutions and management issues of irrigation and drainage systems, sustainable development and integrated water management in rural areas.

Item 10 : Any other business

- **Indian Water Culture**

An excellent book in English has recently been published under the title of "Indian Water Culture". Members noted the information.

- **The Untiring Indian**

ICID fraternity is well aware of the first Secretary General SG Hon. N.D. Gulhati who served our institution for 7 years (1950-57), Late Gulhati's son, Prof. Dr. Shashi Gulhati who also is the liaison contact for ICID with Gulhati family for obtaining the 'N.D. Gulhati Memorial Lecture' funds, has brought out a historic work "The Untiring Indian". Members noted the information.

- **ICID European Regional Conference, 16-20 May 2011 at Groningen, the Netherlands**

NETHCID elaborated a draft proposal for the 25th Regional Conference in 2011 on *Integrated Water Management for Multiple Land Use in Flat Coastal Areas*. The reason for this proposal was that man-induced changes in land use, land subsidence and climate change have created a sense of urgency to coastal managers around the world.

The conference will explore four topics:

- Multiple land use
- Fresh water management and salt intrusion -Flood risk management
- Institutional arrangements and history.

Regarding historical aspects, the focus will be on historical perspectives of developments in flat coastal areas.

In December 2009, a first announcement was presented and published on the ICID-website. It was also distributed at the Delhi WG-meeting. All WG-HIST members were invited to participate and submit papers.

- **Presentation on 'Legendary Qanats'**

  Dr. Emami (Iran) made a presentation on historic qanats, which was much appreciated.

- **Discussion on Sustainability through History**

  Dr. Emami (Iran) will start a virtual discussion on sustainability through history.

The Chairman thanked the members for the cooperation and support during his term as Chairman of WG-HIST and welcomed Dr. Emami (Iran) as the new Chairman.

APPENDIX XIII [PCTA Item 4.3.3]

Minutes of the First Meeting of the
WORKING GROUP ON ENVIRONMENT (WG-ENV)
New Delhi, India
06 December 2009: 09.30-13.15 hours

Strategy Theme: Basin

Year of Establishment: 2008 **Completion of the Mandate: 2014**

Mandate: To understand the process of environmental impact analysis making this a part of all project evaluation, major environmental problems as addressed by each country, and effects of irrigation and drainage on the natural environment, flora, fauna and human beings; and recognising the project/site specific nature of the problem, to provide guidance to project designers and managers in identifying and minimising adverse environmental impacts

…….

As per the minutes of the 23rd meeting of the Working Group on Environmental Impacts of Irrigation, Drainage and Flood Control Projects (WG-ENV), a new name has been proposed for the WG as *"Working Group on Environment"* (with the same acronym as WG-ENV). A new mandate has also been proposed. The new WG-ENV will hold its first meeting in December 2009 at New Delhi. The tenure of the erstwhile WG-ENV was from 1986 to 2008. The current membership of the WG is emerging from the erstwhile WG-ENV.

Members Present: (1) Dr. Hu Heping, Chairman (China, 2008); (2) Prof. Yih-Chi Tan, Vice Chairman, (Chinese Taipei, 2008); (3) Dr. Ge van den Eertwegh, Secretary (The Netherlands, 2008); (4) Mr. Barkat Hadid (Syria, 2008) represented by Mr. Jabbar Aziz Beigi; (5) Mr. Mohammad Kazem Siahi (Iran, 2008) represented by Mr. Ezzatollah Farhadi; (6) Mr. Osmo Antero Purhonen (Finland, 2008); (7) Dr. Choi, Joong-Dae (Korea, 2008); (8) Vice President Hon. Jose A. Ortiz Fdz.-Urrutia (Spain, 2008); (9) Vice President Illahi B. Shaikh (Pakistan, 2008) represented by Mr. Husnain Ahmad; (10) Mr. Taner Kimence (Turkey, 2008); (11) Mr. Serge Marlet (France, 2008) represented by Dr. Sylvain R. Perret; and (12) Prof. Dr. N. Hatcho (Japan, 2008) represented by Prof. Kazumi Yamaoka.

Members Honoraire Present: President Dr. Chandra Madramootoo (Canada), and VPH Henri Tardieu (France).

Observers: (1) Mr. François Chrétien (Canada); (2) Mr. C.K. Agrawal (India); (3) Dr. Sandor Szalai (Hungary); (4) Mr. Nityananda Mukherjee (India); (5) Mr. Gao Lihui (China); (6) Mr. Pei Yuansheng (China); (7) Mr. Huang Jiesheng (China); (8) Mr. Clarke Ballard (Australia); (9) Dr. Gerhard Backeberg (South Africa); (10) Abdul Rahman Aljughaiman (Saudi Arabia); (11) Navneet Kalia (India); (12) Mr. M.S. Thakur (India); (13) Mr. Bernard Vincent (France); (14) Mr. Mohammad Sadegh Jafari (Iran); (15) Mr. Azim Ashayeri (Iran); (16) Mr. Mostafa Vatanzadeh (Iran); (17) Mr. Jaakko Sierla (Finland); (18) Dr. A.B. Khot (India); (19) Mr. Reza Daftarimanesh (Iran); (20) Dr. Mehdi Ghomeshi (Iran); (21) Mr. Faisal Shalhoub (Iran); (22) Mr. Abbas Rikhtechi (Iran); (23) Mr. V.M. Sikka (India); (24) Pancharutnam Dakshnamoorthy (India); (25) Dr. Kim Jintaek (Korea); (26) Mr. B.S. Patil (India); (27) Mr. S.D. Kabbur (India); (28) Mr. Prashant Jaiswal (India); (29) Mr. Praveen Jain (India); (30) Mr. Laurie Tollefson (Canada).

A. FINAL SITTING OF ERSTWHILE WG-ENV

Around 44 persons were present at the New Delhi (2009) meeting which included WG members and observers.

Item 1 : Confirmation of the minutes of 23rd meeting of the WG-ENV

The minutes of the 23rd meeting of the Working Group held at Lahore in October 2008 were confirmed.

Item 2 : Unfinished issues emerging from erstwhile WG-ENV

2.1 Impacts of water projects on human health

At the Lahore meeting (2008), the Working Group discussed the need to focus on effects of water quality on human health and its linkage with irrigation and drainage. Water-related diseases are issues for consideration. The WG suggested removing the words '*in rural areas*' from the title and keep only '*Impacts of water projects on human health*'.

In addition, at the New Delhi meeting (2009) it was decided that some more changes should be made. Water projects in the title of 2.1 should be replaced by irrigation and drainage projects. The new title for 2.1 will then be 'Impacts of irrigation and drainage projects on human health'. In the mandate, ecological could be replaced by biological. On the other hand, ecology has a wider cover than biology. Ecology is about how systems work as a whole and includes biology. Therefore, we leave ecological in our mandate. We look both to positive and negative impacts of irrigation and drainage projects.

The new mandate of WG-ENV can be found under Item 3.

2.2 The environmental cost and benefits of irrigation schemes involving large dams and solutions for mitigating negative impacts

At the Lahore meeting (2008), the Working Group agreed that it is useful to highlight all positive and negative environmental impacts of irrigation and drainage projects rather than pointing out only the negative impacts. It was suggested that the possibility of incorporating mitigation/adaptation measures so as to reduce any negative environmental consequences/ impacts from projects as far as possible should be kept in view in impact analysis.

It was stated (2009) that irrigation and drainage projects often change from local to regional environment and this change itself is sometimes seen as negative, where the environmental or total impact might be positive. It was further stated to look at the scale issues and that it is important not to forget the scale to which extent impacts progress. WG-ENV should bear that in mind (local, regional, national, and global) with her activities. Measures, impacts, and tools are likely to be scale-dependent.

It is important for WG-ENV to look for cooperation with other WG's within ICID and organizations outside ICID, e.g. IUCN.

2.3 The improvement of agricultural return flow and requirement of environmental flow

Neither Mr. Mills (IAL-ANCID, Australia) nor a representative was available for presentation on the subject. Mr. Clarke Ballard (Australia), who was present in the meeting, may contact IAL-ANCID for presentation on the subject.

Recommendations of the conference on '*Environmental flows of Himalayan Rivers'* held in July 2009 were circulated during the meeting. The Chair will contact the authors of these recommendations and discuss about cooperation and/or presentations of results in the future.

ICID President Dr. Chandra Madramootoo stated that environmental flow issues as well as drainage return flows are of interest to ICID and should be discussed within the WG-ENV, both from a water quantity and quality perspective. He also stated the importance of looking at acid-sulphur-soils, organic soils, and its environmental impacts (suitability for sustainable agricultural use, solutes in drainage water, soil subsidence etc).

2.4 Presentations in 2007, 2008, and 2009

Presentations made in 2007, 2008, and 2009 are listed in **Annex** for reference.

Item 3 : Suggestions to the new WG-ENV

Considering the suggestions made earlier, the new mandate of WG-ENV was finalized as below:

> "To provide guidance to policy makers, planners, designers, and managers in the irrigation and drainage sector on the environmental aspects of drainage and irrigation systems. The environmental aspects are physical, chemical, ecological, socio-economic and cultural, as well as concerns to the effects on climate and human health. By looking at environmental aspects, the working group will aim for the management of a sustainable environment, maximizing positive and minimizing adverse effects of irrigation and drainage systems".

Water quality aspects of drainage return flows play an important role in the work of WG-ENV.

It was also suggested to possibly consider food safety as a theme to be addressed. On the other hand, focusing on main environmental themes and sub-themes by WG-ENV was important. For the time being, therefore, the food safety theme was put on hold.

B. MAIDEN SITTING OF NEW WG-ENV

Item 4 : Formalization of the composition of the new WG

4.1 New nominations

Pakistan: The Pakistan National Committee (PANCID) has nominated (19 August 2009) Mr. Javeed Iqbal Bokhary in place of Dr. I.B. Shaikh for the membership of WG-ENV. His nomination was accepted in principle (Mr. Husnain Ahmad represented him) subject to formal acceptance during the next meeting in 2010 when Mr Bokhary is present. In mean time Mr. Bokhary may contribute to the activities of the WG, as appropriate.

South-Africa: Dr. Theresa Volschenk' nomination (nominee in 2008) was again deferred to the next meeting in 2010. She was represented by Dr. Gerhard Backeberg.

India: Mr. C.K. Agrawal was nominated in place of Mr. A. K. Ganju (nominee in 2008). Mr. Agrawal was present and his nomination was accepted.

Iraq: Mr. Ahmed Aziz's nomination (nominee in 2008) was again deferred to the next meeting in 2010. Mr. Aziz was neither present nor represented in the meeting.

France: Dr. Sylvain Perret was nominated in place of Mr. Serge Marlet. Dr. Perret was present and his nomination was accepted.

4.2 Membership emerging from erstwhile WG-ENV

All existing members of WG-ENV will remain in position, with the new nominations and replacements effected under 4.1. The attendance list showed that the following members were neither present nor represented or replaced:

- Slovenia: Smiljan Juvan
- Egypt: Shaden Abdel Gawad
- Portugal: Almeida Fernandes
- Morocco: Belguenani Hassane
- Thailand: Natha Hungspreug

There were no contributions received from the persons mentioned above. The Central Office may seek fresh nominations from these countries.

Dr. Dennis Wichelns (USA), though not present (due to Indian Visa problem), contributed in 2009 by sending journal articles to the Secretary of the WG that were of interest to WG-ENV.

Note: For WG-ENV to be successful, it is important that its members contribute actively to its activities throughout the year and by preferably physically attending the WG meetings cum workshops regularly.

Item 5 : Election of Chair, Vice Chair and Secretary

The WG has deliberated the issue of new Chair, Vice Chair and Secretary during the meeting. For continuity of the activities, it was decided that the present Chair will continue as the New Chairman. The Vice Chair and Secretary continue as well. Item 5, however, will be on the agenda again during the WG meeting in 2011.

Item 6 : Discussion on the new WG mandate (considering the suggestions from erstwhile WG-ENV)

6.1 Environmental aspects of irrigation and drainage projects

Refer Item 7 for scope of this item.

6.2 Impacts of irrigation and drainage projects on human health

Refer Item 7 for scope of this item.

6.3 Management of a sustainable environment (maximizing positive and minimizing adverse effects of irrigation and drainage systems)

Refer Item 7 for scope of this item.

6.4 Website of WG-ENV

The Chairman informed that the work on website is still pending and he will take appropriate actions shortly.

6.5 ICID position paper of WG-ENV

The Secretary, WG-ENV covered (2008) the draft report of WG-ENV to be served as a draft ICID position paper. Following structure / sections were approved for modifying the draft version:

- Introduction and objective
- Environmental impacts
- Good Governance
- Guidelines and Criteria (references and remarks to existing documents)
- Implementation aspects
- Legislation and Enforcement
- Lessons learned
- Conclusions and recommendations

It was also decided that the Secretary will act as an editor and a coordinator. Secretary apologized for not having finished the draft version. He, however, informed the WG members of the work done so far, e.g. looking at information and documents relevant for the sections mentioned.

There was a discussion on the position paper - *'Where do we stand now*'? The paper should be more focused. Towards the conclusion of the position paper, this focus should ultimately be clear. It was a good suggestion from the participants to define and focus on 3 to 4 sub-themes as far as the conclusions of the paper are concerned. These would then be WG's major focus for the next three years to come. The WG may elaborate further on these sub-themes, based on conclusions and questions raised in the paper on the following issues:

1. Physical, chemical, and biological impacts
2. Socio-economic and cultural impacts
3. Impacts on human health
4. Good Governance and enforcement

The enforcement of taking environmental impacts into account can either take place by volunteer action, by policy plan, and/or by law and legislation.

The WG will link the position paper to objectives and mandate of WG-ENV. The length of the paper should be about 5 pages, but not exceeding 10 pages.

Mr. Henri Tardieu (France) will provide Secretary with a recent and good example of an ICID position paper.

6.6 New Items: The WG plans to focus on 3-4 sub-themes as above.

Item 7 : Work plan

A three-year rolling work plan (2010-2012) will be developed. It will be, in some way, a follow-up of the position paper and will include the sub-themes as mentioned above. The Chair will do his best to set up an action plan shortly.

It was suggested to include 'Nutrient leaching from agricultural soils' in the WG-ENV workshop in 2010 (see sub-theme 1).

Item 8 : Any other business

Seminar on Environmental flows at World Water Week, August 2009

Ms. Katharine Cross (IUCN) sought (2 July 2009) ICID's cooperation with IUCN and Environmental Flows Network in future as they would like the perspective of the agriculture sector in the network. More information on their network is available at www.eflownet.org. Members noted the information.

Human Resource Survey for Disaster and Risk Management

Members noted the information. More information is available at their survey link http://www.zoomerang.com/Survey/?p=WEB22986VV9L7G.

The First Drafts of White Papers in Preparation for the First UNCCD/ CST Scientific Conference

Members noted the information. More information on "Understanding Desertification and Land Degradation Trends" is available at their website www.drylandscience.org

Journal papers

Members noted the information on two papers circulated by Dr. Gé van den Eertwegh, Secretary, WG-ENV.

International Conference on 'Environmental Flow Requirements of Himalayan Rivers', 21-22 July 2009, Lucknow, India

Members noted the information. Chairman, WG-ENV will contact Mr. Ravindra Kumar (India) of the organizing committee (e-mail: ravindra53@yahoo.co.in) for the proceedings of the conference and to explore opportunities for further cooperation.

Chairman thanked all participants for their attendance and lively contribution to the 2009 meeting of WG-ENV. Meeting ended with a vote of thanks to the Chairman.

Annex [Appendix XIII, Item 2.4]

WORKING GROUP ON ENVIRONMENT (WG-ENV)

List of papers presented during WG-ENV Workshop at Sacramento (2007)

- An introduction to Three Gorges Project and its Environmental Aspects by Dr. Hu Heping (China)
- Brief on environmental impact of large dams by Dr. Illahi B. Shaikh (Pakistan)
- A brief on an Workshop organized by TWCWM, IHA with support from Arab Water Council, Arab Fund for ESD, Ministry of WRI of Egypt, IWRA and ICID in February 2007 at Cairo, Egypt, by Er. M. Gopalakrishnan, Secretary General, ICID.
- The Impacts of Drainage Projects on the Environment in Egypt by Ghada G. El-Refaie (Egypt)
- Non-Point Source Pollution Loads from Selected Agricultural Land Uses in Korea by J. Choi (South Korea)
- Multi-functionalities of paddy fields and multiple uses of agricultural water by N. Hatcho (Japan)
- Pontine land drainage system by Stefano Salbitani (Italy)
- SEA/EIA in The Netherlands: an overview by Gé van den Eertwegh (The Netherlands)

List of papers presented during WG-ENV Workshop at Lahore (2008)

- Water-sector environmental management program in Pakistan by representative Muhammad Ashraf Bodla (Pakistan)
- Water transfer project from South to North and it's environmental perspectives by Chairman Hu Heping (China)
- ICID special issue journal paper by WG-ENV, final report of WG-ENV, contribution of WG-ENV to WWF5, new name and mandate by Secretary Gé van den Eertwegh (The Netherlands)

List of presentations during WG-ENV Workshop at New Delhi (2009)

1. EU-project PSI-connect (see www.psiconnect.eu) Policy Science Interactions by Secretary Gé van den Eertwegh (The Netherlands)
2. 'Uncertainty, that's for sure' by Secretary Gé van den Eertwegh (The Netherlands)
3. 'Methane Emission from Irrigated Paddy Field: Case in China' by Chairman Hu Heping (China). Not presented in the workshop due to lack of time. However, presented during the meeting of WG-CLIMATE on 7 December 2009 by Vice Chairman Dr. Yih Chi Tan (Chinese Taipei).

APPENDIX XIV [PCTA Item 4.2.4]

Minutes of the First Meeting of the
WORKING GROUP ON ROLE OF IRRIGATION IN POVERTY ALLEVIATION AND LIVELIHOODS (WG-POVERTY)
New Delhi, India
6 December 2009: 09.30-13.15 hours

Strategy Theme: Systems

Year of Establishment: 2008 **Completion of the Mandate: 2013**

Mandate:

- Synthesize specific knowledge and experience from the irrigation sector, to design pro-poor actions in a wider understanding of irrigation along the whole rainfed-irrigated continuum (aka agriculture water management).
- Look for technical solutions that work within a clearly defined socio-economic context, so that they can be mobilized in a case specific approach.
- Emphasize multiple-use (mus) of irrigation systems as a specific approach to alleviate poverty in this context
- Increasing opportunities for greater and more open participation by the poor, in the development of systems and in the value chain,
- Building accountability mechanisms that give longer term support and commitment to poverty alleviation initiatives, and
- Guidelines supported by case studies on how to enhance the poverty alleviation and livelihood improvement impacts of new and existing projects.

Preamble: The idea of establishing the ICID Task Force on the "Role of Irrigation in Poverty Alleviation and Livelihoods" (TF-POVERTY) was emanated during the International Workshop on the "Role of Irrigation in Poverty Alleviation and Livelihoods" held on the sidelines of the 58th IEC meeting at Sacramento, USA in October 2007. The purpose of the TF was to prepare an ICID position towards participating in the consortium preparing WWF5's topic on "Water and agriculture for ending poverty and hunger". The duration of the TF was for two years and was to be concluded its activities at the 60th IEC by drawing lessons from the process of knowledge sharing and from WWF5 itself.

At the 1st meeting of the TF held at Lahore in October 2008, the TF mooted a proposal for conversion of the Task Force into a regular Workbody (in view of the ICID's key role to contribute to the poverty alleviation and improvement of livelihoods in developing countries) which was supported by PCTA and approved by the 59th IEC. Accordingly, a notification informing conversion of the Task Force (TF-POVERTY) into Working Group (WG-POVERTY) was circulated by the Central Office among members and all National Committees. National Committees were also informed that the maiden meeting of the Working Group will be held at the time of 60th IEC meeting at New Delhi.

Members present: (1) President Hon. Peter Lee (UK); (2) Prof. Linden Vincent (The Netherlands); and (3) Er. M. Gopalakrishnan, Secretary General, ICID.

Members Honoraire present: (i) President Dr. Chandra Madramootoo (Canada); and (ii) Vice President Hon. Felix Reinders (South Africa).

Observers: (i) Mr. Laurie Tollefson (Canada); (ii) Mr. Zeinab Behairy (Egypt); (iii) Mr. Enayatollah Farahani (Iran); (iv) Dr. Yohei Sato (Japan); (iv) Dr. Adama Sangare (Mali); (v) Mr. Hassan Javaid Afridi (Pakistan); (vi) Mr. Bashir Ahmad Sial (Pakistan); (viii) Dr. Andrew Sanewe (South Africa); (ix) Mr. Andre Roux (South Africa); (x) Dr. Vijay K. Labhsetwar, Director, ICID; (xi) Mr. R.C. Jha (India); (xii) Mr. Rajendra Pawar (India); (xiii) Mr. Ashok Surushe (India); (xiv) Mr. Vijay S. Ghogare (India); (xv) Mr. Suresh Ch. Dale (India); (xvi) Dr. Deepak Kumar (India); (xvii) Mr. P. Dakshna Moorthy (India); (xviii) Mr. Suresh Charchy (India); (xix) Mr. J.B. Mohapatra (India); (xx) Dr. A.B. Khot (India); (xxi) Mr. Sharad S. Dabhadkar (India); and (xxii) Mr. Hemanta Kumar Patra (India).

Despite the absence of several members and all the Permanent Observers of the former Task Force, the meeting was well attended. PH Peter Lee and Prof. Linden Vincent agreed to act respectively as Chairman and Secretary of the meeting.

Website: http://afeid.montpellier.cemagref.fr/Poverty/TF-POVERTY.htm

Item 1 : Membership of the Working Group

PH Peter Lee explained the achievements of the former task force as a focus for poverty alleviation and livelihood generation through agricultural water management, and the collaboration with other organizations such as IFAD, Winrock, the Multiple-use Group (mus) and IWMI culminating in ICID's leadership of the topic "Water and Food for Ending Poverty and Hunger" and relevant inputs to other sessions at the 5th World Water Forum in Istanbul, March 2009.

In Lahore, October 2008, it had been agreed that the Task Force should be converted to a Working Group with an updated mandate and work plan. Following the decision of the 59th IEC, the Central Office (in March 2009) circulated a notification informing conversion of the Task Force (TF-POVERTY) into Working Group (WG-POVERTY) among all National Committees and invited nominations for the membership. In response, the following National Committees nominated their candidates:

NETHCID (The Netherlands): Prof. Linden Vincent
USCID (USA): Dr. Dennis Wichelns
IRNCID (Iran): Mr. Enayatollah Farahani
JNC-ICID (Japan): Dr. Yohei Sato
PANCID (Pakistan): Mr. Hussan Javaid Afridi
INCID (India): Mr. R.C. Jha

The following nominees from the above were present at the meeting and were accepted for the membership:

- Mr. Enayatollah Farahani (Iran)
- Dr. Yohei Sato (Japan)
- Mr. Hassan Javaid Afridi (Pakistan)
- Mr. R C Jha (India)

Besides the above, the following persons indicated their interest in joining the Group and were accepted for the membership:

- Mr. Andre Roux (South Africa)
- Mr. Laurie Tollefson (Canada)
- Dr Adama Sangare (Mali)

All these new members were present at the meeting and participated actively.

Item 2 : Objectives and tenure of the Working Group

It was noted that the new working group was successor not only to the former task force, but also WG-SOCIO that had been in existence for some years prior to the formation of TF-POVERTY. The new working group should be concerned with:

(a) Improvements in livelihoods as well as productivity,
(b) Services to the poor, not just farmers,
(c) Different manifestations of poverty and their definition,
(d) Affordability of food, not just its cost,
(e) Wider access to services and opportunities for participation in the value chain,
(f) Participatory approaches that listen to the poor and are open to ideas (aka accountability),
(g) Extension of agricultural water management to nominally rainfed areas and general "landcare",
(h) Multiple use of farm storage, not just of public systems (eg for aquaculture),
(i) Greater awareness of health impacts and the actions needed, and
(j) Need for guidelines, case studies and country actions.

Item 3 : Selection/ nomination of Chair/ Vice Chairpersons and Secretary of the WG

Despite his new commitments, the Chairman of the Working Group, VPH Dr. Alain Vidal, has expressed continuing interest in WG-POVERTY and therefore, the meeting requested that he continue as Chairman, but with the support of at least one Vice Chairperson. Mr. Jha (India) said that he should be able to attend the next two annual meetings in Indonesia and Iran, and he was recommended as the first Vice Chairperson.

Other nominations were requested, but none received.

Item 4 : Work Plan of the Group

After consideration of the objectives of the New Working Group, the three-year rolling plan (2010-2012) is shown as **Annex**.

It was also agreed that some National Committees (e.g. India and Iran) may set-up their own workbodies to focus on poverty alleviation, in parallel with the international effort.

Item 5 : Webpage of the Group

It was noted that the webpage of TF-POVERTY is hosted by AFEID. Central Office was requested to set-up links from the ICID domain or transfer content as appropriate.

Item 6 : Any other business

None.

The Chair for the meeting thanked the participants for their active support.

Annex [Appendix XIV, Item 4]

WORKING GROUP ON ROLE OF IRRIGATION IN POVERTY ALLEVIATION AND LIVELIHOODS (WG-POVERTY)

Three-Year Rolling Plan (2010-2012)

2010	2011	2012
A workshop to be held most probably within the time slot allocated to the WG-POVERTY at the 61st IEC in Indonesia with presentations possibly on: • Definition of poverty – Prof. Linden Vincent • Case studies from countries of poverty alleviation initiatives – Mr. R.C. Jha • Opportunities for the poor in the value chain (supply and processing) – Prof. Linden Vincent • Multiple use of farm storages (South Africa) – Mr. Andre Roux • Employment opportunities for the landless poor – PH Peter Lee • Measuring benefits (Winrock?) etc.	Case studies of irrigation/water management poverty alleviation by region, beginning with the platform provided by the African Regional Conference in Mali	Paper/s on poverty alleviation addressing the issues to be raised at the 21st ICID Congress in Tehran, particularly question 56.1 (Water and Land Productivities: Concepts, Indices, Schemes and Targets) and the Special Session on Modernization of Water Management. Towards the end of this period, the concept note from the Istanbul WWF5 will be updated, as an ICID position paper to complete the WG-POVERTY mandate in 2013.

APPENDIX XV [PCTA Item 5.1]

Minutes of the Third Meeting of the
TASK FORCE TO GUIDE ICID INPUTS TO WWF-5
New Delhi, India
06 December 2009 : 09:30-13:15 hours

Terms of Reference (ToR):

- To liaise with 5th WWF Program Committee and other International Bodies.
- To provide overarching lead role on behalf of ICID for inputs to 5th WWF by liaising with –
  - National Committees for inputs to the themes and sub-themes of the 5th WWF, of direct relevance to ICID.
  - Coordinating with Workbodies on specific subjects related with 5th WWF.
- To liaise with Turkish National Committee (TUCID) for preparatory work of 5th WWF.
- To coordinate joint contributions with other water-related International Organizations.
- To suggest ICID inputs for 5th WWF for consideration in IEC.

Members Present: (1) Prof. dr. Bart Schultz, President Hon., ICID (The Netherlands), Coordinator, represented by Mr. Henri Tardieu, Vice President Hon., ICID (France); (2) Prof. Dr. Chandra A. Madramootoo, President, ICID (Canada); (3) Dr. Hector Malano, Vice President Hon., ICID (Australia); (4) Dr. Alain Vidal, Vice President Hon., ICID (France) represented by VPH Tardieu; (5) Mr. Hasan Basri Yuksel, Representative of Turkish National Committee of ICID (Turkey) and (6) Engr. M. Gopalakrishnan, Secretary General, ICID (India).

Member Honoraire Present: VPH Dr. S. Nairizi (Iran).

Observers Present: (1) Mr. S.A. Assadollahi (Iran); (2) Dr. C. Venkata Reddy (India); (3) Mr. Mohammad Kiafar (Iran); (4) Mr. N. Venkataramakrishnan (India); (5) Mr. N. Kandavel (India); (6) Mr. Jaako Sierla (Finland); (7) Er. K.N. Sharma, Secretary, ICID (Central Office); (8) Mr. M. Rajendran (India); (9) Mr. M. Kolandasamy (India); (10) Mr. S. Sivalingam (India); (11) Mr. Prashant Jaiswal (India); (12) Mr. Praveen Kumar Jain (India); (13) Mr. Daniele La Porto (World Bank, Brazil); (14) Mr. Raman A.C. (India) and (15) Mr. V. Munaswamy (India).

