

**Report of the 36<sup>th</sup> Meeting of the  
PERMANENT COMMITTEE FOR TECHNICAL ACTIVITIES (PCTA)  
11 November 2016, 09.00-17.00 hours  
Chiang Mai, Thailand**

**Mandate:** The Permanent Committee for Technical Activities (PCTA) shall be concerned with all the technical activities of the Commission including all publications of ICID. It will be responsible for activities of the technical work bodies, for selection of Questions/Themes for Congresses, Conferences, Special Sessions, Symposia, etc., for settlement of the technical conclusions thereof and for making appropriate recommendations for action thereon.

**Members Present:** (1) Vice President Hon. Dr. Felix B. Reinders, Chairman (South Africa, 2010); (2) Prof. Graziano Ghinassi (Italy, 2012); (3) Prof. Masayoshi Satoh (Japan, 2012); (4) President Hon. Mr. Peter S. Lee (UK, 2013); (5) Vice President Hon. Mr. Chaiwat Prechawit (Thailand, 2014); (6) Vice President Dr. Ding Kunlun (China, 2015); (7) Vice President Dr. Mohamed Abd-El-Moneim Wahba (Egypt, 2015); (8) Mr. Ali Reza Salamat (Iran, 2015); (9) VPH Mr. Larry D. Stephens (USA), PCTA Secretary and (10) Er. Avinash C. Tyagi, Secretary General, ICID

**Permanent Observers:** Mr. Ian Makin, IWMI Representative.

**Ex-Officio Members Present:** (i) VP Dr. Mohamed Wahba (Egypt), Co-Theme Leader, Strategy Theme – Basin; (ii) VP Dr. Charlotte de Fraiture (Netherlands), Co-Theme Leader, Strategy Theme – Basin; (iii) VP Dr. Abdelhafid Debbarh (Morocco), Co-Theme Leader, Strategy Theme – Knowledge & Chair, WG-CDTE; (iv) VP Dr. Ding Kunlun (China), Co-Theme Leader, Strategy Theme – Schemes; (v) VP Ian Makin (UK), Co-Theme Leader, Strategy Theme – Schemes & Chair, WG-M&R; (vi) VP Bong Hoon Lee (Korea), Co-Theme Leader, Strategy Theme – On- Farm; (vii) VPH Mr. Larry D. Stephens (USA), Chair, C-PR&P and Secretary, PCTA; (viii) PH Prof. Bart Schultz (The Netherlands), Chair, EB-JOUR, Chair, SC-E-THEMES; (ix) Dr. Kamran Emami (Iran), Chairman, WG-HIST, WG-CAFM & TF-VE; (x) VPH Franklin E. Dimick (USA), Chair, WG-DROUGHT; (xi) Dr. Ruey-Chy Kao (Chinese Taipei), Chair, WG-SDTA; (xii) Dr. Sylvain Perret, Chair, WG-ENV; (xiii) Dr. Tsugihiko Watanabe (Japan), Chair, WG-CLIMATE; (xiv) Dr. Ragab (UK), Chair, WG-CROP; (xv) Dr. Samia El-Guindy (Egypt), Chair, WG-PQW represented by Dr. Ragab; (xvi) VPH Felix B. Reinders, Chair, WG-SON-FARM; (xvii) Dr. Fuqiang Tian (China), Chair, WG-BIO-ENERGY; (xviii) Dr. Bernard Vincent (France), Chair, WG-SDG; (xix) VPH Dr. Hafied Gany (Indonesia), Chair, WG-IOA; (xx) VPH Françoise Brelle (France), Chair, WG-IDM represented by Ms. Mary Jean Gabriel, Provisional Vice Chair, WG-IDM (South Africa) and (xxi) Mr. Mehrzad Ehsani (Iran), Chair, WG-WATS.

**Observers Present:** (i) President Dr. Saeed Nairizi (Iran); (ii) PH Dr. Gao Zhanyi (China); (iii) VPH Dr. Gerhard Backeberg (South Africa); (iv) VPH Dr. Adama Sangare (Mali); (v) VPH Dr. Huseyin Gundogdu (Turkey); (vi) VPH Prof. Laszlo Hayde (Hungary); (vii) VPH Laurie Tollefson (Canada); (viii) VPH Dr. Peter Kovalenko (Ukraine); (ix) VPH Dr. Shinsuke Ota (Japan); (x) Mr. Waseem Nazir (Pakistan); (xi) Dr. Gong Ju (Korea); (xii) Mr. Kenichi Uno (Japan); (xiii) Dr. Marco Arcieri (Italy); (xiv) Dr. Somkiat Prajamwong (Thailand); (xv) Mr. Maurice Roos (USA); (xvi) Dr. Ahmed M. Adam (Sudan); (xvii) Dr. Sándor Szalai (Hungary); (xviii) Dr. Gurbachan Singh (India); (xix) Kyung Sook Choi (Korea); (xx) Taeseon Park (Korea); (xxi) Youn Sun Lee (Korea); (xxii) L. Wangchai (Thailand); (xxiii) N.G.R. Ariyaratne (Sri Lanka); (xxiv) Mu Than (Myanmar); (xxv) Mr. Warren Helguson (Canada); (xxvi) Nanthawan Sunan Satit (Thailand); (xxvii) Dr. Arthon Suttigarn (Thailand); (xxviii) Sahar Norouzi (Iran); (xxix) Mr. Clarke Ballard (Australia); (xxx) G.M.R.A. Perera (Sri Lanka); (xxxi) Mr. Bashu Dev Lohane (Nepal); (xxxii) Françoise Ouane (Burkina Faso); (xxxiii) Dambre S. Bernard (Burkina Faso); (xxxiv) Mat Hussin Ghani (Malaysia); (xxxv) Mr. Amit Parashar (CSIRO); and (xxxvi) Carmel Pollino (CSIRO).

