



## From Secretary General's Desk...



Dear Colleagues,  
 Congratulations to Dr. Akinwumi Ayodeji Adesina, the President of the African Development Bank (AfDB), who has been awarded the 2017 World Food Prize earlier this month. Dr. Adesina has been chosen for the coveted award for his work in improving the availability of seed,

fertilizer and financing for African farmers, and for laying the foundation for the youth in Africa to engage in agriculture as a profitable business. These are only some of the important components for developing the potential of agriculture to usher Green Revolution in Africa.

Agriculture cannot be allowed to be a game of Dice, if the farmers are to be enticed into this business. Farmers need to be insulated from the risk to production arising out of uncertainties of weather, which is on the rise world over due to climate change. Due emphasis would have to be provided in making water available to the farmers when and where it is needed to meet the needs of the plants. Irrigation which has been at the forefront of the Green Revolution in Asia and Latin America, makes agriculture production relatively

stable and predictable. It is hoped that AfDB and the policy makers in African countries would recognize this sooner than later and invest in development of adequate irrigation and drainage (I&D) infrastructure, establish appropriate water governance mechanism and build capacity in the country in I&D sector.

ICID, over the years, has been providing I&D professionals in more than 60 countries around the world, including 16 countries from Africa, a platform to share international experiences. However, lack of capacity in the National Committees, ostensibly due to inadequate organizational support, has restrained them from making full use of this opportunity.

During the last three years, under the dynamic leadership of its outgoing President Dr. Saeed Nairizi, ICID has streamlined its Vision and Mission. Dr. Nairizi launched the Road Map to ICID Vision 2030 during the recently concluded 23<sup>rd</sup> ICID Congress and 68<sup>th</sup> IEC meeting in Mexico City, Mexico. By interacting with the National Committees (NCs) with an unprecedented intensity during his term as President, Dr. Nairizi has ensured extensive involvement of NCs and all other stakeholders in the consultation process leading up to the Road Map. Special emphasis he placed on developing a 'Technical Support Program' speaks of his faith in NCs capabilities and the spirit of cooperation. His

belief in cooperation and collaboration in facing the new challenges in agriculture water management resulted in re-invigoration of the regional cooperation through Regional Nodes.

His untiring interactions with the International Organizations engaged in agriculture water management has enabled ICID in strengthening the traditional partnerships and creating new ones during his tenure. His foresight and deft dealing of the financial matters over the years enabled ICID, as an organization, in a very stable and sustainable position. These, I recall some of the sentiments expressed by many during the meeting in Mexico while lauding his contributions.

I take this opportunity to specially thank H.E. Enrique Peña Nieto, President of Mexico for gracing the event and highlighting the importance of irrigation and drainage in continuing the fight against hunger. My thanks also goes to Lic. Roberto Ramírez De La Parra, Chairman of MXCID for the leadership provided by him and other members of MXCID, CONAGUA and SEMNAT who, through their untiring efforts made the Congress a grand success, despite demand from their other pressing engagements.

With Best Wishes

Avinash C. Tyagi  
 Secretary General

## 23rd ICID Congress and 68th IEC Meeting

8-14 October 2017, Mexico City



**Mexican President H.E. Enrique Peña Nieto** inaugurated the 23rd ICID Congress and the 68th IEC Meeting on 9 October 2017 in Mexico City, Mexico in the benign presence of President Dr. Saeed Nairizi; Mexico City Mayor H.E. Miguel Ángel Mancera Espinosa; Mr. Roberto Ramírez de la Parra, Director General,

CONAGUA; Mr. Guangzhe Chen Sr. Director, World Bank; Dr. Olcay Unver, Dy. Director, Land & Water Division, FAO; Mr. Tony Slatyer, Special Adviser on Water for the Australian Department of Foreign Affairs and Trade; ICID; and Secretary General Avinash C. Tyagi, ICID. The dignitaries on the dais showed their

solidarity to the people of Mexico, in the wake of the recent earthquake that rocked Central Mexico. Dr. Nairizi presented the Heritage Irrigation Structure (HIS) Citation Plaques - "LA BOQUILLA DAM" and "LA CHINAMPA" to H.E. Enrique Peña Nieto for their inclusion in the ICID Register of Heritage Irrigation Structures 2017. The



23rd ICID Congress was hosted by the Mexican Committee of ICID (MXCID).

