

News Update

March 2019

A Water Secure World Free of Poverty and Hunger through Sustainable Rural Development



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From Secretary General's Desk...

Dear Colleagues,

As 2019 picks up its pace, so do ICID, its National Committees and Young Professionals forum (YPeF). IRPID-IRN successfully organized a three-day International workshop on Water Accounting in late February with technical support from ICID and FAO. ICID's Technical Support Program facilitated the participation of Dr. Amgad Elmahdi from Australia as a resource person in the workshop that attracted more than 300 participants. I, congratulate IRPID-IRN colleagues for making it a highly successful technical event. ICID contributed to the workshop by disseminating the printed copies of its position paper on 'Water Accounting as a Sustainable Agricultural Water Management Framework, 2019' among the participants.



Similarly, next month ICID in collaboration with ICID and CNCID will be organizing an International Training Program (YP-TP) from 22-26 April 2019 on "Climate Resilient Smart Irrigation Systems" for Young Professionals from around 22 countries followed by an International Workshop in Korea. ICID President Felix Reinders and several Vice Presidents have confirmed their availability to these events. Expert resource persons from various countries are also invited to assist the Korean experts in delivering the training sessions and deliberate during the workshop. Around 200 delegates are expected to be a part of the program-cum-training workshop.

Last week, I participated in the 4th India Water Forum organized by The Energy and Resources Institute (TERI) in New Delhi, India and was attended by senior policymakers and industry experts to address the issues surrounding growing water scarcity in a fast-changing climate. A multi-stakeholder, multi-sectoral approach to water management in a holistic manner is emerging as a widely acceptable way forward.

ICID's Young Professionals e-Forum with its membership crossing 400 mark has been quite active in 2019 with the organization of a webinar on "Crop water productivity of wheat in Afghanistan" and two engaging e-Discussions on "Non-conventional water sources for irrigation" and "Solar-powered Irrigation Systems." I take this opportunity to urge all our young professionals to become a potent force in water sector by way of active contribution to ICID forums and events.

Finally, as we look forward to celebration of World Water Day 2019 on 22 March with an apt theme "Water for All – Leaving no one behind", I hope our cooperation with the National Committees, direct members and international partners in water resources and associated spheres will be further strengthened all over the world and throughout the coming year.

Best Wishes,

Ashwin B. Pandya
Secretary General

IRPID-IRN organizes International Training Workshop on Water Accounting

Ahwaz, Iran | 23-26 February 2019

The International Research Program for Irrigation and Drainage-Iran Regional Node (IRPID-IRN) affiliated to ICID successfully organized the "International Training Workshop on Water Accounting-Concepts and Tools" with the support of leading institutions and specialists from 23-26 February 2019 in Iran (23 February in Tehran; 24-26 February in Ahwaz).

The workshop -- first joint collaboration of FAO, ICID and IRPID-IRN -- aimed to introduce concepts and tools to a wide range of audiences including high-level decision-makers, academics and professionals in the water, agriculture and environmental sectors. The workshop witnessed a wide range of audiences including high-level decision-makers, academics and professionals in the water, agriculture and environmental sectors.

Renowned researchers and senior experts in the field of water accounting (WA) were invited from FAO, ICID,



IWMI and academia as speakers and instructors for the workshop. Hon'ble Deputy Minister of Water and Wastewater of Iran, Ghasem Taghi Zadeh Khamesi inaugurated the first day of the workshop held in Tehran. The second and third day was held in Ahwaz, Khuzestan province, one of the major water poles in Iran. Khuzestan Water and Power Authority (KWPA) hosted the workshop wherein Hon'ble Chairman and Managing Director of the Board, Farhad Izadjoo delivered a welcome address to the participants and appreciated the joint collaborative effort of FAO and ICID in organizing the workshop.

Highlights of the Issue

- IRPID-IRN organizes International Training Workshop on Water Accounting in Ahwaz, Iran | 23-26 February 2019
- SG Ashwin Pandya participates in 4th India Water Forum 2019 held in New Delhi, India | 5 - 6 March 2019
- UN declares 2021-2030 as Decade on Ecosystem Restoration
- World Water Day 2019: ICID joins bandwagon to promote 'Water for All-Leaving no one behind'
- Webinar Highlights: (i) Water Productivity of Wheat Crop in Afghanistan by Speaker Mr. Najumuddin (Afghanistan) | 28 February 2019; (ii) Moving towards Water Sustainable Agriculture (Hindi) by Speaker Dr. Sahdev Singh (ICID) | 15 February 2019
- YPeF Second e-Discussion held on Solar-Powered Irrigation System: Exploring Opportunities and Threats | 15 Feb-2 March 2019



Dr. Narges Zohrabi, Head of Iran Regional Node, IRPID-IRN and workshop organizer expressed her gratitude to discuss the concept of WA framework with specific focus on capacity building of the participants to implement water accounting for agricultural water management.

Several presentations were made by FAO and ICID representatives on the first and second day of the workshop. Dr. Amgad Elmahdi, as ICID resource person, described “Australian Water Reform and National Water Account.” He explained how Australia developed its water accounting model. Dr. Pasquale Steduto and Ms. Domitille Vallee from FAO explained the main concept of WA that provides valuable information for water resource planning and management. The concept is evolved as a means to a systematic approach, where the status of water resources, trends and links to socio-economic aspects further assist the policymakers in decision making process.

Dr. Banafsheh Zahraie, Director General, Office of Water Demand Management and Water and Wastewater Productivity Improvement, Ministry of Energy, Iran gave a presentation on “Actions and Activities Undertaken for Water Accounting and its Future Perspectives.” Additionally, the projects at Tarbiat Modares University on water accounting development based on SWAT modeling and WA+ were explained for two river basins in west Iran. On third day, train-the-experts session was held wherein 60 experts from various national organizations participated in the event.

A one-day program aimed to familiarize the participants on Rapid Water Accounting (RWA) through actual water accounting case studies was also held. Jiro Ariyama (FAO-RNE) and Husain Najafi (IRPID-IRN) were the main facilitators of the workshop.

Participants practiced to develop water budget correctly, differentiate between various types of water uses and learnt to identify uncertainties associated with water accounting calculations. Through case studies at different geographic scales, participants learnt the various differences in water accounting approaches dependent on the scale (farm and river basin).