### **PCTA Minutes Item 1: ATR on the minutes of the 35<sup>th</sup> Meeting of PCTA**

1. An Action Taken Report (ATR) on the minutes of the 35<sup>th</sup> PCTA meeting held at Montpellier was noted by the Committee with satisfaction.

### **PCTA Minutes Item 2: Membership of the PCTA and Workbodies**

2. The PCTA noted that VPH Mr. Felix B. Reinders would be completing his tenure of six years as member and five years as Chairman of PCTA by the end of the Chiang Mai meeting of PCTA in accordance with ICID By-laws 3.8.1(c). In accordance with ICID By-laws 3.9.4 (b), Vice President Dr. Ding Kunlun has been nominated as the new Chair of PCTA, subject to approval by IEC. The Committee invited NCs, including South African National Committee to nominate representative to the PCTA.

3. Chairman Reinders reviewed the memberships of the work bodies that have been proposed by various workbodies under the Committee and changes have been proposed and affected as per the consolidated list of membership of workbodies given at **Annex 5 (Page 33)** of 67<sup>th</sup> IEC minutes.

**PCTA Minutes Item 3: Functioning of Workbodies**

4. PCTA Chair, earlier during the Plenary session of IEC, encouraged the workbodies to use the facility of web-conferencing/tele-conferencing/video-conferencing to hold interim meetings for more frequent interactions with the members between two IEC meetings, with the objective to help the provisional members of various workbodies, who are unable to physically present during the annual meetings, to enable them to contribute to the activities of the WGs and thereby become active members of WGs. The Committee recalled that establishment or extension of the WGs has to follow the procedures set out to ensure that the WGs get the required support and inputs from the NCs. Later, VP Charlotte, while providing the review of Strategic Theme Basin (Agenda Item 7.7), also made a number of useful suggestions for improving the functioning of Workbodies.

**PCTA Minutes Item 4: Revision/Updating of Multilingual Technical Dictionary (MTD) – Establish a Task Force on MTD**

5. During the last IEC meeting, the efforts to upgrade the MTD (CD version 2010) to an on-line version were initiated as an important input to meet SDGs. It was also proposed that the irrigation and drainage dictionaries in various national languages would also be amalgamated. While considering a mechanism to review/update the existing MTD as per the background note presented during the Montpellier meeting of PCTA, the Committee recommended that a Task Force be established including representatives from various specialized fields, at the same time representing various languages included in the MTD. It was reported that a Korean version and Indonesian version of the MTD is being prepared and will be made available soon.

6. The Committee considered the Draft Scoping Document for the establishment of a Task Force for Updating and Maintenance of MTD prepared by Central Office and recommended for the establishment of TF-MTD. The TF will be chaired by Chair PCTA and consist of chairs/nominees of WGs IDM, IOA, SON-FARM, SDG, M&R, and CAFM along with co-opted members from specialized organizations like FAO, IWMI, and ADB. The mandate is provided in **Annex R2.2 (Page 20)**. The Committee proposed that TF in its work should find ways and means to align its work with FAO system and reduce duplication of efforts.

**PCTA Minutes Item 5: ICID Vision 2030 – Inputs to ICID Action Plan 2030**

7. The 66th IEC meeting approved the Vision, Mission and six Organizational Goals and requested the Consultative Group (CG) that has been constituted to develop 'Draft ICID Vision 2030 Document' to develop a Draft Action Plan 2030 including review of structure and other organizational aspects required to achieve the goals of Vision 2030. It was pointed out that the CG Chair VPH Huseyin Gundogdu reviewed the status of preparation of action plans by the WGs as well submission of filled in questionnaire by the NCs during the Chiang Mai meeting.

8. All the WGs were requested to discuss and finalise action plan for their WG as input to prepare ICID Action Plan for Vision 2030. WGs discussed this agenda during their meeting and most of the WGs were of the view that it may take some more time to finalise the action plan for their WGs. Members of the PCTA suggested that WGs and NCs may be provided time for submitting their inputs for the Action Plan by 15 January 2017 so that the Action Plan can be finalized by June 2017 (See PCSO Report Item 4, Page 48).

