

News Update



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

International Commission on Irrigation and Drainage (ICID)

MAY 2018

From Secretary General's Desk...



Dear Colleagues,

Last month we witnessed a very encouraging example of regional cooperation involving ICID, CNCID and KCID when the Young Professionals (YPs) Training Program hosted by CNCID and supported by KCID was held in Beijing, China. ICID Resource Persons, including our current president, ex-presidents, myself and our executive director, delivered the training sessions. A total of 19 YPs from 14 countries participated and benefitted from the interactions with experienced irrigation and drainage experts. ICID through its Technical Support Unit (TSU) aims to provide such capacity development services so that developing countries share more knowledge and

expertise with each other. The training was followed by a very interesting workshop by CNCID.

The experience was not much different during the 8th Asian Regional Conference held last week in Kathmandu, Nepal, prior to which another YP training program was organized by NENCID with several international resource persons for 25 YPs from Asian countries. Most of the YPs also got an opportunity to attend the regional conference and benefit from the discussions and knowledge sharing. The regional conference with the participation of high-level decision makers and technical experts demonstrated the potential of regional and international cooperation and collaboration in learning from each other. I hope the momentum gained, thus so far, does not diminish and such fruitful, high-impact activities take place more often.

ICID has also stepped up its interactions with several international research and development bodies, and I am sure that it will benefit all our NCs with cutting-edge knowledge and technological developments in our sector. We are working very closely with CSIRO-Australia to explore ways of making newly developed software tools available

to developing countries of all regions for better planning and assessment of development interventions in the Irrigation and Drainage sector.

A gentle reminder to my colleagues that August is approaching fast when we will have our 69th IEC Meeting and International Conference in Canada and I look forward to meeting many of you there to share ideas on how we can work together better, be more impactful and result-oriented leading to sustainable development of all.

As I sign off, I would like to take this opportunity to remind all that on 24th June we will celebrate the 69th ICID Foundation Day and have already started preparations for that. You will hear more about it in the next month's News Update. I urge all NCs to also organize various events to highlight our unique sector that touches all lives.

Best Wishes,

Ashwin B. Pandya
Secretary General

Kathmandu takes centre stage to beckon Evergreen Revolution

8th Asian Regional Conference 2018

The 8th Asian Regional Conference (ARC) on the theme "Irrigation in Support of an Evergreen Revolution" was successfully held from 2-4 May 2018 in Kathmandu, Nepal. The Nepal National Committee of ICID (NENCID) hosted the event in collaboration with Department of Irrigation (DoI), the Government of Nepal and other international and national partners.

The conference witnessed participation of renowned professionals from USAID, World Bank, IWMI, ICIMOD, FMIST, ADB, ICE WaRM and other reputed organizations to deliberate on various issues to steer region's irrigation and drainage into the 21st century. The inaugural ceremony was held on 2 May



2018 in the benign presence of Hon'ble Bidya Devi Bhandari, President, Federal Democratic Republic of Nepal as the chief guest and graced by Barsaman

Pun, Ministry of Energy, Water Resources and Irrigation (Nepal), ICID President Felix B. Reinders and Secretary General A. B. Pandya.

During the conference, President Reinders expressed his pleasure to welcome participants from different countries, especially the young professionals as they are the future leaders in irrigation and drainage. He appreciated NENCID for organizing and making the conference a memorable event and urged everyone present to share the rich knowledge, great learning experiences and memories derived during the conference back home.

Secretary General Pandya highlighted the dynamic role of the conference in bringing forth the key water issues pertaining to water security, on-farm application and participatory approach and believed that Nepal could go a long way in developing its irrigation to bring in overall development and become a cradle for rural development.

The event witnessed the launch of Technical Report of the Asian Regional Working Group (ASRWG) titled "Contribution of Agriculture Water to the Rural Development in Asia". The publication provided an overview of the status of knowledge and policies related to the relevant issues in Asia and to serve its objective in guiding the National Committees and others on meaningful contribution towards sustainable management of agricultural

water for rural development. The technical report compiled by the specialists and professionals from the participating countries will serve as a framework for both policymakers and stakeholders.