Initial Remarks:

Chairman Aly Shady and the Coordinator Prof. Bart Schultz could not attend the meeting. Vice President Hon. Henri Tardieu chaired the meeting. Mr. K.N. Sharma, Secretary, ICID acted as the Secretary for the meeting.

Item 1 : Confirmation of Minutes of 2nd meeting of TF at Lahore, Pakistan, 15 October 2008

There being no comments from the members on the minutes of the 2nd meeting of the TF held in Lahore, the minutes were confirmed.

Item 2 : Report on ICID Contributions to WWF-5 Themes and Topics, 16-22 March 2009, Istanbul, Turkey

VPH H. Tardieu reported with satisfaction that the question of Water for Food was addressed properly in Istanbul. A detailed report on the ICID contributions has been covered in the agenda of the TF. On the suggestion of Prof. dr. Bart Schultz, Coordinator, the Central Office has prepared a CD-ROM containing the Synthesis Report of Topic 2.3. The Chair appreciated the efforts of the CO in bringing out the CD which was distributed to all members as well as observers present at the meeting. This CD also provides the PowerPoint presentations made at various sessions and the comments that were made during the presentations. Thus, it is a comprehensive report on the Topic 2.3 that was coordinated by ICID in WWF-5. It was noted that in addition to the presentations on Topic 2.3, ICID also contributed to Sessions 1.1.3, 1.2.3, 1.3.3, 2.2.1, 2.4.2, 3.2.3, 3.3.3, 3.3.4, 4.2.4, 5.1.4, 6.3.2, Topic 5.2, and Sessions on Drought, Water Management 2020, Mega disasters, and Irrigation. In the Session on Drought, VPH Dr. Saeed Nairizi, Iran, described activities related to drought, water scarcity and risk management undertaken by ICID.

It was noted that several participants from the ICID fraternity attended the Forum including President Chandra Madramootoo. The details are covered in the agenda of this TF.

At the meeting, Secretary K.N. Sharma mentioned that on the suggestion of President Hon. Schultz, the Central Office has prepared a CD containing the final synthesis report on Topic 2.3 of the WWF-5. VPH H. Tardieu went through various presentations made at the 4 sessions under Topic 2.3. He said that the final report as contained in the CD is now accepted.

The meeting proposed that this Synthesis Report could be disseminated through a CD-ROM that may be distributed to all the ICID NCs, OBs, WB Chairs within ICID family and to the members of Consortium as well as international organizations. The other alternative could be to disseminate this Synthesis Report through the ICID Website, if the costs involved in the preparation of the CD are substantially high. SG mentioned that the costs may not be very high for producing the CD-ROMs which will be a better mode of disseminating the report widely. ICID website also contains the Synthesis Report. VPH Tardieu suggested that the CD-ROM that is prepared by the CO should separately link all the sessions clearly and the presentations made at the sessions also be included.

(The Committee on PR&P later suggested that the summary of the Topic 2.3 conclusions and recommendations be brought out in printed form and the full report, together with the presentations made in various sessions with proper linkages on a CD-ROM kept in an attached cover with the printed document.)

Item 3 : ICID inputs to 5th WWF through World Water Development Report 3 (World Water Assessment Programme – UNESCO) – Secretary General's Report

Secretary General Gopalakrishnan briefed the TF about the WWDR 3, Istanbul. The development of the WWDR 3 was a joint effort of 25 UN agencies and entities which include UN-Water, governments, international organizations, non-governmental organizations and other stakeholders. The report is uploaded at <http://www.unesco.org/water/wwap/wwdr/>.

Item 4 : Formal closure of the TF

The TF has completed its mandate. It was decided to close the present TF to Guide Inputs to WWF-5, noting that the TF had done an excellent work and its contributions were very valuable. The TF recorded its heartfelt thanks to the Chair, PH Aly Shady, PH Bart Schultz, Coordinator for Topic 2.3, VPH Tardieu, Secretary General Gopalakrishnan and Central Office for all their work and efforts.

Item 5 : Any Other Business (with the permission of the Chair)

VPH Tardieu suggested that the ICID needed to continue to provide its inputs to the future Forums as well. Thus, there will be a need to create a new TF to provide ICID inputs to WWF-6 which will be held in Marseilles, France in 2012. SG Gopalakrishnan mentioned that there will be some ICID members at the time of the kick-off meeting for WWF-6 in Marseilles in March 2010. As understood presently, the theme of this Forum relates to "Urban Urgency" to focus on fresh water for urban areas and related issues. Depending upon the exact nature of the theme and various topics under it, the MB can take a view to decide the possible composition of new TF to provide ICID inputs to WWF-6. This could be by virtual meetings.

Dr. S. Nairizi mentioned that rainfed agriculture was an important issue, rainfall being an important resource for food security but recognized that this issue is difficult to be considered by the World Water Forum which is more focused on water than food. He mentioned that urban agriculture was also getting importance in some regions.

Dr. Hector Malano mentioned that the subject of multiple uses of water was becoming increasingly important in the light of water scarcity. Environmental management was also having priority over other uses in many parts of the world such as Australia.

VPH Tardieu mentioned that biodiversity and environmental flows were important aspects that needed consideration as they have now higher priority than food production in many developed countries. Thus joint management of water resources was necessary.

SG Gopalakrishnan mentioned that the members of ICID fraternity who will be available at the kick-off meeting of WWF-6 in Marseilles in March 2010 will take up these issues and see where and how these can fit in as ICID contributions to the theme decided for the WWF-6.

VPH Tardieu suggested to approach IWA to see how to continue our efforts for a better involvement of our international professional organizations in the preparation of the WWF with the World Water Council.

The meeting was closed with thanks to the Chair of the meeting, VPH Tardieu.

APPENDIX XVI [PCTA Item 4.1.5]

Minutes of the Second Meeting of the
WORKING GROUP ON TECHNOLOGY AND RESEARCH UPTAKE AND EXCHANGE (WG-TRUE)
New Delhi, India
06 December 2009: 14.15-18.00 hours

Strategy Theme: Knowledge

Year of Establishment: 2007 **Completion of the Mandate: 2011**

Mandate: To support research and development of technology and innovation processes for improved irrigation and drainage

Members Present: (1) Prof. L. Vincent, Chairperson, 2007 (The Netherlands, 1995); (2) Prof. J.G. Annandale (South Africa, 2003) represented by Dr. Gerhard Backeberg; (3) Mr. Geoff Pearce (UK, 2003) represented by PH Peter Lee; (4) Mr. Ezzatollah Farhadi (Iran, 2005); (5) Dr. Mohammud Che Hussain (Malaysia, 2005); (6) Mr. Stephen Mills (Australia, 2005) represented by Dr. Willem F. Vlotman; (7) Dr. Enrique Playan (Spain, 2006) represented by VPH Dr. Jose A. Ortiz; and (8) Er. M. Gopalakrishnan, Secretary General, ICID.

Permanent Observers: PH Peter Lee (UK)

Members Honoraire Present: (i) President Dr. Chandra Madramootoo (Canada); and (ii) VP Dr. Hafied Gany (Indonesia).

Contributed by mail: (i) Dr. (Mrs.) Shaden Abdel-Gawad (Egypt), (ii) Dr. John A. Replogle (USA); and (iii) Prof. Yuanhua Li (China).

Observers: (i) Prof. Dr. Kazumi Yamaoka (Japan); (ii) Mr. François Chrétien (Canada); (iii) Mr. Indra Raj (India); (iv) Mr. Syaiful Mahdi (Indonesia); (v) Mr. Mehrzad Ehsani (Iran); (vi) Mr. A.K. Bajaj (India); and (vii) Mr. K.N. Sharma, Central Office.

Website: http://www.wg-true.icidonline.org/

Item 1 : Confirmation of the minutes of the 1st meeting held on 15 October 2008 in Lahore, Pakistan

The minutes of the 1st meeting of the Working Group held at Lahore were confirmed.

Item 2 : Review of membership, including new nominations

Two new nominations were tabled at the meeting with nominees present, and accepted at the meeting:

The new members are - Dr. Kazumi Yamaoka (Japan) in place of Dr. Yohei Sato and Mr. Indra Raj (India) in place of Mr. S.K. Chaudhuri.

The work by the Central Office (CO) to systemise membership from the merger of the previous committees AC-IPTRID and WG-R&D was recognised and has helped clarify membership. From Egypt, Dr Shaden Abdel-Gawad is Vice-Chairperson and Dr. H. Fahmy is now an Observer with the WG. India now has a new member. The WG-Chair and Central Office corresponded with members - Prof. Jiesheng Huang and Prof. Yuanhua Li who respectively attended in 2008 and sent comments to the questionnaire in 2009.

The Central Office has been in correspondence with NCs about a number of members of the two committees who have not attended or been in correspondence for 3 years now, to request their participation or replacement. These are Mr. J. Lelkes (Hungary); Mr. Sietan Chieng (Canada); Mr. Alain Delacourt (France); VP L. Ubertini (Italy).

Item 3 : Mandate of the Working Group

The WG discussed the existing mandate for WG-TRUE given at the Sacramento meeting which is "To support research and development of technology and innovation processes for improvement of irrigation and drainage". It was debated whether this should be expanded to included reference to technology uptake. The WG agreed to keep this mandate as its simplicity was valued. The Chairperson will formulate objectives for this mandate and related key themes for the work programme, that serve to specify this mandate and also show the work on technology uptake.

For this work, it was suggested to look at the older programmes proposed under AC-IPTRID and WG-TRUE, and the recommendations from the Lahore WG meeting, but also at the recommendations of the IPTRID Biennial review. However, a focused work programme was needed for the WG at this time. For information the older recommendations (Item 5 of the agenda i.e. work plan) are kept as **Annex 1** for reference.

Two objectives proposed in the discussion were:

- to support R&D (which looked more at innovation processes)
- research to improve irrigation and drainage, where impact of research was noted as a particular concern

The Chairperson agreed to develop this formulation with members, and use it as a guide to call for papers for the work programme.

Quite some discussion followed regarding research on irrigation and drainage. Topics seen as important to members and observers included:

- research on tools that facilitate the production and productivity of crops
- facilitation of modernization, or more widely research that facilitate modernization;
- farmers' participation in research

The Chairperson will follow up on the second topic with the WG-Modernization of Irrigation Systems.

Item 4 : Tenure of the Working Group

The WG confirmed its four-year tenure for completing its mandated plan.

Item 5 : Activities of the WG-TRUE

The WG decided to aim for two work activities at this moment. The first will be a workshop at the 2010 meeting, during its WG session. A second will be a further set of papers, to be presented either in the WG 2010 meeting, or presented as under sub-questions in the 2011 Congress.

Members present identified topics they could develop presentations for 2010, as follows:

- Prof. Vincent – Farmer uptake sprinkler technologies in Peru
- Dr. Yamaoka - Technology facilitating communication between farmers and service agencies
- Mr. Indra Raj - The development and impact of agro-meteorological forecasting for irrigated production
- Dr. Mohammud Che Hussain - Understanding lack of technology uptake
- Mr Farhadi – Research on needs to improve production and productivity

Topics will be sought from other members and other ICID members working in fields identified under item 3 and also in relation to case studies cited in questionnaires (item 5.4)

5.3 Follow-up from the World Water Forum

These were not discussed specifically. The Group recommended to stay on a focused field of key work for its remaining tenure period as discussed above. However, it is recognized that the mandate of WG-TRUE links particularly with items 2B and 3B of the ICID Synthesis of Topic 2.3 Annex XVI of agenda.

5.4 Responses to circulated questionnaire

During the first meeting held at Lahore, members/observers expressed it would be beneficial to collect experiences by inviting National Committees'/Members'/Observers' view points through a questionnaire/survey. Accordingly, the Central Office prepared a questionnaire and circulated it amongst all National Committees/ Workbody Chairs/ Members of WG-TRUE in March 2009 with a request to provide as much information as available. In response, the Central Office has received two filled-in questionnaires, from Prof. Yuanhua Li (China) and Dr. Enrique Playán (Spain), a member of WG-TRUE. In July 2009, the Central Office once again circulated the questionnaire among all National Committees/ Workbody Chairs/ Members of WG-TRUE for their experiences. In response, filled-in questionnaires were received from Dr. John A. Replogle, Secretary, WG-TRUE (USA); Renato S. Gamboa (Philippines); Dr. José A. Ortiz Fdz.-Urrutia (Spain) Mr. Mehrzad Ehsani (Iran); and PANCID/ IWASRI.

These inputs were appreciated but were small in number. They were compiled by the Chairperson under the headings of the questionnaire and discussed at the meeting. These questionnaires showed responses from countries with different structures and processes used in research, as well as a different problems focus and relation to farmers as shaped by a countries irrigation management context. The final edited compilation is attached as **Annex 2** to these minutes and circulated to members. It will also be followed up for further presentations for the work programme on the WG. A further questionnaire response may follow from the Iranian NC.

5.5 Revamping IPTRID

Observer, President Hon. Peter Lee announced that IPTRID in its older proposed structure has now ceased to exist, and currently is an FAO sub-organisation without a manager. There will be a fresh initiative from the President ICID to revitalise a new independent programme focused around technology research. The WG-TRUE welcomes this initiative, gives its support to it, and offers to help where it can in. The WG will also aim to collaborate with new programmes.

Item 6 : Website of WG-TRUE (combined)

This is under development. Past papers from special sessions will be loaded on the website.

Item 7 : Presentations by WG members

New member Mr. Raj gave a brief summary of his work and of research institutes relevant to the field of the WG in India. He also circulated:

- the list of Indian Council of Agricultural Research (ICAR) institutions under which are listed Deemed Universities, National Research Centres, National Bureaux and Directorates/Project Directorates. http://www.icar.org.in/node325
- the list of projects of the Indian Agricultural Research Institute. http://www.iari.res.in/inst_projects.php

New member Dr. Yamaoka also gave a brief summary of the organisation of research and how farmer actions and requests led to the development of Land Improvement Districts.

Dr. Ortiz provided more detail on the COREGEST and CORENET information systems mentioned by him and Dr. Playán in the questionnaire responses from Spain.

Information was also presented for discussion from Malaysia, Iran and South Africa. These points will be compiled alongside older information on research structures and approaches with the WG R&D.

Item 8 : Any other business

8.1 Mr. Sharma (Central Office) observed that the present mandate of the WG did not reflect research 'exchange' part, which included education and capacity building and asked whether the WG would look into this in the light of the name of the Working Group. The education, training and capacity building aspects which are important, were earlier dealt with under the WG-CBTE, which has since been wound up. The Chairperson felt that the scope of the subject of 'education' was very wide and it will be difficult to include it in the mandate of the WG-TRUE.

The CO tabled a MoU for Bilateral Collaboration between ICID and UNW-DPC in the field of Agricultural Water Management. It has a sub-objective focused on 'Efficiency in agriculture' the specifics of which were not detailed in the meeting. The WG-TRUE recognised the value of the MoU but saw this as a very broad topic for it which earlier would have been covered by the erstwhile working groups on Capacity Building and Performance. Observers noted there was a difference between technology research which required understanding of the needs of users and systems, and capacity building which should focus on the needs of the people using the technology. The WG recommended that this be discussed further at the PCTA, who might recommend an initiative that contacted ex-Chairmen and members, and used the output and interests of the ex-WGs on Capacity Building and Performance, and also drew on a Special Sessions organised around this new focus area, for example the UK-ICID session on the Political Ecology of Irrigation Efficiency and Productivity. This could be a new Task Force that helps fill out the work under the new MoU.

8.2 The following information from Central Office and members was received:

1. Member John Replogle has circulated information on irrigation guides and papers relevant to the field of WG-TRUE from meetings he has attended (Irrigation Association: Irrigated Agriculture Common Interest Group; IAHR Congress; USCID Conference). The Chairperson will be in contact to consider if links to relevant papers can be put on the website.
2. On an International Workshop on "Capacity Development for Farm Management Strategies to Improve Crop-Water Productivity using AquaCrop" held 25-29 October 2009 at the Agricultural Research Center (ARC), Ministry of Agriculture and Land Reclamation in Cairo, Egypt. The workshop was jointly organised by Food and Agriculture Organization of the United Nations (FAO), UN-Water Decade Programme on Capacity Development (UNW-DPC); and Soil, Water and Environment Research Institute (SWERI). The main objective of the workshop was to train the participants in the practical applications of AquaCrop in order to improve their skills in strategic farm management practices towards increasing crop water productivity in rainfed and irrigated production systems. For more information, please visit the webpage of <http://www.unwater.unu.edu/>.

In the meeting, members noted that more training sessions on Aquacrop are being organised regionally, and that this could be a topic for discussion in the WG.

Annex 1 [Appendix XVI, Item 3]

WORKING GROUP ON TECHNOLOGY AND RESEARCH UPTAKE AND EXCHANGE
(December 2009)

Activities proposed for WG-TRUE

5.1 Documenting Technology Innovations and Research Processes (activities with AC-IPTRID)

At the Lahore meeting, the WG noted AC-IPTRID's suggestion to provide a two-way flow of information and discussion on research needs and technology innovations, and develop a programme for WG-TRUE based on:

- Documentation of research uptake process for at least two countries of Africa and Asia.
- Documentation of I&D technological innovations and adaptation for two countries of Asia and Africa.
- Joint IPTRID-ICID publication on value of technology and research uptake in developing countries.
- Joint policy briefs based on R&D results in selected countries.

5.2 Studies on R&D processes (from WG-R&D and beyond)

The WG observed that the items carried forward from the erstwhile workbody can include the following:

1. The value of R&D in irrigation and drainage practice, and benefit to research
2. Cooperation between key organizations supporting and undertaking research and innovation
3. Outreach, communication and research uptake
4. Improved understanding of research and innovation processes, in particular of:

    - Understanding and transforming timeframes from research to innovation
    - Identification and working with stakeholders' needs and interests, and complex problems
    - Leadership, structure and networking in research, especially linking national and local action, and
    - Capacity building for research

1. How research models and data can be better used in capacity building, and system design and water management practices – how to move between theory and practice, and
2. Financing of research and innovation, especially to reach certain stakeholders and problem contexts.

During the Lahore meeting, it was emphasized that the development of water management infrastructure is very expensive but it is possible to link the research activities/benefits to the infrastructural developments. The WG also noted that there was a tremendous scope for reducing the associated costs. Such types of experiences from Iran, India, and Pakistan were highlighted during the Lahore meeting respectively by the observers, viz. Dr. K. Yella Reddy (India), Dr. Wouter Wolters (The Netherlands) and Mr. Ezzatollah Farhadi (Iran).

It was mentioned that it would be appropriate to look into matters such as:

1. How research could help to improve management experience for developing operation of irrigation systems;
2. Actual amount of water requirement of crops and how water can be applied to the crops efficiently; and
3. Advantages of carrying out drainage activities in the field.

Annex 2 [Appendix XVI, Item 5 (5.4)]

WORKING GROUP ON TECHNOLOGY AND RESEARCH UPTAKE AND EXCHANGE (WG-TRUE)
(COMPILED December 2009)

Replies to Questionnaire for WG-TRUE

Compiled 5 December 2009

Replies from: Iran: Mehrzad Ehsani; China: Prof. Yuanhua Li; The Philippines: Renato S. Gamboa; Spain: Dr. José A. Ortiz Fdz-Urrutia, Dr. Enrique Playán; Pakistan: PANCID/ IWASRI; USA: John Replogle

1. Do you agree that it is possible to link research activities /benefits to the infrastructure developments in irrigation and drainage sector?

   All said yes. Yes/ No

2. If yes, what is the role played for:

(i) Reducing associated cost: *Explain facts findings through case studies*

Iran: Comments relate to research in the CP project in Karkheh River Basin (KRB) associated cost is of research is decreasing significantly. Most part of the research has been on activities including land preparation, sowing, irrigation, input cost, etc. The researcher should convince the farmers about his yield and support the farmers if the yield in experimental area was less than average yield in his farm. In most cases, the equipment needs for monitoring the farming activities and data collection must be supported by the researcher's organization. In our study, we informed by the farmers a day before irrigation and we were on the farm for recording the water inflow by a WSC flume.

China: Sediment is a big problem, especially in the Yellow River (YR) basin which is the most water scarce region. However, implementation of some WSI practices is impacted by the high sediment content of water. On the other hand, the movement and distribution of sediment should be considered when operating the canal systems. The infrastructure development for irrigation needs research. Anti-frost measures for canal is very costly. The infrastructure development benefits directly from the research.

Philippines**:** Proper operations (introduction of a pattern of planting and fixed rotational irrigation schedule along a stretch of delivery canal) in a crop year cycle (wet-dry season) reduced operation interference by farmers, reduced instances of high velocity flows in sections of control structures and reduced occurrences of scouring of canal embankments and silt formations. This reduced the need for periodic de-silting of canal sections.

Downstream the start of planting during the wet season resulted in an increase in planted area during the dry season even with the same amount of water diverted in the crop year (wet-dray season) cycle. The downstream section was planted to 800 hectares in 1975 dry season compared to 300 hectares in 1974 dry season. This was experienced in the NIA-IRRI Water Management Pilot Project in Penaranda River Irrigation System in Nueva Ecija, Philippines in 1975. The rationale of the pilot project was 'improving irrigation systems performance with less rehabilitation/repair costs'. This experience was replicated in other irrigation systems. In Amburayan RIS in the early 1990s, the 5-year cropping intensity average before scheme implementation was 144% and the 3-year average after introducing the scheme was 177%. That is a 43% increase equivalent to additional area of 1,470 hectares. Similar experiences were found in Tarlac-San Miguel-O'Donell RIS, also in the 1990s.

Spain: Research can instruct decision makers about the usefulness and cost effectiveness of investments in specific structural developments. Decision makers are not always aware of the user's acceptance of technology. For instance, in Spain a very serious effort has been adopted to implement remote control / remote monitoring capacities for collective pressurized irrigation networks. Applications for such structures were not ready, the quality of the communication was in general not yet fully satisfactory, and the irrigation sector was not mature enough to use such devices. As a consequence, investments have not produced the expected benefits.

The information system CORENET/COREGEST application focuses on:

- Reducing personnel costs associated with the ordinary management tasks of an Irrigators Community (water allocation, invoicing, infrastructure maintenance, accounting, etc)

- Reducing the use of water by improving its management procedures;
- Reducing the energy costs by improving both the use of water and the management procedures of the energy involved in its use.

Pakistan: Research on sub-surface and interceptor drainage under Fordwah Wastern Sadeqia South (FESS) project, Bahawalnagar, helped in reducing g the cost of FESS, Khushab and Mirpur Khas projects.

USA: I have no case study to offer. Considerations include reducing costs associated with reliance on outdated technologies. Some conveniences and application accuracies can perhaps be economically improved with mechanization—not necessarily complete automation—including newer, low-cost communication links.

(ii) Improving crop yields and water savings by way of adopting appropriate cropping patterns/ irrigation methods/practices: *Explain with facts findings through case studies*

Iran: In the CP project in Karkheh River Basin (KRB) we conducted a research at on-farm level to improve the irrigation and farm management. In those fields, wheat was in rotation with maize. The treatments were farm size, seeding rate and irrigation inflow. In the results, the crop yield did not improve significantly, but irrigation water applied decreased and maize water productivity increased from 0.3 to 0.6 kg/m^3. The treatment shows a change of 0.6 and 1.0 kg/m^3 for wheat. In the next year, farmers followed their experience and controlled the plot size, seeding rate, land preparation, and irrigation management accordingly.

China: Since the mid-1980s, many studies have indicated that significant savings in quantities of water used in traditional rice culture were possible without a distinct reduction in rice yield. It was indicated that it is necessary keeping shallow ponded water until the middle stage of rice tiller, and then alternate wetting and drying (AWD) irrigation does not give negative impacts on the growth of rice if the water content in the root zone is not lower than 70% to 80% of the saturated moisture. The AWD practice has been adopted widely in China.

Philippines: Organized pattern of planting ensure that growth stages of crops in certain section or irrigation units are at common stages, hence the appropriate water saving scheme adopted to such growth stage, can be generally applied. Water savings are done in two ways: a) controlled irrigation (CI) – at delivery points such as head gates of secondary canals and turnout gates; and b) alternate wet and drying (AWD) at farm level. Water savings technology (WST) can be done on an area-wide basis by implementing in the irrigation system at the start of the wet season a pattern of planting that ensure that crop growth in an irrigation unit is at common stage that will fit a certain level of water application.

Spain: Research can help improve farmers' performance for instance by supplying guidance to irrigation scheduling. The local differences in crop yield and water use are very often the consequence of differences in irrigation scheduling. In all irrigation methods, irrigation decisions have a clear effect on the economic and hydrologic performance of a farm. Research can assess the cost-benefit ratio of each irrigation event, and can guide farmers to apply crop water requirements throughout the season. The effect of soil and environmental variables on irrigation performance is not fully understood by farmers. Many farmers do not have access to adequate information on evapotranspiration and on irrigation efficiency. This information is common knowledge in technology-rich environments, such as research campuses.

CORENET/COREGEST is currently in use by more than 200 Irrigators Communities in Spain. The applications are mostly used to improve water and energy savings by means of:

- Better water management practices which are possible through the powerful information management systems of CORENET-COREGEST
- Real time indication of energy costs associated with the use of water, and indication of the overall "energy efficiency" of the irrigation network which leads to a change in the management procedures to save energy.

Pakistan: Research in cropping pattern, water conservation technologies and sprinkler/drip systems helped in improving crop yield and water savings in Mona reclamation experimental project, Bhalwal.

USA: Again, I have no case study to offer. Improving application uniformity with appropriate soil moisture and crop-related application amounts is expected to increase marketable yields. New crop varieties are becoming available, but may not be used because of legal restrictions or initial expense of obtaining the crop variety. An example of

legal interference is the disease-resistant wheat variety in Africa, that so far is not being offered to world wheat breeders.

(iii) Implementing better operation and management: *Explain with facts findings through case studies*

Iran: CP project in Karkheh River Basin (KRB) This study had a significant impact in the selected site. Accordingly, seeding rate application by the farmers improved (decreased), the runoff decreased especially in maize fields and water productivity increased about 50-100%. The seeding rate decreased from 250-300 kg/ha to 150-180 kg/ha. The length of the farm *(field and irrigation furrows?)* was near to 300m which was high regarding the farm slope. This was a reason for high inflow rate to the farms and considerably high runoff. The farm length optimized based on the soil and slope.

China: The Master-cards have been used and proved popular in water scarcity regions in China for controlling groundwater pumping.

Philippines: Irrigation system operations management must consider the wet-dry season cycle. Wet season initial operations in terms of pattern of planting will also define the possible pattern of planting during the dry season. Downstream start-going upstream planting in an irrigation system during the wet season will result also in a downstream start-going upstream planting during the dry season. First to plant in the wet season is first to harvest and has the first opportunity to plant the dry season crop. Hence, at the end of the dry season when the supply of water from river sources is at its minimum, area still to be irrigated are at the upstream portion of the irrigation system.

Spain: Our research group has been involved since 1998 in the development of a software for irrigation district management named “Ador”. In its nine years of life, the software has been applied in more than a hundred irrigation districts, servicing about 200,000 ha. Farmers’ organization have found in Ador tools to manage irrigated land, land use, crop distribution, water billing, water balancing, local and regional water use planning and accounting. The success of this project relies on a rare blend of farmers’ organizations, extension services and researchers. More information on the Ador project can be found in:

Playán, E., Cavero, J., Mantero, I., Salvador, R., Lecina, S., Faci, J. M., Andrés, J., Salvador, V., Cardeña, G., Ramón, S., Lacueva, J. L., Tejero, M., Ferri, J. and Martínez-Cob, A. 2007. A Database Program for Enhancing Irrigation District Management in the Ebro Valley (Spain). Agric. Wat. Manage., 87(2): 209-216.

CORENET-COREGEST offers a set of standardized management procedures for Irrigators communities which produce the following benefits:

- Easier and better task allocation to the personnel at all levels (management, workforce, etc)
- Easier training procedures
- Interchangeability of personnel linked to the “de-personalization” of management procedures.

In parallel, CORENET-COREGEST offers powerful data mining and business intelligence functionality, which is specially useful to support management decision making.

Pakistan: Research on maintenance of surface drains proved that half of the drainage needs can be reduced by regular cleaning of surface drains, in a study done under WAPDA.