**PCTA Minutes Item 6: International Research Program for Irrigation and Drainage (IRPID) Scheme**

9. Based on the decision of the Management Board of ICID, an IRPID Scheme was notified vide Notification No.16 of 2016 dated 27 April 2016 among ICID National Committees inviting to establish regional nodes, following the examples of regional nodes that are currently working in Beijing and Tehran. The notified IRPID Scheme gives vision, mission and objectives of the Research Program, besides presenting the organizational structure, coordination mechanism etc.

10. PCTA Chair VPH Reinders informed the members the objectives of the Scheme and the progress about the Program, while presenting the Report of AC-IRPID as its Chair (See PCSO Report Item 5, Page 48)..

**PCTA Minutes Item 7: Review of reports of the activities of Workbodies under the Strategy Theme – Basin (ST.B)****PCTA Minutes Item 7.1: Working Group on Water Management in Water Stressed Regions (WG-DROUGHT)**

11. VPH Mr. Franklin E. Dimick, Chair of the WG presented the report of the meeting of WG and informed that the WG is preparing its report under three themes: (i) Drought Management Strategies in Water Stressed / Scarce

Regions, (ii) Coping with Water Scarcity, and (iii) Rainfall Harvesting and Management for Sustainable Agriculture in Water Stressed /Scarce Regions. Draft reports for theme I and III have been finalized while report for theme II is under finalization by Dr. Jan Ming-Young of Chinese Taipei, which would be available by March 2017 for circulation among members of the WG for their views/comments. The final document is expected to be sent to Central Office by June 2017.

12. WG finalized the closure report of the WG. WG finalized the scoping document for the new WG and recommended creation of a new WG on 'Managing Water Scarcity under Conflicting Demands', which was endorsed by PCTA. It was pointed out that the Scoping Document finalized by the WG will have to be circulated to the NCs and their interest in participating in the activities of WG sought.

**PCTA Minutes Item 7.2: Working Group on Sustainable Development of Tidal Areas (WG-SDTA)**

13. Dr. Ruey-Chy Kao, Chair of the WG presented the 'Summary of Activities' of the WG. The WG successfully organized an International Short Course on 'Resilience and Adaptations to Climate Change for Sustainable Management of Tidal Areas' from 1-6 August 2016 at Tainan City in Chinese Taipei, followed by an interim meeting of the WG. The WG will be publishing a Special Issue of ICID Journal on SDTA titled "Sustainable Development of Tidal Areas: Climate change and environmental impacts" in 2017. The Chair presented the 'Scoping Document' with a new mandate for the period 2016-2021 which was endorsed by PCTA. The Scoping Document will now be circulated to the NCs and their interest in participating in the activities of WG sought.

**PCTA Minutes Item 7.3: Working Group on Environment (WG-ENV)**

14. Dr. Sylvain Perret, Chair of the WG presented the summary report of the meeting. A WebEx meeting of the WG is proposed to be held in early 2017. The WG actively participated and organized the two Side events: (a) *Environmental performances of paddy rice systems in the context of climate change*, (b) *Climate change impact and adaptation in agriculture* during WIF2 besides conducting a training workshop on "The environmental impact analysis of irrigation systems: using Life Cycle Analysis" for Young Professionals on 10 November 2016.

15. The WG proposed to organize a joint workshop with WG-SDG on 'Soil and water salinization as results from irrigation and drainage practices' at Mexico in 2017. It was pointed out that the program of the Congress would be finalized by the TAC for the 23<sup>rd</sup> Congress. PCTA endorsed the proposal for consideration of TAC. The Committee noted that the WG is preparing two documents: (a) "Ecosystem services in irrigation systems" and (b) "Finalization of the LCA methodology", to be published in 2017.

16. The Committee was informed that VP Charlotte Fraiture (the Netherlands) becomes the new chair of the WG whereas Dr. Perret assumes the charge of Secretary for time being. The PCTA recommended these nominations of the WG. PCTA appreciated the efforts of the Dr. Sylvain Perret, Chair of the WG for the intensive activities of the Group, particularly for making use of WebEx tool for furthering the activities of the WG.

**PCTA Minutes Item 7.4: Working Group on Comprehensive Approaches to Flood Management (WG-CAFM)**

17. Dr. Kamran Emami, Chair of the WG presented the report of the WG and informed that preparation of the publication of the WG titled 'Adaptive Flood Risk Management' covering both structural and non-structural aspects of floods management is continuing and members have been requested to prepare case study reports to complete the publication. WG finalised the closure report of the WG and recommended the establishment of a new WG. The PCTA suggested that the WG members, acting as Core Group prepare and finalise scoping document with new mandate for circulation among the NCs and other partner organizations engaged in flood management activities.

**PCTA Minutes Item 7.5: Working Group on Climate Change and Agricultural Water Management (WG-CLIMATE)**

18. Dr. Tsugihiko Watanabe, WG Chair presented the report of the meeting of the WG-CLIMATE and informed that as a part of updating of MTD the WG has contributed 127 terms related to climate change to the MTD. He further informed that WG organised a Workshop on "Agricultural Water Management under the Changing Climate" with about 40 participants and would be organizing a similar workshop during the working group meeting in Mexico City in 2017.