More than 370 participants attended the workshop from Iran’s Ministry of Energy (MoE), KWPA, Iran Water Resources Management Company (IWRM), Iranian National Committee on Irrigation and Drainage (IRNCID), Khuzestan Regional Committee on Irrigation and Drainage (KRCID), Deputy Minister of Water and Soil Agriculture -Jahad, Soil and Water Deputy of Khuzestan Natural Resources, Agricultural Research Education and Extension Organization (AREEO), Jahad Agricultural Organization Of Khuzestan, Khuzestan Department of Environment, Ferdowsi University of Mashhad, Shahid Chamran University of Ahvaz, Tarbiat Modares University, Isfahan University of Technology, FAO, ICID, representatives of the Embassies of Netherlands, Sweden including delegates from IRPID-IRN member countries (Russia, Georgia and South Korea).

At the end of the workshop, all the participants filled in a feedback questionnaire to evaluate the training course that projected their increased awareness to WA concept and its application for water resources management and allocation. The training workshop was a success based on pre and post evaluation of the participants. Participants assessed themselves at the beginning of the workshop that highlighted 60% knew nothing about WA, 35% as beginners and 5% as moderate users of WA). At the end of the training, evaluations showed that

Water accounting seeks to provide comprehensive, consistent and comparable information related to water for policy and decision-making to promote sustainable use of water resources as well as equitable and transparent water governance among water users.

The WA workshop intended to:

- ❖ Introduce global experiences, international activities and state-of-the-art knowledge on water accounting.
- ❖ Discuss challenges in developing and implementing water accounting frameworks.
- ❖ Highlight the need to apply water accounting frameworks for efficient water resources management at different geographical scales (from farm to catchment).
- ❖ Draw the attention of decision-makers at the national level to the use of new concepts and tools for better water resource managements.

0% knew nothing about WA, 27% as beginners, 70% as moderate users of and 3% as advanced users. The results demonstrated the importance to create awareness among stakeholders, experts and managers about WA systems implemented worldwide and lessons learnt from international pilot projects.

A technical/cultural tour for the participants to Shushtar’s Historical Hydraulic Systems was held on 26 February 2019. The collection of mills and waterfalls in Shuster is one of the unique monuments that has been registered in the World Heritage List and reflects the ancient knowledge of water engineering and valuable information about its operation on water usage and storage during the time.

Presentations and booklet for the WA workshop are now available for download @ <http://irpid-iran.org/>



SG Ashwin Pandya participates in 4th India Water Forum 2019

The Energy and Resources Institute (TERI) in association with the Ministry of Water Resources River Development and Ganga Rejuvenation, Government of India organized the 4th India Water Forum (IWF) on the theme "Water for All: Options for Safe, Sustainable and Resilient Future" from 5-6 March 2019 in New Delhi, India.

The 4th IWF provided a platform to highlight current and future water related issues and recognize good water governance practices and solutions through discussions among water experts from various fields such as academia, research, policy, industry and civic society. It aimed to attract diverse perspectives on issues related to ensuring water security for billions of people in India and South Asia.

The international water convention discussed the broad aim of sharing knowledge on water resources management, facilitating water for all in a safe and sustainable way towards achieving SDG 6 (Clean Water and Sanitation). A special session entitled "Policy Framework for Achievement of SDGs" deliberated upon regulatory and policy framework required to facilitate the achievement of SDGs.

During the keynote session, Mr U.P. Singh, Secretary, Ministry of Water



Resources, River Development & Ganga Rejuvenation, Government of India stated "India's key challenge is of water resource management, not of water availability. Now there is not much scope of building more large and medium dams, but there is an urgent need for groundwater recharge."

In his welcome address, Dr. S K Sarkar, Senior Director, TERI expressed that there is a perception, not just in India but most of South Asia, that the water supplied by the utility is not good enough. It is a perception problem that the trust in piped water is rather low. In developed countries, it is just opposite.

Secretary General A.B Pandya chaired the session on "Ensuring water security through enhancing efficiencies and advocating conservation." He expressed his views on achieving SDG 6 with government and private stakeholders. SG Pandya underlined that the challenge for water management is primarily due

to less water in river basins which are already stressed, necessitating stricter scrutiny by decision makers and civil society. He reiterated that management of water resources and river basins must ensure functioning of the ecosystem as a paramount goal.

Presentations during the session were given by panellists Dr. Anju Gaur, Senior Water Specialist, World Bank; Dr. Alok Sikka, IWMI Representative-India, International Water Management Institute, Mr. Anshuman, Associate Director, TERI and Mr. Surinder Makhija, Strategic Advisor, Jain Irrigation Systems Ltd. deliberating and sharing their experiences on the topic.

A booklet entitled 'Facilitating Water for All' - a compilation of key outcomes and learning from TERI's high impact projects in the water sector was also released during the Forum. In his concluding remarks, Dr. Ajay Mathur, Director General, TERI thanked all the dignitaries and participants for their thought-provoking discussions on providing water for all. Multi stakeholders deliberated on options for a safe, sustainable and resilient future from the lens of water access, quality and availability.

UN declares 2021-2030 as Decade on Ecosystem Restoration

On 1 March 2019, the United Nations declared 2021-2030 the Decade on Ecosystem Restoration, a landmark decision to accelerate efforts to bring degraded landscapes back to health worldwide. The aim is to massively scale-up the restoration of degraded and destroyed ecosystems as a proven measure to fight the climate crisis and enhance food security, water supply and biodiversity. This global recognition comes after growing calls and commitments by the international community to put ecological restoration at the forefront of national agendas.

The UN Decade on Ecosystem Restoration is both urgently needed and globally appreciated which makes the promise of restoration clear: "Restoration of 350 million hectares of degraded land between now and 2030 could generate USD 9 trillion in ecosystem services and take an additional 13-26 gigatons of greenhouse gases out of the atmosphere."

Mr José Graziano da Silva, FAO Director-General said: "The UN Decade on

Ecosystem Restoration will help countries race against the impacts of climate change and biodiversity loss." Ecosystem restoration is defined as a process of reversing the degradation of ecosystems, such as landscapes, lakes and oceans to regain their ecological functionality; in other words, to improve the productivity and capacity of ecosystems to meet the needs of society. This could be done by allowing the natural regeneration of overexploited ecosystems, for example, or by planting trees and other plants.

