

Report of the 39th Meeting of the
PERMANENT COMMITTEE FOR TECHNICAL ACTIVITIES (PCTA)
 06 September 2019, 09.00-18.15 hours
 Bali, Indonesia

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. Ding Kunlun, Chairman (China, 2015); (2) President Hon. Mr. Peter S. Lee (UK, 2013); (3) Vice President Hon. Mr. Chaiwat Prechawit (Thailand, 2014); (4) Vice President Hon. Dr. Mohamed Abd-El-Moneim Wahba (Egypt, 2015); (5) Mr. Ali Reza Salamat (Iran, 2015); (6) Dr. Tsugihiko Watanabe (Japan, 2018); (7) VP Dr. Brian T. Wahlin (USA, 2018) and (8) Er. Ashwin B. Pandya, Secretary General, ICID

Ex-Officio Members Present: (i) VP Er. Naoki Hayashida (Japan), Co-Theme Leader, Strategy Theme – Basin; (ii) VP Dr. Kamran Emami (Iran), Co-Theme Leader, Strategy Theme – Basin; (iii) VP Mr. Waseem Nazir (Pakistan), Co-Theme Leader, Strategy Theme – Knowledge; (iv) VP Dr. Brian T. Wahlin (USA), Co-Theme Leader, Strategy Theme – Knowledge; (v) VP Irene G. Bondarik (Russia), Co-Theme Leader, Strategy Theme – Schemes; (vi) VP Dr. Marco Arcieri (Italy), Co-Theme Leader, Strategy Theme – Schemes; (vii) VP Mr. Ahmed El-Bouari (Morocco), Co-Theme Leader, Strategy Theme – Schemes; (viii) VP Er. Madhav Belbase (Nepal), Co-Theme Leader, Strategy Theme – On-Farm; (ix) VP Dr. K. Yella Reddy (India), Co-Theme Leader, Strategy Theme – On-Farm; (x) Dr. Tsugihiko Watanabe (Japan), Chair, WG-CLIMATE; (xi) Dr. Shukhrat Mukhamedjanov (Uzbekistan), Chair, WG-IDSST; (xii) Mr. Michael van der Laan (South Africa) representing Chair, WG-ENV; (xiii) Mr. Clarke Ballard (Australia) representing Chair, WG-MWSCD; (xiv) Dr. Ruey-Chy Kao (Chinese Taipei), Chair, WG-SDTA; (xv) PH Prof. Bart Schultz (The Netherlands), Chair, EB-JOUR; (xvi) PH Dr. Saeed Nairizi (Iran), Chair, TF-WWF9; (xvii) VP Dr. Kamran Emami (Iran), Chair, WG-VE; (xviii) Dr. A.K. Randev, Chair, WG-SON-FARM; (xix) VPH Dr. Ragab Ragab (UK), Chair, WG-WATER & CROP; (xx) Ms. Mary Jean M. Gabriel (South Africa), Chair, WG-IDM; (xxi) VPH Dr. Hafied Gany (Indonesia), Chair, WG-IOA; (xxii) VPH Mr. Ian Makin (UK), Chair, WG-M&R; (xxiii) Mr. Geoff Harvey (Australia), Chair, WG-RWH; (xxiv) Mr. Bernard Vincent (France), Chair, WG-SDRG and (xxv) Mr. Mehrzad Ehsani (Iran), Chair, WG-WATS.