**PCTA Minutes Item 7.6: Working Group on Water for Bio-Energy and Food (WG-BIO-ENERGY)**

19. Dr. Fuqiang Tian, Chair of the WG presented the report of the meeting of the WG and informed that WG has completed its initial mandate and based on the finalized scoping document WG recommended the establishment of

a new WG on 'Water for Bio-Fuel and Food' with revised mandate. PCTA endorsed the recommendation to IEC which approved setting of new WG with the revised mandate as given in **Annex R2.2 (Page 20)**.

**PCTA Minutes Item 7.7: Synthesis Report by Co-Theme Leaders of ST Basin**

20. The Synthesis Report was presented by VP Dr. Charlotte de Fraiture. She noted that she attended the meetings of the work bodies under the strategy theme. She noted that too much time was spent on procedural matters and not enough time was given on workbody's technical outputs. She recommended more efforts are needed to involve young professionals in workbody activities. She recommended approval of all new mandates that were proposed by the WGs.

21. VP Charlotte made the following observations and recommendations which needs to be considered for improving functioning of the workbodies. She observed that the WGs had variable attendance and all of the WGs had many non-members. She pointed out that two WGs had sought renewal of mandates (DROUGHT, Bio-Energy), WG-ENV sought change in mandate by adding salinization, and WG-CAFM had sought extension which she endorsed. She lamented that the internal communication within the WGs was mostly confined to the annual meeting, and only a few (WG-ENV, WG-CLIMATE) only used Webex or other tools for communicating and carrying out their activities during the intervening period.

22. She noted that the Workplans were developed/revised based on input from CO and as such the emphasis during the meeting was on planning, less on to implement it by identifying responsible persons. She suggested that the Plan should be flexible and updated every year with proper monitoring and accountability.

23. VP Charlotte emphasized that there is need to make the sessions of WGs more lively and full of contents as people wandering in sessions are looking for contents. There is need to establish links with other WGs and broad-basing members/observers by tapping into YP, (e.g. ENV – class for YP). She also emphasized the need for proper scheduling of WG meetings during ICID gatherings.

24. VP Charlotte suggested that emphasis should be more on reinvigorating running groups and new WG should be established only if there is an active "champion" to pull the group along with identification of members interested in the mandate. She recommended that more emphasis should be placed on output and activities, which should form an essential conditions for extension of the WGs. She suggested that these outputs could be in the form of publications, blogs, webinars, e-discussions, Training, as well as sessions in conferences.

25. SG suggested that summaries of the technical discussion in the WG in the form of presentations and workshops be prepared so that the technical material presented can be shared outside the WG. This will provide the publicity to the activities of the WG, as suggested by VP Dr. Charlotte.

26. PH Peter Lee pointed out that, as far as possible, in future work body meetings under a particular theme be scheduled consecutively, not concurrently so that theme leaders and participants can attend all or most of the WG meetings under each theme. After discussions, PCTA agreed that a Small committee be set up with Theme leaders and SG to investigate the structure, scheduling of meetings and membership of WGs.

**PCTA Minutes Item 8: Review reports of the activities of Workbodies under the Strategy Theme – On-Farm (ST.OF)**

**PCTA Minutes Item 8.1: Working Group on Water and Crops (WG-WATER & CROP)**

27. VPH Dr. Ragab Ragab, Chair of the WG presented the report of the meeting of the WG-CROP. The Technical Report of the WG will be a consolidation of contributions by members on various topics under the mandate of the group and will be finalised in early 2017. The WG was actively involved in preparation of background paper for Sub-theme 1 besides reviewing abstracts and being Co-Chair/ Rapporteur for several parallel sessions of WIF2. The WG proposed to organize a workshop on '*Improving the water use efficiency within the Water-Food-Energy nexus*' during the Canada Meetings in 2018. Dr K.Y. Reddy (India) volunteered to organize a Webinar in 2017.

28. In view of poor attendance in the meetings affecting the performance of the WG, the Chairman suggested that PCTA/IEC should consider allowing more than one person from a National Committee to be a member of the WG.

29. PCTA recommended to IEC that a methodology be developed to allow more than one member per WG from a given country. VP Ian Makin suggested that all WGs under a theme meet briefly during the IEC week to discuss the items that are dealt with under the WG agendas. It was recommended that NC can nominate more than one member but it must be less than the 20% of the total membership of the WG (for e.g., if there are 20 members on the WG, then the maximum per country shall be 4).

**PCTA Minutes Item 8.2: Working Group on Use of Poor Quality Water for Irrigation (WG-PQW)**

30. VPH Dr. Ragab Ragab presented the report of the meeting of WG-PQW. The WG requested for a one year extension, and also to change the name of a new WG to 'Non-Conventional Water Resources.' The Committee approved the extension up to 2017 and asked the WG to come up with a Scoping Document to establish a new WG as proposed in Mexico in 2017.