Ecosystem restoration is fundamental to achieving the Sustainable Development Goals (SDGs), mainly those on climate change, poverty eradication, food security, water and biodiversity conservation. The UN Decade on Ecosystem Restoration stresses that ecosystem restoration and conservation contribute to the implementation of the 2030 Agenda for Sustainable Development, as well as other related UN endeavours, such as the Paris Agreement on climate change.



Currently, about 20 per cent of the planet's vegetated surface shows declining trends in productivity with fertility losses linked to erosion, depletion and pollution in most places. By 2050, degradation and climate change could reduce crop yields by 10 percent globally and by up to 50 percent in certain regions.

The statement noted that the Decade would accelerate existing global restoration goals, for example the Bonn Challenge, which aims to restore

350 million hectares of degraded ecosystems by 2030 - an area almost the size of India. Currently, 57 countries, sub-national governments and private organisations had committed to bring over 170 million hectares under restoration. It is also a pillar of international environmental conventions, such as the Ramsar Convention on wetlands and the Rio Conventions on biodiversity, desertification and climate change.

The concept for the Decade grew from a proposal by El Salvador, a Latin American

leader in environmental efforts, to pool global resources and dedicate 10 years to promoting restoration. The Decade also targets coastal and wetland areas, which have been declining even more quickly than terrestrial ecosystems. The need of the hour is to promote an aggressive restoration programme that builds resilience, reduces vulnerability and increases the ability of systems to adapt to daily threats and extreme events.

UN Environment and the Food and Agriculture Organization of the UN (FAO)

are honoured to lead the implementation of the Decade with their partners including ICID alongside an increasing number of countries, foundations and individuals waking up to the need to fix the damage collectively caused.

To know more, watch video on UN Decade on Ecosystem Restoration (2021-2030) > https://www.youtube.com/watch?time_continue=3&v=YnAeqzffr4w



ICID joins initiative to promote 'Water for All - Leaving no one behind' World Water Day 2019

Water means life. It acts as the mirror of nature and creates an environment that sustains and nurtures plants, animals and humans, making Earth a perfect match for life in general. Climate change and population growth are making the world's water woes more urgent. And they are exacerbated by bad management. The present-day world provides ample examples of environmental devastation that serve as a warning that water usage has its natural limits.

World Water Day (WWD) is celebrated on 22 March every year. Initiated by UN-Water, the theme for WWD 2019 is "Leaving no one behind." Sustainable Development Goal 6 is crystal clear: water for all by 2030. In principle, this means leaving no one behind. But today, billions of people are still living without safe water – their households, schools, workplaces, farms and factories, struggling to survive and thrive. Marginalized groups – women, children, refugees, indigenous peoples, disabled people and many others – are often overlooked, and sometimes face discrimination, as they try to access and manage the safe water they need.

This World Water Day, 22 March, is about tackling the water crisis by addressing the reasons why so many people are being

left behind. Integrated water management plan is required for health, environment and sustainable economic development. WWD aims to sensitise people about the significance of fresh water and to promote sustainability for fresh water resources management.

Towards this endeavour, ICID aims to raise the awareness and responsibility of the community for the protection, exploitation and sustainable development of water resources, as well as improve the response to natural disasters and adaptation to climate change. ICID will observe the day with a view to stimulate global awareness and to encourage people to become active participants to sustain life by saving water. All the National Committees/Committee are invited to commemorate this day (22 March) by organizing events/workshops/seminars/consultations/brainstorming sessions in their respective country. Awareness can be disseminated in the form of ideas enabling a knowledge transfer environment by way of participation in these events. ICID would appreciate receiving feedback from their NCs highlighting WWD celebration in the form of a brief report along with high resolution images latest by 31 March



2019 for its coverage in ICID News Update and other related publications.

WATER FOR ALL >> How you can contribute?

LEARN - Get familiar with the issues – why are people being left behind without safe water and what can be done to reach them?

SHARE - Engage your friends and contacts with information and stories about the reality of the water crisis and how it affects every aspect of society.

ACT - Gather people together to share ideas and make them grow. Hold or attend an event to make personal connections that could help people living without safe water.

Water Thought: Once you carry your own water, you will learn the value of every drop.

More information on WWD 2019 is available @ <http://www.worldwaterday.org>

Webinar Highlights

15th ICID Webinar: Water Productivity of Wheat Crop in Afghanistan

Irrigation rehabilitation is a key element in increasing agricultural productivity and improving food security. Because of the arid climate in Afghanistan, wheat yields in irrigated areas are up to three times higher than in rain-fed areas. Given this large differential the government assigns high priority to the rehabilitation of irrigation schemes. Afghan river systems are already the most stressed river systems

in Asia (with Helmand river at the top) and probably in the world. Ensuring water security remains critical in Afghanistan for future agricultural production and to satiate other livelihood needs.

To discuss the same in-depth, Mr. Najumuddin, Technical Coordinator, On Farm Water Management Project (OFWMP), Ministry of Agriculture,

Irrigation & Livestock (MAIL) delivered a webinar on the topic 'Water Productivity of Wheat Crop in Afghanistan' on 28 February 2019 to share his research and explain the concept of Crop Water Productivity (CWP) which is taken as a robust measure of the ability of the agricultural systems to convert water into food and fiber.

At the outset, Secretary General A.B Pandya opened the webinar with his welcome remarks followed by a brief introduction of the speaker. SG Pandya stated the concept of CWP is important as it provides an estimate of efficient utilization of water resources. He was joined in by Executive Director Harish Varma, Dr. Sahdev Singh, Dir-KM, Dr. Vijay Labhsetwar and Mr. Madhu Mohanan, Communication Officer from ICID Central Office.

The webinar primarily focused on OFWMP and how it improved the agricultural productivity in the undertaken project areas. Mr. Najumuddin explained that lack of available irrigation water is an important impediment in improving the agriculture productivity in Afghanistan. As part of the efforts, OFWMP has been conceptualized with an objective to improve the agricultural productivity in the project areas by enhancing the efficiency of water used. The project started its operation in March 2011 and is currently operating in five regions (Central, Bamyan/Baghlan, Herat, North, East regions) covering 23 provinces to provide effective and efficient irrigation system to improve the conveyance and application efficiency and increase water productivity.