Observers: (i) President Felix B. Reinders (South Africa); (ii) PH Dr. Dr. Chandra A. Madramootoo (Canada); (iii) VPH Mr. Larry D. Stephens (USA); (iv) VPH Laurie Tollefson (Canada); (v) Dr. Shavkat Khamraev (Uzbekistan); (vi) Mr. Karshiyev Rustam Djurayevich (Uzbekistan); (vii) Mr. Akhmadjonov Vokhidjon Mukhammadjonovich (Uzbekistan); (viii) Mr. Akromov Isomiddin (Uzbekistan); (ix) Mr. Kurbonov Shamsiddin Madaminovich (Uzbekistan); (x) Mr. Burhanjonov Birodar (Uzbekistan); (xi) Mr. Maurice Roos (USA); (xii) Mr. Garantigui Traore (Mali); (xiii) Mr. Naseer Ahmad Fayez (Afghanistan); (xiv) Mr. Kenji Morita (Japan); (xv) Mr. Kenji Miyagawa (Japan); (xvi) Mr. Shin Takano (Japan); (xvii) Mr. Mamoru Watanabe (Japan); (xviii) Mr. Yosuke Kitagawa (Japan); (xix) Mr. Salar Akbar (Afghanistan); (xx) Mr. Rahmatullah (Afghanistan); (xxi) Mr. Hafeezullah Hashimi (Afghanistan); (xxii) Mr. Najumuddin Najum (Afghanistan); (xxiii) Mr. Christy Omeno Oduh (Nigeria); (xxiv) Dr. Mochammad Amron (Indonesia); (xxv) Mr. Peter Chen (Taiwan); (xxvi) Mr. Rizal Siregar (Indonesia); (xxvii) Mr. Bashu Dev Lohane (Nepal); (xxviii) Ms. Mona Liza F. Delos Reyes (Philippines); (xxix) Mr. Lutfulla Khaknazarovich Mukhamednazarov (Uzbekistan); (xxx) Mr. K.P. Bakshi (India); (xxxi) Ms. Sharon Rose S. Baiza (Philippines); (xxxii) Mr. Fuad Alshikh Mubarak (Saudi Arabia); (xxxiii) Ir. Slamet Budhi (Indonesia); (xxxiv) Ir. Deo Sukardi (Indonesia); (xxxv) Mr. Ryu, Jeon Yong (Korea) and (xxxvi) Ir. Zeinab H. Behairy (Egypt).

PCTA Minutes Item 1: Presentation/Lecture by an Expert

1. It was proposed to have a presentation on “Basin Futures”, a web based software utility developed for basin simulation for policy support, by CSIRO, a collaborative partner of ICID. However, CSIRO Australia Team could not make the presentation as scheduled, owing to engagements elsewhere and expressed their apologies for the same to the Committee.

PCTA Minutes Item 2: ATR on the minutes of the 38th Meeting of PCTA

2. The Committee noted with satisfaction the ATR on the minutes of the 38th meeting of PCTA.

PCTA Minutes Item 3: Membership of the PCTA and Workbodies

3. PCTA considered the proposals for its membership and for the membership of various workbodies associated with it and recommended for their approval by the Council as given in **Annex 4, page 27**.

4. The Committee noted that PH Peter S Lee will be retiring from PCTA on completion of his tenure. The Committee placed on record their appreciation of the services rendered by PH Lee. It was recommended that VPH Ian Makin may be inducted as a member in the Committee.

PCTA Minutes Item 4: Road Map to ICID Vision 2030: Review of the Action Plan 2017-2021

5. The Committee felt that Vision 2030 activities need not remain confined to the deliberations inside the WGs, but needs to grow outside WGs by involving the other agencies and organizations. This will help in promoting and keeping the vision 2030 in focus in larger communities and groups.

6. Strategy Theme Leaders opined that number of parallel sessions may be reduced to the extent possible to allow the members to engage with multiple subjects in different WGs. For this purpose, shorter WG meetings and Regional Working Group meetings can be considered, with joint workshops be encouraged. For this purpose, the WGs have to engage more over the web-ex platforms for transacting the maximum amount of internal works.

PCTA Minutes Item 5: International Research Program for Irrigation and Drainage (IRPID) Scheme

7. The Committee noted with satisfaction that the efforts are in progress for the establishment of Mediterranean and North African Regional Nodes under IRPID Scheme. However, due to constraints of individual members, it has been decided that North African RN will be hosted by the Moroccan NC, for which the concerned National Committees have agreed. Italian NC is continuing its efforts for generating resources for the establishment of the proposed Mediterranean RN and mobilizing the associated countries for the same.

PCTA Minutes Item 6: Independent Service Unit (ISU) – Relevance to ICID Mission

8. The issue has been already discussed in PFC and the Committee noted the presentation made for informing its members about technical aspects of the program, over and above the associated phases and strategies for the implementation of the Program.

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 Adaptive Flood Management (WG-AFM)**

9. Dr. Kamran Emami, the Chair of the WG presented the report and informed that it was decided to include some case studies such as (i) a report on SMART tunnel (Malaysia); (ii) a report on the latest status of flood management in Thailand in the aftermath of 2011 floods; (iii) a report on devastating flood in Iran (2019) and (iv) a report on the latest status of flood management in Pakistan in the aftermath of 2010 floods, in the WG's publication on 'Adaptive Flood Risk Management', viz. and the case studies will be provided by the members from respective countries. The Committee noted with satisfaction the report on the activities of the WG.