Attended by more than 832 delegates from 35 countries, this year the Congress theme was 'Modernization of Irrigation and Drainage towards a New Green Revolution'. Policy makers and officials from various countries unanimously voiced their support to take the world towards a path of modernization for a new green revolution through collaborative efforts and a partnership for Agriculture Water Management.

The plenary session of the 23rd ICID Congress began with a welcome note by Er. Marco Antonio Parra Cota from Mexican National Water Commission. He highlighted the importance of ICID, as an organization for spread of knowledge, technology and current policies in the field of irrigation and drainage. President Saeed Nairizi, ICID in his opening remarks expressed his pleasure of organizing the Congress in Mexico acting on incubator

of Green Revolution that helped the world in traversing the path of global food security. He believed Mexico being a member of ICID will enable the exchange of knowledge amongst all participants of different countries. Secretary General Avinash C. Tyagi spoke about the objectives of the Congress and wished the event all the success.

Mr. Roberto Ramirez de la Parra, Director General of the Mexican National Water Commission and the host for the event, stated that water is the element that links food and the environment, and therefore it is necessary to "develop techniques that allow producing what we need while we preserve our natural resources." The second objective is to find solution to put an end to hunger - a difficult challenge, he added.

Dr. Olcay Unver, FAO emphasized on the importance of making appropriate and nutritious food available to all and striving towards a sustainable development. Mr. Tony Slatyer, Special Adviser on Water for

the Australian Department of Foreign Affairs and Trade spoke about how important it is to help water users and governments to make better decisions in terms of water management.

Mr. Guangzhe Chen Sr. Director, World Bank stated that the World Bank is investing more than six billion dollars around the world in more than 70 projects in 25 countries for irrigation purpose. Mexico City Governor Miguel Angel Mancera spoke about the challenges of drainage in the Mexican capital city and congratulated the work being done by the Mexican National Water Commission (CONAGUA) after the 19 September, 2017 earthquake.

The venue for the 24th ICID Congress and the 71st IEC on Irrigation and Drainage is Sydney, Australia. The event will be held from 22-24 September, 2020.

Live recording of the opening ceremony is available @ ICID official YouTube channel <https://www.youtube.com/watch?v=nyWYtdt9D4Q&feature=youtu.be>

### 10<sup>th</sup> N.D. Gulhati Memorial Lecture



Dr. Felipe Ignacio Arreguín Cortés, Director General, Mexican Institute of Water Technology delivered the 10th N.D. Gulhati Memorial lecture for International Cooperation in Irrigation and Drainage on the theme "Reforms in the Administration of Irrigation Systems: Mexican Experiences."

The memorial lecture, established in the memory of Late President Hon. N.D. Gulhati, is held during every Irrigation and Drainage ICID Congress.

The lecture aimed to (i) sensitize on the process and impact of the transfer of the infrastructure, management, and operation of Irrigation Districts in Mexico from the State to farmers; (ii) present an overview of the present and future conditions of the hydro-agricultural sector in the country, giving rise to a social organization that constitutes an example nationwide; (iii) explain the linkage between different government agencies and user associations

for the sustainable development of the hydro-agricultural sector, with the ultimate aim of increasing agricultural production per unit area and the volume of water used in the important sector.

In closing, Dr. Felipe Cortés highlighted the importance of the legal framework on water and its impact on the agricultural sector, and the need to have a General Water Law which is applicable to the three tiers of government existing in Mexico and the society at large.

Full report available for download < [http://www.icid.org/nd\\_gulhati\\_2017.pdf](http://www.icid.org/nd_gulhati_2017.pdf) >

### Roadmap to ICID Vision 2030 Unveiled

To highlight ICID's mission, vision and goals to contribute and improve use of water in agricultural activities in rural areas around the globe, a publication titled 'A Road Map to ICID Vision 2030: A Water Secure World Free of Poverty and Hunger' was unveiled during the 68th Plenary Session of the International Executive Council (IEC) in Mexico City.

ICID President Saeed Nairizi said the ICID Vision 2030 Roadmap is one of the best documents available around the globe on how we can deal with water management in agriculture to eradicate poverty and hunger. Accompanied by Secretary General Avinash C. Tyagi, Vice-President Ding Kunlun and PCSO Vice-President Dr. Bong Hoon Lee, President Nairizi informed that the document would be circulated far and

wide to build consciousness in every stakeholder engaged in the AWM on the possible way forward within their field of operation. The Action Plan 2017-21, which forms part of the Roadmap will be monitored through the existing mechanism under PCTA, so as to include the Americas in the Mediterranean region and Africa in the research network supported by the current member countries' financial capabilities with the intention to garner more donors, while the agricultural network keeps on growing with a technical support program.