He explained that the basic purpose of CWP is to enable comparisons between water use systems in space and time i.e. 'before and after' or 'without and with' for project implementation of irrigation related agricultural projects. The time period for the assessment of CWP would cover at least one complete crop cycle, extended over a complete year (winter and summer crop seasons) to account for productive and non-productive water use. However, the assessment may be extended over several years to derive estimates of average, minimum or maximum crop water productivity within each season.

Mr. Najumuddin stated the overall Project Development Objective (PDO) is mainly aimed at improving water use efficiency to increase agricultural production, building capacity of local staff to implement similar projects in the country and educating farmers to adopt high efficiency irrigation systems (HEIS) and other modern agricultural practices.

The webinar further deliberated on assessment of CWP and the methodology involved in determination of the crop water productivity of irrigated crops attributed to different agronomic practices such as land preparation (Laser land levelling), sowing methods, improved seed varieties, on-time application of fertilizers, weed

and pest control and on-time irrigation.

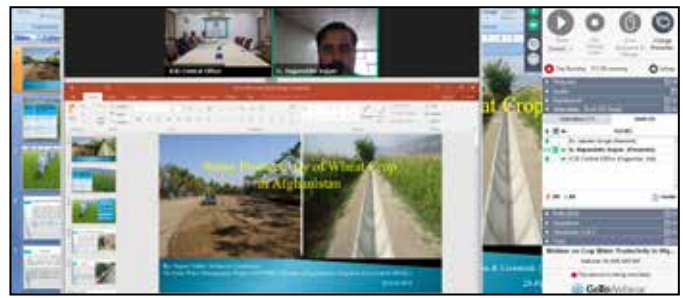
It concluded with a Q&A session, wherein participants raised their queries to the speaker particularly pertaining to wheat production in Afghanistan (a water scarce country) as compared to other crops. Mr. Najum explained that Afghanistan traditionally depends on imports from neighbouring countries as part of its food security. The demand for wheat consumption is high and the ongoing project is mostly directed towards making the economy self-reliant in wheat production, an important indicator-cum-ingredient for achieving food security.

This is the 15th webinar presented under "ICID Young Professional Series" for its exclusive online audience to share and discuss information in real-time. For those who missed the webinar may visit ICID website to access the live recording <http://www.icid.org/icid_webinar_15.html> supported with presentations and collated resources.

Webinar on Moving towards Water Sustainable Agriculture (Hindi)

Partners in Prosperity (PnP), an NGO working towards enhancing livelihood opportunities to mitigate economic disparities and promote community empowerment, recently organized a webinar on the topic 'Moving towards water sustainable agriculture' on 15 February 2019. The webinar aimed to spread awareness about the existing challenges and the growing need to move towards an environmentally sustainable setup and to mobilize various stakeholders in agriculture operating at grassroots level, especially the farmers. Keeping in view that the ultimate custodian of water resources are the farmers (who need to be heard and informed as rural population are not only resource poor, but also information poor) the webinar was conducted in Hindi for ease of communication with farmers.

Around 50 participants from different sectors including farmer groups from Uttarakhand and Haryana, India, members from non-profit/civil society, Global Agri Business Alliance, Switzerland as well as government, market leaders like Global Phoenix, Dubai and Central Water Board, Chandigarh, India participated in the webinar that primarily focused on issues ranging from better water management



in agriculture to need for sustainable agriculture and the role of technology in improvising agricultural practices. It also discussed the roles and responsibilities of different sectors in tackling these issues including government, civil society organisations, market leaders and farmers.

Dr. Sahdev Singh, Dir (KM), ICID was invited as one of the speakers in the webinar panel discussion on sustainable agricultural water management. He was joined in by Mr. Neeraj Sharma, Executive Engineer, Haryana Irrigation Department, Mr. Ashish Bhardwaj, India Coordinator, Alliance for Water Stewardship (AWS) and Mr. Ashutosh Kumar Sinha, Head-Agribusiness, LT Foods. Dr. Singh discussed at length the importance of knowledge sharing for empowering various stakeholders. He emphasized the flow of knowledge should be horizontal (between partner agencies), vertical (between the different levels of the same agency), diachronic (through time) and should contain feedback mechanisms. He shared his field experiences in India projecting the larger picture from an ecological viewpoint and deliberated how technology can be best leveraged in improvising agricultural practices.

The need to move towards water saving agricultural set-up was a common consensus among the speakers as well as the participants throughout the proceedings of the webinar. The future course of actions outlined the need for collective water management wherein farmers, market players and others identify, understand, accept and fulfil their duties and roles towards the cause. All this to ensure that it is a shared responsibility.

Ms. Shrestha Sharma, Coordinator, PnP and ICID YP served as moderator and concluded the webinar with a vote of thanks to everyone for their participation and enabling a knowledge transfer environment highlighting the role of multiple NGO's working to train farmers and implement water efficient farming techniques. The necessity is to access and implement them.

Virtual Meetings

First KCID Meeting

To proceed and firm up the action plan for the upcoming International Young Professionals Training Program (YP-TP) and Workshop to be held in Korea in April 2019, the members of the Korean National Committee (KCID) and ICID organised the first WebEx meeting (1/2019) on 11 February 2019. The meeting was virtually attended by Mr. JungSeok Jang, Mr. HyeonSoo Kim, Prof. WonHo Nam, Prof. KyoungSook Choi, Prof. Chang Eon Park, Mr. Eun Seo Park, Ms. SangHee Park and Ms. ABin Lee from KCID. Secretary General A.B Pandya, Executive Director Harish Varma, Dr. Sahdev Singh, Dir-KM and Mr. Madhu Mohanan, Communication Officer participated from ICID Central Office. At the outset, SG Pandya welcomed the KCID members and ED Varma briefed the participants about the first online WebEx meeting. Following the introduction of ICID, KCID's Vice Chairman, Jung Seok Jang gave brief information of KCID committees.

The meeting agenda gave a brief overview of the YP-TP training program including sending of invitation letters to all the participants, preparation of itineraries and logistical arrangements by KCID and signing of Memorandum of Understanding (MoU) between ICID and

KCID for conducting the training program. The meeting further discussed that the final program of the training including the topics and speakers needs to be finalized by KCID in consultation with ICID which will then be shared with all the participants.