**PCTA Minutes Item 8.3: Working Group on Sustainable On-Farm Irrigation System Development (WG-SON-FARM)**

31. VPH Mr. Felix B. Reinders, Chair of the WG presented the report of the meeting of the WG-SON-FARM and informed that the WG plans to organize an internal workshop during the WG meeting during 68<sup>th</sup> IEC meeting in Mexico in 2017 and the 9th International Micro Irrigation Conference (IMIC) in India in January 2019. The report on "Micro irrigation for smallholders and greenhouses" provided by Prof. Yoshisuke Nakano (Japan) would be reviewed and finalized by the end of 2016 for publication. The closure report of the WG will be sent to Central Office by January 2017.

**PCTA Minutes Item 8.4: Synthesis report of Co-Theme Leaders of ST On-Farm**

32. The Synthesis report was presented by VP Bong Hoon Lee. He gave a brief presentation and reviewed the activities of the WGs under the Theme. He later presented the detailed analysis of the Theme ON-FARM during the IEC meeting.

**PCTA Minutes Item 9: Review of reports of the activities of Workbodies under the Strategy Theme – Knowledge (ST.K)****PCTA Minutes Item 9.1: Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST)**

33. Dr. Kamran Emami, Chair of the WG presented the report of the meeting of the WG. The WG will be finalizing its publication on 'Historical Water Sustainability' in early 2017 and also organize a workshop on the same topic at Mexico in 2017. The WG organized a Side Event on 'History of Irrigation and Drainage around the World' and history exhibition with participation from CNCID, JACID and KCID during WIF2 besides being involved in HIS. The WG was requested to get closely associated with the World Water System Heritage Program, which is being spearheaded by ICID in close collaboration with WWC. PCTA agreed that one member from the WG-HIST should be included in the TAC of WSH.

34. The WG prepared a closure report and has developed a mandate for a new history WG. The PCTA observed that the new mandate should be circulated among the NCs.

**PCTA Minutes Item 9.2: Working Group on Capacity Development, Training and Education (WG-CDTE)**

35. VP Prof. Dr. Abdelhafid Debbarh, Chair of the WG presented the report of the first meeting of the WG-CDTE and informed that the WG will provide support to the activities of the TSU mainly in terms of capacity building, training and education of the professionals in the area of Agricultural Water Management. The WG welcomed the proposal of ICID Central Office to develop a collaboration with Asian Institute of Technology (AIT-Thailand) in the domain of CDTE in AWM. The WG will seek further in-depth discussions with AIT to define the topics and modalities of collaboration.

**PCTA Minutes Item 9.3: Task Force to Guide ICID Inputs to World Water Forum 8 (TF-WWF8)**

36. VPH Felix Reinders presented the report of the meeting of TF on behalf of PH Dr. Chandra Madramootoo, Chair of the TF and briefed about the topics of WWF8 and the role of ICID in the Forum. ICID will collaborate with FAO and IWMI on the joint coordination of the topic 'Water for Food Security'. In order to seek broader engagement of Latin America irrigation and drainage professionals and decision makers in water for food security, it was proposed to organize a 'Americas Session' during the Mexico meetings in 2017. The TF identified several areas for ICID contributions to the Forum.

**PCTA Minutes Item 9.4: Task Force on Value Engineering (TF-VE)**

37. Dr. Kamran Emami, Chair of the TF presented the report and informed that since promoting VE in ICID would need more time so TF recommended the formation of a new working group on VE as term of TF has come to an end. TF Chair also informed that he will prepare its closure report and submit to ICID CO. PCTA suggested that the scoping document with the mandate for the new WG and the potential collaboration with International Partners may be prepared. TF Chair agreed to present the scoping document by the next meeting at Mexico City in 2017 after circulation among the NCs and seeking their interest and nominations for the membership.

**PCTA Minutes Item 9.5: Committee on Public Relations and Publications (C-PR&P)**

38. VPH Mr. Larry D. Stephens, Chair of the Committee presented the report of the meeting of the Committee. The Committee recommended that a report summarizing the WatSave award winners be prepared by relevant PCTA work bodies. The Committee also reviewed the Irrigation and Drainage Products and Services Directory on the ICID website. The Committee was informed that organizations and companies can be included in the Directory at no charge by completing an online form. C-PR&P urged National Committees to inform organizations and companies within their countries about this opportunity.

**PCTA Minutes Item 9.6: ICID Journal Editorial Board (EB-JOUR)**

39. PH Prof. Dr. Bart Schultz, Chair of the EB-JOUR presented the report of the meeting of the Editorial Board of the Journal. The EB proposed to devote one issue of IRD to the ICID Action Plan with invited papers. The EB recommended the comments made by Prof. Daniele de Wrachien to be included as a preamble in the Action Plan 2030. It was informed that only about 1/3rd of the papers submitted for the journal were accepted. The Journal is now available in more than 10,000 libraries. The Impact factor for the Journal was 0.561 in 2015. During 2017, the Board will work with Wiley, the publisher, to reach a new agreement for the period beginning in 2018. Dr. Poolad Karimi (Iran) was recommended to be the Associate Editor of the EB-JOUR.