The vision document includes insightful inputs from various stakeholders of AWM under the leadership of Dr. Sylvain Perret,



VPH Dr. Willem Vlotman, VPH Dr. Gerhard Backeberg, VP Dr. Ian Makin, VP Prof. Charlotte de Fraiture, VP Er. Waseem Nazir and Secretary General Avinash C. Tyagi, ICID, under the chairmanship of VPH Dr. Hüseyin GÜNDOĞDU.

Full document is available for download on [http://www.icid.org/icid\\_vision2030.pdf](http://www.icid.org/icid_vision2030.pdf)

## New ICID Leadership

### President



**Eng. Felix Britz Reinders, South Africa**

Eng. Reinders was elected unanimously as the President of ICID for the next three years 2017-2020. Eng. Reinders is a professional engineer with 36 years of experience in the field of Agriculture and Civil Engineering. He holds specialization in water resources management and irrigation engineering, including research, design, training and mentoring. Born in 1955, Eng. Reinders completed his Engineering studies in 1979 from the University of Pretoria, South Africa. He has authored many scientific and semi-scientific papers and articles in the field of the irrigation and served on various Water Research Commission projects. He has been actively involved in the establishment of the South African National Committee on Irrigation and Drainage (SANCID) as a member of ICID in 1993. He served as the Vice Chairman of SANCID from 1993-1999 and as its Chairman for the period 2000-2003 and 2008-2014. Eng. Reinders was elected as Vice President of ICID for the period 2005-2008. Vice Presidents

### Er. Naoki Hayashida, Japan



Er. Naoki Hayashida has worked with the Ministry of Agriculture, Forestry and Fisheries (MAFF) for 36 years and engaged in the design, planning, construction, international affairs and policymaking concerning agriculture and rural development in Japan. He served as Secretary General of JNC-ICID from 2002 to 2004. Currently, he serves as the Chairman of the Japanese Society of Rural Development Engineers and as Vice-President of the Japanese Society of Irrigation, Drainage and Engineering, which is the largest academic organization for irrigation and drainage in Japan.

### Dr. Brian T. Wahlin, USA



Dr. Brian T. Wahlin has 23 years of experience in hydraulic engineering and water resources. Throughout his career, he has analyzed the impacts of flowing water on bridges, dams, levees and irrigation canals and has a unique blend of research and practical

experience. Dr. Wahlin has been an active member of USCID for several years. He was an active participant during the 2nd World Irrigation Forum and a panel expert during the 23rd ICID Congress held in Mexico City in October 2017.

He is currently the President of the U.S. Committee on Irrigation and Drainage (USCID) and Vice-President of WEST Consultants, Inc.

### Dr. K. Yella Reddy, India.



Dr. Reddy is the Director of Water and Land Management Training and Research Institute (WALAMTARI), Hyderabad since 2012. He did his Masters (1984) and Ph.D (2002) from Indian Institute of Technology (IIT) Kharagpur. Dr. Reddy has rich experience of above 30 years in teaching, research, extension, project management and administration.

He has been actively involved in ICID activities since 2008. Since 2010, he is the Secretary of ICID's WG-Water & Crop Workbody and actively contributing to the mandate. He has contributed to a number of scientific papers, articles and technical reports.

## Er. A.B Pandya nominated as new Secretary General



The 68<sup>th</sup> IEC Meeting held on 14 October 2017 approved the nomination of Er. Ashwin B. Pandya as the new Secretary General of ICID w.e.f 1 January 2018.

Er. Pandya did his Masters degree in Structural Engineering from Indian Institute of Technology (IIT), Delhi and has more than 40 years of experience in the field of water resources and irrigation planning, design, implementation and financing.

Er. Pandya was also the Vice President of ICID for the period 2013-16 and actively

participated in the various activities of the Commission. During his professional career, he held top positions in various Government of India offices like Chairman, Central Water Commission (CWC); Director General, National Water Development Agency (NWDA) and Chairman & Managing Director, National Projects Construction Corporation (NPCC).

## Partnerships for Sustainable Agriculture Water Management

First Meeting of High-Level Advisory Group (HLAG) on 'Partnerships for Agriculture Water Management (AWM)' was held on 10 October 2017 in Mexico City. The welcome note by Mr. Roberto Ramirez de la Parra, President MXCID and Dr. Saeed Nairizi, President, ICID set the tone for the meeting. A backgrounder on the High Level Advisory Group (HLAG) was given by Er. Avinash C Tyagi, Secretary General, ICID.