PCTA Minutes Item 7.2: Working Group on Climate Change and Agricultural Water Management (WG-CLIMATE)

10. Dr. Tsugihiko Watanabe, Chair of the WG presented the report. The Committee noted that the WG organized two virtual meetings in March and August 2019 and recommended that other WGs may follow the practice. The Committee also noted that the WG organized an International Workshop on Innovation of Developing the Strategy for Impact Assessment of and Adaptation to the Climate Change on 01 September 2019 at Bali.

11. The WG proposed to publish a "Guide to Innovated Irrigation and Drainage Management under the Changing Climate" (tentative title) as the outcome of the WG activities and the first draft will be discussed during the meeting of the WG in Sydney in 2020. The Committee recommended for its approval.

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

12. Mr. Michael van der Laan presented the WG report on behalf of the Chair. The WG is planning to hold a webinar during the first half of 2020 and organize a Workshop on “Ecosystem Services of Irrigation and Drainage Systems” in Australia in 2020

PCTA Minutes Item 7.4: Working Group on Irrigation and Drainage in States Under Socio-Economic Transformation (WG-IDSST)

13. Dr. Shukhrat Mukhamedjanov, Chair, WG-IDSST presented the report. WG considered a work plan based on its new mandate and decided to hold virtual meetings of the WG twice a year, the first being scheduled in November 2019, so as to discuss various activities, including its work plan. The WG suggested to carry out work exchange experience of countries in implementing and developing IWRM, to which the Committee expressed its agreement.

PCTA Minutes Item 7.5: Working Group on Managing Water Scarcity under Conflicting Demands (WG-MWSCD)

14. Mr. Clarke Ballard presented the report of the WG in absence of its Chair, VPH Franklin E. Dimick. WG organized an Internal Workshop which was held on 5 September 2019 at Bali, where all six papers submitted were presented. The workshop was found to be useful and productive by the participants. WG will hold internal workshops every year to present papers for the area covered that year as reflected in the modified Road Map to ICID Vision 2030. The next internal workshop will accordingly be held during Sydney meetings of ICID next year.

PCTA Minutes Item 7.6: Working Group on Sustainable Development of Tidal Areas (WG-SDTA)

15. Dr. Ruey-Chy Kao, Chair of the WG presented the ‘Summary of Activities’ of the WG. The WG successfully organized an International Workshop on “Integrated Development of Tidal Areas – An Exchange of Expertise from Basin Perspective” on 01 September 2019 at Bali, where eight coastal countries have presented their full papers, besides others. Realizing the importance of improving coastal protection through tidal prediction and typhoon forecasting, a Workshop on the topic “Tidal Prediction and Typhoon Wave Model” is proposed to be organized in December 2019 in Chinese Taipei. The Committee noted that WG-SDTA had held two virtual meetings in 2018 and 2019.

PCTA Minutes Item 7.7: Task Team on Transboundary Water Management and Effect on Agriculture Water Management (TT-TWM-AWM)

16. Secretary General presented the report of the TT. The Committee noted the report and asked the TT to begin its activities at the earliest.

PCTA Minutes Item 7.8: Synthesis Report by Co-Theme Leaders of ST Basin [VP Er. Naoki Hayashida (Japan) & VP Dr. Kamran Emami (Iran)]

17. The Co-Theme Leaders presented their synthesis report and made the following observations

- (a) Generally, WGs are functioning quite well and productively. The activities of some WGs have been well managed and advanced according to the decisions of each WG made in the Bali meeting.
- (b) Overall, the attendance of members is good. But in some cases, this is limited. Poor attendance at the meetings and lack of contribution by the members will lead to reduced productivity and output.
- (c) WGs should promote the exchange of knowledge with other agriculture water management professionals by publishing the summary and outcomes in ICID NEWS.
- (d) WGs should clearly identify their output in a work plan which may include technical reports, position papers, special issues of Journal of Irrigation and Drainage, seminars (internal/international) etc., in accordance with the Action Plan of the Road Map to ICID Vision 2030.
- (e) More information and products of WGs should be sent to the central office so that they would be posted on the website and timely updated.
- (f) More WebEx meetings should be organized, at least once in a year.
- (g) Increased efforts to attract young professionals should be continued.

18. The Committee appreciated the synthesis report presented by Co-Theme Leader VP Hayashida and recommended that the observations made by the Co-Theme Leaders be put in to practice in letter and spirit.

PCTA Minutes Item 8: Review of reports of the activities of Workbodies under the Strategy Theme – Knowledge (ST.K)

PCTA Minutes Item 8.1: Working Group on Capacity Development, Training and Education (WG-CDTE)

15. As there was no report from the Chair/representative of WG-CDTE, the Committee recommended that the WG needs to be either wound up or reconstituted by induction of active members in order to have better participation in the WG meetings and contribution to its mandated activities.