**PCTA Minutes Item 9.7: Synthesis report of Co-Theme Leaders of ST Knowledge**

40. No synthesis report was presented.

**PCTA Minutes Item 10: Review of reports of the activities of Workbodies under the Strategy Theme – Schemes (ST.S)****PCTA Minutes Item 10.1: Working Group on Sustainable Drainage (WG-SDRG)**

41. Mr. Bernard Vincent, Chair of the WG presented the report of the meeting of the WG-SDG and informed that the WG held an internal workshop during the Chiang Mai meeting where papers on bio-drainage, dry drainage, and controlled drainage were presented. It was pointed out that the acronym of the Group WG-SDG is misleading and gives the impression that it deals with Sustainable Development Goals (known popularly as SDG) and needs to be changed. PCTA recommended that the acronym WG-SDRG may be used instead.

**PCTA Minutes Item 10.2: Working Group on Institutional Aspects of Irrigation/Drainage System (WG-IOA)**

42. VPH Dr. Hafied A. Gany, Chair of the WG presented the report of the meeting of the WG-IOA and informed that WG is preparing a three-year and six-year work plans. WG Chair also informed that WG plans to provide technical lead in organising the Symposium on 'Global Review of Institutional Reform in Irrigation Sector for Sustainable Agriculture Water Management, including WUA' as part of 23<sup>rd</sup> Congress on the theme. Country papers would be invited from NCs covering the following topics:

- **Topic – 1:** Legal Framework and organizational structure including WUA for Water Supply Services;
- **Topic – 2:** Participatory Irrigation Management and Management Transfer -- Approaches and condition for successful PIDM; and
- **Topic – 3:** Public – Private – Partnership (PPPs) in Irrigation and drainage operation and maintenance toward sustainable irrigated agricultural water management.

**PCTA Minutes Item 10.3: Working Group on Modernization & Revitalization of Irrigation Schemes (WG- M&R)**

43. VP Ian Makin, Chair of the WG presented the report of the meeting of the WG-M&R and informed that the WG organized a Side Event during WIF2 on 'Developments in Irrigation and Modernization.' The WG is developing a definition of Modernization, and the proposed definition is 'Modernization is the process of upgrading infrastructure, operations and management of irrigation systems to sustain the water delivery service requirements of farmers and optimize production and water productivity.' The WG will solicit comments on the definition towards its finalization and will provide final definition to the ICID Central Office for distribution to the national committees.

**PCTA Minutes Item 10.4: Working Group on Water Saving in Irrigated Areas (WG-WATS)**

44. Mr. Mehrzad Ehsani, Chair of the WG presented the report of the meeting of the WG-WATS and informed that the WG developed their inputs to Draft ICID Action Plan 2030. WG Chair further informed that the WG will develop a Side Event or Symposium on 'Water Savings' during the IEC Meeting at Mexico City in 2017.

**PCTA Minutes Item 10.5: Working Group on Irrigation, Development and Management (WG-IDM)**

45. Ms. Mary Jean Gabriel, the new Chair of the WG presented the report of the first meeting of the WG-IDM and informed that after detailed discussions, WG has finalized scoping document with the revised mandate (See WG-IDM Minutes, Appendix XIX, page 181). WG Chair further informed that the final goal of the WG is to bring out a Guideline on the 'Water balance approach in irrigation systems' at the completion of the WG mandate. The WG also recommended that a workbody on 'Groundwater' be established.

**PCTA Minutes Item 10.6: Synthesis Report by Co-Theme Leaders on ST Schemes**

46. VP Ian William Makin presented the Synthesis Report. He noted that the WGs need to make new efforts to make the WG meetings interesting to outsiders and new members as was already pointed out by VP Charlotte in her presentation under Synthesis Report of ST Basin.

**PCTA Minutes Item 11: Newly Proposed Workbodies****PCTA Minutes Item 11.1: Working Group on Groundwater Irrigation**

47. PCTA initially accepted in principle the proposal for the creation of a new workbody on 'Groundwater' as an outcome of the 26<sup>th</sup> European Regional Conference and suggested that a scoping document for a WG on Groundwater Irrigation be prepared. Since there were no volunteers to move the topic forward and no Scoping Document was prepared, after discussions, PCTA decided that the groundwater issue will form part of the WG-IDM (refer **Annex R2.2, page 20** for revised mandate of WG-IDM).

**PCTA Minutes Item 12: Report on the outcome of WIF2**

48. THAICID representative presented a detailed report on the results and outcome of WIF2. He also presented the WIF2 Statement released during the Wrap-up Session of WIF2 which is placed at **Annex** to the Report of the Committee.