USA: I hope someone can site practices that are being used successfully and which can translate to a broad population of users.

(iv) Formulating policies and framing up of institutional/organizational set up: *Explain with facts findings through case studies*

Iran: CP project in Karkheh River Basin (KRB) there was a local water organization which just allocated the water based on the size of the field and water availability. They usually consider an average efficiency. There was no control on irrigation efficiency at farm level. There was also a local agricultural office which controlled soil fertility every year by allocating fertilizer and other inputs between the farms. The local agricultural office does not educate the farmer about irrigation management, land preparation, irrigation scheduling, etc mainly because they have no

control or schedule on water allocation. Water allocated by the local water organization is non-scheduled. Accordingly, farmers receive the water when the fields do not need it and vice versa.

Philippines: Irrigation systems must be operated by agency personnel and farmers thru their organizations (IA, WUA, etc.) along the following principles:

1. Water rights – all farms within the irrigation system has same right to water regardless of the farms proximity from the water source;
2. Fair and equitable sharing of burdens, efforts, resources and benefits at all levels of the organizations – from the agency head to the level of the farmers; and
3. Open, transparent and participatory process of governance of all irrigation affairs.

Spain: Research efforts on water quantity and quality in the Ebro Basin have led to the formulation of water use policies. These have been distributed to decision makers in a symposium organized by the regional government. Additionally, an International Scientific paper presents policy formulation from the point of view of its scientific basis:

Albiac, J., Playán, E. and Martínez, Y. 2007. Instruments for water quantity and quality management in the agriculture of Aragon (Spain). International Journal of Water Resources Development, 23(1): 147-164.

When it comes to irrigation modernization and the scientific basis of its hydrological effects, an effort has been performed to analyse the case of Spain and distribute the results to the water authorities. A scientific paper on the topic has been internationally presented:

Playán, E. and Mateos, L. 2006. Modernization and optimization of irrigation systems to increase water productivity. Agric. Wat. Manage., 80(1-3):100-116.

This paper was the basis of further local studies on the issue. For instance, the Ebro basin Water Authority requested a study from the research group on the effect of irrigation modernization on basin-wide water availability and quality. CORENET-

COREGEST holds a database of irrigation data corresponding to a large number of Irrigators Communities. This data can be used by institutional organizations to support policy formulation. The data is also of use for R&D organizations to support its work.

Pakistan: Research in canal lining and interceptor/subsurface drainage under IWASRI helped in policy shifts with reference to new projects by the Government of Pakistan.

USA: This is usually not as easily accomplished, as it would appear. It too often requires settling age old battles among neighbouring farmers with the attendant longstanding distrust.

3. If no, what is the reason behind it? *Explain with facts findings through case studies*

Pakistan: Explain with facts, findings through case studies.

APPENDIX XVII [PCTA Item 4.3.1]

Minutes of the Second meeting of the
WORKING GROUP ON WATER MANAGEMENT IN WATER STRESSED REGIONS (WG-DROUGHT)
New Delhi, India
06 December 2009: 14:15-18:00 hours

Strategy Theme: Basin

Year of Establishment: 1996 **Completion of the Mandate: 2002**

Mandate:

(i) Drought Management Strategies: To capture field experiences of the implementation of drought risk management strategies.

(ii) Coping with water scarcity

- Critial evaluation of the validitiy of the crop water requirement computations based on climate data as a tool to be used in coping with water scarcity;
- Approaches and strategies for incorporating economical jusification when deciding on the amount of water to be allocated for agricultural production;
- Re-defining, as necessary, the conventional irrigation efficiency concept;
- Design, operation and maintenance of sand dams – Under-ground water reservoirs.

(iii) Rainfall management for sustainable agriculture: Innovation and implementation of smart rainfall management technologies.

Members Present : (1) Vice President Hon. Dr. S. Nairizi (Iran, 2008), Interim Chairman; (2) Vice President Hon Mr. F. Dimick (USA, 2008), Secretary; (3) Dr. Ragab Ragab (UK, 2008); (4) Mr. Graziano Ghinassi (Italy,2008); (5) Prof. Chang-Chi Cheng (Chinese Taipei, 2008); and (6) Secretary General represented by Dr. Vijay K. Labhsetwar, ICID Central Office.

Observers: (1) Mr. Z. Behairy (Egypt); (2) Dr. Sue Walker (South Africa); (3) Dr. S. Szalai (Hungary); (4) Mr. Mohammad Sadegh Jafari (Iran); (5) Mr. Shital Babu Regmee (Nepal); (6) Mr. Uttam Raj Timilsina (Nepal); (7) Prof. Dr. Niaz Ahmed (Pakistan); (8) Mr. Rajeev Kumar (India); (9) Mr. Prashant Jaiswal (India); (10) Mr. Praveen Jais (India); (11) Mr. Naito Kunihiko (Japan); (12) Mr. Ian Moorhouse (Australia); (13) Mr. Enayatallah Farahani (Iran); (14) Mr. B.N. Bilgundi (India); (15) Mr. Danda Pani Jaishy (Nepal); (16) Mr. H. Raheman (India); (17) Mr. G.V. Surendra (India); (18) Mr. H.V. Shivakumar (India); (19) Mr. N.B. Patel (India); (20) Mr. Tushar M. Dholakia (India); (21) Mr. M.S. Zaman (India); (22) Mr. D.S. Kabuur (India); (23) Mr. B.S. Patil (India); (24) Mr. C. Ballard (Australia); (25) Dr. M.K. Sharma (India); (26) Mr. A. Alghamdi (Saudi Arabia); (27) Mr. Abdul Rahman S. Aljughaiman (Saudi Arabia); (28) Mr. J.S. Sodhi (India); (29) Dr. C. Venkata Reddy (India); (30) Mr. Koichi Kuwabava (Japan); (31) Mr. S. Vijay Ghogase (India); (32) Mr. Kanhaiy M. Shah (India); (33) Mr. Rajendra Pawar (India); (34) Mr. Ashok K Surushe (India); (35) Mr. Sharad S. Dabhadkar (India); (36) Dr. T.B.S. Rajput (India); (37) Mr. Laurie Tollefson (Canada); (38) Dr. K. Emami (Iran); (39) Dr. Vincent Bernard (France); (40) Dr. Jung-Hua-Wang (Chinese Taipei); (41) Mr. V.B. Nath (India); (42) Mr. Maurice Roos (USA); (43) Mr. Suresh Charchy (India); (44) Mr. Suresh Chandra (India); (45) Mr. J.B. Mahapatra (India); (46) Mr. Deepak Kumar Das (India); (47) Mr. N.K. Tyagi (India); (48) Dr. Ahmet Sereen (Turkey); and (49) Mr. Hasan B. Yuksel (Turkey).

Website: <http://www.wg-iadws.icidonline.org>.

Item 1 : Confirmation of the minutes of the 1st meeting of the WG-DROUGHT

The minutes of the 1st meeting of the WG-DROUGHT at Lahore, Pakistan (2008) were confirmed.

Item 2 : Review of membership

Dr. Teodore Estrela-Monreal (Spain); Engr Qaz Tallat Mahmood Siddiqui (Pakistan); Dr. Kiwood Park (Korea), and Dr. Benjamin de Leon Majarro (Mexico) were not present and their nominations were deferred until the next meeting of the WG in 2010.

Mr. Mohammad Sadegh Jafari (Iran) was present and introduced himself to the WG. His nomination was approved as a member of the WG-DROUGHT. Because of the limitations for having multiple members from the same country, Dr. Nairizi, (Iran) indicated he would be resigning from the WG.

Dr. T.B.S. Rajput (India) was present and introduced himself to the WG. His nomination was approved as a member of the WG-DROUGHT.

2.1 Election of Chair, Vice-Chair and Secretary

The WG elected Vice President Hon. Franklin E. Dimick (USA) as Chairman, Mr. Mohd. Sadegh Jafari (Iran) as Vice Chairman and Dr. Abraham Mehari Haile (The Netherlands) as Secretary.

Item 3 : WG-IADWS publication – "Irrigation under Drought and Water Scarcity"

A draft document of the above publication is being circulated among the members for comments and revision, if any. The publication is expected to be completed in 2010.

The document will be reviewed by the members of the erstwhile WG-IADWS to make sure that the separate contributions are linked together in the document properly and for their approval to the document. All comments must be submitted to Interim Chairman by end of February 2010. Contributors to the document are expected to update their references as well.

Item 4 : Drought Management Strategies

Mr. Jafari (Iran) presented some concepts for identifying management strategies for managing water during a drought period. The other members made the following comments:

- Short term strategies and long term strategies need to be developed.
- Effects on society needs to be considered in addition to the engineering aspects of drought management strategies.
- Water marketing must also be included in developing drought management strategies.
- Fish and wildlife and environmental concerns must also be included in developing drought management Strategies.
- Compilation of case studies would benefit the development of drought management strategies.
- Any long term strategy must include predictions of climate change effects.
- Environmental consequences of droughts must be considered when developing drought management strategies.

Item 5 : Coping with Water Scarcity

Chairman Nairizi stated that this item and item no. 4 could overlap and it will become necessary to define these two items carefully. Generally, Drought Management Strategies deal with the planning aspects while Coping with Water Scarcity deals with actions or performance.

Mr. Jafari (Iran) presented some ideas on how to pursue some activities under this item. Several of the ideas he presented such as allocation of water by quality were already being pursued by other Work Groups. Some important comments made by the members were:

- Re-allocation of water during droughts will have legal ramifications due to water rights, etc.
- Discussed need to clarify how irrigation efficiency is determined and its validity.
- Case studies would be helpful in compiling ideas on how to conserve water. The compilation and studying of these case studies may result in developing new concepts on irrigation practices.

Those in attendance at the meeting provided many ideas on how to conserve water.

The conceptual problems that arise when using the traditional method of calculating water use efficiency were discussed. Many different views were presented on how to measure water use efficiency and the crop water use.

A discussion then took place on the need to measure actual crop evapotranspiration rather than using empirical formulas based on meteorological data.

Item 6 : Rainfall Management for Sustainable Agriculture

Mr. Jafari (Iran) presented some ideas on how to approach the Rainfall Management for Sustainable Agriculture.

Pursuing concepts of rain water harvesting were discussed as a task of this Working Group.

The need to find and collect data on how much rainfall is being used in irrigated and non-irrigated crops was discussed. Quantifying effective rainfall in crop production also needs to be investigated along with how to improve its effectiveness through technology.

One concept that needs to be examined is the need to change the cropping practices to effectively utilize the rainfall.

Farming practices such as plowing, no-till, varying tilling methods to maximize rainfall effectiveness needs to be examined.

The need to document the successful studies in rainfall management was discussed. It was decided to review these studies prior to the next meeting for fruitful discussions during the meeting in 2010.

Item 7 : Any other business

- **Seminar on 'Managing Water Related Risks in Changing Climate at WWF-5**

Members took note of the Seminar on "Managing Water Related Risks in Changing Climate" at WWF-5 organized by the World Meteorological Organization (WMO) held on 17 March 2009.

- **Understanding Desertification and Land Degradation Trends (UNCCD)**

One of the International Organizations with which ICID has a good liaison is "UN-Convention to Combat Desertification" (UNCCD). Many documents and issues that rise in UNCCD are also of interest to ICID work. Some of our work bodies have been looking into aspects of 'land degradation', 'desertification' and 'sustainable land and water management'. WG-DROUGHT is one such work body to review these issues. Given the above, the information reflecting UNCCD's International Scientific Consultation Process on "Understanding Desertification and Land Degradation Trends were circulated among NCs and WG Chair.

The Scientific Conference and Consultation on "Understanding Desertification and Land Degradation Trends" took place during 22-24 September 2009 at the UNCCD Conference of Parties' 9th Session (COP-9) in Buenos Aires, Argentina.

More information on the Conference is available at <http://www.unccd.int/publicinfo/cstscicof/menu.php>

- **Human Resources Survey for disaster and risk management**

The UNDP and United Nations International Strategy for Disaster Reduction (UNISDR) have jointly developed a questionnaire for profiling backgrounds of disaster and risk management practitioners. The Central Office circulated the questionnaire among WG members to get themselves registered to help in profiling the human resource base for reducing the risk of disasters and preparing for more effective response. The questionnaire is available at Survey Link : <http://www.zoomerang.com/Survey/?p=WEB22986VV9L7G>

- **Draft White Papers on "Needs and "Capabilities" for Climate Information for the Water Sector**

The members took note of two draft documents viz., "White Paper – Needs of Climate Information for Decision Making in the Water Sector" and "Application of the Climate Information and Prediction in the Water Sector: Capabilities" circulated by ICID Central Office for comments with a view to include those in the final version of the document.

APPENDIX XVIII [PCTA Item 4.1.1]

Minutes of the Eighteenth Meeting of the
COMMITTEE ON PUBLIC RELATIONS AND PUBLICATIONS (C-PR&P)
(Erstwhile Work Team of Publication and Public Relations Work Team)
New Delhi, India
07 December 2009: 09.30-13.15 hours

Strategy Theme: Knowledge

Year of Establishment: 1992

Mandate:

- To describe the economic, social and environmental aspects of water resources projects which help provide food and fibre to mankind through irrigation; to identify the audiences and their interests, and suggest the appropriate type of communication and who should carry it out; to encourage National Committees to adopt a proactive role in communicating the role of water resources projects in serving mankind; and to encourage the use of communications specialists to ensure that the ICID public relations effort is effective.
- General management tasks - Development of concept of ICID publication series; set procedure for approval of publications; identification of (inter) national publishers and setting up of cooperative arrangements; marketing and pricing; and cooperation with publishers and National Committees for sale of publications.
- Editorial management tasks - Monitoring of and liaison with authors and editors on proposed and approved manuscripts; classification of proposed manuscripts for the relevant ICID services; calculation of prices and costs; fixing number of copies of books; public relations for publications, recommendations on subsequent publications of ICID.

Members Present: (1) VPH Larry D. Stephens, Chairman (USA, 1992); (2) PH Peter S. Lee (UK, 1993); (3) PH Bart Schultz (The Netherlands, 2009); (4) Ms. Anne Currey (Australia, 1998) represented by Dr. Willem Vlotman; (5) Mr. A.K. Ganju (India, 2009); and (6) Secretary General, ICID represented by Mr. K.N. Sharma, Secretary (Central Office).

Observers: (i) Mr. Y. Vijay (India); (ii) Dr. S.A. Kulkarni, Central Office; (iii) Mr. G.V. Surendra (India); (iv) Mr. H.V. Shivakumar (India); (v) Dr. C. Venkata Reddy (India); and (vi) Mr. Vijay S. Ghogare (India).

Item 1 : Confirmation of minutes of the 17th meeting of the C-PR&P held in Lahore, Pakistan on 14 October 2008

The minutes of the 17th meeting of the Committee held at Lahore were confirmed.

Item 2 : Review of membership

It was noted that Ir. Paul van Hofwegen ceases to be a member of the Committee since he is no longer an editor of the Journal *Irrigation and Drainage*. President Honoraire Bart Schultz will be a member, representing the Journal. For the membership nomination of Mr. A. K. Ganju, Central Water Commission, New Delhi (India) was presented. Mr. Ganju was welcomed as a member of the Committee.

A. CONTINUING ITEMS

Item 3 : Publications brought out and under processing

3.1 Publications brought out during the period 2007-2009

Publications issued were reviewed.

Mr. Sharma informed that the revised and updated edition of ICID's Multilingual Technical Dictionary has been published on CD-Rom. In addition to English and French, the Dictionary also now incorporates three additional

languages, viz. Chinese, Japanese and Russian, with the possibility of adding more languages as and when the translations in other languages are available. The other feature of this version is that it is web enabled, whereby any additions, modifications etc. can be done through the web only and downloaded by the users automatically when connected to web.

He further mentioned that to commemorate the 60th anniversary of ICID, the Central Office has also brought out a CD-ROM entitled 'ICID@60' providing historical background of ICID's activities during the last 60 years.

PH Peter Lee suggested that the *ICID Newsletter* be given broader distribution, but others noted that the mailing costs for larger distribution are expensive. It was agreed to make the basic distribution of three copies per National Committee with a maximum of 10 copies. The mailing costs for more copies, if demanded may be charged. Additional copies are printed for special events, like the World Water Forum and the ICID IEC Meetings.

Suggestions for a new name of the ICID Newsletter were discussed. The new name selected was *ICID News*.

It was further agreed that the Monthly News Update be published online only. This will also enable inclusion of more photos and outlay in color. Depending upon necessity, the number of pages can increase.

PH Bart Schultz asked that the Annual Report (AR) include statistics on drainage also, and not only irrigation. The drainage figures may be obtained from Dr. W. Vlotman (Australia). He further suggested that the quality of the design and printing of the AR should be good, noting that this document is important to show to other water organizations what ICID is doing. The latest issue of AR (2008-09) was good in quality.

3.2 Publications under processing

PH Bart Schultz suggested that the ICID presentations and Topic 2.3 Report made during World Water Forum-5 be prepared for distribution with a printed summary and a CD including the full presentations. Central Office was asked to explore the feasibility of such a presentation.

PH Bart Schultz further suggested that we explore going to an outside publisher for selected ICID publications, such as the Inter-Basin Water Transfer document that is under finalisation. Mr. Sharma noted that ICID's position with respect to Commission's outputs, including those emanating from the workbodies was given in the Bylaws. He recalled that a policy statement had been discussed in C-PR&P earlier on whereby it was proposed that if an ICID publication is published through a commercial publisher, 100 free copies of the publication for free distribution to the National Committees and 15% royalty on sales to ICID will be provided by the publishers. President Hon. Schultz opined that it was difficult to do so. However, it was agreed that PH Schultz will work with Central Office to study the feasibility of the proposal and select a title for outside publication as a test.

*[**Note by Central Office**:* At the 13th meeting of C-PR&P held in Moscow, Russia in 2004, a note on 'ICID policy on the publication of output documents emerging out of detailed works by various Working Groups/ Committees' was discussed. See Annex 4 to C-PR&P meeting agenda, 2004. The IEC accepted the policy with the change that negotiations will be allowed for the number of free copies and royalty fees between ICID and the publisher. See Minutes of 55th IEC, September 2004, Moscow.]

Item 4 : Sale of publications/Congress Transactions during the period 2007-2009

4.1 Sale of Publications

The table showing sales of ICID publications during the past five years was reviewed. It was noted that the sales were rather low. Mr. Sharma suggested that ICID cooperate with Central Board of Irrigation and Power, who are promoting and selling their publications effectively, to market ICID publications in India. The Committee agreed that this is an excellent suggestion. PH Peter Lee suggested that we develop similar programs in other countries.

4.2 Sale of Congress Transactions

Mr. Sharma noted that that ICID has not been paid for the Congress Transactions ordered by the China and Pakistan National Committees. As per the Bylaws, all copies over and above the number of registered paid delegates should be paid for by the ordering National Committee. The National Committees should be reminded regarding this.

Item 5 : Report of Joint Editors of ICID Journal

PH Bart Schultz reported on the issues published by the ICID Journal. He noted that there will be five issues in 2010, as was the case for 2009. He further noted that there is a large back log of papers; currently the papers are being accepted for 2011, even though more than 60 percent of the papers are being rejected.

Item 6 : Review of website

Mr. Sharma noted that the ICID website continues to be updated. PH Peter Lee reported that he has received very positive comments about the quality of the website. Following a discussion of the value of the ICID website as our communications link outside ICID, the Committee goes on record asking the Permanent Committee on Finance to not take any action in the budget which may reduce the quality of the ICID website.

Item 7 : Establishment of webpages by Workbodies

It was noted that most of the Workbodies now have webpages. The Central Office will provide the WG-ENV with a suggested format for a page and will provide a page for C-PR&P with a link to ICID publications. Noting that many of the Workbody pages are not current, Workbodies are encouraged to update their webpages.

Item 8 : Review of quarterly Newsletter

The Newsletter review was accomplished under Agenda item 3. Committee Chairman Stephens offered to edit future issues of *ICID News*, prior to publication.

Regarding advertising, it was suggested that Central Office should try to sell at least one additional page of advertising for the eight page NL. If additional pages of advertising are sold, then expansion of *ICID News* to 12 pages can be considered.

B. NEW ITEMS

Item 9 : Procedure to be followed for bringing out ICID position as publications

Publication of Position Papers in *Irrigation and Drainage* was reviewed, noting that such position papers are reviewed within ICID and approved by IEC prior to publication. It was agreed that no change in procedure is needed. PH Bart Schultz noted that the Position Papers may be copied and distributed by ICID.

Item 10 : Revision of ICID publications and sale price

10.1 Revision of ICID publications

National Committees are asked to update the information for Irrigation and Drainage in the World, and the Workbodies are asked to provide required information for updating ICID publications.

10.2 Revision of sale price of ICID publications

The Committee recommends that the 50 percent discount on sale of publications should be extended to government organizations.

Item 11 : Any other business

No other business was offered and the meeting was adjourned at 12:30 hours.

APPENDIX XIX [PCTA Item 4.3.5]

Minutes of the Fourth meeting of the
WORKING GROUP ON GLOBAL CLIMATE CHANGE AND AGRICULTURAL WATER MANAGEMENT (WG-CLIMATE)
07 December 2009: 09.30-13.15 hours
New Delhi, India

Strategy Theme: Systems

Year of Establishment: 2005 **Completion of the Mandate: 2011**

Mandate:

- To review the progression of and predictions for Global Climate Change (GCC) and climate variability,
- To explore and analyze the medium-term implications of climate change and climate variability for irrigation, drainage, and flood control,
- To stimulate discussion and raise awareness of water-related GCC issues within the ICID family,
- To stimulate discussion at national scales among scientists, policy makers, and, through the media, the general public on GCC and water, and
- To join the international dialogue on GCC and water

Members Present: (1) VPH Dr. Mark Svendsen, Chairman (USA, 2006); (2) Dr. Tsugihiro Watanabe, Vice Chairman (Japan, 2006); (3) Prof. Roland E. Schulze, Secretary (South Africa) represented by Prof. Sue Walker; (4) VPH Dr. Henri Tardieu (France, 2006); (5) VP Dr. Karim Shiati (Iran, 2006); (6) Mr. Ray Shyan Wu, (Chinese Taipei, 2007); (7) Dr. Kim Russell (Australia) represented by Mr. V.C. Ballard; (8) Ms. Nurgul Uzucek (Turkey, 2007) represented by Mr. Taner Kimence; (9) Prof. Heping Hu (China); and (10) Er. M. Gopalakrishnan, Secretary General, ICID

Permanent Observers: Dr. P.S. Rao (FAO representative).

Members Honoraire present: (i) Vice President Dr. Sinsuke Ota (Japan); (ii) VPH Mr. Frank Dimick (USA); (iii) VPH Hector Malano (Australia); (iv) VPH Dr. J.A. Ortiz (Spain); and (v) VPH Dr. Felix Reinders (South Africa).

Observers: 77 observers were present at the session at various times (**Annex**).

Website: http://140.115.62.223/raywu/ICID/index.php

Item 1 : Confirmation of the minutes of the 3rd meeting of the Working Group held at Lahore

The minutes of the 3rd meeting of the Working Group held at Lahore in October 2008 were confirmed.

Item 2 : Review of membership

The nominee of the South African National Committee, Prof. Sue Walker, was present and accepted as a member of the WG.

The following nominations were deferred due to their non-attendance at the meeting:

- Dr. Edward Keith Weatherhead (UK)
- Dr. Juan A. Rodriguez-Diaz (Spain)
- Dr. Rolu Encarnacion y Pascua (Philippines)
- Ir. C.W.J. Roest (The Netherlands)
- Mr. Naseer Ahmed Gillani (Pakistan)

National Committees are to be reminded of the need for the nominee attending the forthcoming WG at Yogyakarta, Indonesia when their nominations once again will be put up for consideration.

Because the Secretary of the WG, Prof. Roland Schulze of South Africa, has been replaced on the Working Group by Prof. Walker, the WG selected a new Secretary from among its members. Dr. Ray Shyan Wu, who performed this role on an interim basis at the Lahore meeting, was proposed for this position and accepted by the WG. Dr. Ray Shyan Wu is thus the new Secretary of the WG.

A. CONTINUING ITEMS

Item 3 : Work Plan of the Group

Dr. Svendsen, Chairman, outlined the WG's primary function of sharing information and knowledge among countries, science community and managers. The Group discussed the WG mandate and agreed that the focus for the upcoming 2010 meeting would be the issue of the potential impacts of a changing climate on the world food supply. If continuing interest is evidenced by members in the ensuing months, the WG recommended that we apply to organize a one-day workshop in Yogyakarta rather than the standard WG meeting to accommodate more contributions and more extensive interaction.

Item 4 : Webpage of the Working Group

The webpage of the Group http://140.115.62.223/raywu/ICID/index.php as prepared by Dr. Ray-Shyan Wu (Chinese Taipei) is functional. It is also accessible from a link on the ICID Workbodies page.

The website provides updated information on membership, agenda, minutes, presentation etc. Members were encouraged to access the webpage and provide relevant documents, pictures to Chairman/ Dr. Ray-Shyan Wu for posting. The WG registered its gratitude to Dr. Ray-Shyan Wu for developing and hosting the website.

Item 5 : Group's contribution to World Water Forum 5, 2009, Turkey

Dr. Shinsuke Ota (Japan), Vice President, made a brief report on the discussion of climate change issues which took place at WWF5 in Istanbul.

Item 6 : Presentations by Members and Observers (includes agenda item 9)

Presentations were made by the following people.

1. Dr. A. K. Gosain, IIT-Delhi – Impact of projected climate change on Indian water resources
2. Mr. Maury Roos, California DWR – California water resources and climate change: the big 5 impacts
3. Dr. Takao Masumoto, National Institute for Rural Engineering – Impact assessment of climate change on agricultural water use – a challenge of Japan
4. Prof. Hector Malano, Melbourn University – Climate change impacts on Australia
5. Dr. Yih-Chi Tan, National Taiwan University – Methane emissions from irrigated paddy field: case in China (prepared by Prof. Hu Heping)
6. Dr. T. Watanabe, RIHN, Japan
7. Dr. Jose Ortiz – Potential climate change impacts on irrigation water demand in the Guadalquivir River Basin (Spain) (prepared by J. A. Rodriguez Diaz)

Item 7 : UN Water Task Force on "Water and Climate" (includes agenda item 8)

Under this agenda item, the chairman offered a list of recent international meetings and initiatives and invited various members or observers who were familiar with the meeting or initiative to comment. These are listed below.

- ***UN-Water Task Force on Water and Climate:*** This TF was formed in 2008 and USCID is represented by Dr. Karim Shiati and Dr. Svendsen. Dr Shiati reported that the TF has prepared two briefs -- a one-page brief for the Copenhagen climate change meeting (COP15) and a longer policy brief.

- ***WMO World Climate Conference:*** The WMO organized this conference in Geneva in September of this year. Dr. Gosain attended the meeting and reported that it was well attended and informative.
- ***UKCID meeting on Water and Climate Change*:** The UKCID organized the meeting in November in London. Dr. Ragab participated in the meeting and made a presentation on behalf of WG-Climate.
- ***World Water Development Report excerpts*:** The Chairman reported that the World Water Assessment Program (WWAP) which produces the WWDP, has released a pair of very good papers extracting climate change-related information from the WWDR – one on *Climate Change and Water* and the other a set of short *Messages* relating to climate change and water.
- ***OECD Policy Guidance on climate change adaptation*:** The Chairman reported that a new OECD policy guidance is the basis for a training program on water sector adaptations to climate change being developed by the German technical assistance agency, GTZ. The training program is based on Harvard Case study methodology and will likely be piloted in India in early 2010.

Item 8 : WG related communications

Included in the discussion of item 7.

Item 9 : Methane flux from irrigated wetlands rice fields

The WG accepted the responsibility for the topic *Methane Flux from Irrigated Wetland Rice Fields* proposed to be transferred to it from WG-Environment. To facilitate the transition, Prof. Dr. Hu Heping, Chairman of WG-ENV, prepared a presentation on the topic which was given in the meeting by the Vice-Chairman of WG-ENV, Dr. Yih-Chi Tan. This presentation was supplemented by one on the same topic by Dr. Tsugihiro Watanabe.

Item 10 : Any other business

Vice Chairman Dr. Watanabe reported that the WG-Asia also has an active program of work related to the impacts of climate change in Asia and proposed increased cooperation between the two WGs. Dr. Karim Shiati indicated that Asian Regional Working Group (ASRWG) was organizing a workshop on climate change in Bangkok in February 2010 and asked that WG-Climate be a co-sponsor of the workshop. The WG endorsed the suggestion.