With reference to post training field (technical) tour, KCID indicated that it is considering field tours to Dams, Sea Dikes and Smart Water Management System designed by the Korea Rural Community Corporation (KRC). In addition, KCID also expressed its interest to host a Korean Traditional Culture Event for the participants.

First WG-Climate Meeting

The first WebEx meeting (1/2019) of the Working Group on Climate (WG-Climate) was held on 8 March 2019. Dr. Tsugihiko Watanabe chaired the meeting which was attended by Dr. Ray Shyan Wu, Dr. Fuqiang Tian, Dr. Jih-Shun Liu, Dr. Waleed Hassan M. Abou El Hassan, Eng (Ms.) Nermeen Essam El-Tahan, Dr. Mika Turunen, Mr. Atin Kumar Tyagi, Dr. Nozar Ghahreman, Prof. Choi, Jin-Yong, Prof. Sue Walker, Eng. (Ms.) Talatha Janaki Meegstenna, Ms. DEMIREL YAZICI Dilek, and Mr. Michael Davidson. Secretary General A.B Pandya, Executive Director Harish Varma and

Mr. Madhu Mohanan, Communication Officer participated from ICID Central Office.



Dr. Watanabe welcomed all the participants and then proceeded with the agenda. The meeting deliberated on the brief follow-up of the last meeting of the WG at Saskatoon, Canada emanating from the minutes. It further discussed the draft table of contents and assignment of corresponding draft authors; publication of the expected outcomes of the WG activities with the Road Map to ICID Vision 2030; workshop plan for WIF3 to be held in Bali, September 2019; process of updating the Multilingual Technical Dictionary (MTD) and timetable of the WG Activities for 2019. The meeting ended with a vote of thanks to all the members of WG-Climate, who unanimously agreed to have regular meetings from time-to-time to discuss important emerging issues.



IYPeF Second e-Discussion

Solar-Powered Irrigation System: Exploring Opportunities and Threats

The second IYPeF e-Discussion on 'Solar-Powered Irrigation System: Exploring Opportunities and Threats' was held from 15 Feb - 2 March 2019. The discussion held on virtual open platform witnessed active participation from young professionals and explored how the potential of Solar Powered Irrigation System (SPIS) can be realised, whilst addressing the risks and challenges that comes with the technology to provide sustainable energy access in rural areas and to promote innovative investment models and organisational structures. Mr. Amali Abraham Amali (Nigeria) acted as the IYPeF lead coordinator, while Petra Schmitter, Research Group Leader, Agricultural Water Management, International Water Management Institute (IWMI) steered the e-Discussion as a mentor that aimed to highlight the vital role SPIS is poised to play in achieving the Sustainable Development Goals (SDGs) of Agenda 2030 and in solving

IYPeF e-Discussion schedule — January-May 2019			
No.	Topic	Lead IYPeF Coordinator	Schedule
1.	Non-conventional water use/ reuse in irrigation	Dr. Eman Ragab	15 January 2019
2.	Solar-Powered Irrigation System: Exploring Opportunities and Threats	Mr. Amali Abraham Amali	15 February 2019
3.	Soil conditions (wellbeing) to ensure sustainable agriculture and coping with climate change	Mrs. Kathleen Murray & Mr. Shoab Saboory	15 March 2019
4.	Flood management in agriculture	Ms. Sahar Norouzi	15 April 2019
5.	Cost effectiveness of field drainage (subsurface drainage or open channel drainage)	Ms. Adey and Mrs. Kathleen Murray	15 May 2019

agriculture's energy challenges whilst increasing reliability and affordability.

YPs during the e-Discussion deliberated the role of SPIS being promoted as a

sustainable solution for both developed and developing countries as it offers a cost effective, sustainable and renewable energy solution to off-grid farmers while

ensuring food security and sustaining livelihoods. The discussion aimed to achieve the following objectives: (i) Contribution of SPIS to agriculture at regional, national and global scales; (ii) Discuss the benefits of SPIS and potential opportunities for up-scaling the technology beyond environmental sustainability to economic sustainability; (iii) Highlight varying views of YPs in Irrigation and Drainage on use of SPIS as well as discuss how to curb the inherent challenges and threats by suggesting pertinent governance frameworks and technology improvement; and (iv) Discuss innovative ways (technical, financial and institutional) of increasing access to and ensure inclusiveness of

SPIS particularly among the rural poor; constrained by land rights and capital.

All YPs actively participated in the e-Discussion and shared their experiences, case studies and initiatives undertaken in various countries or proposed to be taken in respect of SPIS with water saving techniques and adoption of various technologies. As a way forward YPs and experienced stakeholders from government, industry and academia were invited to discuss and chart a sustainable course for upscaling this technology. The detailed e-Discussion can be accessed at <<https://www.linkedin.com/feed/update/urn:li:activity:6502044779369590784/>>.

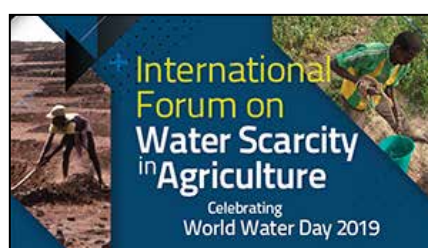
The next e-Discussion on “Soil conditions (wellbeing) to ensure sustainable agriculture and coping with climate change” will be held from 15-31 March 2019 with Mr. Shoaib Saboory (Afghanistan) and Mrs. Kathleen Murray (Australia) as coordinators. All YPs are encouraged to actively participate and contribute to these e-Discussions and bring forth their collective expertise to the topics to make it more enriching, informative and insightful.

The detailed list of e-Discussions for 2019 is now available on IYPeF Group page. For more details, please visit: <https://www.linkedin.com/groups/6990321>.

1st WASAG International Forum on Water Scarcity in Agriculture

Under the patronage of Cabo Verde, in collaboration with Italy and FAO, WASAG announces its 1st International Forum on Water Scarcity in Agriculture to be held in Praia, Cabo Verde, West Africa from 19-22 March 2019, to coincide with the celebrations of the World Water Day 2019 which this year adopts the theme ‘Leaving no one behind.’