49. PCTA Chairman VPH Reinders thanked the Thailand National Committee for their outstanding work in the organization of WIF2. VPH Felix emphasized the need to recognize the recommendations (**Annex R2.3, page 21**) made by the Ministerial Roundtable on 'Delivering SDG's through Agriculture Water Management' held on 06 November 2016, to set up a High Level Advisory Group on "Partnerships for Agriculture Water Management" and also to establish a dedicated Task Force to provide support to the High Level Advisory Group. PCTA supported the view of PCTA Chair and recommended to the Council for its approval.

**PCTA Minutes Item 13: Report of the Sub-Committee on Themes, Topics and Work Plans of future ICID Events (SC-E-THEMES)**

50. PH Bart Schultz, Chair of SC-E-THEMES presented the report of the Sub-Committee. Based on the report, PCTA recommended to the Council that the revised composition and mandate of SC-E-THEMES as given below and its report suggesting a permanent mechanism for formulating themes and topics for various ICID events be accepted (**Annex R2.1, Page 19**).

*Composition:*

- (1) Technical Experts – one each drawn from ITAC for immediate past and future WIF and Congresses, within a span of six years.
- (2) Two Experts nominated by PCTA.
- (3) Three Experts drawn from Technical Workbodies of ICID
- (4) Chairperson of SC will be nominated from amongst the members, by the President in consultation with Secretary General.
- (5) The membership will be for a maximum of six years and the nominee of ITAC of past Event will be a member for two years after the conclusion of that particular event.
- (6) The membership shall not exceed more than 10 members.

*Mandate:*

- (a) To deliberate and recommend the Themes, sub-themes and Work plans of future Congresses and World Irrigation Forums
- (b) To set out format and technical contents of the Congress and WIFs
- (c) To recommend to PCTA the topics of the two Questions and the optimal program for the Congress,
- (d) To review the technical outputs and outcomes and suggest follow ups

51. PCTA approved the recommendation of SC-E-THEMES that the 'Short Communication' be renamed as 'Innovative Products and Services' in future WIFs while the events related to the themes of WIF/Congress will be organized under the banner 'Supporting Event'. The events which are not related to themes of WIF/Congress will be termed as 'Side Event'. The Committee further recommended that Guidelines for the organization of World Irrigation Forum be prepared as has been developed for ICID Congress, in view of the above proposed changes.

52. PCTA was informed that Dr. Warren Helguson of CANCID, presented the themes and topics for the Regional Conference to be held in Saskatoon during the 69<sup>th</sup> IEC Meeting which were reviewed by the Sub-Committee. The proposed Theme is 'Innovative and Sustainable Agri-Water Management: Adapting to a Variable and Changing Climate.' The proposed sub-themes are (a) Competing Water Demands, (b) Resilient Agriculture and (c) Irrigation in Perspective. PCTA recommended that the theme and sub-themes for Regional Conference during 69<sup>th</sup> IEC at Saskatoon be approved.

**PCTA Minutes Item 14: Technical Support Unit (TSU) in ICID – An Update**

53. The Committee was informed that Technical Support Unit (TSU) has been established at ICID Central Office as per 66<sup>th</sup> IEC decision (Resolution IEC-3/66, Para 7). The establishment of TSU has been notified to NCs on 4 January 2016 (**IEC Agenda Item 14, Annex 3, Page 11**), requesting NCs to nominate experts, giving the terms of reference for engaging them as part of TSU program together with application form. Secretary General requested the NCs to nominate volunteers to the TSU.

**PCTA Minutes Item 15: Any other business**

54. Mr. Amit Parashar, Australia gave a presentation on the Water Cloud facility that is being developed by CSIRO. As the product being developed directly addresses the needs of developing countries who are particularly handicapped with lack of water resources data, this product will help them easily access the global and satellite data available and use simple modelling tools for quick assessment of resources and their planning at a feasibility level. CSIRO sought cooperation with ICID members in furthering the use of this tool.

55. PCTA Chairman Mr. Felix Reinders informed that his term as Chair of PCTA has ended and thanked the Committee and all the WG members for their support during his term as Chairman. He announced that Vice President Dr. Ding Kunlun will take over the Chairmanship, subject to approval by the Council.

56. PH Peter Lee, on behalf of the Committee thanked the outgoing Chair and Mr. Stevens for their excellent work as Chair and Secretary of PCTA.





## Annex to Appendix III [Item 12, Para 48]

## FORUM STATEMENT



**6-8 November 2016, Chiang Mai, Thailand**

Second World Irrigation Forum (WIF2) was held from 6 to 8 November 2016 in Chiang Mai, Thailand. The Forum was organized by the International Commission of Irrigation and Drainage (ICID) and the Thailand National ICID Committee (THAICID) in cooperation with a number of International and National Partners that brought together representatives of various stakeholders involved in irrigation of all types at all scales. About 1200 participants from 71 countries, 10 International Organizations and 9 Ministers attended the Forum.