The three-day conference covered the following sub-themes:

- Enabling smallholders' capacity to obviate farm distress
- Coping with recurring droughts and floods in the context of climate change
- Modernizing irrigation systems for better services
- Nexus challenges faced by Irrigation Institutions
- Strengthening Water Users Institutions (WUIs) for sustainability of irrigation systems
- Irrigation, ecosystem services, and aquatic biodiversity

The sub-themes aimed to address the challenges to increase agriculture productivity. Since majority of the population in Asia still live in rural areas, experts participating in the event from the region and beyond discussed and deliberated ways to contribute to a new evergreen revolution and to increase the productivity of irrigation to produce

adequate food, fibre and fuel to satiate the needs of future's population.

The conference covered 15 technical sessions with six plenary symposiums, opening and closing sessions. Symposia related to the sub-themes were organized by USAID, IWMI, ICIMOD, ICEWaRM, FMIST and the World Bank. Additionally, several technical papers (105) were presented and enriching discussions were held on various aspects of the theme. During the conference, abstract papers were distributed to the participants in the form of a booklet.

Technical Tours

Post-Conference technical field tours were organized on 5-6 May 2018 for the delegates and participants. The participants got an opportunity to understand the history of irrigation development in Nepal and also visit popular and major tourist destinations including Dhulikhel, Nagarkot and oldest irrigation system in 'Gundu' located in Bhaktapur district. Other side attractions included trip to famous religious places including Pashupatinath temple and Bouddhanath Stupa.

For more information, please visit: http://www.icid.org/8th_arc.html



NENCID Young Professionals Training Program

At the beginning of the 8th Asian Regional Conference (2-4 May 2018), the Nepal National Committee of ICID (NENCID) organized a one-day training program for 25 young professionals (YPs) working in the irrigation sector to provide an opportunity to engage, network and share experiences with the irrigation and drainage professionals and experts.

The training program held on 1 May 2018 aimed to (i) capacitate the young engineers in the area of irrigation and drainage sector and motivate them to work for the national development (ii) share innovative ideas of irrigation and drainage and recent technology from different parts of the world (learning from resource persons, sharing of ideas among the participants and providing opportunity for networking with the international delegates); and (iii) provide young engineers an opportunity to participate in the 8th ARC 2018.

The opening session of the training was graced by Chairman Saroj Pandit, Director General, DoI (President NENCID) Ms. Karlene Maywald, Chair National Water Commission Australia, Secretary General Pandya, VPH Dr. Ding Kunlun, VP Madhav Belbase and Arnaud Cauchaus, Principal Water Resources Specialist, ADB.

The training program covered two key areas: (i) Water Footprint and Virtual Water Approach as a tool for improved Water Use Efficiency, in addition to the Micro Irrigation for improved land and water productivity, and (ii) Basin planning, its implementation, and introduction on the basin planning tool: Basin Futures.

The technical program began with the session on 'Water Footprint and Virtual Water Approach as a tool for improved Water Use Efficiency' by VP Dr. K. Yella Reddy, Director,



WALAMTARI, Hyderabad, India. VP Reddy highlighted the water footprint concept as an innovative and powerful indicator to measure the consumption of freshwater resources to produce each product used for various human activities. Through the training program, he provided concrete inputs into how the use of water footprinting and virtual water measurements, as well as agricultural products, could be reliably used in policy planning and implementation. VP Reddy

pointed out that water footprint provides a structured and consistent way to measure water use and pollution throughout the value chain and across different scales. The approach provides a common language that supports dialogue among various stakeholders contributing to and resolving unsustainable water use.

The other session on Basin Futures, winner of the World Bank prize for Big Data Innovation, began with the opening remarks from Ms. Karlene Maywald. She provided insights into the governance around water issues in the Australian context. It was further steered by Mr. Andrew Johnson, Senior Policy advisor (ICE WaRM), Dr. Dave Penton, Research Team Leader, Basin Processes, Dr. Carmel Pollino, Principal Research

Scientist and Mr. Amit Parashar, Principal Research Consultant, CSIRO Land and Water, Australia. YPs were introduced to the web-based capacity development and planning using online tool 'Basin Futures' (developed by CSIRO) that helps create various development scenarios in a river basin, particularly in cases with scarce data availability and higher capacity requirements. Mr. Johnson explained how Basin Futures is aimed at supporting developing and emerging economies.