Annex [Appendix XIX]

LIST OF OBSERVERS DURING THE 4TH MEETING OF WG-CLIMATE

(*County-wise*)

Australia	(1) Mr. Brian Davidson
Canada	(2) Mr. Laurie Tollefson, (3) Mr. Francois Chretien
Chinese Taipei	(4) Mr. Yih-Chi Tan
Egypt	(5) Mr. Zeinab Behairy
Estonia	(6) Mr. Hannes Puu
India	(7) Dr. K. Yella Reddy; (8) Mr. S.D. Kabbur; (9) Mr. Vijaya Pandian; (10) Mr. K.M. Shah; (11) Mr. H. Reheman; (12) Mr. B.N. Bilgundi; (13) Mr. V.B. Nath; (14) Mr. R.B. Ghote; (15) Dr. A.K. Gosain; (16) Mr. Rajendra Pawar; (17) Mr. Rambhau Shirode; (18) Dr. R.B. Singandhupe; (19) Mr. M.K. Dhimate; (20) Mr. V.K. Pandey; (21) Mr. A.K. Shukla; (22) Dr. M.J. Kaledhonar; (23) Mr. Ravinder Singh; (24) Mr. L.M. Patel; (25) Mr. B.S. Patel; (26) Mr. Premsibhai Patel; (27) Mr. N.B. Patel; (28) Mr. M.R. Sariya; (29) Mr. M.S. Zaman; (30) Dr. M.K. Sharma; (31) Dr. P. Ramana Gowda; (32) Dr. K. Murali; (33) Dr. G.N. Dhanapal; (34) Mr. Tushar M. Dholakia; (35) Mr. N.V. Muralidhar; (36) Mr. Patne Somanath; (37) Mr. Bosowarg Wallepise; (38) Mr. Radhay; (39) Mr. Jagjit Singh Sodhi; (40) Mr. M.S. Thakur; (41) Mr. Navneet Kalia; (42) Mr. Prem Pal Singh (India); (43) Dr. C. Venkata Reddy; (44) Mr. G.I. Surendra; (45) Mr. B.S. Rawat; (46) Mr. T.V. Satyanarayana; (47) Mr. S. Vishnu Vardhan; (48) Dr. A.B. Khot; (49) Mr. A. Selvarajah; (50) Mr. K. Chelvaraajhan; (51) Mr. H.V. Shivakumar
Iran	(52) Mr. Ezzatollah Farhad
Indonesia	(53) Mr. Prasetyo Nuchsin; (54) Mr. Bayudono; (55) Mr. Rani Siamsinarsi; (56) Mr. Muhammad Fauzie Siswanto
Japan	(57) Mr. Takao Masumoto; (58) Mr. Hatcho Nobumasa; (59) Mr. Koichi Kuwabara; (60) Mr. Kunihiko Naito; (61) Dr. Takanori Nagano
Kazakhstan	(62) Mr. Beisebekor Polat
Korea	(63) Dr. Park Sang Hyun; (64) Mr. Park Kwagsoo
Nepal	(65) Mr. Uttam Raj Timilsina; (66) Dr. Danda Pani Jaishy; (67) Mr. Shital Babu Resmee
Netherlands	(68) Dr. G.A.P.H. van den Eertwegh
Pakistan	(69) Prof. Rai Niaz Ahmad; (70) Dr. M. Arshad
Slovenia	(71) Mr. Mira Edelbaher
Thailand	(72) Dr. Sylvain Roger Perret
Turkey	(73) Mr. Hasan Basri Yuksel ; (74) Mr. Ahmet Seren
UK	(75) Dr. Ragab Ragab
USA	(76) Mr. Maurice Roos

International Organizations: (77) Mr. Daniele La Porta (World Bank)

APPENDIX XX [PCTA Item 4.1.3]

Minutes of the Twelfth Meeting of the
WORKING GROUP ON COORDINATION OF DICTIONARIES (WG-CD)
New Delhi, India
07 December 2009 : 14.15-18.00 hours

Strategy Theme: Knowledge

Year of Establishment: 1998 **Completion of the Mandate: 2009**

Mandate: To encourage the preparation and publication of translations of the English/French revised edition of the Multilingual Technical Dictionary (MTD) on Irrigation and Drainage into additional languages; to produce copies of the MTD in other formats, especially electronic, so as to make it more valuable to users; and to produce periodic updates to all or sections of the MTD.

Members Present: (1) Mr. Bruno Molle, Chairman (France) represented by Dr. Bernard Vincent (France); and (2) Er. K.N. Sharma, Secretary, ICID (Central Office).

Member Honoraire Present: VP Dr. Hafied A. Gany (Indonesia).

Observers Present: (i) Mr. Mehdi Ghomeshi (Iran); (ii) Mr. Gholam Reza Khajhe Sahouti (Iran); (iii) Dr. Sanjay Belsare (India); and (iv) Mr. Shashi Rakesh (India).

Webpage: http://www.wg-cd.icidonline.org/

Item 1 : Confirmation of the minutes of the 11th meeting of WG-CD held at Lahore, Pakistan, 15 October 2008

The minutes of the 11th meeting of WG-CD held in Lahore, Pakistan on 15 October 2008 were confirmed.

A. CONTINUING ITEMS

Item 2 : Status of revision and publication of MTD (CD-ROM)

The WG noted that all the deletions, additions and shifting of terms as suggested by the experts and the editorial teams were carefully carried out by the CO while preparing the final manuscript for preparing CD-ROM. The WG also noted that three Chapters of the previous version could not be reviewed. The WG was informed that the Chapter on Computer Technology could not be translated into French because this might introduce some confusion considering that all computer staff use the English terminology. However, the WG noted with pleasure that the CO translated into French the new Chapter on Climate Change which was added to the Dictionary for which the terms were also compiled at the CO.

Item 3 : Publishing the CD-ROM in a new format

With a feeling of great satisfaction, the WG went through the contents of the revised and updated version of the Multilingual Technical Dictionary brought out in the new format. Mr. K.N. Sharma explained the additional features contained in this new version and additional languages that were also uploaded in the CD-ROM. He explained that the updated Dictionary also contained the facility of uploading the other translated versions, corrections, additions or modifications to the terms and definitions through the website. Thus, anyone having a copy of the Dictionary will always keep updated on the latest changes in the Dictionary as soon as connected with the internet. He mentioned that the Chinese, Japanese and Russian versions were not translated from the present updated and revised edition of the Dictionary, therefore, there was no one-to-one correspondence between the English-French version and the translated versions at present. In addition to only English and French parts of the Dictionary, an English-French part also exists on the CD-ROM whereby the definition of the same term both in English and French languages can be viewed on the screen. This feature will help the translators. Additional facility for copying and printing of the definition has also been provided.

The WG appreciated the great efforts of the experts, who reviewed the Chapters, the editors for their comments, and the CO for incorporating all the suggestions and publishing the Dictionary.

Mr. Bernard Vincent suggested that just like the English-French section, a French-English section could also be added. He also suggested that the possibility of accessing other technical dictionaries should be explored whereby a term not available in the MTD can be seen in the other available dictionaries available free of cost through internet. He said that the Chinese, Japanese and Russian versions could be more useful if the corresponding English terms were also given side by side. Mr. Sharma assured that the CO would contact the NCs to incorporate this feature which will then be transposed on to this Dictionary.

Item 4 : Translation of MTD in other languages

Vice President Gany announced that the Bahasa translation of the Dictionary was completed. He brought two copies of hardcopy version of the Dictionary. The WG congratulated the INACID for this great work. He said that this work was started two years back and as many as nine institutions were involved in the translation work. He informed that in next about six months, they will be able to transmit the soft copy version of the Dictionary in Bahasa for uploading on the ICID MTD.

The IRNCID delegate Mr. Mehdi Ghomeshi explained that the translation of the Dictionary into Persian was continuing with the involvement of 13 persons in 12 groups. It may further take about one and half years more to complete the Dictionary in Persian. The WG-CD appreciated the efforts of the IRNCID in this regard.

Due to the absence of any TUCID delegate, the developments with regard to the translation of MTD into Turkish could not be known.

Item 5 : Any Other Business

(i) Dr. Bernard Vincent conveyed the compliments of the Chairman, Mr. Bruno Molle for Central Office and to Mr. K.N. Sharma for their efforts in bringing out the revised version of the Dictionary. The WG also thanked the Chairman for all his guidance and excellent cooperation throughout the process of revision.

(ii) Mr. Bernard Vincent suggested this MTD should be accepted as the official dictionary of the Journal on Irrigation and Drainage. A link to the Dictionary can be provided in the Journal. Some kind of mechanism should be explored whereby the resources required for revising the Dictionary from time to time can be provided by the publishers of the Journal. He also suggested that the Dictionary should be made free. The WG suggested that this issue can be posed before PCTA.

(iii) Since the mandate of the WG has been accomplished, the Group decided that it may be wound up. PCTA can take further steps to explore the possibility of incorporating the above suggestions and can form a small team to implement them if it finds them acceptable.

APPENDIX XXI [PCTA Item 4.3.5]

Minutes of the Twenty-Fourth Meeting of the
WORKING GROUP ON COMPREHENSIVE APPROACHES TO FLOOD MANAGEMENT (WG-CAFM)
New Delhi, India
07 December 2009 : 14:15-18:00 hours

Strategy Theme: Basin

Year of Establishment : 1999 **Completion of the Mandate : 2005**

Mandate: To identify and disseminate various structural and non-structural measures of flood management, and to study the social, political and economic aspects of flood mitigation measures, ecologicaly sound development, internatinal cooperation, as well as people's participation in disaster preparedness.

Members present: (1) Mr. Maurice Roos (USA, 2006); (2) Mr. V.C. Ballard (Australia, 1992); (3)Dr. Takeshi Hata (Japan, 1993) represented by Dr. Takao Masumoto; (4) Dr. K. Emami (Iran, 1999); (5) Mr. Ahmet Seren (Turkey, 2006); and (6) Mr A. K. Ganju (India, 2007) represented by Mr. G.S.Purba.

Member Honoraire Present: VPH Dr. Ricardo Segura (Spain).

Observers: (i) Dr. Mati Tomismae (Estonia); (ii) Mr. Pankaj Sharma (India); (iii) Mr. C. Lal (India); (iv) Mr. Hassau Javiad Afridi (Pakistan); (v) Mr. Taner Kimence (Turkey); (vi) Dr. Enayatollah Farahni (Iran); (vii) Dr. Klaus Rottch (Germany); (viii) Mr. Praveen Jain (India); (ix) Mr. H Raheman (India); (x) Mr. B N Bilgundi (India); (xi) Dr. S. J. Bhongde (India); (xii) Mr. K Chelvaraajhan (india); (xiii) Mr. M. Vijaya Pandian (India); (xiv) Dr. S. A. Assadallahi (Iran); (xv) Mr. H. Yegu Naregara (India); (xvi) Mr. N.K. Tyagi (India); and (xvii) Dr. Behrouz Arabzadeh (Iran).

Note: In absence of Chairman, Mr. Maurice Roos (USA) conducted the meeting as Acting Chairman and Mr. V.C. Ballard (Australia) served as acting Secretary.

Webpage: http://www.wg-cafm.icidonline.org/

Item 1 : Confirmation of the minutes of the 23rd meeting of the Working Group

The minutes of the 23rd meeting of the WG held at Lahore (2008), Pakistan were confirmed.

Item 2 : Review of the Membership of the Working Group

The Japanese National Committee of ICID nominated Dr. Takao Masumoto to replace Dr. Takeshi Hata. Dr Masumoto was present and his nomination was accepted unanimously.

The Pakistan National Committee of ICID nominated Mr. Zarar Aslam to replace Vice President Dr. I. B. Shaikh. Mr. Aslam was not present so his nomination was deferred until the next meeting in 2010.

The Indian National Committee of ICID nominated Mr. G.S. Purba to replace Mr. A.K. Ganju. Mr. Purba was present and his nomination was accepted unanimously.

2.1 Election of Chairman, Vice-Chair and Secretary

No nomination was made for Chairman. The Acting Chairman will contact Ir. Jos van Alphen (The Netherlands) to check whether he is interested in becoming the Chairman of the WG.

Dr. K. Emami (Iran) was nominated as Vice-Chairman. As there were no other nominations, his nomination was accepted unanimously.

Dr. T. Masumoto (Japan) was nominated for the position of Secretary. As there were no other nominations, his nomination was accepted unanimously.

Item 3 : Tenure and Mandate of WG

Members commented that climate change introduces a new element of uncertainty into flood management, both for stream-fed catchments and those affected by sea level rise and storm surges. Adaptive management strategies will be needed, in particular for people living in flood prone areas.

Standard flood frequency analysis assumes stationary of climatic and hydrologic data. This assumption is in question in an environment of climate change and perhaps new analytical tools are needed.

A new mandate and tenure for the WG needs to be developed taking these issues into account.

Item 4 : Presentations on Floods (*Country Case Studies*)

Mr. G. S. Purba (India) presented a summary of current flood management arrangements and operations in India.

Dr. K. Emami (Iran) presented a number of examples of flood management in Iran and other countries, emphasizing principles, residual risk and the need for adaptive management in an environment of climate change.

Item 5 : Publications in Progress

The Acting Chairman reported that it is still proposed to produce a CD based on "country presentations" made in recent years, including the papers presented at the Sacramento (2007) and Lahore (2008) workshops. It is presumed that the Central Office will compile this CD.

Item 6 : Feedback of the Workshop on Flood Management during Lahore (2008) Congress

Members who were present at Lahore reported that the workshop was successful. Twelve papers were presented from six countries. About 45 people were in attendance. As stated in Item 5, the papers will be included in a "country presentations" CD.

Item 7 : New Working Group on "Value Engineering"

Dr. Emami (Iran) made a presentation on "Value Engineering" suggesting that it is a valuable tool which may have wide applications in the irrigation and drainage field in general, and seeking the WG's support in proposing that PCTA consider the formation of a new WG to develop this concept.

The WG agreed that it supports the idea of "Value Engineering" in principle and referred it to PCTA to consider the formation of a new WG on "Value Engineering in Irrigation and Drainage"

Item 8 : New Structured Proposal for WG-CAFM – Work Plan

Central Office had requested the previous Chairman to report back on the new mandate. The topic was discussed under Item 3 above, but it has not yet been developed into a coherent mandate or workplan. This will be an important item of business for the new team of officers of the WG.

Item 9 : Any Other Business

The Chairman distributed copies of a letter from Dr. V. K. Labhsetwar asking members of WG-CAFM to review a discussion paper from WWDR-4 Issues Workshop titled "*Identifying uncertainty and defining risk in the context of WWDR-4*". This paper was prepared for the World Water Assessment Programme by Kye Mesa Baroang, Molly Hellmuth and Paul Block of the International Research Institute for Climate and Society, Earth Institute and Columbia University. It was suggested that members obtain a copy of the full paper and be prepared to discuss it during next meeting in 2010.

WG members expressed their thanks to Vice President Engr. Dr. Illahi B. Shaikh (Pakistan) for Chairing the working group for a couple of years and his contributions to the activities of the WG since 2001.

APPENDIX XXII [PCTA Item 4.2.1]

Minutes of the Third Meeting of the
WORKING GROUP ON MODERNIZATION OF IRRIGATION SERVICES (WG-MIS)
7 December 2009: 14.15-18.00 hours
New Delhi, India

Strategy Theme: Systems

Year of Establishment: 2007 **Completion of the Mandate: 2012**

Mandate: To provide a continuing focus in ICID for sustainable improvement of irrigation service delivery through progressive modernization of infrastructure, management and institution.

Members present: (1) Dr. Ir. Maurits Ertsen, Chairman (The Netherlands, 2007); (2) Mr. Francois Brelle, Vice Chairman (France, 2007) represented by Mr. Franck Sanfilippo; (3) Dr. Willem F. Vlotman, Secretary (Australia, 2008); (4) Mr. Lee, Tsong-Hwei (Chinese Taipei, 2007); (5) Dr. M.K. Siahi (Iran, 2007) represented by Mr. Mohammad Sadegh Jafari; (5) Vice President Dr. Illahi B. Shaikh (Pakistan, 2007) represented by Mr. Syed Mansoob Ali Zaidi; (6) Dr. Ashwani Kumar (India, 2008); (7) Ms. Marina Pinter (Slovenia, 2008); (8) Dr. Masayoshi Satoh (Japan, 2008) represented by Mr. Kazumi Ueda; (9) Dr. Lee, Yong-Jig (Korea, 2008) represented by Mr. Kim Jinteak; (10) Dr. José M. García-Asensio (Spain, 2008) represented by VPH Dr. Jose A. Ortiz Urrutia; (11) Mr. Andre Roux (South Africa, 2008); (11) Secretary General, ICID represented by Dr. S.A. Kulkarni, Executive Secretary, ICID.

Permanent Observer: Dr. P.S. Rao (representative from FAO).

Members Honoraire Present: Vice President Hon. Felix Reinders (South Africa).

Observers: (i) Mr. Ian Moorhouse (Australia); (ii) Mr. Kushagra Sharma (India); (iii) Mr. R. Shriraotore (India); (iv) Dr. N.K. Tyagi (India); (v) Dr. Adama Sangare (Mali); (vi) Mr. Abdoulaye Dembele (Mali); (vii) Dr. Sanjay Belsare (India); (viii) Dr. C. Venkata Reddy (India); (ix) Prof. Linden Vincent (The Netherlands); (x) Mr. Ying Cheng Lee (Chinese Taipei); (xi) Mr. Jyh-Haw-Lin (Chinese Taipei); (xii) Mr. Yun Cheng (Chinese Taipei); (xiii) Mr. N.B. Patel (India); (xiv) Mr. Patne Somanath (India); (xv) Mr. Basawaraj P. Wallepore (India); (xvi) Mr. N.V. Muralidhar (India); (xvii) Mr. Tushar M. Dholakia (India); (xviii) Mr. M.S. Zaman (India); (xix) Dr. A.B. Khot (India); (xx) Dr. Mohd Amin Mohd Soom (Malaysia); (xxi) Er. J.S. Sodhi (India); (xxii) Dr. M.K. Sharma (India); (xxiii) Mr. B.S. Patil (India); (xxiv) Mr. S.D. Kabbur (India); (xxv) Mr. Reza Datiari Manesh (India); and (xxvi) Mr. C. Abbas Rikhtechi (India)

Website: http://www.wg-mis.icidonline.org

Item 1 : Confirmation of the minutes of the 2nd meeting held at Lahore

Since there were no comments on the minutes of the 2nd meeting held at Lahore in October 2008, the WG approved and confirmed the minutes.

Item 2 : Membership of the Group

All those nominations proposed by various National Committees at the Lahore meeting were accepted as the WG was still in formation stage.

Pakistan National Committee (PANCID) nominee Engr. Syed Mansoob Ali Zaidi was present and introduced himself. His nomination was accepted.

French National Committee (AFEID) had nominated Mr. Frank Sanfilippo (in place of Mr François Brelle). However, at the meeting Mr. Frank Sanfilippo informed that Mr. François Brelle will continue as a member.

Item 3 : Webpage of the Group

Chairman called for contributions to be posted on the WG webpage <http://www.misicid.citg.tudelft.nl>. He requested members to check the web page and provide comments/ observations so as to further improve it. Members were encouraged to report events related to the activities of the group.

Item 4 : Un-Water Task Force on Indicators–Monitoring-Reporting

The UN-Water had established a Task Force on "Indicators-Monitoring-Reporting" (IMR). The purpose of the Task Force was to prepare a working paper on "Common framework for global monitoring and reporting on water and sanitation through a defined set of domains and key indicators". The coordinating organization of the Task Force is "World Water Assessment Program (WWAP)". The TF-IMR was building upon the work of two previous UN-Water Task Forces (TF on monitoring, 2006; and TF on IWRM, 2007) and multiple partners' initiatives on indicators selection, development and data provision. It focuses on the selection of a minimum set of key indicators for reporting at global level on the water sector. The Chairman explained his work with UN-Water Task Force. He introduced three items to the UN-Water Task force, viz;

1. ICID documents on the issue of indicators and benchmarking,
2. Ideas to effectively distinguish between key indicators on demand and supply, and
3. New approaches to data collection, including remote sensing

Chairman could not attend some of the meetings of the Task Force. WG expressed its interest in knowing further developments of the TF-IMR. The Chairman will keep the WG informed about the updates.

Item 5 : Internal Workshop of the WG

No specific workshop of the Group was arranged at the Delhi meeting. IWMI has organised a Special Session on "Future of Irrigation in Asia" All members were urged to attend the ICID-IWMI special session scheduled to be held on Wednesday 9 Dec 2009 from 09:30–13:00 hours.

Item 6 : Work Plan of the Group for the period 2009-2012

The WG reiterated and agreed on the following four tasks as part of the work plan;

1. **Use of MASCOTTE:** Chairman presented a case study from Peru. He would also apply it to a case in the Netherlands,
2. **Improvement of Irrigation Service Delivery**: The WG proposed to study various technological, legal and organisational aspects and options for improved irrigation service delivery,
3. **The History of Modernisation:** Modernisation is not new and possibly some work can be undertaken in collaboration with WG-HIST
4. **Capacity building** in cooperation with WG-YPF

In response to the Chairman's request to provide feedback on these topics, Australia has informed that there the MASCOTTE is not used but similar tools are being used..

At the meeting, the Chairman sought responses from the participants and the following was the outcome:

- Representative from Slovenia indicated that the EEA had an activity to find out how water was used for irrigation by various European Countries. A Working Group set for the purpose has brought out that it was very difficult to get good data on how much water was used as there were very few places where water was measured. Another finding was that although the EU Water Frame Work Directive requires meters to be installed at each water use location; only Germany has a large numbers of flow measurement sites; while other countries measure only 10% of water use.
- Representative from South Africa indicated that in order to investigate the level of water supply efficiency in the country, efforts were made to compile water use information from each irrigator. However, after 11 years of the exercise, very little progress was made. They are now looking to deploy remote sensing technique to obtain the information.

- Representative from India mentioned the necessity of shifting the focus from supply to demand side as there is a growing demand for industrial water use in India.
- Representative from France gave a brief overview of what was done in France.
- Representative from Spain informed about the work done and level of achievements in both surface water schemes and piped systems.
- It was proposed to carry out an overview of the contribution made by the erstwhile/ previous working groups of ICID to flow measurement. Various recent works on the flow measurement have been published and these need to be listed, especially on policy/issues paper by ICID on measurements. Reasons for measurements need to be discussed and made clear to all stakeholders. The effect of measurements on the functioning of the system also needs to be highlighted. It was emphasized that accurate but simple portable measuring devices are needed to be used by irrigation managers and farmers. An Indian representative indicated that some work on portable devices was done in the country. Representative from Taiwan briefed about the water measurement practices in the country and said that telemetry is being tried. Spanish representative stressed that for improvement of water use efficiency, measurement of water used is a must. Cost and justifications of measurement and how to charge the farmers seems to be an issue. Good information on this topic could be a topic to tackle by this WG

The Chairman acknowledged that measurement is important but also that a lot of work has been done in this area. It was opined that the cost/benefit aspects of flow measurements perhaps has not been adequately covered. Water measurement is a too narrow aspect; but covering the whole of the irrigation system may be beyond the scope of the WG's mandate.

The Chairman then gave his presentation on MASSCOTE using the Peru case. This sparked discussion on the use of MASSCOTE and or similar approaches including benchmarking of irrigation schemes. Several participants quoted benchmarking in India. Main question that was formulated at the end of the discussion was - how to find out what services do we give to our customers and how does it actually work?

It was suggested that MASSCOTE can help in formulating as how do you collect the information, analyse it and what is the follow-up?

The Chairman proposed to reformulate the first work objective of use of MASSCOTE in broader terms. The Group agreed to a call for submitting cases for discussion at the next meeting to be held in Indonesia in 2010. This was responded by the following persons (listing in no particular order):

- Prof. Ir. Dr. Mohd Amin bin Mohd Soom, Malaysia; will involve Malysian National Committee (MANCID) for possible input.
- Er. R. B. Ghote, Gov. of Maharashtra, India.
- Prof Dr. Marina Pintar, Slovenia, will provide further info on EEA report/study mentioned above.
- Dr. Wei-Jaw Lin, Chief Irrigation Management Section, Department of Irrigation and Engineering, Taiwan.
- Mr. Lee, Tsong-Hwei, Sr Advisor, Water Resources Management and Policy Research Center of Tamkang University, Taiwan.
- Er. N. B. Patel, Superintending Engineer, SSC2 Mejsana, Gujarat, India. E-mail: Narshipatel46@gmail.com or phone 9978405559, 9426048021
- Mr. Muralidhar, N.V., muralinallur@ yahoo.co.in, cell: 9972157400
- Engr. Syed Mansoob Ali Zaidi, Pakistan
- Mr. Kazumi Ueda, Chairman NTC Holdings, Japan (representing Prof Satoh)
- Dr. Sanjay Belsare, Gov of Maharashtra, India
- Mr. Andre Roux, Director Sustainable Resource Management, South Africa
- Mr. Ian Moorhouse, General Manager Operations, G-MW, Australia
- Dr. Ashwani Kumar, Director, Water Technology Center, Bhubaneshwar, Orissa, ICAR, India

It was hoped that at least six cases would be materialised for presentation at the next meeting of the WG in 2010. Presentations will be held within the allotted time slot of the WG meeting and no special workshop will be held.

It was further decided to ask Central Office to provide an overview and links to publication of the predecessor WGs of the WG-MIS.

Item 7 : Any other business

No other business was brought up and the meeting was closed at 3:30 pm.

APPENDIX XXIII [PCTA Item 4.4.1]

Minutes of the Second Meeting of the
WORKING GROUP ON WATER AND CROPS (WG-CROP)
New Delhi, India
07 December 2009: 14:15-18:00 hours

Strategy Theme: On-Farm

Year of Establishment: 2007 **Completion of the Mandate: 2013**

Revised Mandate: To promote the efficient use of water in crop production, to provide input to test crop water models, to investigate the use of energy crops for biofuel production, to develop techniques for rainfall harvesting, to promote the multi-functionality of water use in paddy rice cultivation, to investigate the adaptation of agriculture to climate change and to promote low input agriculture.

Members present: (1) Dr. Ragab Ragab, Chairman (UK); (2) Prof. E.V. Scarascia (Italy) represented by Dr. Graziano Ghinassi; (3) Mr. L.C. Tollefson (Canada); (4) Mr. Tai Cheol Kim (Korea); and (5) Dr. Andrew Sanewe (South Africa) represented by Ms. Sue Walker.

Obervers : (i) Dr. K. Yella Reddy (India); (ii) Dr. Z. Behairy (India); (iii) Dr. A.B. Khot (India); (iv) Dr. C. Venkata Reddy (India); (v) Dr. M.K. Sharma (India); (vi) Er. J.S. Sodhi (India); (vii) Dr. Jaleh Vaziri (Iran); (viii) Mr. V.B. Nath (India); (ix) Dr. M. Arshad (Pakistan); (x) Prof. Dr. Niaz Ahmad (Pakistan); (xi) Mr. Heinz Sourell (Germany); (xii) Mr. Rambhau Shirode (India); (xiii) Mr. Takanori Nagano (Japan); (xiv) Mr. Rishi Srivastava (India); (xv) Dr. Srinivas Rao (India); (xvi) Er. S. Vishnu Vardhan (India); (xvii) Dr. R.B. Singandhupe (India); (xviii) Dr. M.J. Kaledhonuar (India); (xix) Dr. A.K. Surushe (India); (xx) Mr. K. Kuwabara (India);; (xxi) Dr. Sándor Szalai (Hungary); and (xxii) Mr. T.V. Satyanarayana (India).

Website: <http://www.wg-crop.icidonline.org>.

Item 1 : Confirmation of the minutes of the 1st meeting of the WG-CROP

The minutes of the 1st meeting of the Working Group held at Lahore, Pakistan (2008) were confirmed.

Item 2 : Review of the membership of the Working Group

The Indian National Committee on Irrigation and Drainage (INCID) has nominated (08 September 2009) Dr. K. Yella Reddy (India) for the membership of the WG. The WG has accepted the nomination.

The Iranian National Committee on Irrigation and Drainage (IRNCID) has nominated (31 August 2009) Ms. Jaleh Vaziri (Iran) for the membership of the WG. The WG has accepted the nomination.