The main theme **'Water Management in a Changing World: Role of Irrigation for Sustainable Food Production'** recognizes that The world's population is growing rapidly and is expected to reach about 9 billion by 2050, mostly living in urban areas, which pose challenges in meeting the sharply growing water, food and energy demands. In order to feed this growing population it is estimated that agricultural production needs to be increased by about 70 % globally and by as much as 100 % in developing countries. It is likely that increased food production will have to be achieved with a reducing share of water for agriculture due to competition from other sectors including uncertainty due to climate change and variability. This calls for growing more with less water in a sustainable manner. New ways to grow food in ecologically and ethically responsible manners and expansion of irrigation to previously rainfed areas, along with supply and demand side management options will play a significant role in achieving this goal.

The key to sustainable development of irrigated agriculture in the changing environment and the on-going rural transformation lies around modernization of irrigation systems and related services to improve water use efficiency; improving water and land productivity supported by financial mechanisms; reform of management institutions; adoption of efficient water management techniques including recycling and reuse of waste water; use of modern technologies; increasing awareness about water scarcity and capacity development of service providers and farmers etc. with participation of all the stakeholders (public and private sector, academic and research institutions, industry, civil society, farmers' and their organizations etc.).

Within the context of the Main theme, more than 183 papers, short communications and posters were presented and discussed under three Sub-themes: (1) Key issues of irrigation and drainage in balancing water, food, energy and ecology; (2) Management of climatic extremes with focus on floods and droughts; (3) Key and smart actions to alleviate hunger and poverty through irrigation and drainage. In addition to the thematic sessions there were 17 Side events and an Exhibition.

A WIF first was the round table Ministerial meeting where Ministers from Bhutan, Cambodia, China, Ethiopia, Indonesia, Laos, Nepal, Pakistan, Sudan participating in the Second World Irrigation Forum, hosted by the Kingdom of Thailand, under the chairmanship of Honourable Minister of Agriculture and Cooperatives of Thailand, made a press release based on their deliberations on 6th November 2016. They agreed to establish a High Level Advisory Group on **"Partnerships for Agriculture Water Management"** as an action-oriented multi-stakeholder partnership. The objective is to support member countries in achieving the Sustainable Development Goals (SDGs) and share experiences in implementation of targets related to agriculture water management which is key to both water and food security. It will also support the UN System efforts in monitoring the progress on related SDGs. The partnership will advocate strong policy support for higher investments in Agriculture Water Management (AWM) to ensure food and water security.

As a result of the presentations and discussions at the World Irrigation Forum, the following statements were agreed:

1. The great challenge for the coming decades will be to increase food production with fewer resources -water, soil, energy, and biodiversity.
2. In order to foster sustainable development, it is essential to maintain the balance between water, energy, food, and ecosystem services.
3. The issues that irrigation and drainage sector is facing are (a) safeguarding resource availability and its quality when designing new systems, (b) the operation and maintenance of existing systems and in turn their impact on resources and the environments that hold them, and (c) the stakeholder interaction and participation that lead to the governance of the systems and their underlying resources.
4. The future challenges require unconventional thinking and solutions. Thinking within the water-energy-ecosystem-food nexus framework with water resources at its heart is essential.

5. Increasing water supply to meet the future demand requires a more efficient water use, use of non-conventional water resources, and water harvesting.
6. Sustainability can only be achieved within a complete water chain approach and with full stakeholder involvement from start to end and from farmer to minister.
7. We need to adopt a more integrated holistic approach to understand and sustainably manage resources with the aim to produce more from less “more crop per drop per kilowatt” without hampering natural ecosystem services.
8. Climate change is recognized as one of the most serious and urgent issue for human society and global environment. In the context of agriculture, improving irrigation and drainage systems and rural development will play a key role in achieving the rural water and food security under impending climate change, especially in the developing countries.
9. To reduce the disaster risks, the global and local society or community need to assess the magnitudes, frequencies, and variabilities of weather and climate events; the exposure of the society for these events; and the vulnerability of the region and society to these extremes.
10. Under the given uncertainties in climate change impact projections, improving resilience by reinforcing the capability of societies to better cope with the extreme events is one of the most favoured approaches.
11. In the pursuit of information to support the policies and actions to alleviate hunger and poverty from a perspective of the role and impacts of irrigation and drainage, correlation must be provided between water scarcity, community and poverty.
12. One of the main goals of the international community is to eliminate hunger and poverty and in this perspective, through the Millennium Development Goals much progress has been achieved and evidence obtained. Sustainable Development Goals and various United Nations and other initiatives, intend to move forward this agenda by making it a part of the broader development frameworks.
13. The important elements of irrigation and drainage that affect the alleviation of hunger and poverty can be grouped into governance, rights-based development, water rights and pricing, management, efficiency improvement, and role of technology.
14. Both the potential and the need to make use of innovative technology and solutions in irrigation are underlined and these can be used to cater the challenges in different sub-sectors with focus on maximizing productivity and efficiency, reducing water losses, achieving sustainable intensification and managing demands on water resources and the associated trade-offs.