ICID put measures in place to engage all its member countries in policy-making for a sustainable water management in agriculture in a changing environment. The HLAG consisted of Ministers/ Senior officers from Irrigation and Drainage departments to deliberate and provide guidance on the process.

ICID established a dedicated Task Force to Guide the Partnership Process (TF-GPP)

in March 2017 to support HLAG mandate of developing the partnership further and in taking forward the following key initiatives:

- Recognition of agricultural water management as a significant component of SDG 6 & 2.
- Development of suitable advocacy practices and tools for its political prioritization and allocating higher investments in AWM and irrigation and drainage.
- Development of specific AWM indicators at regional, national and local levels for sustainable development of AWM, irrigation and drainage considering changing climate and increased pressure on allocation of



agricultural water.

- Knowledge integration through distributed yet virtually integrated hub at partnership level to develop national/ local capacity through training and education and sharing of best AWM practices, techniques, manuals, knowledge and practical know-how.

## The 23rd ICID Congress: Towards A New Green Revolution 2.0



The 23rd International Congress on Irrigation and Drainage was held from 8-14 October 2017 in Mexico City, Mexico. The main theme of the Congress was “Modernizing Irrigation and Drainage for a new Green Revolution”. An ‘Abstract Volume’ and a USB containing full papers was published for the Congress and made available to the delegates. The general rapporteurs for the thematic questions of the Congress, Dr. Gao Zhanyi for question 60 and Mr. Ding Kunlun for question 61, presented the gist based on 151 papers and posters submitted from more than 25 countries.

As a result of intense deliberations, the following recommendations that emerged for Question 60 and Question 61 that can be summarized as follows:

### Question 60 - Water productivity: revisiting the concepts in light of water, energy and food nexus

- i. To improve irrigation services through modernization, there is need to revisit water productivity by identifying challenges and opportunities. Various water saving measures should be passed through the water-energy-food prism for identifying challenges in associated domains and help find opportunities.
- ii. Investing in improving irrigation technologies and techniques help saving agricultural water and can improve equitability of distribution amongst the common stakeholders but the technology transfer is important through capacity building
- iii. Many techniques are available, especially the ICT based ones and also the measurement techniques for assessing the actual releases and regulating them. Water losses at the field level have been minimized using a suite of techniques.
- iv. Volumetric extraction systems for aquifers allow monitoring of allocated and recharge volumes from aquifers.
- v. Water reuse/ recycle needs assessment of site specific conditions in the contexts and should avoid stakeholder conflicts

for water transfers and adoption of structural and operational reforms

- vi. Water, energy and food nexus has multi-dimensional features and is compounded by climate and social changes as has been revealed by studies in a number of countries across the globe.
- vii. Water footprint indicators seem to be useful in assessing water management in irrigated areas. Various water management techniques adopted, strongly influence the water footprints for specific crops at the field level.
- viii. Considerable advances are being made in the satellite image processing areas as well as simulation modeling, which need be leveraged for better impact assessment of measures adopted or proposed for sectoral water management.
- ix. Water security has environmental and social aspects. While managing an extreme situation, both have to be considered in conjunction with each other. Analysis of water laws and legal frameworks to achieve sustainable water management leading to water security is necessary.
- x. Challenges of water security emerging from international basins need be addressed through cooperation mechanisms based on principles of international water law.
- xi. User’s role in water management is important at the basin level and need to be coordinated with better information dissemination.
- xii. To achieve water security through reuse/ recycle of water, policies have to take associated health issues into account.

### Question 61: “State of knowledge of irrigation techniques and practicalities within given socio-economic settings”

- i. The definition of precision agriculture evokes different understanding amongst the community covering a wide range of options and technologies for application management at the field level and also the necessary decision

support in a spatial and temporal manner for directing water in a required manner.

- ii. Advances in technologies like ICT and cloud based computing models for real time decision support coupled with accurate determination of the status in the field using drones enable the application to large areas with multiple holdings as against large farms only in the past.
- iii. ET based irrigation scheduling has the potential to improve on-farm efficiency.
- iv. The importance of organizing small farm holder community and ensuring institutional support is required for making the benefits of modernization reach them effectively.
- v. Role of operating decisions play an important part in improving irrigation efficiencies and it is required that operations may be kept simple to avoid irrigator errors.
- vi. A number of software tools are available for simulating for irrigation system evaluation, design and operational analysis. Further progress in this area is required for using better infiltration models while maintaining computational speeds.
- vii. New technologies have to be adaptable in order to reap benefits after their implementation. Scaling up effects should be properly understood before large scale implementation and adoption by the user communities.
- viii. Adaptability of the technologies should be seen in various contexts of climatic conditions, environmental and socio-economic conditions and then their validity should be determined.
- ix. Land tenure and size of landowners are important factors for adaptation of new irrigation technologies particularly in developing countries. However, new approaches like land pooling and cooperative farming can provide windows of opportunities to implement the techniques and thereby improve efficiencies.