The Pakistan National Committee on Irrigation and Drainage (PANCID) has nominated (19 August 2009) Prof. Dr. Rai Niaz (Pakistan) for the membership of the WG. The WG has accepted the nomination.

The Japanese National Committee of ICID (JNC-ICID) has nominated (11 August 2008) Dr. Koji Inosako (Japan) in place of Prof. Dr. Yoshisuke Nakano for the membership of the WG. His nomination was deferred to next meeting as the candidate was not available.

2.1 Election of Chair, Vice-Chair and Secretary

Mr. L.C. Tollefson (Canada) has been elected as Vice Chairman of the WG. The search will continue for the Secretary. Dr. Ragab Ragab (UK) continues to be the Chairman.

(A) ITEMS EMERGING FROM ERSTWHILE WG-CROP

Item 3 : Organic versus Conventional Farming

The WG is still interested in studying organic agriculture. However, no activity has been planned for the time being.

Item 4 : Precision Agriculture

The WG showed great interest in this area and a couple of presentation will be made during the next meeting in 2010. The Chairman informed the WG on the work carried out on the subject in one of the EU funded project "SAFIR" (*more information available at www.safir4eu.org*) and invited WG members to download the model developed and related documents from the project web site. The Chairman informed the WG of using minimum input of water and fertilizers and the advantage of using the Partial Root Drying (PRD) method to minimize water use.

Item 5 : Website of WG

The Chairman highlighted the contents of the WG website and its benefit to the WG members. The website will soon be updated with new input on SALTMED model (2009) and related documents.

Item 6 : WG report on closure of erstwhile WG-CROP (1997-2007)

The Chairman distributed the 10 years report on achievements and highlighted the most important outputs. It was clear that the WG had a very impressive list of outputs which included FAO Irrigation and Drainage paper 56 which is now widely used worldwide in estimating the crop water requirement and deciding on the irrigation scheduling.

(B) ITEMS EMERGING FROM NEW MANDATE

Item 7 : Promote the efficient use of water in crop production

Promoting efficient use of water in crop production is important and two presentations are being planned for next meeting in 2010. One of the presenter will be the new Vice-Chairman Mr. L.C. Tollefson (Canada) focusing on his experiences from Canada.

Item 8 : Provide input to test crop water models

Providing input to test crop water models will be supported by some members (and non members) once they get familiar with model data requirements. As a first step, the SALTMED model will be tried and a list of data requirement will be circulated. There may be a possibility of receiving contribution (data) from Dr. Andrew Sanewe (South Africa).

Item 9 : Energy crops for biofuel production

Energy crops for biofuel production are of great interest but no activity has been planned for next year. The issue will be discussed once again during next meeting in 2010. An excellent presentation was made by Dr. Srinivas Rao from ICRISAT, India regarding their experiences with energy crops in India.

Item 10 : Develop techniques for rainfall harvesting

Developing techniques for rainfall harvesting is another interesting area for the WG. The Chairman and possibly Dr. Andrew Sanewe will make presentations on the subject during the next meeting in 2010.

Item 11 : Multi-functionality of water use in paddy rice cultivation

Discussion on the subject was deferred till the next meeting in 2010.

Item 12 : Adaptation of agriculture to climate change

Adaptation of agriculture to climate change was highly supported by members and two presentations i.e. from Mr.

Tai Cheol Kim (Korea) and Dr. Graziano Ghinassi (Italy) will be made during the next meeting in 2010.

Item 13 : Promote low input agriculture

This area overlaps with Item 7 and both will be covered by two presentations.

Item 14 : Work Plan

The long term plan was not possible due to the limited number of WG members present. However, plan for next year has been achieved as mentioned under different items above. The main event will be the workshop on "Water Saving in Conservation Agriculture".

14.1 Workshop on '*Water Savings in Conservation Agriculture*'

It has been agreed that this workshop will take place during the next meeting of the WG in Yogyakarta, Indonesia, in October 2010. Dr. Mustaq Ahmad, Executive Director of the South Asian Conservation Agriculture Network, Pakistan and Dr. Rai Niaz Ahmad, Faisalabad University, Pakistan will be cooperating with the WG in organizing this workshop. The Indonesian National committee has welcomed the event.

Item 15 : Any other business

Dr. Srinivasa Rao from ICRISAT, India made a presentation on biofuel and food crops which was of great interest and the WG agreed to invite ICRISAT to be an observer in the WG. The ICID Central Office needs to issue an official invitation to ICRISAT / Dr. Rao.

The Chairman informed the WG members on different relevant events taking place around the world e.g. workshop in Denver, Colorado, USA.

APPENDIX XXIV [PCTA Item 4.2.5]

Minutes of the Third meeting of the
TASK FORCE ON FINANCING WATER FOR AGRICULTURE (TF-FIN)
New Delhi, India
07 December 2009: 14:15-18.00 hours

Year of Establishment: 2007

Mandate: The focus of the TF will be to get a better understanding and insight (assessment) of:(i) the demand for financing, (ii) for whom are those investments in agriculture water, (iii) the present financing mechanisms, constraints met from the demand side, and (iv) the changes and innovations for more appropriate mechanisms to enable better access to finance.

Members Present: (i) Dr. Gerhard Backeberg (South Africa), Chairman; and (ii) Dr. Vijay K. Labhsetwar, ICID Central Office.

Members Honoraire Present: (i) VPH Dr. Henri Tardieu (France); and (ii) VPH Prof. Hector Malano (Australia).

Observers : (i) Mr. V.K. Chawla (India); (ii) Prof. Kazumi Yamaoka (Japan); (iii) (iv) Mr. Bashir Ahmed Sial (Pakistan); (iv) Mr. Sylvain-Roger Perret (France); (v) Mr. E. Farhadi (Iran); and (vi) Dr. Brian Davidson (Australia).

Note: In the absence of the Chair and Vice-Chair of the Taskforce, Dr. Vijay K. Labhsetwar (ICID) introduced and requested Dr. Gerhard Backeberg (South Africa) to Chair the meeting. Dr. Backeberg requested Dr. Brian Davidson (Australia) to assist in taking the minutes. It was agreed to review membership of the taskforce and elect new office bearers. The agenda of the meeting was changed to conduct the workshop before undertaking the business at hand.

Workshop on "Development and financing of irrigation schemes" (Item 7)

Three papers were presented on the central theme of the workshop "Development and Financing of Irrigation Schemes".

Dr. Gerhard Backeberg (South Africa) first informed the members on the history and evolution of the workshop. He then presented the opening paper. He argued that the development and operation of a publicly funded irrigation scheme involves many actors, with the Government as a key driver in the process. As such a number of social, economic and political objectives need to be achieved. In meeting these objectives a number of assessments need to be carried out, many of which are well known in the literature, but are not necessarily undertaken. It was suggested that Gittinger provided an excellent basis upon which to make the required assessments. In undertaking these assessments it is necessary to identify the beneficiaries, the types of expenditure needed, the source of funds, the revenues and taxes derived. Ultimately it becomes a question of setting user charges and an assessment should be made of the ideal way of doing this.

Dr. Brian Davidson (Australia) argued that many assessments of engineering projects do not take account of the basic principles of economics. He outlined the fundamental principles of markets that need to be understood and a number of simple extensions that should be incorporated into any future assessments. An example of how these principles could be used was presented.

Dr. Sylvain Perret (France) presented an assessment of an irrigation scheme in South Africa. He outlined the difficulties in obtaining data and on monitoring the economic health of the scheme. In addition, problems existed in how to evaluate the data that was obtained. They used a discounted cash flow approach that 'back-casted' the life of the project. The work led to questions of how water should be charged for that accounts for the social circumstances in which they find themselves.

In the discussion that followed, the following issues were raised:

- Financing water needs to be split between the costs of establishment and the operations and maintenance. Each requires a different approach.
- One needs to ask who would be interested in investing and what security would they get for their investment?
- Should publicly funded schemes be measured by the same tools that are used to evaluate a private investment?
- Perhaps a balance among beneficiaries should be assessed? It is not only farmers who pay for irrigation. This takes us to the national benefits of irrigation. So what needs to be done about the 'value added' issues?

How the user charges system works in Iran and Pakistan were presented and discussed.

It was concluded that the ICID, as a well grounded organisation, needs to develop and take positions on these issues. The future discussions should be narrowly focussed on user charges and the associated financial issues. In some ways this needs to be done for existing schemes and the ones that are being proposed.

Other selected Agenda items

It was agreed that items 1 and 2.1 should be addressed. Item 3, 4, 5 and 6 were deferred in view of the new focus of the taskforce.

Item 1 : Confirmation of the minutes of the previous meeting

The last meeting of the taskforce was held 2 years ago. As no one from that meeting was present at the current meeting, a motion to accept the minutes as an accurate reflection of the meeting was not resolved.

Item 2.1 : Election of a New Chair and Secretary and Membership

The following proposed members were accepted into the taskforce:

- Vice President Hon. Dr. Henri Tardieu (France)
- Mr. E. Farhadi (Iran)
- Dr. K. Yamaoka (Japan)
- Dr. G. Backeberg (South Africa)
- Mr. V.K. Chawla (India) was proposed as a replacement for Mr C.S. Mathur (India)

It was also proposed that Dr. Sylvain Perret (France) and Dr. Brian Davidson (Australia) should approach their national committees and become proposed members of the Taskforce.

Given a change in direction and new work commitments, the Chair of the Taskforce Ir. Paul van Hofwegen (The Netherlands) has resigned. Dr Gerhard Backeberg (South Africa) was elected as the new Chair of the Taskforce. Dr. Sylvain Perret (France) was elected to be the Secretary of the Taskforce (subject to nomination from French National Committee as an observer since only one person per National Committee is acceptable).

Item 8 : Work Plan of the TF

A set of workshops at annual ICID meetings will be planned to cover the issues raised in New Delhi workshop in 2009.

Item 9 : Any other business

Dr. Gerhard Backeberg (South Africa) agreed to enter into discussions with the Central Office on refining the aims of the Taskforce such that they are more in line with those presented in the background paper. It was stressed that this Taskforce is not interested in rewriting existing literature on the economic evaluation of publicly funded irrigation and drainage systems.

Rather, it was agreed that the Taskforce should very narrowly focus on what is an extensive area of user charges and its associated economic influences. Broad issues, such as water, social, economic and agricultural policy, while needing to be accounted for, are considered to be beyond the scope of this Taskforce. It was agreed that the aim of this Taskforce is to get the ground work and conceptual framework for the financial evaluation of irrigation correct.

It was agreed that the output of the Taskforce would consist of a set of workshops at annual ICID meetings and a set of briefing papers emanating from these workshops.

Initially, an evaluation of the existing user charges in different countries would be presented. Participants agreed to present a short briefing paper on the methods of imposing user charges in their country and to present these at the next meeting of the Taskforce. In the meantime, Dr. Gerhard Backeberg, Dr. Brian Davidson, and Dr. Sylvain Perret will prepare guidelines for case studies to be presented on “principles and practices of water charging systems in irrigation: cross-country experiences”, so that the resulting compilation yields comparable materials, leading to fruitful outputs, debates and cross-learning.

APPENDIX XXV [PCTA Item 4.1.2]

Minutes of the Sixteenth Meeting of the
ICID JOURNAL EDITORIAL BOARD (EB-JOUR)
New Delhi, India
08 December 2009: 09:30-13:15 hours

Strategy Theme: Knowledge

Year of Establishment: 1994

Mandate:

- To ensure with the (Joint) Editor(s) that the Journal is published in accordance with editorial policy;
- To select and recommend to IEC, through PCTA, the appointment of (Joint) Editor(s), Associate Editors and Members;
- To review and update editorial policy when required, to conform with the developing ICID objectives;
- To address and resolve issues pertaining to the Journal;
- To review guidelines for authors, manuscript reviewers and book reviewers and liaise and coordinate with ICID Work Bodies.

Members Present: (1) President Hon. Prof. Bart Schultz, Chairman (The Netherlands, 2002); (2) Vice President Hon. Prof. H. Malano, Joint Editor in 2008 (Australia, 2001); (3) Dr Nick C. Van de Giesen, Joint Editor in 2008 (The Netherlands, 2007) represented by Dr. Maurits Ertsen; (4) Vice President Hon. Prof. dr. Riota Nakamura, Associate Editor (Japan, 2001) represented by Dr. Yohei Sato; (5) Vice President Hon. Dr. Henri Tardieu, Associate Editor (2007); (6) Vice President Hon. Larry D. Stephens (USA, 2001); (7) President Hon. Ir. Keizrul bin Abdullah (Malaysia, 2001) represented by Prof. Ir. Dr. Mohd Amin bin Mohd Soom; (8) Dr. Muhammad Latif (Pakistan, 2002) represented by Mr. Hassan Javaid Afridi; (9) Vice President Hon. Prof. Kwun, Soon-Kuk (Korea, 2003) represented by Dr. Joong Dae Choi; (10) Prof. dr. Joachim Quast (Germany, 2004); (11) Prof. Y.C. Tan (Chinese Taipei, 2006) represented by Ms. Hstao-Wen Wang; and (12) Dr. Vijay K. Labhsetwar, Coordinator (ICID Central Office).

Member Honoraire Present: President Dr. Chandra Madramootoo (Canada).

Observer: Mr. Asit Chaturvedi (India).

Item 1 : Confirmation of the minutes of 15th meeting of the Editorial Board

The minutes of 15th meeting of the Editorial Board held at Lahore, Pakistan were confirmed.

Item 2 : Review of the membership of the Editorial Board

There were several nominations made for new membership:

- The Australian National Committee on Irrigation and Drainage (ANCID) has nominated Dr. Mohsin Hafeez (Australia) as Associate Editor of the EB. Due to his absence, the decision on his membership has been deferred to next meeting;
- The French National Committee (AFEID) has nominated Dr. Marcel Kuper as member with the possibility to be Associate Editor. The EB-JOUR recommends him to be an Associate Editor;
- The Indian National Committee of ICID (INCID) has nominated Mr. C.M. Pandit (India) for the membership of the EB. The EB-JOUR recommends him to be a member;
- The Japanese National Committee of ICID (JNC-ICID) has nominated Dr. Yohei Sato (Japan) for the membership of the EB. The EB-JOUR recommends him to be a member;
- EB-JOUR recommends Dr. Bruce Lankford, who is already a member of EB-JOUR, to be an Associate Editor.

In addition to above, two late nominations were also received:

- the South African National Committee (SANCID) has nominated Dr. Machiel Viljoen as a member with the possibility to be Associate Editor. His nomination as Associate Editor has been provisionally accepted, subject to receipt of the formal nomination from SANCID;
- the Malaysian National Committee has nominated Prof. Ir. Dr. Mohd Amin bin Mohd Soom as member of the EB. His nomination as a member has been provisionally accepted, subject to receipt of the formal nomination by MANCID.

2.1 Joint Editors

Dr. Hector Malano (Australia) commenced his work as Joint Editor of the Journal in January 2009 whereas Prof. Nick van de Giesen already took up the task in January 2008. Due to the large number of papers (about 200 papers) annually received these days; the Chairman will share the coordination of the reviews with the Joint Editors.

2.2 Term of members

Prof. Dr. James Murray de Jager (South Africa) has indicated his wish to retire as Associate Editor. The members of EB-JOUR thanked Prof. De Jager for the good work that he has done for *Irrigation and Drainage*.

PH Keizrul bin Abdullah, (Malaysia) VPH Luis Pereira (Portugal) and Ing. Manuel Contijoch Escontria (Mexico) have indicated their desire to retire from membership of the EB-JOUR. The members of EB-JOUR thanked them for the good work that they have done for *Irrigation and Drainage*.

For reasons of handling the large number of papers and continuity in the development of the Journal, Prof. Bart Schultz (The Netherlands) plans to continue his Chairmanship until the Congress in 2011.

Item 3 : Reports (from Editor, Chairman etc.)

The report of 2008 was disseminated before the meeting among the members of the Editorial Board. In general the Journal is doing well. However, unfortunately the Impact factor has decreased from 0.623 in 2007 to 0.480 in 2008. A serious developing problem is that although we are much stricter in our acceptance of papers, we still have to accept many more papers than we can publish. This has resulted in a long list of papers under early view and more than one year delay in the actual publishing of an accepted paper. It is therefore recommended that, in 2011, the number of pages per issue will be increased from 128 to 152.

3.1 Special Issues

The special issue with selected papers from the Lahore Congress will be published in Issue 58.5. In addition, three sponsored Special Issues have already been published on the themes listed below:

- Water and Food for Ending Poverty and Hunger at the occasion of the 5th World Water Forum (Issue 58.1);
- The Water Professional of Tomorrow, (Issue 58.2) based on reviewed papers of the NETHCID symposium and published in co-operation with Wageningen University;
- Irrigation Management in North Africa, (Special Issue 58.3) based on papers prepared in the framework of the SIRMA (Irrigation Systems for Maghreb) project. Published together with the Centre de Coopération Internationale en Recherche Agronomique pour le Développement (CIRAD), France.

The Working Group on Sustainable Development of Tidal Areas (WG-SDTA) is planning to publish, in 2010, a sponsored Special Issue with papers based on its work. The Netherlands National ICID Committee (NETHCID) is considering publishing, in 2011, a sponsored Special Issue with selected papers of the 25th European Regional Conference of ICID.

3.2 Two ICID pages per issue

The ICID Central Office has regularly and timely supplied relevant text of interest for the two pages assigned to Central Office in each issue.

3.3 Book Reviews

EB is still looking for a volunteer to take care of the book reviews.

3.4 French resumés

VPH Henri Tardieu (France) has been providing (since 2007) the French Resumés of all the English abstracts for the Journal on a voluntary basis.

3.5 Recognition to the reviewers

The guest editors and reviewers of 2009 will be acknowledged on separate pages in the first issue of 2010.

3.6 Proposal for the Wiley-Blackwell Best Paper Award 2009

In 2008, 46 papers have been published. Out of these the Best Paper was selected by the Chairman, the Joint Editors and the Associated Editors. The Best Paper Award is a citation plaque along with a cash prize of either £ 250, or £ 400 – in the form of Gift Books (Wiley Publications), and the awardee will have an option to choose. The *'Wiley-Blackwell Best Paper Award 2009'* will be presented to the winner during the IEC meeting at New Delhi.

Item 4 : Distribution of the Journal among the ICID membership

Under the new (third) Agreement with M/s. Wiley-Blackwell for the period 2009-2013, each National Committee receives ten copies - online + print, or online only - of each issue of *Irrigation and Drainage* for free. In addition, one online access of each issue for each individual who is an incumbent, or active honoraire office bearer, or an active member of an ICID work body will be provided.

The Central Office compilation (2009) covering all above categories show that there are 252 online (only) subscriptions, 278 copies as online + print and 344, as print only subscriptions (Total = 874).

National Committees are entitled to order extra subscriptions for their individual members. For 2010 the prices for the individual member subscriptions have been set as follows: online only US$ 36 and online + print US$ 43. The hard copies are sent by M/s. Wiley-Blackwell directly to the National Committees.

Item 5 : Review the Duties of the Editorial Board

The duties of the editorial board have been updated by the Chairman, taking into account a more clear distinction between the tasks of the Joint Editors and Associate Editor(s) and the tasks of the other members of the EB. The updated duties are attached to these minutes as **Annex.**

Item 6 : Items related to M/s. Wiley-Blackwell

6.1 Number of pages per issue

In view of substantial number of papers posted on early view and ready for publication, it was proposed to publish six issues of 128 pages each (same as before) of the Journal in year 2010. However, this turned out to be not possible in the present financial conditions. Although a substantially higher number of papers have been rejected over the past period, by applying more strict rules on the quality, the stock of papers ready for publication is still increasing. This causes long delays - at present more than a year – before accepted papers are printed. It is therefore recommended that in 2011 the number of pages per issue will be increased from 128 to 152.

6.2 New format for the Journal

M/s. Wiley-Blackwell has made a proposal for a new format for the Journal. This would enable to publish a few more papers per issue. The new format allows more papers per issue with no financial implications. In view of M/s. Wiley-Blackwell wanting early confirmation of the proposed format, Chairman circulated the draft version to President, the Joint Editors and Central Office. This virtual consultation was required for an early decision on the subject such that M/s. Wiley-Blackwell could redesign lay out and be able to publish the first issue of 2011 with new format. A sample copy was presented during the meeting as well. It has been agreed by all to go ahead with the new format.

6.3 Improved information on Manuscript Central

With the improved information on manuscript central, authors can now easily find the status of their paper in the review process.

Item 7 : Any other business

The ICID Central Office received (23 September 2009) a copy of 'Publishing News 23' from M/s. Wiley-Blackwell highlighting the issue of 'Professional Plagiarism'.

CrossCheck is a CrossRef initiative to provide tools for the prevention of scholarly and professional plagiarism. There are two elements to CrossCheck: the database and the originality (plagiarism) detection tool (iThenticate software provided by iParadigm):

- The database contains indexed published content from CrossCheck members. (For a full list of members see: http://www.crossef.org/crosscheck_members.html)
- The originality detection tool iThenticate checks authored works against the database content. This is done through a web-based tool by uploading a document and running a similarity check against the database and (optionally) the internet.

The system returns a set of results listing documents that share a significant degree of textural overlap with the target (authored) document. Results are presented in order of similarity with an indicator that shows the degree of overlap with the document being checked. It should be noted that CrossCheck only indicates duplication, rather than plagiarism itself.

The result generated by CrossCheck is called a 'similarity report' and must be analyzed by somebody with editorial expertise (i.e. a Journal Editor) in order to determine possible instances of plagiarism. If a high level of similarity is deemed to constitute plagiarism, Editorial Offices can then take necessary actions regarding the plagiarism case to be answered by the author.

Journals interested in adopting CrossCheck should contact their Wiley-Blackwell Editor or Publishing Manager.

The Chairman will contact the publisher to check how best we can use CrossCheck in our review process.

Annex [Appendix XXV, Item 5]

UPDATED DUTIES OF THE EDITORIAL BOARD OF IRRIGATION AND DRAINAGE

The objects of the International Commission on Irrigation and Drainage (ICID) is to stimulate and promote the development and application of arts, sciences and techniques of engineering, agriculture, economics, ecology and social sciences in managing water and land resources for irrigation, drainage and flood management and river training and/or research in a more comprehensive manner adopting to date techniques. The Editorial Board of *Irrigation and Drainage* is responsible for setting the policy for of *Irrigation and Drainage* which strives to publish scientific (research) and application (professional practice) oriented papers that are clear, concise, uniform in style and readily understandable by an international audience. The board operates independently of any Working Group or Permanent Committee in order to preserve the quality and integrity of *Irrigation and Drainage*.

Mandate of Editorial Board (EB-JOUR) fof *Irrigation and Drainage (IRD)*

- To ensure with the (Joint) Editor(s) that the Journal is published in accordance with editorial policy;
- To select and recommend to IEC, through PCTA, the appointment of (Joint) Editor(s), Associate Editors and Members;
- To review and update editorial policy when required, to conform with the developing ICID objectives;
- To address and resolve issues pertaining to the Journal;
- To review guidelines for authors, manuscript reviewers and book reviewers and liaise and coordinate with ICID Work Bodies;

Chairman of the Board

- To organise, in line with the developing ICID objectives, the work of EB-JOUR in consultation with the Publisher, the (Joint) Editor(s) and other members of EB-JOUR, Secretary-General and the coordinator in Central Office;
- To represent *Irrigation and Drainage (IRD)* with the Publisher -in principle by bi-annual meetings - and within ICID by Chairing the EB-JOUR and MT-JOUR meetings and through regular ad hoc contacts;
- To take care of the publication of the accepted papers in a timely way;
- To prepare the annual report on *Irrigation and Drainage (IRD)* for approval of the ICID Management Board;
- To liaise with the Joint Editors on the editorial process;
- To liaise with the publisher and the coordinator in Central Office on any matter that may arise;
- To liaise and coordinate with ICID Workbodies;
- To contribute to the promotion of IRD;
- To organise the process for selection of the Best Paper.

Joint Editor(s)

- To contribute to the work of EB-JOUR and to suggest improvements;
- To organise the review process of the submitted papers in consultation with the Associate Editors, or by direct request for reviews by the EB-JOUR Members or qualified external specialists;
- To take care for the scientific quality of the papers that will be accepted for publication;
- To liaise with the Chairman on any matter that may arise during the review process;
- To contribute to the promotion of IRD;
- To review guidelines for authors, manuscript reviewers and book reviewers and liaise and coordinate with ICID workbodies;

Associate Editors

- To contribute to the work of EB-JOUR and to suggest improvements;
- To organise at request of the (joint) editor(s) the review process of submitted papers in their field of specialisation;
- To take care for the scientific quality of the papers under their responsibility;
- To liaise with the Chairman, and/or the Joint Editor(s) on any matter that may arise during the review process;
- To contribute to the promotion of IRD;
- One of the Associate Editors will take care of checking the French Résumés;
- One of the Associate Editors will take care for organising Book Reviews.

Members

- To contribute to the work of EB-JOUR and to suggest improvements;
- To review a certain number of submitted papers at request of the joint and/or associate editors;
- To liaise with the Chairman, Joint and/or Associate Editors on any matter that may arise during the review process;
- To contribute to the promotion of IRD.

Coordinator in Central Office

- To contribute to the work of EB-JOUR and to suggest improvements;
- To collect the required information on the ICID member subscriptions and communicate this information to the publisher;
- To take care that the financial figures on IRD as approved by the Management Board are included in the budget of ICID;
- To disseminate the information on new issues through the ICID media;
- To promote IRD through the contacts of Central Office;
- To review a certain number of submitted papers at request of the joint and/or associate editors;
- To respond to questions on IRD.

APPENDIX XXVI [PCTA Item 4.3.2]

Minutes of the Eighth Meeting of the
WORKING GROUP ON SUSTAINABLE DEVELOPMENT OF TIDAL AREAS (WG-SDTA)
New Delhi, India
08 December 2009: 09:30-13:15 hours

Strategy Theme: Basin

Year of Establishment: 2001 **Completion of the Mandate: 2009**

Mandate:

- To collect information about the natural environment in tidal areas around the world.
- To identify sustainable development and conservation options in the tidal areas.
- To find a balance between the preservation and development of tidal areas.

Members present: (1) Dr. Park Sang Hyun, Chairman (Rep. of Korea 2002); (2) Dr. Inreswari Guritno (Indonesia, 2002) represented by Vice President Hafied A. Gany; (3) Mr. Ueda Kazumi (Japan, 2003); (4) Dr. Ruey-Chy Kao (Chinese Taipei, 2007); and (5) Secretary General, ICID represented by Dr. Vijay K. Labhsetwar, Director, ICID.

Members Honoraire Present: (i) VPH Henri Tardieu (France), and (ii) VPH Ricardo Segura (Spain).

Observers : (i) Dr. Hsiao-Wen Wang (Chinese Taipei); (ii) Dr. Sudhir Bhongle (India); (iii) Er. Dhimant B. Yyas (India); (iv) Ms. Chu-Yi Liu (Chinese Taipei); (v) Mensi Bhai Shriya (India); (vi) Dr. Park Kwang Soo (Korea); (vii) Ms. Pin-Han Kuo (Chinese Taipei); (viii) Mr. Kim Kwan (Korea); (ix) Dr. Park Chang Youn (Korea); (x) Mr. Park Aelan (Korea); (xi) Dr. Park Kwangsoo (Korea); (xii) Mr. L.M. Patel (India); (xiii) Mr. Kang. Jae HO (Korea); (xiv) Mr. Premji Bhai Patil (India); (xv) Mr. Vincent Bernard (France); (xvi) Mr. Maurice Roos (USA); (xvii) Dr. Kiwook Park (Korea); (xviii) Mr. Seukhun Joo (Korea); (xix) Dr. Kyu Yull Choi (Korea); (xx) Mr. Cjoongade Choi (Korea); (xxi) Prof. N. Hatcho (Japan); (xxii) Mr. K.M. Shah (India); and (xxiii) Mr. Rajendra Pawar (India).

Website: http://www.wg-sdta.icidonline.org and http://www.webhard.co.kr

Item 1 : Confirmation of the minutes of the 6th meeting of the Working Group

The 7th Meeting of WG-SDTA on 14 October 2008 at Lahore, Pakistan could not be held due to scarce attendance of the members. However, the minutes of the 6th meeting of WG-SDTA in 2007 at Sacremento, USA were confirmed.