Dr. Penton added that the online tool aims to lower the barrier for entry to the existing range of basin modelling tools available, by kick-starting a basic user's experience around range finding of water resource availability at basin scale. Dr. Pollino and Mr. Parashar presented

the working of the Basin Future tool and presented several examples from around the world on how the web-based software extracts open source global data and provides comprehensive water information in a matter of seconds and how it can be used as a preliminary planning tool for small to medium basins. The experts further elaborated that the software is a useful resource explaining that the key goal for this research is to enable a cohort of users requiring early stage understanding of water resources to support planning outcomes in sustainable and climate resilient manner in a data scarce catchment.

To know more, video available @ <https://www.dropbox.com/s/c35q9gppzs0n1t5/BasinFutures.mp4?dl=0>



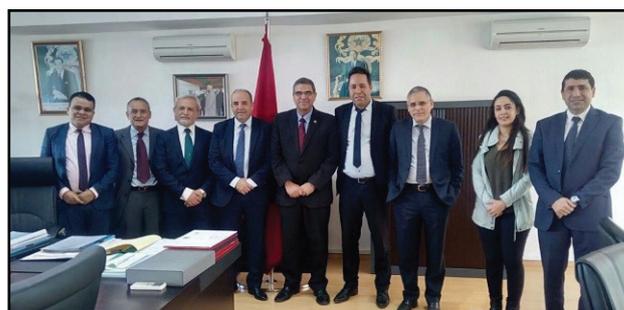
PH Nairizi and VPH Wahba visit ANAFIDE

On invitation from the Moroccan National Committee of ICID (ANAFIDE), PH Dr. Saeed Nairizi and VPH Dr. Mohamed Wahba, President of Egyptian National Committee of ICID (ENCID) and Chair of African Regional Working Group (AFRWG) visited Rabat, Morocco from 16-20 April 2018.

The visit was organized by Pr El Houssine Bartali, Vice President of ANAFIDE and Director of Agricultural Engineering School at Hassan II Institute of Agronomy and Veterinary Medicine (IAV), Rabat. The meeting aimed to discuss and support the preparation of the 5th African Regional Conference on Irrigation and Drainage to be organized by ANAFIDE in collaboration with ICID and IAV Hassan II in Morocco in March 2020; enhance cooperation and exchange among ANAFIDE (Morocco), IRNCID (Iran) and ENCID (Egypt); and promote the activities of ANAFIDE within the AFRWG, particularly the Moroccan Young Professionals Forum.

On 16 April 2018, PH Nairizi and VPH Wahba accompanied by Dr. El Houssine Bartali visited the IAV Hassan II conference facility, the designated venue of the 5th African Regional Conference and met with the ANAFIDE President and Board members. In addition, presentations were given at IAV Hassan II for the participants from public and private sectors including professors, young professionals, and engineering students.

PH Nairizi gave a presentation on the "Role of ICID in Tackling Global Food Security Challenge" on 17 April 2018. He outlined the 'Road Map to ICID Vision 2030' and recalled the mandate of AFRWG. He presented ICID initiatives and programs to facilitate the implementation of the vision through the Technical Support Program (TSP) and the International Research Program in Irrigation and Drainage (IRPID) Nodal Centre. He also invited Morocco to be a member of the regional node. It was agreed ANAFIDE and ENCID will collaborate with the Italian National Committee of ICID (ITAL-ICID) for the establishment of a Regional Node for the Mediterranean and North African Region. Further, he emphasized the importance of developing the cooperation between IRNCID and ANAFIDE through exchange visits which would lead to further cooperation among the decision makers on water issues in Iran and Morocco and to exchange their innovative experiences for water management in general and agricultural water management, in particular.



On 19 April 2018 VPH Wahba gave a presentation on "Innovative technology for use of green concrete for ecological slope protection." VPH Wahba also

attended the monthly ANAFIDE Board meeting wherein a MoU was drafted to be signed by ENCID and ANAFIDE. Later VPH Wahba and Pr El Houssine Bartali chaired a meeting attended by the young professionals and engineering students. During the meeting, the Moroccan Young Professional Forum was established which will undertake activities within the AFRWG of ICID. The forum will be coordinated by Ms. Sara Boularbah and will enable the Moroccan young professionals to benefit and contribute to various ICID activities including e-discussions, webinars, ICID Journal and various conferences/seminars.