## Technical Tours during the 23<sup>rd</sup> ICID Congress

The technical tours included visit to the following emblematic agricultural projects in Mexico for the Congress participants.

**Chinampas in Xochimilco:** For its historical and cultural value, in December 1984, the Chinampa zone was declared by UNESCO, a Cultural Humanity Heritage and in 2004, Chinampa's area was declared RAMSAR site by the convention on wetlands. The one-



day tour took place on 12 October, 2017.

**Irrigation District 023 San Juan del Río, Queretaro:** The two-day tour took place on 14-15 October, 2017 and gave a comprehensive understanding of the administrative and operation of a typical Mexican irrigation district, including its hydraulic structures and farms.

## Institutional Reforms in Irrigation Sector for Sustainable Agriculture Water Management

ICID Working Group on Institutional and Organizational Aspects (WG-IOA) organized an International Symposium on the theme '**Global Review of Institutional Reform in Irrigation Sector for Sustainable Agriculture Water Management, including WUA**' on 8 October 2017. The symposium attended by 150 attendees was chaired by Dr. Hafied Gany of Indonesia. The objective was to share knowledge and experiences related to the sustainable agriculture water management with special focus on organizational and legal reforms of the sector, participatory management with water users' organizations and other stakeholders. Country papers

were presented by 14 National Committees (NCs), from various countries, including Mexico. The country paper reports included the legal framework, the transfer process to users and participatory management, with its impacts, challenges and recommendations. The symposium concluded with the necessity to adapt the legal framework to consolidate the management transfer process to water



users and to consider the user profiles and surrounding environment for further reform of the framework.

## Applications of Geosynthetics to Irrigation, Drainage & Agriculture

An International Workshop aimed to facilitate activities of mutual interest between the International Geosynthetics Society (IGS) and the International Commission on Irrigation and Drainage (ICID) was held on the theme '**Applications of Geosynthetics to Irrigation, Drainage**

**and Agriculture**' on 8 October at Mixteca II Room. Six renowned experts including Prof. Giroud and Mr. Plusquellec were roped in by Mr. Timothy D. Stark, Workshop Chairman to enlighten the audience on the various aspects of the subject.

Several topics such as applications of geomembranes for irrigation canals, reservoirs, flood management, water containment, water conveyance, erosion control, and irrigation drainage were discussed.

## Meeting of Latin American Countries on I&D

The National Water Commission of Mexico and the Mexican Institute of Water Technology organized a meeting for the Latin American countries on 10 October 2017 in Mexico City.

The meeting aimed to encourage discussion and cooperation on various aspects of Irrigation and Drainage management and to create a knowledge network for further dissemination of information. A review exercise was carried out by the experts to analyze the current and future state of water use in agriculture; administration and management of water resources for food production; development of irrigation and drainage; as well as exploring possible forms of collaboration in the hydro-agriculture sector between Latin American and Caribbean countries.

Dr. Nahun Hamed Garcia Villanueva from IMTA opened the discussion by giving an overview on the challenges faced by the countries in the region. Members of the academia and public officers from eight countries of Latin America and the Caribbean- Argentina, Bolivia, Brazil, Chile, Mexico, Peru, Dominican Republic and Costa Rica- participated in the meeting.



At the end of the meeting, it was recommended to promote the formation of a Regional Association for the Sustainable Development of the Hydro-agricultural sector in Latin America and the Caribbean. The association would include representatives from both public and private sectors of each country, as well as experts and researchers.

## Participation of Young Professionals

With the objective of intensifying the Young Professionals' involvement in ICID's activities in the domain of irrigation, drainage and flood management, IYPEF in 2017 organized five e-discussions. Ten Young Professionals (YPs) from different countries were selected and sponsored to join the 23rd Congress and 68th IEC meeting in Mexico City.

As part of their capacity development, two training workshops were organized for the young professionals to enrich their knowledge and decision making process.