To make up for the meeting, various interim meetings were held, including the meeting on 24th February 2009 at Taipei in Taiwan, supported by Chinese Taipei Committee of ICID, to focus on the publication of the Handbook on SDTA.

Item 2 : Review of the membership of the Working Group

Mr. Jonathan Simm (UK), Vice Chairman informed that he could no longer be the Vice Chair. The WG acknowledged his efforts in preparing the Handbook and position paper etc.

Ir. Henk P. Ritzema (The Netherlands) has agreed to be new Vice-Chairman and Prof. Ruey-Chy Kao (Chinese Taipei) will be the new Secretary of WG-SDTA.

Dr. Jo Jin Hoon (Korea) has been accepted to be an observer in the WG-SDTA and consented to complete the edition of Chapter 6 of the Handbook on SDTA. (Subject to receiving a nomination from the Korean National Committee)

Similarly, Dr. Hsiao-Wen Wang (Chinese Taipei) and Mr. Dhimant B. Yyas (India) have been accepted to be Observers in the WG-SDTA and will contribute to the publication of the Handbook on SDTA. (Subject to receiving nominations from the concerned National Committees)

Item 3 : Tenure of the WG

In view of still unfinished WG Publication of Handbook on SDTA, the WG proposed to extend the tenure of the WG upto 2010 (i.e. 61th IEC Meeting in Indonesia in October 2010).

A. CONTINUING ITEMS

Item 4 : Study Items

The WG endorsed eight study items during Montreal (2002) meetings. Based on the results in the 2nd WS in Montpellier (2003), these study items were re-classified as per the proposed chapters of the Handbook.

The WG endorsed following study items during Montreal (2002) meetings:

- Identify criteria or decision support system to find sustainable development schemes for the planning and design of dikes and related structures.
- Integrate irrigation, drainage and flood management practices in reclaimed area (WS topic in 2002).
- Study physical, chemical and biotic characteristics of the tidal areas (WS Topic in 2003).
- Examine management and institutional aspects and production system in reclaimed areas (WS Topic in 2004).
- Enhance community participation in the sustainable development of tidal areas (WS Topic in 2004).
- Study socio-economic impacts and cost/benefit analysis of various development alternatives (WS Topic in 2004).
- Establish historic aspects of tidal reclamation (WS topic in 2002).
- Incorporate integrated approaches for sustainable development and conservation options (WS topic in 2002).

Item 5 : Publication of the Handbook on SDTA

Contributions to ICID Handbook on SDTA

(Since the publication is not exactly a handbook, it was decided to change the title to: "*Towards Sustainable Development of Tidal Areas: Some Principles and Experiences.")*

Three type of Contribution has been circulated since November 2003

Type 1: Overall compilation and editing of one chapter
Type 2: Contributions for the sub-chapters
Type 3: Case studies

Type 1 : Overall compilation and editing of Chapters

Chapter	Description	Editor
1.	Introduction	Jonathan Simm (UK) and Henk Ritzema (The Netherlands)
2.	Aspects of managing development of tidal areas	Park Sang Hyun (Korea)
3.	Tidal and lowland features	Dr. Ruey-Chy Kao (Chinese Taipei) and
4.	Existing natural processes (Chapter 3 and Chapter 4 to be combined)	Dr. Inreswari Guritno (Indonesia) to lead, with support from India ,Japan and Malaysia
5.	Engineering for SDTA	Dr. Hiramatsu (Japan)
6.	Tidal reclamation and their impact on natural processes	Dr. Jo Jin Hoon (Korea), B. Probst (Germany)
7.	Integrated decision support framework	Jonathan Simm (UK) and Henk Ritzema (The Netherlands)

Type 2: Sub-Chapter Authors

(1) Introduction : Editors: J. Simm (UK) and H. Ritzema (The Netherlands)

1.1 General philosophy of Guidelines etc,	• Conceptualize SDTA • Introduce Five capitals model
1.2 Historical context in tidal areas • Reclamation in Meldoef Bighr, B. Probst • Tideland Reclamation in Korea, Park, SH • Impoldering Works in Japan, K. Ueda	• More historic results needed from various NCs concerned on SDTA (less than 2 pp.)
1.3 Objectives, relationship and structure of guidelines • Vision, Principles and Objectives for SDTA,	• Nine principles and indicators to be adopted in each Chapter • Detail indicators on agriculture would be included, such as chemical fertilizer, multi functions of farmland
Ir. Henk Ritzema submitted the Draft to Chairman on 11th Nov. 2009 and the Chair circulated it to WG Members and the Reviewers. Mr. Kim Ju Chang (Korea) has reviewed the reported in November 2009 as below: • Tidal land > Tideland • In Table 1, Total Tidal area > Total reclaimed area • Some figures in Table 1 shall be reviewed by each concerned NC.(Korea etc)	

(2) Aspects of managing development of tidal Areas: Editor: Park Sang Hyun (Korea)

2.1 Management and institutional context	International and Legal regal systems in each country is introduced, such as Ramsar and OECD Indicators and Direct Payment concerned with SDTA
2.2 Land-use planning	Land allocations in Table 2.2.1 would be revised in cooperation with various NCs
2.3 Conservation (habitat/biodiversity)	Advanced schemes on constructed wetland from various NCs (India, UK), Institutes (such as Ramsar) would be included. The authors will cooperate with Chapter 5.
2.4 Irrigation and drainage planning requirements	Advanced optimization technology necessary for the efficient and sustainable management of water management systems
2.5 Aquaculture planning requirements	Replaced with Multi functional role in Tidal reclaimed Areas
2.6 Catchment flood Management planning	Paper of F.F.J and J.Simm is prepared, Authors' review is necessary
2.7 Catchments water Quality management planning	Catchment Water quality Management, by Prof. Choi, J.Dae WQ Conservation in Reclaimed land by Dr. Shiratani
2.8 Coastal zone managing planning	Replaced with GIS in Tidal Areas
2.9	Economic Issues on Tidal Reclamation is added

Chapter 2 - Japan has already reviewed. There are too many duplications in Chapter 2. Dr. Park will revise according to the comments.

(3) Tidal lowland feature: Editor: Prof. Ruey Chy Kao (Chinese Taipei) and Indr. Guritno(Indonesia)

3.1	Peat-land	Henk Ritzema, Case study on Development of Peat swamp in Borneo
3.2	Mangrove areas	Indreswari Guritno, Case study on the Mangrove in western Indonesia('06)
3.3*	Salt marshes	Jacobus Hofstede, Case study on Salt marshes Management in Wadden sea
3.4*	Deltas generally	
3.5	Dune-beach systems	
3.6	Other Geographical coastal features	Jacobus Hofstede , The Dutch-German-Danish Wadden sea: A Geographical Overview * Japanese WT has interest in preparing sub-chapters 3.3 and 3.4 and other subchapter also.

(4) Existing Natural process : Editor: Prof. Ruey Chy Kao (Chinese Taipei)

4.1 Water Cycle (Precipitation, runoff,)	
4.2 Hydro dynamics of River systems	Prof. Cai Lingen submitted a paper in September 2009, to be revised.
4.3 Hydro dynamics of tidal water	Prof. Cai Lingen submitted a paper
4.4 Wave and Storm Surge	Prof. Cai Lingen submitted a paper Dr. E.J. James (India) on Tsunami disaster
4.5 Sediment processes and morphological changes in rivers and estuaries	Dr. K. Hiamaztu, Basic Theory of Sediment process Dr. R. Dieckman,Germany Quantitative Geomorphology of Tidal Basin
4.6 Water quality changes in estuaries 4.7 Ground water and Soil Characteristics	Dr. Masayuki Imaizumi (2007) proposed to be new author
4.8 Associated habitats and ecological features	
4.9 Climatic and iso-static changes	

- Some Academic and site specific papers shall be revised to focus on practical results.
- Technical cooperation among NC would be necessary

Chapter 3 and Chapter 4 shall be combined and Prof. Ruey-Chy Kao (Chinese Taipei) shall be the new editor supported by representatives from India and Malaysia. In addition, the Japanese WT agreed to support the edition and drafting of the sub-chapters.

India will provide iformation on integrated system which can be included in Chapter 3 or 7.

Dr. Indreswari Guritno has provided a case study concerning Tsunami to be included in Chapter 3.

(5) Engineering for SDTA: Editor Dr. Hiramatsu (Japan)

5.1 Dikes and water retention structures

- Embankment and Groyne Structure, Mr. K. Tanaka (Japan)
- Design and Safety Standard of Sea Dikes, Berndt Probst (Germany)
- Optimal dimension of dumping materials in tidal closure (Park S.H. wishes to be included)

5.2 Water management systems and structures, (Prof. Dr. Shikasyo (Kyusyu University, Japan)

5.3 Dredging and channel improvements: Tailrace and Estuary Treatment Facility, Mr. Kiichiro Tanaka

5.3.1 Tail race (Japan)
5.3.2 Estuary improvement (Japan)

5.4 Land fills in reclaiming areas and artificial beach nourishment in the tidal areas: Land Reclamation and Artificial Beach in the Tidal Area

Dr. Park reviewed and commented as follows:

- More valuable results from various Projects, such as Isahaya, Fish way in Nagaragawa project will be included, concerned with mitigation of schemes and amenity use, even the Vol. increased.

Mr. Dhimant B. Vyas (India) agreed to provide some information on tidal energy engineering to be included in Chapter 5.

(6) Tidal reclamation and their impact on natural processes: Editor:Dr. Jo, Jin Hoon and Berndt Probst (Germany)

6.1 Consolidation of drained peat layers: may move to sub-chapter 3.1 on Peat-land

6.2 Sedimentation inside and outside of the dike construction: may move to sub-chapters 5.3 and 5.4

6.3 Desalination of soils and water in tidal reclamation

- Land Drying Practices and its Effects on Soil Properties in Reclaimed Lands: Abstract received from *T. Akae, H. Nukumizu, Nagahori (Okayama University, Japan)*
- Desalination of Soils in Tidal Reclamation, *Lee, Deog-Bae, RDA (Korea)*

6.4 Chemical and water quality impact from industrialization and urbanization

- The effects of non point sources from agricultural areas to the freshwater lake, *Dr. Choi Sun Hwa (Korea)* submitted paper in 2007

6.5 Impacts on morphology

- Prediction of Morphological Reactions in a Tidal Diking Project: Case Study - Nordstrander Bucht: Abstract, *Reinhard Dieckmann (Germany)*

6.6 Impacts on habitats and ecology:

- Skip as it is described in Chapter 2, in case no paper received.

Since Ansan Meeting in Korea in July 2007, Dr. Jo Jin Hoon has edited the Chapter to be completed in October 2009.

The Edition results are being reviewed by Ir. Henk Ritzema and Mr. Ueda Kazumi.

Dr. Ueda will deliver some comments on Chapter 6. Dr. Jo Jin Hoon will then edit according to Dr. Ueda's comments and will complete the editing by January 2010.

Mr. Dhimant B. Vyas (India) recommended including information on groundwater in this Chapter. Prof. Ruey-Chy Kao will cooperate with Prof. Hsiao-Wen Wang to give general information on ground water. Mr. Dhimant B. Vyas will also supply related information to Prof. Hsiao-Wen Wang to make the material more comprehensive.

(7) Integrated decision support framework: Editor: J.Simm (UK), H. Ritzema (The Netherlands)

7.1 Institutional aspects

- Hierarchical level, Project cycle, Roles and Responsibilities
- ICZM

7.2 Community participation and motivation

- Participation

  * Community Participation for Creating Sustainable Agriculture in Reclaimed Land,(Case of Ogata) *Yoshimitsu TANIGUCHI, Satoru SATO, at Akita University, Japan*

7.3 Natural processes

- Physical, biological and environmental

7.4 Engineering feasibility and cost proposal

- Benefit and cost analysis
- Use of resources/materials

7.5 Acceptability of proposed changes

7.6 Multi-Criteria decision processes

- Multi-Criteria Analysis

In Taipei Meeting (2009), Ir. Rizema submitted the Draft and Dr. Taniyama and Mr. Ueda (Japan) proposed to revise it to suit international guidelines or change the title.

Ir. Henk Ritzema is revising and Dr. Hiramastu (Japan) will review it in cooperation with Dr. Vijay Labhsetwar (ICID), Dr. Taniyama and Mr. Ueda (Japan) afterward.

Progress on Type 3 contributions

Country members have suggested following case studies may be submitted:

- China – coastal reclamation in North Jiangsu province, Yellow River delta, Qiantong Jiang reclamation in river mouth in Zhejaing province
- Germany – land reclamation in Meldorf Bight
- India – Kalpasar Project
- Indonesia- Tsunami disaster, Tidal lowland Development
- Japan – Kameda polder, Ariake Bay, Hachirogata
- Korea – Overview of Saemangeum project
- Malaysia – Muda Irrigation Scheme
- Great Britain – managed realignment projects
- The Netherlands- Flood Defences in Dike ring area

Handbook Reviewers

After Ansan Meeting (2007), the Reviewers were recommended and in Taipei Meeting (2009), it was proposed to complete the review in July 2009.

Chapters	Proposed Reviewers
Chapter 1: Introduction	• Mr. Kim Ju Chang (Korea) editor of previous WS Proceedings • Dr. E.J James(India) contributed to derive definition of SDTA • -Mr. Dhimant B. Vyas can be the reviewer of this chapter.
Chapter 2: Managing development	• Mr. Berndt Probst (Germany) Editor of Chapter 6 • - Dr. S.Taniyama(Japan), Supporter SDTA
Chapter 3: Tidal feature	• Dr. Ruey Chy Kao (Chinese Taipei), nominee for WG Member • Ir. J. Simm(UK), Editor of Chapter 1 and 7
Chapter 4: Natural process	• Dr. Indri Guritno(Indonesia), • Dr. Cai Lingen(China), Co-editor of Chap. 3
Chapter 5: Engineering for SDTA	• Dr. Bart Shultz (The Netherlands), Supporter for WG- SDTA • Dr. Park S. H(Korea), Editor of Chapter 2
Chapter 6: Impact on natural process	• Ir. H. Ritzema(the NL) Editor of Chap. 1, 7 • Ueda K(Japan), Author of Subchapter 1.2
Chapter 7:	• Dr. Hiramatsu (Japan), Editor of Chapt. 5 • Dr. Vijay K. Labhsetwar(ICID), WG- SDTA Supporter

Dr. Park asked (7 December 2009) Dr. Vlotman (Chair of WG-Drainage) to review some parts of the handbook and he agreed to do so during New Delhi Meetings.

All the Chapter Reviews shall be completed by February 2010 for onward submission to ICID Central Office by 1st May 2010.

Some other activities

An interim meeting was organized on 17 October 2008 in Brussels in where Jonathan Simm (UK) and Henk Ritzema (The Netherlands) agreed upon their contributions to Handbook Chapter 1 & 7. As Mr. Simm cannot continue working on the Handbook, he handed over his contributions to Dr. Ritzema, who will do the final editing of these two chapters.

The second interim meeting was organized in Korea on 1 November 2008 during the Joint Workshop in Ramsar Conference, to discuss the progress on the Position paper and Chapter 3. The meeting was attended by Dr. Park (Korea), Dr. Ritzema (The Netherlands) and Prof. Ruey-Chy Kao (Chinese Taipei) and some other members of the Korean NC.

Dr. Ruey-Chy Kao accepted the editing of Chapter 3 and presented a Table of content based on the work done so far. Both Dr. Park and Dr. Ritzema reviewed this Table of content and suggested some changes.

As a result, the CTCID organized a follow-up interim meeting and Workshop at Taipei, Taiwan on 24 February 2009, supported by KCID.

Item 6 : Position paper on "Sustainable Development of Tidal Areas"

Dr. Park, Mr. Simm and Dr. Ritzema prepared a position paper on *"Development of tidal areas: some principles and issues toward sustainability"* which was submitted and accepted for publication in the Special Issue of the International Journal on Irrigation and Drainage on occasion of the 5th WWF at Istanbul, Turkey (Ref.: Park, S. H., Simm, J., and Ritzema, H. P., 2009. *"Development of tidal areas: some principles and issues toward sustainability".* Irrigation and Drainage, 58: S52–S59, DOI: 10.1002/ird.474.). The Chairman and Secretary distributed the paper to the WG members.

The Chairman discussed with Central Office to circulate the paper to all NC's before placing it to IEC for endorsement at the New Delhi meeting in December 2009. In response, the Japanese NC informed that they have no comments on the position paper and approve it.

The French National Committee (AFEID) has provided (2 Oct.2009) the French translation of the Abstract of the position paper. Chairman expressed profound thanks to Chairman of AFEID for this help, during the New Delhi meetings

Item 7 : A Special issue of ICID Journal on SDTA

In the 2007 meeting, it was suggested to explore the options to prepare a special issue on SDTA of the ICID Journal on Irrigation and Drainage. Dr. Ritzema discussed this with Prof. Bart Schultz, editor-in-chief. A special issue on SDTA was most welcome, but this could only be a sponsored Issue, as there is no space in the regular issues of the journal till 2011. A special issue costs about US$ 15,000 for about 10 papers and has to be reviewed by Guest Editors.

The special issue will be prepared after the completion of the Handbook. WG-SDTA will sponsor the Special Issue in 2011. The 10 papers will be prepared based on contributions to the Handbook. Korea can provide 3 papers; Taiwan can provide 1 paper; while India can provide 3 to 4 papers on the subject of tidal area, one year for preparation is allowed. Other details will be discussed later.

Item 8 : Financial Support to publish the Handbook

In 2007, ICID Central Office estimated the cost of printing the Handbook to be about US $ 8,000 to 10,000. The cost with DVD may marginally go up.

During the Interim Meeting in Taipei (2009), the representatives from Korea, Japan and Chinese Taipei agreed to share the cost based on a ratio: Korea: Japan: Chinese Taipei = 40 %: 40%: 20%.

The Chairman requested in writing the National Committee concerned to acknowledge this commitment.

Dr. Park, Mr. Ueda and Dr. Ruey had a joint meeting with Dr. Vijay K. Labhsetwar (ICID) for the preparation of Publication of the Handbook on SDTA on 07 December 2009 at New Delhi.

1. Publishing cost: Total US$10,000

    - Preparation of Invoice from the Central Office
    - Allocation of the cost: edition, printing (Number of color pages/photo, distribution etc.)

2. Work plan to review and revise from May 2010

    - Team leader and staff from Central Office
    - External Reviewer from WG SDTA
    - Cover page and more information to be included
    - Preparation of Preface and Forward
    - (Chair discussed (7 December 2009) with Dr. Bart Schultz)
    - Publication including Hardcopy and DVD (In the DVD proceedings of each Workshop will be included)
    - Distribution of the Handbook (Free copies to NCs, Editors and related organizations, WG members)
    - Work schedule : The final draft (complete in all respects) must reach ICID Central Office in New Delhi, India by 1 May 2010, if not earlier.

The handbook will be published both in DVD and hardcopy. Preface will be prepared by Dr. Park. Dr. Park will request Dr. Bart Schultz to write forward in the Handbook and review Chapter 5 of Handbook. Dr. Vijay K. Labhsetwar will review the whole Handbook. There should be at least one to two external reviewers for the Handbook. A list of authors and reviewers will be included in the final draft of the Handbook.

Item 9 : Co-operation between WG-SDTA and related Organizations

The Korean INWEPF Committee and the ICID WG-SDTA jointly organised a Workshop on “Paddy Farming and Healthy Environment” during 10th meeting of Ramsar Conference on 29-30 October 2008 at Changwon City in

Korea. Six Speakers were invited from among the Editors of the Handbook and WG leaders. Workshop proceedings were prepared and distributed.

The Council of Agriculture, Executive Yuan, Taiwan, the ICID WG-SDTA and the Chinese Taipei Committee of ICID (CTCID) and the Chi-seng Water Management Research & Development Foundation, Taipei jointly organized an International Workshop on Tidal area features and natural processes during 24-26 February 2009 at Taipei, Taiwan.

The CTCID invited the WG members to participate and present their papers. Dr. Park, Dr. Ritzema, Prof. Ruey-Chy Koa, Dr. Dr. Daesu Eo and Dr. Jo Jin Hoon made their presentations. Workshop proceeding were prepared and distributed.

Item 10 : WG's Internal Workshop on "Monitoring Systems for Sustainable Development of Tidal Areas" (8 December 2009, 14:15-18:00 hours)

ICID Central Office had requested Dr. Park to organize a special workshop on SDTA during the 60th IEC Meeting in December 2009 at New Delhi, India. In the Taipei Meeting (February 2009), the WG members agreed to this request and accordingly organized a workshop on the theme "*Monitoring system for the sustainable development of Tidal areas"* in the afternoon of 08 December 2009 at New Delhi, India.

Five Papers were presented in the workshop:

- Application of Detention Wetland in Coastal Areas in Taiwan, by P.H.Kuo and Dr. H.W.Wang (Chinese Taipei)
- Stream Monitoring for Water Quality Management: An Example of Upstream Monitoring in Sloping Alphine
- fields by Prof. J.D.Choi etal. (Korea)
- Ensuring Inflow Water Quality for the Fresh Water Reservoir of the Gulf Of Khambhat Development Project by *Dr. M.S. Patel et al. (India)*
- Monitoring of Migratory Birds in Tidal Areas by Dr. Park Sang Hyun and Lee Deog Bae (Korea)
- Environmental Monitoring in Saemangeum Lake by Dr. Park Kwang Soo (Korea)

At the onset, Dr. Bart Schultz gave an encouraging speech in the Workshop. Mr. Dhimant B. Vyas (India) then made a presentation and introduced the Kalpasar Project from Gujarat state in India. The proceeding of the workshop has been printed by the support of Korean and Taipei Chinese NCs and the outcome will be covered in the Handbook.

Item 11 : Work Plan

Activities for year 2010

Authors, editors and reviewer will continue their work to complete the Handbook in time.

Transfer the publishing cost (US$10,000) to ICID Central Office by Korea, Japan and Chinese Taipei at the earliest.

SDTA Handbook is proposed to be printed and released during IEC meeting at Yogyakarta in Indonesia in 2010.

The Central Office needs the final version of the Document in New Delhi at least by 1st May 2010, if not earlier.

Item 12 : Any Other Business

The members of WG-SDTA desire to continue their work with a new name (new Working Group) and mandate to cover diverse issues, including climate change, under SDTA. The New Working Group will continue to disseminate the valuable results on SDTA. The new mandate, study items and work plan will be prepared by WG leaders and discussed before the next meeting in 2010 at Yogyakarta, Indonesia.

APPENDIX XXVII [PCTA Item 4.2.2]

Minutes of the Sixteenth Meeting of the
WORKING GROUP ON WATER SAVING FOR AGRICULTURE (WG-WATS)
New Delhi, India
08 December 2009: 09:30-13:15 hours

Strategy Theme: Systems

Date of Establishment: 1994 **Completion of the Mandate: 2013**

Mandate: "To recognize proven water saving success, and to identify and promote successful water conservation".

Members Present: (1) VPH Dr. Mark Svendsen (USA, 2007) Acting Chairman, on behalf of VPH Eng. Hussein El-Atfy, Chairman (Egypt, 2000); (2) Mr. N. L. Lecler (South Africa, 2003) represented by Dr. Sue Walker ; (3) Mr. Mehrzad Ehsani (Iran, 2006); (4) Mr. Kim Russell (Australia, 2005) represented Mr. Ian Moorhouse; and (5) Er. M. Gopalakrishnan, Secretary General, ICID.

Member Honoraire Present: President Hon. Peter S. Lee.

Observers: There were 24 other observers present at various times during the meeting.

Website: http://www.wg-wats.icidonline.org/

A. CONTINUING ITEMS

Item 1 : Review of the membership

The WG accepted new members Mr. R. K. Gupta (India) and Dr. Muhammad Arshad (Pakistan), both of whom had been nominated by their national committees and were present at the WG meeting.

The WG accepted, regretfully, the resignation of Dr. Alain Vidal as a member of the WG, while at the same time welcoming him as a Permanent Observer from the CGIAR Challenge Program for Water and Food. Other pending nominations were deferred because the nominees were not present.

In the absence of a regular Secretary, the Acting Chairman requested Mr. Mehrzad Ehsani to act as Secretary for the WG meeting.

Item 2 : WG Publication on 'WatSave Scenario'

The publication of the book *"Water Saving in Agriculture"* released in 2008 was announced by PH Mr. Peter Lee and Dr Kulkarni. Mr. Ehsani informed that the book has been translated into Persian and published by IRNCID. IRNCID will provide one copy of the book to the Central Office and will post a pdf version on the IRNCID website.

Item 3 : WatSave awards

3.1 The 2009 WatSave awards

The Acting Chairman informed that 8 nominations from 4 national committees had been received for the 2009 WatSave awards. A committee Chaired by PH Mr. Peter Lee reviewed the nominations and selected winners in the three identified categories. These will be announced at the IEC meeting on 10 December 2009.

3.2 Sponsorship

Discussion of sponsorship options was deferred and included in the discussion of Item 3.3.

3.3 Review of Criteria and Evaluation Process for WatSave Awards

At the request of the Acting Chairman, PH Mr. Peter Lee made a presentation to the WG describing the review process and posed several following points for discussion by the WG related to issues that had arisen during the review process:

1. There is some confusion over the nature of the three awards as to whether they are primarily awards to people or awards to achievements. The strong recommendation of the Mr. Lee was that the primary emphasis be on the achievement itself. To this end, he recommended that the phrasing of the award be "an award for [*the achievement*] to [*the individual or team behind the achievement*]" in that order. He also recommended that the titles of the achievements be concise and descriptive, and that they be limited to 10 words. These recommendations were discussed by the working group and endorsed.

2. A question arose as to whether an organization could propose an achievement and be considered for an award. The ICID rules governing the awards allow submissions by an "individual/team". The question raised was whether a nomination, under this language, could come from an organization itself, without specifying individuals. After discussion, the WG concluded that the nomination could come on behalf of an individual or a team of named individuals, but not from an organization itself, as this diffused responsibility for the achievement excessively. Mr. Lee proposed that the wording of the rules be changed from the present to "individual/team of individuals". This recommendation was endorsed by the WG.

3. There are currently three different awards given – one for technological achievement, one for managerial achievement, and one for young professionals. Mr. Lee observed that at times the committee felt that a nomination in one category actually fit better, and was more competitive, in another. He recommended that the evaluation committee be authorized to shift a nomination from the category in which it was submitted to another category when this was appropriate and beneficial. The WG endorsed this recommendation, with the proviso that the Central Office draft a short paragraph describing each category and include these descriptions in the call for nominations and on the application forms, since these terms are not currently defined explicitly.

4. The submissions this year (2009) included an interesting one that came from a farmer, but which did not fit easily into one of the existing categories. One difficulty with such nominations for achievements by farmers is that they generally do not cover the extensive areas required in the "technology" and "management" categories. The Acting Chairman added into this discussion the issue of the current financial burden on the sponsoring national committee, a burden which would grow with the addition of any new award categories. Currently a sum of US$ 2,000 is attached to each of the awards. After considerable discussion, the WG concluded that a farm-level category, where a farmer was responsible for the achievement, should be added to the set of WatSave awards, assuming that the following change in the financing of the awards is made concurrently. The new stipulation would be that the current total value of the awards, US$6,000, would not be exceeded as a result of adding any new award category, and that the basic award in each category be set at US$500. Recognizing that the need for the financial part of the award (as opposed to the professional recognition) is greatest for Young Professionals and for Farmers, however, the WG recommends that recipients in each of these two categories additionally receive a grant consisting of (a) remission of conference fees for the session at which the award is made, and (2) a grant for partial coverage of travel and accommodation expenses. The base award amount could be raised if funds to support the increase were available within the award pool. The WG requested that the Central Office develop a more detailed set of procedures for implementing these changes in the financial component of the awards and circulate to the Chairman and members of the WG for comment and approval. This should be done in advance of the issuance of the call for the 2010 WatSave awards.

5. At times, several nominations for awards in a single category have come from the same country in the same year. This can lead to difficulties for the evaluating committee, since members will often not have detailed firsthand knowledge of the situation in a particular country, and thus are not in a position to judge the realism of individual submissions. For this reason it is preferable to have the nominations first screened by the sponsoring national committee, after which a single nomination in each category would be forwarded to the evaluation panel. Mr. Lee recommended that this change in the rules be made. After discussion, the WG endorsed this suggestion.