PCTA Minutes Item 8.2: Working Group on History of Irrigation, Drainage and Flood Control (WG-HIST)

19. Dr. Kamran Emami, Chair of the WG presented the report and recommended that as suggested by PoJs for WHIS 2019, the number of entries per country may be restricted to four (4) in order to make the WHIS sustainable with high quality and prospective applications competitive. Accordingly, the WHIS Scheme may be revised.

20. The Committee considered the suggested modification in WHIS Scheme in terms of restricting the entries per country to four (4) and recommended to the Council for acceptance. Accordingly, the Committee asked the Central Office to revise the existing WHIS scheme adequately reflecting suggested changes in the entries per country up to four (4) and upload on ICID website and updates in respective documents such as Handbook of Procedures, etc.

PCTA Minutes Item 8.3: ICID Journal Editorial Board (EB-JOUR)

21. PH Prof. Dr. Bart Schultz, Chair of EB-JOUR in his report presented the progress about the circulation and impact factors for ICID Journal, which indicated growing popularity of the Journal. Noting the report, the Committee commended the efforts made by the Editorial Board under the leadership of PH Bart Schultz.

PCTA Minutes Item 8.4: Task Force for Updating and Maintenance of Multilingual Technical Dictionary (TF-MTD)

22. In TF-MTD report, auto-translate facility for MTD needs to be developed on the lines of a similar utility available with IWMI. The Committee asked the Central Office to take up further interactions with IWMI in the matter. It is suggested that once the English updation is completed, translation of the updated MTD in different languages can be considered by respective NCs facilitated by the Central Office.

PCTA Minutes Item 8.5: Task Force to Guide ICID Inputs to World Water Forum 9 (TF-WWF9)

23. PH Dr. Saeed Nairizi, Chair of the TF presented the report. While deliberating on the report, the Committee recommended better coordination with WWC Groups for providing richer participation from ICID in WWF9 and also to avoid clash of dates with 10th Micro Irrigation Conference and 72nd IEC in 2021 with WWF9.

PCTA Minutes Item 8.6: Working Group on Value Engineering (WG-VE)

24. The Chair of the WG-VE presented the report of its second meeting as its scoping document is yet to be developed as per the guidelines adopted vide IEC Resolution-2/63 for setting up of a new workbody or extension of an existing one with revised mandate. The Committee considered the report and recommended that the mandate of WG-VE needs to be updated to generate database on VE projects and publication of a book on VE needs to be taken up.

PCTA Minutes Item 8.7: Synthesis report of Co-Theme Leaders of ST Knowledge [VP Er. Waseem Nazir (Pakistan) & VP Dr. Brian T. Wahlin (USA)]

25. The Committee considered the report of the Co-Theme Leaders and noted with satisfaction.

PCTA Minutes Item 9: Review reports of the activities of Workbodies under the Strategy Theme – On-Farm (ST.OF)**PCTA Minutes Item 9.1: Working Group on Sustainable On-Farm Irrigation System Development (WG-SON-FARM)**

26. Dr. A.K. Randev, Chair of the WG presented the report and informed the Committee that two WG publications titled "Improvement of the On-Farm Irrigation systems Using Simple Water Control, Measuring and Application Devices" and "Micro Irrigation for smallholders and greenhouses", submitted by former Chair of the WG, President Felix Reinders, will be published at the earliest with the assistance of Central Office.

PCTA Minutes Item 9.2: Working Group on Water and Crops (WG-WATER&CROP)

27. VPH Dr. Ragab Ragab, Chair of the WG-WATER&CROP suggested that the Web-Ex meeting of the working group invites may be sent to other related WG members so as to allow them to participate in the meetings and enrich the proceedings by interaction. The Committee agreed with the suggestion of the WG Chair.

PCTA Minutes Item 9.3: Synthesis report of Co-Theme Leaders of ST On-Farm [VP Er. Madhav Belbase (Nepal) & VP Dr. K. Yella Reddy (India)]

28. Co-Theme Leaders presented their synthesis report and informed the Committee that the WGs under ST-On-Farm have been organizing activities as per their mandate and functioning well. The Co-Theme leaders recommended that given the variable tenures of the three WGs to bring out an expected output (guidelines/ position papers, technical reports etc.) in due course of time, it would be appropriate to extend the tenures of the WG-WATER & CROP (closing in 2019) and WG-SON-FARM (closing in 2022) to 2025 so as to be in concurrence with the closing of WG-NCWRI.