The forum aims at identifying concrete – practical, innovative and collaborative – solutions to address water scarcity in agriculture in a changing climate. With a focus on Cabo Verde, Small Island Developing States (SIDS) and West African countries, the forum is expected to illustrate how water scarcity in agriculture



can be addressed and turned into an opportunity for sustainable development, food and nutrition security.

Key focus areas: (i) Water and Migration (ii) Drought Preparedness (iii) Financing Mechanisms for sustainable management of water resources; (iv) Water and Nutrition; (v) Sustainable Agriculture

Water Use; and (vi) Saline Agriculture

The Forum is open to partners, stakeholders, academics, practitioners, and policy makers from the public and private sectors and civil society.

To register to the forum, fill in the registration form and send to WASAG-registration@fao.org

To download full program agenda, please visit: <http://www.fao.org/3/CA3408EN/ca3408en.pdf>

More information available @ <http://www.fao.org/land-water/events/ws-forum/en/>

International Young Professionals Training Program (YP-TP) in Korea

The Korean National Committee on Irrigation and Drainage (KCID) in collaboration with the Chinese National Committee (CNCID) and ICID will be organizing the International Young Professionals Training Program (YP-TP) from 22-25 April 2019.

The training program on the theme “Climate Resilient Smart Irrigation Systems” along with a technical study tour will be followed by an international expert consultation workshop on “Irrigation Technologies to Mitigate Climate Change” (26 April 2019) to provide an opportunity to the young professionals (YPs) to have a broader and in-depth exposure to emerging irrigation technologies and management scenarios considering the urgent need for a sustainable climate change-resilient agriculture sector.

In addition, the technical sessions by international experts will provide an excellent opportunity to the YPs to expand their knowledge base and understanding of modern tools, technologies and decision-

support systems for improving water productivity and water use efficiency.

Several National Committees (NCs) have nominated eligible YPs (below 40 yrs) from institutions engaged in agricultural water management from their respective country. ICID on its part will be sponsoring 20 YPs to attend the training program based on the nominations received from the NCs, taking into consideration their qualification, professional experience and contribution through their country profile.

ICID as a part of its capacity development program and to attract budding young minds to agricultural water management (AWM) sector has been organizing training programs for YPs regionally and internationally. The previous YP training program was organised in Beijing, China in April 2018.

More details about the training program/workshop is available @ http://attachment.benchmarkemail.com/c386762/Concept_Note-YP-TP.docx.

FAO launches new training handbook for Farmer Field Schools

Many farmers in developing countries grow crops, especially vegetables, in urban and peri-urban environments using wastewater, raw or diluted. Such wastewater is often heavily contaminated with disease causing organisms and chemical agents that can seriously harm the health of the farmers, the traders who handle crops and the people who consume them.

Safe irrigation methods are essential when using wastewater for irrigation, but they need to be complemented with other practices from farm to fork to ensure the safety of others involved in the value chain. The second edition of the handbook titled ‘On-farm practices for the safe use of wastewater in urban and peri-urban horticulture’ by FAO focuses on low-cost and low-tech on-farm wastewater treatment and safe irrigation practices that farmers can adopt to grow safer products.

Download the Handbook: <http://www.fao.org/3/CA1891EN/ca1891en.pdf>

Register Now..!!

2019 Water For Food Global Conference

The Daugherty Water for Food Global Institute (DWFI) at the University of Nebraska will host the 2019 Water for Food Global Conference at Nebraska Innovation Campus in Lincoln, Nebraska, USA from 29-30 April 2019.

The conference will convene leading international experts and organizations to discuss "Water for a Hungry World: Innovation in Water and Food Security," focusing on the next generation of research, smart technology, policy development and best practices that are achieving a breakthrough in this important mission.

The conference theme is "Water for a Hungry World: Innovation in Water and Food Security," focusing on the next generation of research, smart technology, policy development and best practices that are achieving breakthroughs in this vitally important mission. The conference will spur conversations on the following topics - (i) Technology; (ii) Determining the value of water in agriculture and other sectors and; (iii) Farmers, Women and Youth - to bring together a spectrum of stakeholders who understand that feeding growing world population requires new approaches to overcome a host of interconnected challenges such as climate change, water



scarcity and pollution, economic disparity, shifting food preferences, food waste, soil degradation, ecosystem threats and competing demands for resources.

DWFI invites all prospective delegates to join and explore cutting-edge work being done to ensure all have enough nutritious food and clean water to sustainably support nearly 10 billion people in the next 30 years.

The 2019 Water for Food Global Conference will also feature special events to encourage interdisciplinary discussions and learning among participants including a student poster competition; photography competition and exhibit; educational exhibit booths; and side events.

The global conference promises a week of water and food security-related presentations, networking opportunities and tours.

Reserve Your Spot Today..!!

Early Registration (till March 22)

Regular Registration (March 23 - April 24)

More details available @ <https://waterforfood.nebraska.edu/news-and-events/events/2018/08/2019-water-for-food-global-conference>



Women for Water Gathering 2019

A side event of Water for Food Global Conference, **1 May 2019 | 8.30 am - 2:00 pm**

All are cordially invited to join the inaugural gathering - 'Women for Water', a side event of the Water for Food Global Conference. Connect with other water leaders who are passionate about improving gender participation for water productivity and quality in Nebraska and around the world....!!

For Registration Please visit: <https://web.cvent.com/event/dd6ad123-a641-49ec-8b51-02f7d62924c9/summary?rt=SFsiS0KH0E2Wm8XTerSGfw>

Short Course on Water Security: Summer 2019

The School of International Development and Water Security Research Centre at the University of East Anglia (UEA), Norwich, UK is organizing a short course on water security to be held from 24-28 June 2019. The summer course-- bringing together key strengths in water politics, climate change, agricultural water management and water allocation -- will provide participants with an exceptional chance to acquire an understanding of this key global issue and to explore different interpretations of water security in an international and developing economy context. In the

process, participants will acquire an ability to critically assess and address current water security issues and policies and to gain an appreciation of the relations between water security and development, health, climate, food and national security.

Topics include: Water security fundamentals | Water resources security and water scarcity | Climate change security and water security | Water sharing through the River Basin Game| Food security, agriculture and water security| Water security and health| Transboundary water security and

hydropolitics | Global trade, global political economy and water| Water markets and water security.