6. WatSave rules currently allow nominations for achievements developed in a non-ICID member country to be submitted by a willing member country, with nominations limited to one per country (member or non-member). The emphasis in this formulation on countries has caused problems in the past when a particular achievement has roots in more than one country. In addition, the example of a situation in southern Africa

was given where University-based teams made up of students and researchers from more than one country may be responsible for a candidate achievement. This wording also gives rise to the case where one member country might be advancing nominations from several different countries in a given year. After considerable discussion, the WG reached consensus on a recommendation to the IEC that the WatSave rules be amended to allow for a single submission from each active national committee in each category in a given year. The nomination advanced by the national committee might come from that country, from a neighboring country, or might be comprised of a multi-national team. However, only one nomination per national committee per category would be accepted.

Dr. Kulkarni noted the importance of broadening the base of countries submitting WatSave nominations beyond the handful that currently submit. The WG concluded that a strong and actively promoted workshop at Yogyakarta, Indonesia in 2010 would provide a useful way to help broaden the base (see Item 5).

Item 4 : Framework for cooperation and interaction among ICID member countries and work bodies

The issue of linkages among WGs was raised and discussed. There was general agreement that such interactions were desirable. Mr. Lee pointed out that the theme leaders did provide some of this linkage. Other interactions should be on a case by case basis when a particular need arose.

Item 5 : Internal Workshop on 'Water saving achievements'

The possibility of a workshop on water saving achievements was raised by the Acting Chairman, noting that while often very useful when organized on topics of broad interest, success of such workshops usually depended on the presence of a "champion" and several other willing and active participants in the organization process. The possibility of organizing a workshop in Yogyakarta in 2010 was discussed, and the South African group came forward with an offer to explore and lead the organization of such an effort, working with the Chairman and members of the WG. The WG welcomed this offer.

Item 6 : Newsletter and webpage of the Working Group

The idea of a newsletter was again raised and discussed. The WG felt that including news items related to the WatSave awards and other WG activities in the existing ICID News was a sufficient print outlet at this time and that there was not a compelling need for a separate WG newsletter.

Item 7 : Work plan

Mr. Mehrzad Ehsani (Iran) pointed out that as the mandate of the WG was extended to 2013 at the Lahore meeting, the WG needs to update its work plan to cover this period. The Acting Chairman noted that the core elements of the work plan were the management of the WatSave award process and could include the proposed Yogyakarta workshop on water saving achievements.

Mr. Ehsani presented several additional ideas for inclusion in the work plan - in particular, preparation of one or more books related to "water productivity". The WG discussed the nature of the value that could be added to the existing shelf of text and reference books by the WG and concluded that capturing actual field experience would have to be the central element of our comparative advantage. The WG agreed that it would proceed to develop the Yogyakarta workshop as a base for other activities, while Mr Ehsani would prepare a concept paper for this workshop elaborating concepts on the basis of which a broader water productivity theme might be considered.

Item 8 : Any other business

Since there was no other business on hand, the meeting ended with vote of thanks to the Acting Chairman.

APPENDIX XXVIII [PCTA Item 4.4.3]

Minutes of the Twelfth Meeting of the
WORKING GROUP ON ON-FARM IRRIGATION SYSTEMS (WG-ON-FARM)
8 December 2009: 09.30-13.15 hours
New Delhi, India

Strategy Theme: On-Farm

Year of Establishment: 1998 **Completion of the Mandate: 2014**

Mandate:

- To promote on-farm irrigation as part of integrated water resources management, and
- To promote sustainable efficient approaches for on-farm irrigation.

Members Present: (1) Vice President Hon. Felix B. Reinders, Chairman, 2004 (South Africa, 1998); (2) Vice President Prof. Peter Kovalenko, Vice Chairman, 2005 (Ukraine, 2001); (3) Vice President Hon. F. Ligetvari (Hungary, 1998) represented by Dr. Sándor Szalai; (4) Dr. H. Sourell (Germany, 1999); (5) Mr. Yeh Shu-Shr (Chinese Taipei, 1999) represented by Mr. Hsao-Wen Wang; (6) Vice President Hon. J.A. Ortiz Fdz.- Urrutia (Spain, 2003); (7) Mr. Graziano Ghinassi (Italy, 2004); (8) Prof. Y. Nakano (Japan, 2004) represented by Mr. Makoto Yokozana; (9) Dr. A.K. Randev (India, 2005); (10) Mr. Hassan Shantia (Iran, 2006) represented by Mr. Enayatollah Farahani; (11) Dr. Mohan Reddy Junna (USA, 2007); (12) Er. M. Gopalakrishnan, Secretary General represented by Dr. S.A. Kulkarni, Executive Secretary, ICID Central Office.

Apology: (i) VPH F. Ligetvari (Hungary, 1998); (ii) Dr. Abraham Mehari Haile (The Netherlands, 2008); and (iii) Mr. Brunno Molle (ISO).

Member Honoraire Present: VPH Frank E. Dimick (USA)

Observers: (i) Prof. Mohd Amin Mohd Soom (Malaysia); (ii) Dr. Mohammud Che Husain (Malaysia); (iii) Mr. Ghorban Ghorbani (India); (iv) Dr. Chellasamy Murugaboopatih (Japan); (v) Dr. Joachim Quast (Germany); (vi) Dr. Aboutalab Hezarjaribi (Iran); (vii) Mr. Abdoulaye Dembele (Mali), (viii) Mr. Francois Chretien (Canada); (ix) Mr. Narmadeshwar Jha (India); (x) Mr. Jagjit Singh Sodhi (India); (xi) Mrs. Zeinab Behairy (Egypt); (xii) Mr. Mushtaq Ahmad Gill (Pakistan); (xiii) Prof. Dr. Rai Niaz Ahmad (Pakistan); (xiv) Mrs. Mira Edelbaher (Slovenia); (xv) Mr. Alghamdia (Saudi Arabia); (xvi) Mr. Shalhoub Faisal (Saudi Arabia); (xvii) Dr. Adama Sangare (Mali).

Webpage: http://www.wg-on-farm.icidonline.org/

Item 1 : Confirmation of the minutes of the 11th meeting of the Working Group held at Lahore

The minutes of the 11th meeting of the Group held at Lahore in October 2008 was approved.

Item 2 : Tenure and review of membership of the Working Group

2.1 Tenure of the Working Group

The WG's following mandate and the proposal to extend its tenure up to 2014 was accepted by the 59th IEC held at Lahore in October 2008.

The new mandate is shown as above.

2.2 Membership

The new nominations for the WG membership have been approved:

- Mr. Makoto Yokozawa (Japan) in place of Prof. Dr. Yoshisuke Nakano
- Prof. Dr. Rai Niaz Ahmed (Pakistan)
- Mrs. Mira Edelbaher (Slovenian)

CVs of the above nominees have been tabled at the meeting.

The Kazakhstan National Committee (KAZCID) had nominated Mr. Tauipbaev Sultanbek Tauipbaevich in 2007. However, as Mr. Tauipbaevich did not attend the Sacramento, Lahore and India meetings, his nomination was deferred by the Group. As advised by the Group at the Lahore meeting, the Central Office had written to KAZCID to either re-nominate Mr. Tauipbaevich or send a fresh nomination for the membership. The Central Office is asked to follow up with the KAZCID.

Mr. M.S. Bala (Nigeria) and Prof. Pedro Liao de Sousa (Portugal) have not attended the meetings of the Group since last three years i.e. 2006, 2007 and 2008. According to ICID by-law 3.1.7, the Central Office has written to the National Committees of Nigeria and Portugal to send fresh nominations (to replace them) for the membership. As there was no response from either NINCID or PNCID, the WG suggested
terminating their membership.

Since Mr. Stephen Mills, Secretary resigned from the membership of the Working Group, the Chairman asked for nominations. Two nominations were received and Dr. A.K. Randev was elected as the new Secretary of the Working Group.

A. CONTINUING ITEMS

Item 3 : To review the progress in preparation of documents

3.1 Paper on "Improvement of the On-farm Irrigation Systems Using Simple Water Control, Measuring and Application Devices"

Mr. Stephen Mills (ANCID/ IAL) provided an excellent note on "Irrigation Modernization in Australia". The Central Office is asked to circulate the note amongst the members. Mr. Mills was thanked for his contribution.

3.2 A Paper on "Micro irrigation for Smallholders and Greenhouses"

The final version of the paper "Micro irrigation for smallholders and greenhouses" as prepared by Prof. Y. Nakano (Japan) was tabled at the Lahore meeting in 2008. The Group had suggested that the paper may be published by ICID after its final review. Mr. Felix Reinders, Chairman volunteered to assist the review process.

Item 4 : Liaison with the ISO/TC23/SC18

Central Office has circulated various ISO/TC23/SC18 documents among WG members as and when received from its Secretariat. A joint ISO/CEN/ICID Hand Book on "Irrigation Equipment Standards" was under preparation for quite some time. As Mr. Bruno Molle (France) was not present at the meeting, the progress could not be reported.

The 27th meeting of the ISO/TC23/SC18 was held in November 2008 at Anaheim, California, USA. The Secretariat of ISO/.TC 23/SC18 had informed that the 28th meeting of SC18 was held during 26-31 October 2009 at Mexico.

The Central Office had informed WG members about the passing away of Mr. Silberstein, the founder Chairman of ISO/TC 23/SC18 and Mr. Allen Dedrick, one of the leading members of the SC18; and had conveyed condolence messages to the SC18 Secretariat on WG/ICID's behalf.

Item 5 : Survey of World-wide Usage of Micro and Sprinkler Irrigation

5.1 Datasheet on Sprinkler and Micro Irrigated Areas in ICID Member Countries

Central Office has been compiling data related to sprinkler and micro irrigated areas in ICID member countries since 2002. As per the latest statistical information worldwide about 32 million ha are under sprinkler irrigation and about 8 million ha are under micro irrigation. The latest data sheet of the micro and sprinkler irrigated areas in ICID member countries was circulated at the meeting. The Group suggested to include an item on the sources of energy and energy consumption levels in the data sheet.

The WG thanked to all those National Committees for providing the data updates and requested to continue sending latest data as and when available, for the benefit of all.

5.2 Survey of 'World-wide Usage of Sprinkler and Micro irrigation'

A revised and abridged version of the questionnaire "Survey of world-wide usage of sprinkler and micro irrigation" was prepared by the Central Office. This version was approved by the Group at the Sacramento meeting. The questionnaire contains information related to major crops irrigated, water saving achieved, area under greenhouses, use of fertilizers, use of poor quality waters, subsidies provided by government, cost of installation, energy requirement, besides the area coverage under sprinkler and micro irrigation. So far, National Committees of Finland (FINCID), Germany (GECID), Hungary (HUCID), Iran (IRNCID), Israel (ISCID), Italy (ITAL-ICID), Spain (CERYD) and China (CNCID) have provided the filled-in questionnaire either partly or fully.

As this activity is not taking further momentum, the Chairman urged all members' input and assistance in finalizing/ revising the questionnaire, so as to make it more 'user friendly'. The request was also to get statistics on low pressure irrigation and energy requirements. The meeting requested Mr. Enayatollah Farahani from Iran to prepare a presentation for the next meeting in Indonesia on low pressure irrigation systems. All members will be requested to prepare success stories on irrigation and to present that at the next meeting in Indonesia

Item 6 : Webpage of the Workbody

The Working Group's webpage http://www.wg-on-farm.icidonline.org/ has been updated and is fully functional. The Chairman had requested all members to visit the webpage and provide additional information (books, manuals, technical papers, proceedings of the national workshops, interesting pictures, new software, useful links etc.). Members were encouraged to provide their contribution to the Chairman/ Central Office for posting on the webpage.

Item 7 : 8th International Micro irrigation Congress (8IMIC), Tehran, 2011

The 59th IEC, upon recommendation of the PCTA approved the hosting of 8th International Micro Irrigation Congress (IMIC) by IRNCID along with the 21st Congress scheduled to be held at Tehran, Iran from 15-23 October 2011.

The Iranian National Committee (IRNCID) representative made a presentation as regards the objectives, sub-themes and the planning of the Congress. The objectives and sub-themes of the 8th IMIC are as follows:

Objectives

- To share experiences in the use of new technologies and best management practices in drip, micro sprinkler, and other localized irrigation systems.
- To review the status of use of micro irrigation for smallholders;
- To understand socio-economic and technological factors impeding expansion of drip and micro-sprinkler irrigation area.

Sub-themes

The 8th International Congress on micro irrigation invites and welcomes experts, irrigation managers, researchers, government and private agencies, farmers, technicians and students to contribute with their knowledge and experiences, by submitting papers on the following topics:

- Best management practices/ success stories of micro irrigation adoption;

- Lessons learnt from failures in upscaling micro irrigation
- Developments in subsurface micro-irrigation;
- Low cost and low energy consuming irrigation systems;
- Automation in micro irrigation;
- Micro irrigation in greenhouses;
- Micro-irrigation for small scale farms;
- Use of low quality waters in micro-irrigation;
- Modelling, design and decision support system in micro-irrigation;
- Advances in operation and cost effective maintenance of micro-irrigation systems;
- Management and cost of micro-irrigation for large farms;
- Efficiency and productivity in micro irrigation systems;
- Socio-economic consequences of the conversion of traditional systems to micro irrigation systems;
- Analysis of long term sustainability of micro irrigation systems;
- Technical performance and quality assessment of micro-irrigation systems; and
- LCA (Life Cycle Analysis) applied to micro irrigation

Item 8 : Work plan of the Group

The work plan of the Group was discussed and proposed up to 2011. The key activities will be as follows:

- Draft paper on “Improvement of the On-farm Irrigation Systems Using Simple Water Control, Measurement and Application Devices” was developed by Steven Mills from Australia and released at the New Delhi meeting.
- Paper on “Micro Irrigation for Smallholders and Greenhouses” will be reviewed and ready for publication by early 2010.
- A abridged questionnaire on “Survey of World-wide Usage of Sprinkler and Micro Irrigation” to be finalized and ready for circulation to NCs by early 2010.
- Datasheet on “Sprinkler and Micro Irrigated Areas in ICID member Countries” to be updated on a regular basis.
- Information for webpage of the work body to be updated based on the input received from members and national committees on a regular basis.
- 8th International Micro irrigation Congress (IMIC) to be organized by the Iranian National Committee
- (IRNCID) in 2011.
- Paper on “Field Water Management and Soil water Conservation under Spate Irrigation” will be prepared by Dr. Abraham Mehari Haile (The Netherlands) by 2010. An initial draft version has been prepared by Dr. Haile.
- Translating of Manual “Performance Evaluation of Sprinkler and Drip Irrigation Systems” in the Persian language will be done by the IRNCID for publication in 2011.

The Group will update/ add the activities to the work plan from time to time.

Item 9 : Special Session on Micro irrigation

A half-day Special Session on ‘Micro Irrigation’ would be held in the afternoon of the 8 December 2009 in New Delhi.

The main objective of the special session is to highlight the recent developments in micro irrigation in major irrigation countries, particularly in India and to share and learn from each other’s experiences for sustainable expansion of the technology.

The programme of the special session is shown as **Annex.**

Item 10 : Upgrading/ modernization of surface irrigation systems

Prof. Mohan Reddy Junna (USA) took up the challenge to prepare a comprehensive book on "Soil and Water Management in Surface Irrigation Systems". Modernization could be one of the components of the book. It was proposed to prepare the draft chapters/ papers for the book by 2010. Representatives from USCID and ANCID/IAL already had volunteered in Sacramento to supply some information on upgrading/ modernization of surface irrigation systems which may be considered for inclusion in the proposed book.

An article "Modernizing surface irrigation systems in USA" written by Dr. James E. Ayars has been brought out in the ICID Newsletter 2009/3. Prof Junna suggested that he was prepared to visit several countries on his own cost but would need logistical support from the Central Office and the concerned member countries.

Item 11 : Nomination of WG for the 3rd Best Performing Workbody Award (BPWA)

The Group suggested submitting its candidature for the 3rd BPWA to be given at the time of the 21st Congress scheduled to be held in Tehran, Iran in 2011 and requested the Chairman to initiate the necessary preparatory actions towards nomination.

Item 12 : Any other business

A very interesting presentation on 'Subsurface Irrigation Dam' in Southern part of Japan was made by Mr Makoto Yokozawa.

Annex [Appendix XXVIII, Item 9]

60TH INTERNATIONAL EXECUTIVE MEETING AND 5TH ASIAN REGIONAL CONFERENCE

WORKING GROUP ON ON-FARM IRRIGATION SYSTEMS
SPECIAL SESSION ON MICRO IRRIGATION
New Delhi, 8 December 2009, 14.15- 18.00 Hrs

Schedule

Chairman :	VPH Felix Reinders, Agricultural Research Council, South Africa
Coordinator:	Dr. T.B.S. Rajput, Project Director, Water Technology Centre, IARI, New Delhi, India
Co-Coordinator:	Dr. S.A. Kulkarni, Executive Secretary, ICID, New Delhi
Co-Chairman:	Dr. P. Soman, Vice President, Jain Irrigation Systems Ltd., Jalgaon, Maharashtra, India
Rapporteur:	Dr. (Ms) Neelam Patel, Senior Scientist, Water Technology Centre, IARI, New Delhi

Welcome of Chair and Co-Chair	Coordinator
Opening remarks	Co-chairman and Chairman
Global overview of micro irrigation	Mr. Felix Reinders, South Africa
Management of water scarcity through micro irrigation	Mr. Graziano Ghinassi, Italy
Scope and prospects of micro irrigation	Dr. Heinz Sourell, Germany
Water savings by growing rice under mechanized irrigation-Recent results, advances and perspectives	Dr. Germani Concenco, Brazil, Valmont Irrigation
Tea break	
Irrigation efficiency enhancement in horticulture: Government policies on micro irrigation & plans for future	Mr. Krish Iyanger, India
Success story of micro irrigation in the State of Gujarat	Mr. Shyamal Tikadar, India
Success story of micro irrigation in the State of Andhra Pradesh	Dr. K. Yella Reddy, India
Concluding remarks	Co-Chairman, and Chairman
Vote of thanks	Co-Coordinator

APPENDIX XXIX [PCTA Item 4.2.3]

Minutes of the Twenty-Seventh Meeting of the
WORKING GROUP ON DRAINAGE (WG-DRG)
8 December 2009: 14.15-18.00 hours
New Delhi, India

Strategy Theme: Systems

Date of Establishment: 1983 **Completion of the Mandate: 2013**

Mandate:

- To promote drainage as part of integrated water resources management; and
- To promote sustainable approaches for drainage and related projects through a balanced integration of (1) environmental, (2) economic, and (3) social and cultural aspects.

Members present: (1) Dr. W.F. Vlotman, Chairman, 2001 (Australia, 2000); (2) Mr. Bernard Vincent, Secretary (France, 2007); (3) Vice President Hon. Prof. B. Maticic (Slovenia, 1987) represented by Dr. Marina Pintar; (4) President Hon. Ir. Keizrul bin Abdullah (Malaysia, 1994) represented Dr. Nor Azazi Zakaria; (5) Dr. Mohammad Bybordi (Iran, 2000) represented by Mr. Azim Ashayeri; (6) Mr. Rauno Peltomaa (Finland, 2002) represented by Ms. Helena Âijö; (7) Vice President Dr. Shinsuke Ota (Japan, 2006); and (8) Dr. Yurii Yanko (Russia, 2006).

Permanent Observer: President Hon. Bart Schultz (The Netherlands).

Observers: (i) Dr. Irena Bondarik (Russia); (ii) Dr. Mati Tonismae (Estonia); (iii) Mr. M.S. Thakur (India); (iv) Mr. Navneet Kalia (India); (v) Mr. Tetsuya Oishi (Japan); (vi) Mr. Piyush Ranjan (India); (vii) Mr. Jabbar Aziz Beigi (Iran); (viii) Mr. Kunihiko Naito (Japan); (ix) Mr. Akira Nakazawa (japan); and (x) Mr. Francois Chretien (Canada).

Webpage: http://www.wg-drg.icidonline.org/

A. GENERAL BUSINESS

Item 1 : Confirmation of the minutes of the 26th meeting of the Working Group held at Lahore

The minutes of the 26th meeting of the Working Group on Drainage in Lahore were confirmed, with one amendment that Mr. Bernard Vincent (France) had conveyed his apology for not able to attend the Lahore meeting.

Item 2 : To review membership of the Working Group

National Committees of Iraq (IRAQCID) and Kazakhstan (KAZCID) had nominated Mr. Ahmed Mohammad Aziz and Dr. Anzeim Carl Albertovitch, respectively for the membership of the WG. Though the National of Iraq (IRQCID) and Kazakhstan (KAZCID) were advised of the non-attendance of their respective delegates since the last two meetings and considering these delegates were not present this year too, their nominations for the membership of the WG was terminated.

B. WORK PLAN

Item 3 : Future activities of the Working Group

To fulfil the new mandate, the WG had proposed to reorganize its activities in 6 subtopics. A brief on these activities is as follows:

3.1 Disposal of salts and silts: Following the suggestion of the Iranian National Committee (IRNCID), the title of this subtopic has changed to “Technologies for reducing polluted drainage water and quality improvement”.

Member in Charge (MIC) - Dr. J. Ayars (Chairman to contact Dr. Ayars and Mr. Azim Ashayeri (ashayeri@mahabghodss.com) and invite their contributions).

3.2 Impact of climate change on drainage: Based on their recent experiences in Maghreb and Australia a presentation will be prepared for the next annual workshop/ meeting of the group to be held in Indonesia in 2010. *MIC*: Mr. B. Vincent and the Chairman.

3.3 Societal perception of drainage: Based on their recent advance in France a presentation will be prepared for the next annual workshop/ meeting of the group to be held in Indonesia. *MIC*: B. Vincent

3.4 Role of drainage in food security.

3.5 Changes in land use, production and landscapes due to drainage.

3.6 Financial and socio-economic aspects of land drainage projects.

The Group proposed to cancel Items 3.4, 3.5, 3.6 due to lack of human resources to work on these subtopics.

The document issued by President Hon. Bart Schultz on the 'Drainage and Irrigation Database' was presented and discussed at the meeting. The intention was to have a table on 'Drained area in the world' in the ICID Annual Report by updating the prevailing/ original data. For this purpose, the WG proposed to identify regional correspondents who will be charged to retrieve information. Data will be centralised and former ICID database will be updated. *MIC*. B. Vincent.

Item 4 : Workshops/ Special Sessions sponsored by the Working Group

4.1 11th International Drainage Workshop

The series of International Drainage Workshops (IDWs) organized by the Group are events of global significance. The Group would like to continue organizing the IDW on regular basis. The 10th IDW held at Helsinki/ Tallin in July 2008 was a great success.

At the 59th IEC meeting held at Lahore, the Egyptian National Committee (ENCID) offered to host the 11th International Drainage Workshop along with the 53rd IEC in 2012, if approved by the IEC at its New Delhi meeting. At the time of the 60th IEC meeting, the Russian National Committee (RUCID) has also proposed to organize 11th IDW in St Petersburg in September 2012 with the focus on 'Climate and Drainage'.

Both committees will be invited to forward formal proposals for consideration at the next meeting of the WG to be held in Indonesia. The final decision will be taken by the IEC upon recommendation of the WG-DRG. Since there was no Egyptian representative present at the meeting, the Chairman will contact ENCID to inform the WG's decision.

4.2 Annual Internal Workshop of the Group

Since the recent past, the Group has been organizing internal workshops on the sidelines of its annual meetings. In these workshops, members voluntarily make presentations on the topic of their countries' interests.

For this meeting, the Indian National Committee (INCID) in consultation with Dr. W.F. Vlotman, Chairman has scheduled a half-day (09.30-13.15 hours) Special Session on Drainage on 8 December 2009. The special session was chaired by Dr. Vlotman and coordinated by Dr. Gurbachan Singh (India).

All members attended massively to the special session and Chairman made a presentation. There were several papers related to bio-drainage which induced some debate. President Schultz reminded the group that the bio-drainage technique is not without danger. It was suggested to invite observations/ comments on the topic of bio-drainage from amongst the group members. Considering the experience of Iran in the domain of bio-saline agriculture it was observed that both techniques (bio-drainage and bio-saline agriculture) are similar. The Iranian National Committee (IRNCID) will be approached if a common action (question, workshop) can be undertaken on the theme bioprocesses in irrigation and drainage that might also open the door to other domains like mitigation techniques. *MIC*: B. Vincent

Item 5 : Publications sponsored / related to the working group

At Sacramento, Dr. Martinez-Beltran, FAO representative had informed that the FAO was in the process of bringing out a publication on "Evaluation of the performance of subsurface drainage systems". As Dr. Beltran or FAO representative was not available at the Lahore meeting, there was no report on its development.

Central Office had contacted Dr. Beltran to know the updates. In response, Dr. Beltran has informed that the publication would be ready by the end of September 2009. However, recently as Dr. Beltran/ FAO informed the Group of his retirement from FAO and return to Spain, the group proposed to cancel this item from its agenda.

Item 6 : Contribution to the website DRAINLINE

Chairman expressed that due to his new occupation/ engagement will not be able to allocate time in contributing to the website and proposed that in future, the website will be maintained and operated by the Central Office.

Item 7 : Preparation towards submission for the ICID's 'Best Performing Award'

In spite of Chairman's efforts to motivate the Group, no interest was shown and the item was therefore cancelled

Item 8 : Other business

8.1 9th International Drainage Symposium, 13-16 June 2010, Quebec City, Canada

The 9th International Drainage Symposium will be held from 13-16 June 2010 in conjunction with the 17th World Congress of the International Commission of Agricultural Engineering (CIGR) at Quebec City, Canada. The symposium will be organized by the American Society of Agricultural and Biological Engineers (ASABE).

Dr. Ali Madani, Chairperson of the Conference Organizing Committee has requested President Dr. Chandra Madramooto to disseminate the information among ICID fraternity. President vide his e-mail of 1 July 2009, sent the "call for papers" to Central Office for posting on ICID website as well as widely publicizing through News Update and Newsletter. Subsequently, Dr. Vlotman, Chairman circulated the "call for papers" among WG members. The "call for papers" and other details about the symposium are available at www.cigr2010.ca

The French National Committee (AFEID) had submitted 3 papers which were already accepted.

8.2 Research Briefings on "Salinity and waterlogging in the Indus Basin of Pakistan

A write-up on "Salinity and waterlogging in the Indus basin of Pakistan: Economic loss to agricultural economy" authored by Zaman, S.B. and S. Ahmed and published in the 'Research Briefing' in volume (1), no. 4 of the Natural Resources Division, Pakistan Agricultural Research Council, Islamabad was received by the Central Office. Since the research note is of interest to WG activities, it was circulated among all members.

Since there were no observations/ comments on this activity, the group proposed to cancel this item from the agenda.

C. LIAISON AND LINKAGE WITH OTHER WORKBODIES

Item 9 : Liaison with workbodies

The Group had nominated its member to act as a permanent correspondent for the ICID WGs as follows:

- WG-ENV (Theme: Basin) – Dr. Chandra Madramootoo
- WG-SDTA (Theme: Basin) – Dr. Park Sang Hyun
- WG-PQW (Theme: On-farm) – Dr. Evan Christen
- WG-ON-FARM (Theme: On-farm) – Dr. James Ayars
- ASRWG (Regional Working Group) – Dr. Shinsuke Ota
- ERWG (Regional Working Groups) – Dr. (Mrs.) Irena Bondarik

Due to lack of feedback on this activity, the group proposed to discard this item from the agenda.

D. PRESENTATIONS/WORKSHOP/SUMMARY

Item 10 : Presentations from members/ member countries

As there would be a separate session on “Integrated Approach in Agricultural Drainage” of the 5th Asian Regional Conference, and also a ‘Special Session on Drainage’ organized by Indian National Committee (INCID), the Chairman suggested to defer this item for this meeting.

The Russian delegate Eng Yurii Yanko made a presentation on “Subsurface drainage status in Leningrad region" at the meeting.

Item 11 : General discussion and summary of the meeting

The Chairman concluded the meeting by recapitulating key decisions/ outcome.

APPENDIX XXX [PCTA Item 4.4.2]

Minutes of the Fourteenth Meeting of the
WORKING GROUP ON USE OF POOR QUALITY WATER FOR IRRIGATION (WG-PQW)
8 December 2009: 14.15-18.00 hours
New Delhi, India

Strategy Theme: On-Farm

Year of Establishment: 1995 **Completion of the Mandate: 2013**

Mandate: To promote a safe and good management of poor quality water for irrigation, to minimize the negative impact on human health and the environment, to promote the multiple use of poor quality water, and to give consideration to the Institutional and legislation aspects with regard to the use of poor quality waters.