29. The Committee recommended that the respective Chairs of the WGs on WATER&CROP and SON-FARM may follow the procedures adopted by the Council for extending the duration of the workbodies beyond their mandated period and submit the scoping documents at the next meeting of the Committee for its consideration.

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 Irrigation, Development and Management (WG-IDM)**

30. Ms. Mary Jean M. Gabriel, Chair of the WG presented her report and informed that the WG is proposed to hold a virtual meeting in the coming year, with the cooperation of its members. The Chair will work with the Chair of the WG M&R, VPH Ian Makin to work on the updation of 'Operation, maintenance and management' section of MTD.

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

31. VPH Dr. Hafied A. Gany, Chair of the WG presented the report and informed that the WG is planning to bring out publications and a symposium in 2020 at Sydney Congress.

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

32. VP Ian Makin, Chair of the WG presented the report and informed the Committee that WG-M&R is proposing to induct more members from Nigeria as per their request keeping the membership guidelines in view. The papers are proposed to be submitted to IRD journal for publication and a soft publication is planned for dissemination through the web site. Proposals for internship opportunities for YPs through the companies were also discussed.

PCTA Minutes Item 10.4: Working Group on Rain Water Harvesting (WG-RWH)

33. Mr. Geoff Harvey, Chair of the WG in his presentation informed that the scope of the WG-RWH needs to be focused on capture of rain water in preference to usage aspect. A position paper collecting the experiences at various countries need be developed. The WG plans to have a virtual meeting in the last quarter of 2019. The Committee suggested that the WG should have a diversified membership.

PCTA Minutes Item 10.5: Working Group on Sustainable Drainage Management (WG-SDRG)

34. Mr. Bernard Vincent, Chair of the WG presented the report. WG-SDRG is planning to hold next Drainage Workshop in Canada/ USA in consultation with the concerned NCs. Flood management and Urban Drainage are required to be included in the scope of the WG. Design of control structures also needs to be considered for the agenda of the WG.

35. The Chair also presented the report on the completion of the mandate of the WG. Considering the importance of the topic Drainage, the Committee recommended for the extension of the tenure of the WG up to 2020. The WG may develop a Scoping Document for the new WG with revised mandate and present it at the next IEC meeting, with at least 10 National Committees agree to support its activities by nominating experts to participate in the activities of the WG.

PCTA Minutes Item 10.6: Working Group on Water Saving in Irrigated Areas (WG-WATS)

36. Mr. Mehrzad Ehsani, Chair of the WG presented the report. The group is in the process of preparing a technical book on 'Water charging policies and mechanism to analyze the effect of water charges on water saving in agriculture'. The Chair informed that Ms. Mu. Jianxin (China) will prepare a brief write-up and coordinate for organizing an internal WG workshop during the next ICID meeting in Sydney in 2020. VPH Dr. Gerhard Backeberg and Dr. Joe Stevens (South Africa) will draft a paper based on the South African experience and would table the final paper on South African case study.

PCTA Minutes Item 10.7: Synthesis Report by Co-Theme Leaders on ST Schemes [VP Dr. (Mrs.) Irene Bondarik (Russia), VP Dr. Marco Arcieri (Italy) & VP Er. Ahmed El-Bouari (Morocco)]

37. The Co-Theme Leaders of ST-Schemes presented their synthesis report which was noted with satisfaction by the Committee.

PCTA Minutes Item 11: Newly Proposed Workbodies

38. The Committee asked the WG-VE to develop a scoping document as per the guidelines laid down by 63rd IEC meeting in 2012 vide its Resolution-2/63 for setting up of a new workbody or extension of an existing one with revised mandate. The Committee recommended the establishment of WG-VE, subject to submission of the revised Scoping Document for getting support of at least 10 NCs to nominate experts from their countries to participate in the activities of the WG.

PCTA Minutes Item 12: Report on the outcome of WIF3

39. The INACID Representative presented the outcome of WIF3. It was informed that 1417 participants joined the Forum representing 53 countries. Also, six Hon'ble Ministers participated in the Forum and HLAG providing their views and suggestions of their respective countries. Many key parameters of organizational aspects were presented which will enrich the manual on the events and also help in future events. The Committee expressed pleasure at the successful organization of the Forum and commended the host NC for its excellent organization.

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

40. PH Dr. Gao Zhanyi, Chair of the Sub-Committee could not present the report of the meeting of the SC-E-THEMES as he had to leave the venue on account of urgent engagements elsewhere.

PCTA Minutes Item 14: Any other business