To Apply: <https://bit.ly/2PqLxQf>

Contact: devco.train@uea.ac.uk (mailto:devco.train@uea.ac.uk); +44 1603 592340

For more information and to download brochure, please visit: <https://www.uea.ac.uk/international-development/dev-co/professional-training/water-security>

Registration Now Open..!!

Landscape Irrigation Conference and Exhibition, 18-20 June 2019

The Irrigation Australia Landscape Irrigation Conference & Exhibition, will be held from 18-20 June 2019 at the Gold

Coast Convention and Exhibition Centre. Irrigation Australia extends a warm welcome to its members and delegates

from allied industry associations, who have interest in the efficient use of water in urban irrigation.



The unique event with specific focus on landscape irrigation brings together the entire urban irrigation sector to provide a peer learning experience and offer

delegates with the opportunity to see the latest water efficient products on display and hear from leading industry experts on their best practice techniques. By attending, delegates will gain access to unparalleled opportunities to learn about the latest innovations in technology and management of public open space.

Irrigation Australia will be introducing case study presentations by leading experts on issues that often confront the industry, detailing how these matters were successfully resolved and improved the efficient water use. Irrigation Australia is pleased to announce Nursery & Garden

Industry Australia (NGIA), Turf Australia (TA) and Landscape Queensland Industries Association (LQIA) as the event partners for the conference.

To register: [https://eecw.eventsair.com/landscape-irrigation-conference-and-exhibition 2019/eoi/Site/Register](https://eecw.eventsair.com/landscape-irrigation-conference-and-exhibition-2019/eoi/Site/Register)

Early Bird Registration closes on 30 April 2019

For more details about the conference, please visit: <https://www.landscaperrigation.com.au/>

AFRICA 2019 ~ Water Storage and Hydropower Development for Africa

The AFRICA 2019 ~ Water Storage and Hydropower Development for Africa conference will bring together industry professionals in Namibia, a country with excellent infrastructure and a variety of dams to discuss water and energy issues relevant to Africa.

The conference topics will cover areas like civil works and challenging conditions, hydrology, flood and drought management, hydro technology, environmental and social aspects and much more. Delegations from more than 40 countries, including the African nations have already registered. There will be high-level representatives from Ethiopia, Cameroon, Uganda, Nigeria, Zambia, Mozambique, Ghana among the 16 African delegations registered so far. Major organisations of special significance for advancing Africa's hydropower and water resources development will be represented, including the African Union, NEPAD, World Bank, African Development Bank, UNECA, SAPP and ECOWAS among others.

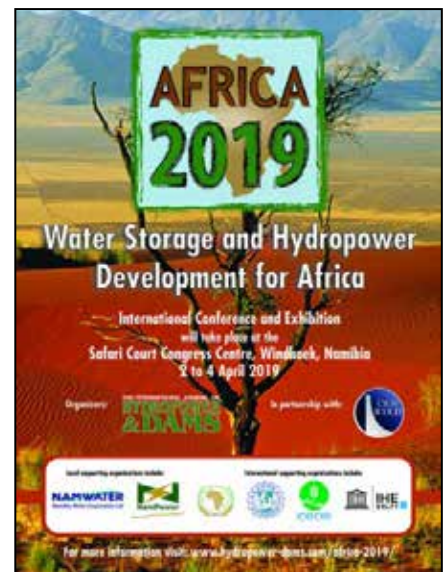
AFRICA2019 will be the third international conference focusing on water storage and renewable energy development in Africa. The event is co-hosted by the International Commission on Large Dams (ICOLD) and Aqua-Media International.

Supporting organisations include ICID, the IEA Hydropower and the national utilities NamWater and NamPower, who are pleased to welcome international experts to participate and exchange their experiences on key topics relevant to the African continent.

- **Where:** Safari Court Congress Centre, Windhoek, Namibia
- **When:** 2-4 April 2019
- Who should attend?

All those involved or interested in helping African nations to unlock their vast hydro potential and to advance water resources development, should join the discussions. Speakers and delegates will include owners, operators, developers, financiers, researchers, consultants, contractors, teachers and students.

A session will be devoted to capacity building and training with focus on environmental and social aspects, climate concerns and sedimentation management. In view of the enormous solar power potential of the African continent, one session will be devoted to hydro in synergy with other renewables. A special session (4 April) will focus on approaches to establishing a dam safety management programme. Attractive social and accompanying persons' programmes as well as post-conference



technical tours have also been organised besides a full-day training workshop.

AFRICA 2019 welcome you all to Windhoek, Namibia where your contribution to discussions could play a vital role in advancing knowledge and experience in African water resources development and turning policies into practice.

More details about registration and conference is available at <https://www.hydropower-dams.com/africa-2019/>

Final Call for Nominations..!!

3rd World Irrigation and Drainage Prize – 2019

Nominations are invited for the 3rd World Irrigation and Drainage (WID) Prize to be presented during the Third World Irrigation Forum (WIF3) in Bali, Indonesia from 1-7 September 2019. The Prize carries an honorarium of US \$10,000 along with a 'Citation Plaque.' The triennial WID Prize instituted by ICID is awarded to dedicated professionals and

institutions, who have actively contributed to the development of Irrigation and Drainage during the past 15 years supporting increased agricultural production at national, regional and international levels.

More information, including the detailed procedure for nomination and other conditions and criterion for WID Prize along with the

nomination form can be accessed at http://www.icid.org/wid_prize.html.

All National Committees are requested to circulate the 'Call for Nominations' widely amongst professionals/teams/institutions within their country and submit the nominations to ICID Central Office latest by **31 March 2019**.

Nominations invited for 2019 ICID Awards

ICID is pleased to announce the "Call for Nominations for 2019 WatSave Awards and Recognition of World Heritage Irrigation Structures (WHIS) for the Third World Irrigation Forum (WIF3) and the 70th International Executive Council (IEC) Meeting in Bali, Indonesia from 1-7 September 2019.