Members present: (1) Dr. Ragab Ragab, Chairman (UK, 1997); (2) Dr. Frans Huibers, Secretary (The Netherlands, 1999); (3) Dr. Heinrich M du Plessis (South Africa, 1998) represented by Dr. Sue Walkers; (4) Dr. N.K. Tyagi (India, 1998); (5) Vice President Hon. Gao Zhanyi (China, 1998); and (6) Dr. S. Seyama (Japan, 2001) represented by Dr. M. Yokozawa (Japan, 2009);

Permanent Observer: None.

Observers: (i) Mr. V.D. Roy (India); (ii) C.H. Sreenivas (India); (iii) Mr. Francois Chrétien (Canada); (iv) Mr. Chellasamy Murugaboopathi (Japan); and (v) Mr. Maurice Roos (USA).

Website: http://www.wg-pqw.icidonline.org/

Item 1 : Confirmation of the minutes of the 13th meeting of the Working Group held at Lahore

The minutes of the 13th meeting of the Working Group held at Lahore in October 2008 were approved.

Item 2 : Tenure and mandate of the Working Group

Tenure of the Working Group has been extended until 2013.

Mandate of the Group is kept as approved at the Lahore meetings (2008). The sentence *"to promote the multiple use of poor quality waters"* was explained, meaning that the water can be used simultaneously or subsequently for different uses, like aquaculture and irrigation.

Item 3 : Review of the membership of the Working Group

The CV of Mr. M. Yokozawa (Japan) was tabled and his nomination to replace Dr. S. Seyama was accepted by the Group.

The following nominations were deferred to the meeting in 2010 as candidates were not present at the meeting:

- Dr. Jinzhong Yang to replace Dr. Gao Zhanyi (China)
- Mr. Bekbayev Ussen (Kazakhstan)
- Dr. Paramjit Singh Minhas to replace Dr. N.K. Tyagi (India)
- Mr. M. Sidhu to replace Mr. Maghmoom Muhammad Iqbal/ Mr. Ramzan Chaudhry (Pakistan)

The South African National Committee (SANCID) would propose a candidate to replace Dr. Heinrich M. du Plessis in 2010.

A. CONTINUING ITEMS

Item 4 : Database on water salinity/irrigation with highly saline water for salt tolerant halophytes and crops and use of wastewater related to agriculture

Dr. Frans Huibers gave information on the IWA publication Water Reuse: An International Survey of Current Practice, Issues and Needs. B. Jimenez and T. Asano (Eds.) 2008. IWA Publishing, London, U.K. Scientific and Technical Report No. 20. The first Chapter of the book gives an extensive overview of wastewater use worldwide, based on a literature study. The book is not downloadable.

Item 5 : Cooperation with other Workbodies and International Organizations

5.1 Cooperation with ICID workbodies

Chairman Dr. Ragab has actively been liaising with other ICID workbodies and participating in their meetings. This is to stimulate collaboration and to avoid overlapping of activities. Recently he contributed with a Chapter in a book compiled by the WG-DROUGHT.

Dr. Ragab also participated in the meeting of WG-CLIMATE. On the thematic issue 'Food security and water', where he reported his work on non-conventional water sources.

5.2 Cooperation with International Organizations

- A session on 'Safe water reuse' convened by the World Water Institute (Pune, India) during the World Water Forum held in Istanbul (17 March, 2009) was attended by Dr. Huibers, representing ICID in the panel. Key questions were defined as follows:

  - How can we regulate the use of unsafe water for food production?
  - How can standards for safe re-use of water be implemented, monitored and institutionalized?
  - What supporting policy instruments will be required for ensuring safe re-use of water?

  Presentations by the World Water Institute, IUCN, Sussex University and Suez Environment were followed by a panel discussion with representatives from WECF, ICID and Hebrew University.

- ISO (International Organization for Standardization) starts reviewing standards for safe wastewater use. The WG is available to contribute to this process.

- The WG is having positions of permanent observer from FAO and ICBA (Dubai). However, recently they have not participated to the WG-meetings. Dr. Ragab will contact the respective observers.

Item 6 : Work Plan of the Group

In line with the activities proposed in the WG work plan, the following presentations (in written and as presentation) are foreseen for the next year meeting:

- 'Multiple use of poor quality water' by Dr. Gao Zhanyi
- 'Agrochemicals' by Dr. M. Yokozawa and Mr. Francois Chrétien
- 'Use of drainage water in India'

Item 7 : Presentations by members

Dr. Huibers gave a Power Point Presentation on the '*Use of wastewater in irrigation*'. This updated the work done since the Special Session organised in Moscow (2004) and the evolving Special Issue of Irrigation and Drainage (2005). As a token of interest in the general subject of wastewater use in the irrigation community, he mentioned the fact that 6 articles from the Special Issue show up in the top-10 most accessed articles of Irrigation and Drainage over the period 2005-2007. Over this same period 7 articles from this Special Issue are in the top-10 most cited.

Dr. Ragab gave a presentation on SALTMED and a demo. The programme is continuously improved and can be used with different inputs. A free copy can be downloaded through the WG webpage, www.safir4eu.org

Item 8 : Webpage for the workbody

Members were asked to contribute to further improve and update the contents of the Group's page. Presentation by Dr. Huibers and some of his recent publications will be uploaded soon.

Item 9 : Workshop on Desalination Technologies for Irrigation Purposes

As questions were posed on issues like cost-recovery in using desalinated water, the group decided to postpone this workshop until further notice.

Item 10 : Nomination of the Group for the Best Workbody Award

Chairman will consider nomination, given earlier successes by the WG.

Item 11 : Any other business

Several members were in favour of organizing a Special Session during the Teheran meetings in 2011. Proposed subject would be 'Water Quality and Irrigation'. Remark has been made that an approach of solicited presenters on well defined subjects would increase the quality and coherence of the session, also to be combined with the preparation of a Special Issue of Irrigation and Drainage or other journal. Following ICID procedure, room should also be given to other country representatives to present orally or through poster.

The Central Office had requested the WG to contribute to the UN Water decade programme, probably on the subject of Water and Sewage treatment. The WG is open for further information.

APPENDIX XXXI [IEC Item 11]

Minutes of the Thirtieth Meeting of the
PERMANENT FINANCE COMMITTEE (PFC)
New Delhi, India
7 December 2009 : 14.15 – 18.00 hours

Members Present: (1) VPH Dr. Saeed Nairizi, Chairman (Iran, 2006); (2) Dr. James Ayars, Secretary (USA, 2007) represented by Mr. Larry D. Stephens; (3) Dr. K. Palanisami (India) represented by Mr. A.K. Bajaj; (4) VPH Dr. Gao Zhanyi (China, 2007); (5) Prof. Dr. Kinji Ohashi (Japan, 2004) represented by Mr. Akira Nakazawa; (6) Dr. Laszlo G. Hayde (Hungary, 2004); and (7) Er. M. Gopalakrishnan, Secretary General, ICID.

Observers Present: (i) President Prof. Dr. Chandra A. Madramootoo (Canada); (ii) PH Peter S. Lee (UK); (iii) Mr. Tetsuya Oishi (Japan); (iv) Mr. Syaiful Mahdi (Indonesia); (v) Mr. Bert Toussaint (The Netherlands); (vi) VPH Frank Dimick (USA); (vii) VPH Mark Svendsen (USA); (viii) Mr. Kunihiko Naito (Japan); (ix) Dr. Sudhir Bhongle (India), and (x) Mr. K.N. Sharma, Secretary, ICID (Central Office).

Item 1 : Confirmation of the minutes of 29th Meeting of Permanent Finance Committee held at Lahore, Pakistan, on 13 October 2008

The minutes of the 29th Meeting of the Permanent Finance Committee were confirmed.

Item 2 : To review membership of the Committee

Mr. A.K. Bajaj (India) was nominated by the Indian National Committee. Mr. Bajaj's nomination was accepted.

Mr. Akira Nakazawa, Japan, was nominated by JNC-ICID. Mr. Nakazawa's nomination was accepted.

Dr. Laszlo G. Hayde was nominated to be the Vice Chairman of the PFC. His nomination was supported.

Item 3 : To consider the position of arrears of annual subscription and consequential remedial action

3.1 Arrears

SG Gopalakrishnan reported that 24 active countries were in arrears; 17 countries of more than one year, 6 countries of more than 2 years. In addition, four countries will be deemed to be inactive on 1 January 2010, if they do not clear their arrears by the year end.

President Madramootoo noted with thanks that USCID had cleared their subscription. He further noted that he recently visited Morocco and urged Central Office to follow up with VPH Ait Kadi, Morocco, to encourage his support to the Moroccan NC to clear their arrears and again become active in ICID.

It was agreed that the four countries in arrears for more than three years will be given one additional year to clear their arrears.

Item 4 : Action emerging out of ICID Internal Review- PFC

The share ICID receives from Congresses, IEC Meetings, and other Regional Conferences and Workshops was discussed. It was noted that the ICID will receive 50 percent share for Congresses and 15 percent share for IEC Meetings.

PFC recommends to IEC that a minimum of 5 percent of the registration fee be paid to ICID for all ICID sanctioned Regional Conferences, Workshops and Specialty Conferences.

Chairman Nairizi reviewed the proposal that private memberships in ICID be offered. PH Peter Lee suggested that such memberships be of non-voting corporate members.

It was recommended that an Ad Hoc Committee be named to develop a proposal for corporate membership.

Item 5 : To review progress on financial and administrative arrangements for forthcoming ICID Conferences

(i) 61st IEC Meeting and 6th Asian Regional Conference, Yogyakarta, Indonesia, October 2010

(ii) 62nd IEC Meeting and 21st Congress, Tehran, Iran, October 2011

(iii) 4th (now re-designated as 3rd) African Regional Conference, Mali, 2011

(iv) 24th (now re-designated as 25th) European Regional Conference, The Netherlands, May 2011

(i) 61st IEC Meeting and 6th Asian Regional Conference, Yogyakarta, Indonesia, October 2010

The registration fees for the Yogyakarta IEC Meeting were discussed, and the Indonesian representative agreed that the registration fees proposed during the Lahore IEC Meeting will be unchanged. He further reviewed plans for the IEC Meeting and Regional Conference.

(ii) 62nd IEC Meeting and 21st Congress, Tehran, Iran, October 2011

The representative of the Iranian National Committee briefly reviewed the registration fees and plans for the 62nd IEC Meeting and 21st Congress, including visas.

(iii) 3rd African Regional Conference, Mali, 2011

No representative of Mali attended the meeting.

(iv) 25th European Regional Conference, The Netherlands, May 2011

The representative of the National Committee of The Netherlands outlined plans for the 25th European Regional Conference.

Item 6 : To discuss and recommend to IEC the audited accounts for the year 2008-09

6.1 Auditor's Report

SG Gopalakrishnan presented a summary of the audited accounts showing revenue and expenses. It was noted and accepted.

6.2 Foreign Currency Accounts

The Committee took note of the circumstances under which the fund stood transferred to HSBC London in nineties and the current situation that sees a strong Rupee. The Committee recommends to IEC that 50% of the US$ funds in the HSBC Bank in London be transferred to the Canara Bank in New Delhi, given the advantages brought out by such an action. The foreign currency account in Indian banks fetch a better interest yield.

6.3 Staff Provident Fund

The Fund is audited by the Auditors. The transfers were noted.

6.4 A comparison of budgeted estimates and actual expenditure for the year 2008-09

At the instance of PFC Chair, SG Gopalakrishnan presented the budgeted income and expenditures for the year 2008-09. It was explained that there was a surplus of Rs. 5.93M accruing mainly due to the deferred payment of share of rent to the Govt. of India and other saving measures in the CO.

6.5 Non Transferable Fund Accounts

The non transferable accounts of the Gratuity Fund, the Superannuation Fund and the Dictionary Fund were noted as also the usual sums for the gratuity and superannuation funds as transferred.

Item 7 : Forecast for the current financial year 2009-10

PFC Chair asked SG to explain forecast of receipts and payments as indicated and SG Gopalakrishnan handled this with a power point presentation (**Annex**).

On the Receipts (Annex 1 A of Agenda) side, the anticipated receipts of Rs. 22.17M from subscription, conference support, publications receipts, grants, and rent receipts were noted.

On the Payments side, the likely expenditure of Rs. 26.68 M towards salary and allowances, services and maintenance, printing and distribution, including Journal and special publications, travel / meeting, grants, internal transfer for gratuity and superannuation was noted.

Item 8 : To consider and recommend to IEC the budget for the financial year 2010-11

The forecast of receipts and payments was taken up and the PP slides were used to explain the details by SG Gopalakrishnan.

He outlined the likely Receipts of Rs. 24.55M from membership subscription, publications, conference support from 61st IEC and 6th Asian Regional Conference, Yogyakarta, Indonesia, interest and other receipts, rent from let-out portion, and grant, which were noted and accepted by the members.

The Secretary General presented the budget of likely expenditure of Rs. 28.00M towards salaries and allowances, including the one-time payment to the retiring staff. It was brought out that as per discussions in SC earlier, the CO should work with the present staff structure only. On retirement of any staff in the near future, the vacancies are not to be filled. The Committee suggested that on the payment side, the figures under the head 'salaries and allowances' may be modified not accounting for any new recruitment.

The figures of expenditure in the budget 2010-11 towards services and maintenance, printing and distribution including ICID Journal, travel (meetings), and payment to L & DO were noted by the PFC. Secretary General informed that no intimation for payment from that department has been received so far. When the amount due for payment to a Govt. of India Department (like L&DO) is large, SG explained that there can be a case for the payment in installments. As such, a part sum of Rs.4 M is allocated for payment to L&DO during the Financial Year 2010-11. The Internal transfers for gratuity and superannuation were proposed as usual.

The likely deficit of Rs.3.45 M was noted by the PFC. This also includes a one-time payment of dues to the retiring Secretary.

PFC considered the budget for 2010-11 and recommended it for approval by IEC.

Item 9 : To consider the preliminary budgets for years 2011-12 and 2012-13

SG Gopalakrishnan reviewed the preliminary budgets for the years 2011-12 and 2012-13.

He presented the figures in the preliminary budgets in respect of Receipts and Payments which were noted by the PFC and approved for recommendation to IEC.

Overall financial scenario for the period 2011-13

The Secretary General provided a glimpse of the emerging scenario of ICID's financial scenario (power point presentation in annex refers). With the help of a cumulative (mass) curve of receipts and payments for the last 15 years, he showed that there has been a cycle of deficit in two IEC years followed by the third surplus Congress year. The Congress year helped to meet the deficits of two years in between the consecutive Congresses. However, due to lesser receipts than expected from the past three Congresses continuously, this balancing cycle

has been disturbed. It is hoped that the situation would improve in the coming years, with several new measures to augment revenue receipts from annual IECs, Regional Conferences and others.

Item 10 : To note the external funding assistance received in 2009-10 and identify additional funding sources

SG Gopalakrishnan informed that no grant or external funding was received this year. It is expected that the Korean National Committee may support the publication of a document emanating from WG-SDTA in a subsequent year.

Item 11 : Any other business (with the permission of the Chair)

No other business was presented. The meeting was adjourned at 17:50 hours.

Annex [Appendix XXXI, Item 7]

Permanent Finance Committee (PFC)

Report to the
60th International Executive Council
New Delhi
December 2009

Items to be considered in a nutshell

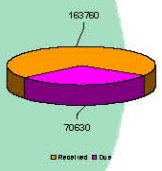
- Membership review
- Subscription arrears - assessing the status
- Arrangements for Future Congress/Conferences in relation to relevant 'financial aspects'
- Accounts
  - 2008-09 **Audited Accounts**
  - 2009-10 **Forecast**
  - 2010-11 **Budget**
  - 2011-12 and 2012-13 **Preliminary Budgets**
- Action on PFC Internal Review Report:
  - Identifying additional financial sources in the light of PFC Internal Review Committee Report (2007)

Membership of the Committee

- Membership
  - Min. 9 & max 15 members; {+ SG}
  - Presently there are 12 including SG
  - 2 members have completed tenure and are retiring
  - 1 member VPH Vidal indicated his cessation from all ICID Working Groups as he will not be an AFEID nominee
  - Remaining members 8 + SG
- No new nominations are received
  - Future bidders for 2012 are to be encouraged to join besides others
    - Mali (AfRC 2010), The Netherlands (EuRC 2011) Korea, Australia, Egypt as prospective bidders may be invited to join PFC
- Changes in country nominations for approval
  - India (A.K.Bajaj in place of K Palanisami)

Subscriptions from ICID National Committees

- From 64 active members, the annual anticipated subscription (2009) is US $ 234,390
- Receipts (till 3/09) was US$ 163,760 (70%); with US payment recd., this is 82% as against 78% realisation during the last year
- NCs have accounted for and pay the annual 3% rise, approved in 58th IEC (Sacramento)



Arrears in Subscriptions

- Subscription Arrears
  - 18 NCs due > one year; 7 NCs > 2 years (by 03/09)
    - $ 4,500 since cleared by Taipei and $ 21,132 by US
    - Current arrears stand at $ 113,747 (INR 5.12m)
  - 4 countries owing total $ 27,718 (INR 1.2 m) could fall as '*deemed to be inactive*' on 1st Jan'10
    - Kyrgyz Republic, Macedonia, Morocco and Zambia > 3 years
    - Myanmar , Sri Lanka > 2 years

Financial arrangements for future events

- Forthcoming ICID events
  - 60th IEC and 3rd African Reg. Conference, 11-17 Oct. 2009, Abuja, Nigeria
    - Nigeria withdrew its proposals in 2008, during IEC meet when new efforts started to shift IEC
  - 60th IEC and 5th Asian Regional Conference, Dec. 2009, Delhi, India
  - 61st IEC and 6th Asian Reg. Conference, 10-16 Oct. 2010, Jogyakarta, Indonesia
  - 3rd African Reg. Conference, Mali, 2011
  - 24 ERC, 2011, The Netherlands
    - However, AFEID has proposed ERC in 2010 in France to be considered by IEC.
  - 62nd IEC and 21st Congress, 2011, Iran
- Information in prescribed format received only from Iran
- Invitation for future meetings of ICID
  - Positive offers from Korea and Turkey for 2014 Congress
  - An indication of financial aspects in the format and an interest to guarantee a minimum or a fixed sum may help decision, sensitive to financial situation

Financial Arrangements for Future Meetings

- New Delhi, India 2009 IEC : a review of the actual yield
- IEC to share 15% from annual IEC related events
  - Abuja, Nigeria, 2009 IEC : meetings cancelled
  - New Delhi India (new case: agreed to provide 15%) [in addition to WatSave sponsorship of $6000]
  - Jogyakarta, Indonesia, 2010 IEC
  - Tehran, Iran, 2011, IEC and 21st Congress
- Tehran, Iran Congress and IEC
  - Registration fees ($800)
  - ICID share of fee for Congress 50% will be dependent on the number of participants' registration
- Policy for copies of Transactions more than congress registrants - cost reimbursement as per Bylaw
  - A review of the past experiences *(Beijing, Lahore)*
- Augmenting the Revenue Base by bringing into the fold all the Regional Conferences and Int'l Drainage Workshop (5% of reg. suggested by PFC)

Financial Arrangements for upcoming meetings (incl. Delhi)

Year	2009		2010		2011	
Venue	Delhi		Yogyakarta		Tehran	
Event	IEC & ARC		IEC & ARC		Congress & IEC	
	Nos.	Rate	Nos.	Rate	Nos.	Rate
Full registration*	250	$700	350	$750	400	$800
Non-member fee	10	$700	25	$800	?	$850
Young professionals (International)	25	$350	15	$375		
Young professionals (Local)	50	INR 4000	30	$200	50	$400
Local/conference rate	300	INR 8000	125	$375	600	$200
Retired Professionals	50	INR 6000	65	$375		
Sponsor nominees	150	Varying	15	$750		
Exhibitors	40	$200	-	-		
Total Registrations	875		625			
Concurrent tours	100	$55	75	$50		
Accompanying	40	$250	33	$250	?	$200

* $50 discount for early booking

Discussions on Budget

- Review and recommend for approval audited account for Year 2008-09
- Forecast for 2009-10 *(revision for approval)*
- Budget for 2010-11 *(preliminary)*
- Annual Budgets 2011-12 and 2012-13
  - preliminary estimates

All the above for consideration and recommendation for approval by IEC

Actual Audited Accounts (2008-09)

- Audited Accounts for Year Ending 31-Mar-09
  - actual exchange rate INR/USD ~45.85 (INR 45 in budget)
  - current assumption for 2009-10 is also INR 45
- Receipts INR
  - Subscription from NCs 7.08m
  - Conferences 1.69m
  - Let out property in CO (with arrears) 16.29m
  - Other items (publications, bank interest & others) 5.05m

30.11m

Actual Audited Accounts (2008-09)

- Audited Accounts for Year Ending 31-Mar-09
  - Actual exchange rate hovered around INR/USD 45.80 (while Rs 40 was assumed in the earlier budget projections)
- Receipts INR 30.11 m
- Payments INR
  - Salaries & benefits 15.17m
  - Services & maintenance 1.97m
  - Property Tax & Utilities 1.88m
  - Rehab & Refurbishing 0.27m
  - Journal 1.47m
  - Printing & distribution 0.79m
  - Conference Expenditure 1.57m
  - Subscription to other Organisations 0.15m
  - Travel Expenditure 0.89m
  - Others 0.009m
  - Payment to L&DO (dues are around 8.20 m but ICID can pay only after the demand notice (thus this will be a deferred payment due until it is made)

Note: Due to rounding off, total may not match that of the column 24.18m

Actual Audited Accounts (2008-09)

- Audited Accounts for Year Ending 31-Mar-09
  - actual exchange rate INR/USD ± 45
- Receipts INR 30.11m
- Payments INR 24.18m
- Surplus INR 5.93m
- Closing Balance Sheet
  - Total assets (opening 37.11m) INR 44.26m
  - Current liabilities (opening 7.72m) INR 7.68m
  - Net assets (reserves) 29.39 M at Mar-09 INR 36.58m
    - net assets increased by Rs. 7.15 m
    - equivalent to 1.77 times the 3-year rolling average of annual receipts excluding grants (viz 1.68 at Mar-08) and the specific reason is receipt of rent dues. But L&DO payments as and when made will change this ratio
    - The surplus will be nil if L&DO payments are made this year, on receipt of their demand for their dues from rent

Current Year Forecast

- 2009-10 Forecast (up to March '10)
  - based on INR/USD ± 45 (40 in Lahore budget)
  - Receipts INR (budget 19.95m)
    - Subscription receipts (budget 9.44m) 10.55m
    - Publications (budget 0.69m) 0.69m
    - Rent from additional space at central office (budget 7.28 m) 8.49m
    - Conference support (budget 1.35m) 1.35m
    - Other items (budget 1.18m) 1.09m

      22.17m

Current Year Forecast

- 2009-10 Forecast
  - based on INR/USD 45 (Rs. 40 in Lahore budget)
  - **Receipts INR (budget 19.96m) INR 22.17m**
  - **Payments INR (budget 22.27m)**
    - **salaries & benefits (budget 12.52m) 18.97m**
    - **services & maintenance (budget 2.70m) 2.00m**
    - **property tax & utilities (budget 1.89m) 1.90m**
    - **printing & distribution (budget 1.85m) 2.93m**
    - **rehabilitation/ refurbishing (budget 0.30m) 0.10m**
    - **payment to L&DO from Rent (budget 1.64m) -**
    - **Travel (budget 1.15m) 0.65m**
    - **other (budget 0.12m) 0.03m**
    - **Contingency (budget 0.10m) 0.10m**

      26.68m

Current Year Forecast

- 2009-10 Forecast (to be approved)
  - based on INR/USD 45 (Rs. 40 in Lahore budget)
  - Receipts (budget 19.95 m) INR 22.17m
  - Payments (budget 22.27m - approved) INR 26.68m
  - Surplus/(Deficit) (budget -2.32m) INR (-4.51)m
  - Closing reserve at Mar-10 INR 32.07m
    - (36.58m Mar-09)
  - Closing Reserve is equivalent to 1.33 times the 3-year rolling average of annual receipts excluding grants (1.77 at Mar-09)

ICID Budget (2010-11)

- 2010-11 Budget – (to be Approved)
  - based on INR/USD 45
  - Receipts INR (2009-10 22.17m)
    - subscription receipts (2009-10 10.55m) 10.86m
    - conf. support (2009-10 1.35m) 2.00m
    - rent from additional space at central office (2009-10 8.49m) 9.77m
      - includes 1.82m payable to GoI
    - publications (2009-10 0.69m) 0.77m
    - other items (2009-10 1.09m) 1.15m

      24.55m

ICID Budget (2010-11)

- 2010-11 Budget (to be Approved)
  - based on INR/USD 45
  - Receipts INR (2009-10 forecast 22.17m) INR 24.55m
  - Payments INR (2009-10 forecast 26.68m)
    - salaries & benefits (2009-10 : 18.97m) 16.20m
    - services & maintenance (2009-10: 2.00m) 2.21m
    - property tax & utilities (2009-10: 1.90m) 1.92m
    - printing & distribution (2009-10: 2.93m) 1.56m
    - Travel for meetings (forecast 2009-10, 0.65m) 1.00m
    - office renovation (2009-10, 0.10m) 0.15m
    - payment to L&DO instalment (2009-10) 4.00m
    - others (2009-10, 0.13m) 0.41m

      27.45m

Revised ICID Budget (2010-11)

- 2010-11 Budget *(to be Approved)*
  - based on INR/USD 45
  - Receipts INR (approved was 19.95m) INR 24.55m
  - Payments INR (approved was 22.27) INR 27.45m
  - Surplus/(Deficit) INR (-2.90)m

Preliminary Budgets (2010-13)

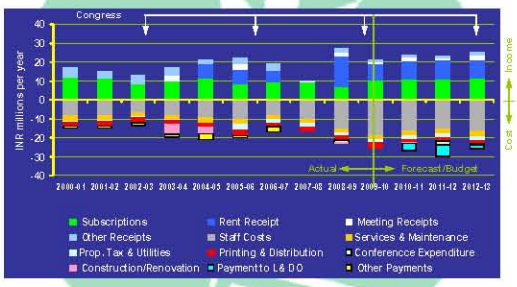
- **Budgets for Next Three Years**
  - based on a constant exchange ratio of INR/USD 45

	2010-11	2011-12	2012-13
• Receipts INR	24.55m	37.00m	25.93m
• Payments INR	27.45m	30.61m	26.30m
• Surplus/(Deficit)	(2.90m)	6.39m	(0.37m)

  - assumes 3%/year increase in subscriptions
  - Assumes 15% income from IEC meetings in 2009, 2010 and 2011 and 50% from Congress in 2012
  - grant income equals expenditure and is only 0.5m(ignored)
  - 0.15m for renovation of central office in 2010, 11 and 12

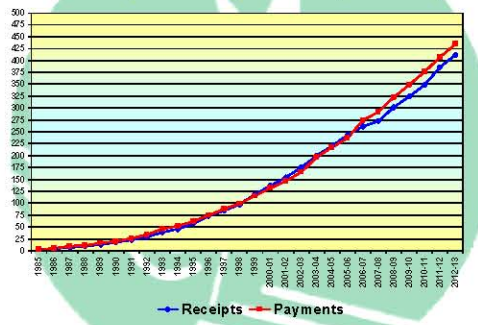
• Closing Reserve	33.68m	40.07m	39.70m
– factor of income (factor of 3-year annual receipts excluding grants)	1.21	1.38	1.32

ICID Annual "Core" Income/Cost



ICID Revenue vs Expenditure

Receipts & Payments (Cumulative)



Suggestions in PFC Review Report / Discussions for enhancing ICID Finances

- Bringing into the ambit of sharing receipts from Regional Conference and the Drainage Workshops
- Consider Institutional / Corporate membership with an appropriate status membership (*'Associates' etc.?)*
- Award for holding the Congress to those guaranteeing a fixed sum or alternatively, to the highest bidder

Summary / Recapitulation of the Issues to be taken up in IEC

- PFC Membership
- Arrangements for Future Congresses/Conferences
- Accounts
  - 2008-09 Actual
  - 2009-10 Forecast
  - 2010-11 Budget to be approved
  - 2011-13 Preliminary Budgets
- ICID Internal Review of PFC matters – status briefing
- Revenues from Events
- Revenues from Corporate membership
- Transfer reserves in HSBC UK to India to gain additional income from interest