### Training Workshop on "Value Engineering: An effective and efficient methodology for Enhancing irrigation, drainage and flood management Projects"

Held by Dr. Kamran Emami (Iran), Chairman of Task Force on Value Engineering (TF-VE), the half-day training workshop held on 13 October 2017 at room TOLTECA II, introduced the young professionals to the history, concept and applications of Value Engineering (VE) in irrigation, drainage and flood projects and how it can be used to increase benefits, reduce cost and ensure sustainable irrigated agriculture. Value Engineering (VE) is an internationally practiced methodology to achieve the required Product, Process, Services and System at the minimum possible cost by analyzing their functions and Life cycle costs. Dr. Emami explained the concept of value engineering and used multi-media presentations to enhance the



understanding of the participants to have maximum interaction in the form of Q&A and group discussion. At the end of the workshop the selected resources on VE applications in form of books, handbooks, papers, films and brochures were distributed to the participants.

### Training Workshop on "Irrigation Water Management to Adapt to Climate Change"

To acclimatize the young professionals towards management of irrigation water and adaptive measures to cope with climate change and share his experience on the ClimaAdapt Project, Dr. Kaluvai Yella Reddy held a half-day training workshop on 13 October 2017. Dr. Reddy initiated the workshop at room TOLTECA II with a presentation on Importance of Irrigation Water Management & ClimaAdapt Project

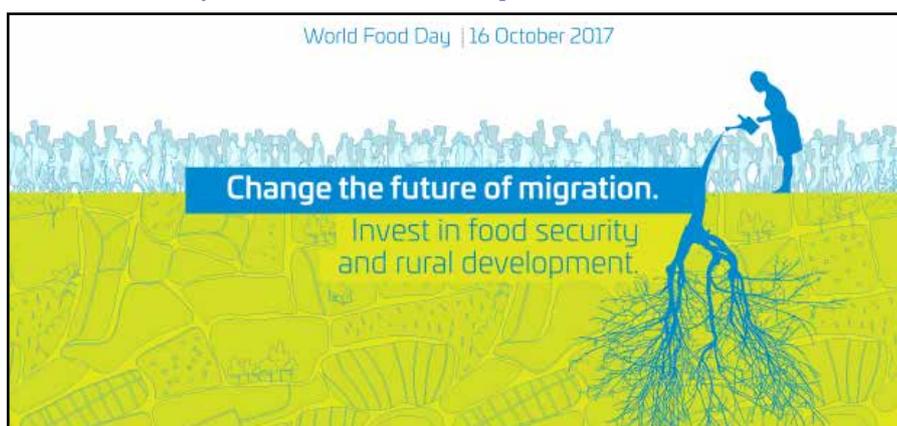
Experiences. Video films were screened on 'Use of Sensors and Water Management at Farm Level' followed by presentations from Dr. Sylvester Mpandeli on 'Coping and Adaptive Responses of Smallholder Farmers to Climate Change in South Africa'; and Dr. Patricia Mejias-Moreno (FAO) on 'Climate Change & Water'. In the second session, Dr. Kamran Emami, Iran gave a presentation on Adoptive Water Resources Management. Dr. Evan Derald, Canada; Dr. Madhav Belsare, Nepal and Dr. Marco Arcieri, Italy shared their experiences followed by responses from the trainees. The workshop imparted knowledge to the young professionals related to irrigation and drainage sector on the importance of irrigation water management in the context of climate change and suitable measures of adaptability.

## Change the future of migration

### Invest in food security and rural development

**World Food Day** is a day of action dedicated to tackling global hunger. Every year October 16 is observed as World Food Day in honour of founding of the Food & Agriculture Organization (FAO) of the United Nations in 1945. People from around the world come together to declare their commitment to eradicate worldwide hunger with events organized in over 150 countries. The theme for 2017 is "Change the future of migration: Invest in food security and rural development".

Migration is part of the process of development as economies undergo structural transformation and people search for better employment opportunities within and across countries. The challenge is to address the structural drivers of large movements of people to make migration safe, orderly and regular. In this way, migration can contribute to economic growth and improve food security and



rural livelihoods, thus advancing countries' progress in achieving the Sustainable Development Goals (SDGs).

Yet, in a world of billions, 805 million people worldwide still live with chronic hunger, 60% women and almost five

million children under the age of five die of malnutrition-related causes. This year, World Food Day focused on 'SDG 2 - Zero Hunger' to show commitment to achieve Zero Hunger by 2030 by making the vision of right to food a basic human right for one and all.