WatSave Awards 2019: ICID instituted the 'WatSave Awards' in 1997, presented every year, to recognize outstanding contributions to water conservation or water saving in agriculture across the world. Accordingly, the award given to individuals or a team of individuals are made in respect of actual realized savings and not for promising research results, plans and/or good ideas/intentions to save water. The awards are given in four categories: (i) **Technology** (ii) **Innovative Water Management** (iii) **Young Professionals;** and (iv) **Farmer.**

entries are open to all professionals/teams from ICID member countries as well as non-member countries. In case of an entry from a 'non-member' country, the nomination has to be routed through and validated by an active National Committee of ICID, who should be in touch with the nominee and must be aware of his/her work.

World Heritage Irrigation Structures (WHIS) 2019: A Task Team is set up every year to select historical drainage/drainage structures as received from various National Committees (NCs) to give them recognition on the lines of World Heritage Sites (as recognized by UNESCO). Nominations are invited from ICID National Committees for selection of "World Heritage Irrigation Structures" (WHIS) that includes both old operational irrigation structures as well as those having an archival value.

Nominations are invited from individuals/team through National Committees/Committee. The

A National Committee can nominate more than one structure, using separate nomination form for each. Associated Members and non-member countries can nominate their structures through neighbouring active NCs or by submitting directly to ICID Central Office. The fifth batch of WHIS will be included in the ICID Register of WHIS available at http://www.icid.org/icid_his1.php

The deadline for receipt of the entries for WatSave Awards and WHIS from the National Committees along with the completed 'Nomination Form' and related details to the ICID Central Office, New Delhi is **30 June 2019.**

More information including the detailed procedure for nomination and criterion for the awards can be accessed at http://www.icid.org/awards_icid.html

For any queries, please contact Dr. Sahdev Singh, Director (Knowledge Management) at icid@icid.org.

News Buzz: ICID National Committees

CANCID (Canada)

Dr. Warren Helgason has been elected as the new President and Mr. Evan Derald has been nominated as the new Secretary-Treasurer of the Canadian National Committee (CANCID) of ICID. Mr. Derald has replaced VPH Laurie Tollefson, who recently stepped down from his position. Special thanks to VPH Tollefson for his continuous guidance, cooperation and support to ICID activities over the years. ICID fraternity looks forward to his mentorship and continued association with ICID activities. All National Committees are requested to take note of the new contact details:

Mr. Evan Derald, Secretary - Treasurer Canadian National Committee, ICID (CANCID), Science and Technology Branch, Agriculture and Agri-Food Canada 107 Science Place, U of S Campus Saskatoon, Saskatchewan S7N 0X2
Tel: +1 306-385-9383, Fax: +1 306-385-9482, Email: Evan.Derald@AGR.GC.CA
Website: <http://www.cwra.org/en/affiliates/cancid>

Dr. Warren Helgason, President Canadian National Committee, ICID (CANCID), Associate Professor, Civil and Geological Engineering, 57 Campus Drive University of Saskatchewan, Saskatoon, SK S7N 5A9

Tel: (306) 966-5315, Email: warren.helgason@usask.ca, rhohtm@telus.net

TUCID (Turkey)

Mr. Mevlut AYDIN, Director General of State Hydraulic Works has been appointed as the new President of Turkish National Committee on Irrigation and Drainage (TUCID). TUCID is one of the founding members of ICID and has made active contribution to ICID activities since 1954. ICID looks forward to President Mr. AYDIN's collaborative support and active participation of TUCID in facilitating ICID's mission to advocate and promote policies for sustainable agricultural water management.

All National Committees are requested to correspond as per the new contact details:

Mr. Mevlut AYDIN, President Turkish National Committee, ICID (TUCID), Director General General Directorate of State Hydraulic Works (DSI), Devlet Su Isleri Genel M'd'rl'g', Devlet Mahallesi In'n' Bulvari No.16, 06100 Cankaya, Ankara
Tel: +90 312 454 50 00, Fax: +90 312 454 50 05, Email: mevlutaydin@dsi.gov.tr, tucid@dsi.gov.tr, Website: <http://www.dsi.gov.tr>

Irrigation and Drainage Volume 68.1

The latest volume of Irrigation and Drainage journal 68.1, published in February 2019, is now available online. The Special Issue with selected papers of the 23rd ICID Congress held in Mexico City, Mexico (8-14 October 2017) is FREE via Wiley online library for all ICID Office Bearers, Workbody members and subscribers.

Newly added features include: (i) Papers available in easy to read PDF format; (ii) Access to full text of all the articles as well as Tables of Contents and Abstracts published in Irrigation and Drainage since 2001; (iii) Early View service display papers online as soon as they are accepted for publication that are several months earlier than the papers published in print; and (iv) Sign up for FREE Wiley Alerts and receive the Table of Contents via email when published online

For 2019 Wiley has provided each ICID Office Bearer, workbody member and subscriber a unique membership registration number. Your e-mail address is your username and you can choose your own password.

Click for direct access to the page with the papers of this issue in Irrigation and Drainage @ [http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1531-0361](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1531-0361).

Morocco on the theme: Sustainable Management of Irrigation for Improved Resilience of Agriculture in Africa. E-mail: bartali.h@gmail.com, anafide.ma@gmail.com; Website: <http://5arcid.ma/>

24th ICID International Congress & 71st IEC Meeting, 22-28 September 2020, Sydney, Australia. For more info contact: Mr. Bryan Ward, Chief Executive Officer, Irrigation's Australia Limited (IAL) (Incorporating IACID); Email: Bryan.ward@irrigation.org.au; info@irrigation.org.au; Website: <http://www.icid2020.com.au>

Other Events

4th Water Sensitive Cities Conference 2019: Delivering the transition to water sensitive cities: approaches, activities and achievements, 26-28 March 2019, Brisbane. For more details, please visit: <https://watersensitivecities.org.au/content/wsc-conference-2019/>

Events Corner

ICID Events

3rd World Irrigation Forum (WIF3) & 70th IEC Meeting on the theme 'Development for water, food and nutrition security in a competitive

environment', 1-7 September 2019, Bali, Indonesia. For more info contact: Ir. Adang Saf Ahmad, CES, President, INACID; Email: inacid.indonesia@gmail.com; adangsafa@yahoo.com; Website: <https://icid2019.com/>

5th African Regional Conference on Irrigation and Drainage (ARCID), 16-19 March 2020, Marrakech,



ICID·CID

International Commission on Irrigation and Drainage (ICID)

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