VPH Wahba intimated the Board of ANAFIDE about the 1st Cairo Water Week to be organized by ENCID which will be held in October 2018. During the event, it is proposed to form the 1st African Young Professional Forum. ANAFIDE, on its part, will publicize the event among its members and particularly will encourage the participation of Moroccan young

professionals and faculty members. The conference will be preceded by a capacity building week for the African participants. At the end of their visit, PH Nairizi and VPH Wahba expressed their contentment

towards the arrangement facilities offered at IAV Hassan II for hosting the 5th African Regional Conference in 2020. Mr. El Bouari, Mr. Ziyad, and Dr. Hammani expressed their full

cooperation and support for making the conference a success and assured collaborative support to ICID and its member countries.



Indian Members of the World Water Council Meet in Jodhpur

A coordination meeting of the Indian Members of the World Water Council (WWC) was held on 28-29 April 2018 in Jodhpur, Rajasthan State of India. Organized by Jal Bhagirathi Foundation (JBF), the meeting aimed to spearhead the effort for providing a major impetus to India in WWC and to work as a united front to make Indian representation visible both at the Governing Board of WWC and in various task forces that will be formed for design and management of the next Forum in Dakar, Senegal.

The meeting was well-attended by all current and prospective members of the WWC including ICID, which was invited to the event and was represented by Dr. Sahdev Singh, Director (Knowledge Management). ICID has been instrumental in the setting up of WWC as one of its founding members and served two terms in the Governing Board of WWC.

H.H. Maharaja Gaj Singh ji of Jodhpur and Chairman-JBF chaired the meeting and gave the welcome address. During his address, he raised the pressing issue of the bludgeoning Indian population suffering from water-related issues and the urgency to participate in the decisions pertaining to the life-critical resource. H.H. Gaj Singh ji highlighted that there is



an increasing competition between rural and urban water users which requires policy deliberation at various levels to better manage the existing finite water resources.

Ms. Kanupriya Harish, Member-Executive Committee WWC gave a broad overview of the working of WWC and later presented the organization working structure and task-force procedures within WWC. She highlighted the need for finding innovative ways for all the members to work in cohesion for better functioning of WWC.

Congratulations poured in for Mr. Prithvi Raj Singh, Managing Trustee (JBF) for being elected as the Governor in the Board of the WWC in 2016 and the first resident of the Indian Sub-continent who became a Governor in the Council Board.

The session was followed by an open house discussion and participants'

views on WWC. Dr. Singh, ICID highlighted the declining importance of agricultural water and its impact on rural development, particularly the developing countries. He proposed that ICID, being the founder member of WWC, can play an important role in increasing the international

visibility of grassroots level organizations so that all aspects of water are discussed on the global forum. ICID appreciated wholeheartedly the efforts made by JBF in the WWC Fora. In the past, ICID has contributed significantly in the WWC member initiatives on 'World Water Systems Heritage' and 'Water Accounting' and therefore could serve as a neutral platform to facilitate dialogue among the diverse stakeholders in water sector so that broadly-agreed solutions at both policy and technology levels are obtained.

The last session deliberated on forming a national level water council for Indian members to raise water issues with various government and international agencies. Jal Bhagirathi Foundation has volunteered to facilitate and provide support to various Indian organizations wishing to be a part of this new national council.



International Conference and 69th International Executive Council Meeting of the International Commission on Irrigation and Drainage, 12-17 August 2018 Saskatoon, Saskatchewan, Canada

Theme: Innovative and Sustainable Agri-Water Management: Adapting to a Variable and Changing Climate

Come, Join us in Saskatoon in 2018 for the next ICID International Conference and IEC Meetings

Network and share your knowledge and expertise related to sustainable agriculture

Three sub-themes

- Competing water demands

- Resilient agriculture – adapting agriculture to climate change
- Irrigation and drainage in perspective

A diverse, international audience: Scientists, policy makers, program managers, agri-business reps and non-profit development agencies

Tours (Pre, Post, Technical): Highlighting innovative and adaptive irrigation and drainage management as well as an opportunity to see parts of the diverse Canadian landscape

For more, please visit: www.icid2018.org

Virtual Meetings

1st Management Board Meeting

The First Virtual Meeting (1/18) of the Management Board (MB) was convened at the venue of the 8 ARC in Kathmandu, Nepal on 3 May 2018. President Reinders chaired the meeting which was attended by PH Dr. Saeed Nairizi, VPH Dr. Ding Kunlun, VPH Bong Hoon Lee and Secretary General Pandya as Member Secretary. Vice Presidents Ian Makin, Dr. K. Yella Reddy and Er. Madhav Belbase were also invited as special invitees.