## Major Decisions taken at the 68th IEC Meeting

The Council elected Eng. Felix B. Reinders (South Africa) as the President and Er. Naoki Hayashida (Japan), Dr. Brian T. Wahlin (USA) and Dr. K. Yella Reddy (India) as Vice Presidents for the period 2017-20.

### ORGANISATIONAL AND TECHNICAL MATTERS

1. Approved re-admission of the Afghanistan National Committee. Membership of Azerbaijan, Georgia and Vietnam approved provisionally subject to their paying annual subscription before 31 December 2017.
2. Approved the membership changes of various work bodies of PCTA and PCSO.
3. Approved the comprehensive Technical Support Program (TSP). National Committees to contribute towards the Fund created for undertaking activities of the Technical Support Program (TSP) and to depute volunteers from time to time to undertake the activities of TSP.
4. Approved of the new/existing workbodies with revised mandate: (i)WG HIST (ii) WG SDTA (iii) Closure of CPR&P with immediate effect.
5. For achieving objectives of Road Map to Vision 2030, encourage WG to monitor the progress of 'Activities identified under Various Strategies for Action Plan 2017-21'
6. Approved recommendations of the Sub-committee on Constitution and By-laws for the amendments to the existing Constitution and Bye-laws that have been in force since 2014.

### AWARDS

- The Best Performing National Committee Award (BPNCA) based on the work undertaken during the last three years was given to Iranian National Committee on Irrigation and Drainage (IRNCID). A crystal trophy was presented to IRNCID.
- The Best Paper Award for 2017 selected out of the papers published in the ICID Journal during the year 2016 was presented to Sabine J. Seidel, Stefan Werisch, Klemens Barfus, Michael Wagner, Niels Schütze and Hermann Laber from Germany for their paper titled "Field Evaluation of Irrigation Scheduling Strategies using a Mechanistic Crop Growth Model".
- The WatSave Awards 2017 were given under 4 categories:
  - o Technology Award for "Developing 'Water Savings Calculator' for estimating water savings" to Mr. Chris Norman & Mr. Carl Walters (Australia).



- o Innovative Water Management Award for "Promoting water saving interventions in large irrigation systems" to Prof. Wang Aiguo (China).
- o Farmer Award for "Effective Water Management through Farmer's Cooperative Interventions" to Dr. Sharad Deshmukh (India).
- o Young Professional Award for "Designing Micro-Lysimeter for accurate measurement of crop water requirements" to Mr. Mahdi Sarai Tabrizi (Iran).
- 13 irrigation structures were included in the ICID Register of Heritage Irrigation Structures (HIS) 2017.

### Australia

1. Goulburn Weir
2. Bleasdale Vineyards Flood Gate

### China

1. Ancient Yellow River Irrigation System
2. Hanzhong Ancient Weir Irrigation System
3. Huang Ju Irrigation System

### Japan

1. Doen Irrigation System
2. Nasu Irrigation System
3. Matsubara-Muro Irrigation System
4. Odai Irrigation Canal

### Mexico

1. Chinampa (Prehispanic subirrigated farm)
2. La Boquilla Dam



Mexican President H.E. Enrique Peña Nieto received Citation Plaque of Mexican structures from President Dr. Saeed Nairizi.

### Korea

1. Dangjin Hapdeojke
2. Manseokgeo Dam (Ilwang Reservoir)

### FINANCIAL MATTERS

1. VPH Laurie Tollefson selected chair of PFC for another three years; Dr. Marco Arcieri (ITAL-ICID) admitted as new member
2. Individuals and companies (listed below), accorded Direct Membership:
  - (i) Mr. L.B. Roy (India) – Life Membership (Individual)
  - (ii) Dr. Deepak Khare (India) – Life Membership (individual), Provisionally
  - (iii) Mr. Klaus Rottcher (Germany) - Individual
  - (iv) Dayu Water Saving Group Co. Ltd. (China) – Company
  - (v) Electrosteel Castings Ltd. (India) – Company
3. The Audited Accounts of ICID for the financial year 2016-17; Revised Budget for the financial year 2017-18 and the Budget for the financial year 2018-19 were approved.
4. The revised membership subscription formula was approved along with other recommendations of Task Force to Review the Membership Structure and Annual Membership Subscription Formulae (TF-AM).
5. Set up a Special Task Force to explore the feasibility of establishing business (es) related to ICID mission to mobilize additional resources to implement Roadmap to ICID Vision 2030.

## International Scientific- Technical Conference

The VII Scientific-Technical Conference on the theme "The modern problems of water management, environmental protection, architecture and construction" was held from 25-27 August 2017 in the assembly hall of the Tsothe Mirtskhulava Water Management Institute of Georgian Technical University (GTU).

Vice President Dr. Irene Bondarik (Russia) and Prof. Iuri Majaiski, Director of Meshcher Scientific Technical Centre were among the dignitaries who opened the conference. During the meeting, VP Dr. Bondarik met Mr. Achil Bukria, Director General and Mr. Tengiz Lakirbia, Deputy Director of LLC Georgian Amelioration and

discussed the cooperation between Georgia Republic and ICID.

The international conference witnessed participation from 42 scientists, experts and young specialists from seven countries - Azerbaijan, Belarus, Lithuania, Poland, Russia, Georgia and Armenia.

The conference had 32 scientist-specialist presentations.

On 28 August 2017 a cultural-professional excursion for participants was organized.



A session by the organizing committee decided the VIII international conference to be held in November 2018 in Tbilisi, Georgia.

## Land Reclamation – The Basis of Sustainable Development of Agriculture

All-Russian Research Institute of Irrigated Agriculture with the support of the National Committee on Irrigation and Drainage of the Russian Federation held a conference on the theme "Role of land reclamation for the implementation of state scientific and technical policy to achieve a sustainable development of agriculture" from 7-9 September 2017, dedicated to the 50th anniversary of the institute.

Dr. Irene Bondarik, Vice President, ICID & Secretary General of the National Committee of the Russian Federation on Irrigation and Drainage (RUCID) emphasized the importance of the conference in the Year of Environment, held in Russia in 2017 to ensure a sustainable future of the country and its people.

The conference was attended by 310 representatives from Russian Academy of Sciences, Ministry of Agriculture of the Russian Federation, heads and members of local authorities of the Southern



Federal district, heads and specialists of agricultural enterprises including farmers from 18 regions of Russia and international delegates from Austria, Croatia and Spain.

The conference participants discussed a wide range of issues related to land

reclamation technologies for agricultural lands of Russia, including the scientific support for the industry, the strategy and tasks of its development, the rational use of water resources and efficient use of reclaimed lands.

## Events Corner

### ICID Events

**8th Asian Regional Conference on the theme 'Irrigation in Support of an Evergreen Revolution', 2-4 May 2018, Kathmandu, Nepal.** Contact: Mr. Bashu Dev Lohanee, Secretary, Nepal National Committee, ICID (NENCID), Deputy Director General, Department of Irrigation; Email: lohanibas@yahoo.com, irrigation@wlink.com.np; Website: <http://nencid.org.np/8th-annual-regional-conference/>

**69th International Executive Council Meeting and International Conference, Saskatoon, Canada, 12-17 August 2018, Saskatoon, Canada.** For more details <http://www.icid2018.org>.

**9th International Micro Irrigation Conference, January 2019, Aurangabad, India.** Contact: Mr. Anuj Kanwal, Member Secretary, Indian National Committee on Surface Water (INCSW); Email: [icid-cwc@nic.in](mailto:icid-cwc@nic.in); Website: <http://www.cwc.gov.in/main/INCID/welcome.html>.

**70th IEC Meeting and 3rd World Irrigation Forum (WIF3), October 2019, Bali, Indonesia.**

Contact: Ir. Mohamad Hasan, President, Indonesian National Committee of ICID (INACID), Director General of Research and Development, Email: [inacid\\_indonesia@yahoo.co.id](mailto:inacid_indonesia@yahoo.co.id), [mohasan53@yahoo.co.id](mailto:mohasan53@yahoo.co.id)

**71st IEC Meeting and 24th ICID Congress, 22nd-28th September 2020, Sydney, Australia.** Contact: Mr. Bryan Ward, CEO, Irrigation's Australia Limited (IAL) (Incorporating IACID), Email: [Bryan.ward@irrigation.org.au](mailto:Bryan.ward@irrigation.org.au), Website: <https://www.irrigationaustralia.com.au/eventsandnews/icid-24th-international-congress>

## International Commission on Irrigation and Drainage (ICID)

48 Nyaya Marg, Chanakyapuri, New Delhi 110021, India, Tel: 91-11-2611 5679, 91-11-2611 6837, 91-11-2467 9532  
Fax: 91-11-2611 5962; E-mail: [icid@icid.org](mailto:icid@icid.org); Website: <http://www.icid.org>; Facebook: <http://www.facebook.com/icidat>

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