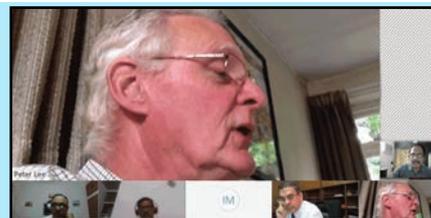


The meeting aimed to discuss matters pertaining to ICID programs and to further

seek MB's guidance and approval on renaming of Heritage Irrigation Structures (HIS) as World Heritage Irrigation Structures to enhance the level of the award so as to provide better recognition to the ancient works in the field of irrigation. Regarding the World Water System Heritage (WSH) Program all the members were of the view that ICID should play a more proactive role in its joint membership with WWC and to further set up a meeting with WWC Secretariat to work out the necessary arrangements. In addition, proposal for taking up the celebration for the 70th ICID Foundation year between 24 June 2019 to the conclusion of the year in 2020 were discussed with the board.

TT-RO Meeting

The Virtual Meeting of the Task Team to study the feasibility of Single Membership for Regional Organizations (TT-RO) was held on 9 May 2018 as a follow up to the decision of the 68th International Executive Council (IEC) meeting held in Mexico on 14 October 2017. PH Peter Lee chaired the meeting and was attended by VPH Wahba, VP Ian Makin and Secretary General Pandya.



The meeting aimed to take into consideration the recommendation of single membership for regional organizations representing a group of countries such as SARIA and its implications and recommendations, including the consequent changes in Constitution and By-laws of ICID. One of the recommendations of the meeting was to incorporate Latin American and Caribbean Region into ICID as a single member with regional representation. Further, TT shall present its report to the Permanent Committee on Strategy and Organization (PCSO) in the upcoming 69th IEC meeting in Saskatoon, Saskatchewan, Canada in August 2018.

Value Engineering Workshop in Iran

Dr. Kamran Emami, Chairman, Taskforce on Value Engineering (VE) recently organized a successful workshop session on VE for a team of 25 young professionals engaged in the water and agriculture sector from the Institute for Technology and Resources Management in the Tropics and Subtropics (ITT) of Technical University of Cologne, Germany; Agricultural Sciences and Resource Management in the Tropics and Subtropics (ARTS) of the University of Bonn, Germany and Environmental Sciences Research Institute of the Shahid Beheshti University Tehran, Iran.

The workshop held on 8 March 2018 exposed the young minds to the importance of VE in today's world and further familiarized them with the history, concept, and applications of VE in irrigation, drainage and flood projects and techniques to increase benefits, reduce cost and ensure sustainable irrigated agriculture.

Dr. Emami's excellent presentation skills and coordination by Iranian National Committee of ICID (IRNCID) to facilitate the workshop provided a better lens to the young graduates on the concept of VE and served as an introduction during the excursion visit to observe some of the traditional water systems and also simultaneously learn from the ongoing projects as Iran carves out a new path towards efficient management



of its limited water resources. In addition, sparse knowledge among the participants created the right atmosphere of curiosity and positioned them in the right spot to unravel the concept and learn about its benefits across the entire developmental domain.

During their study visit, YPs learnt the stepwise implementation of water projects in Iran and assimilated knowledge related to the systematic and structured approach that VE uses through problem-solving activities focusing on improving the value of the functions that are required to accomplish the goals and objectives of water resources management.

Moreover, it helped them understand the importance of VE in water resources projects and the different applications of Value Methodology, i.e., Value Engineering, Value Analysis, Value Planning, Value Management and Value Engineering Change Proposal.

From the concept of creativity and ethics to cost saving in projects, the VE workshop further raised questions and opened avenues for collaboration towards practices leading to improvement of water resources management as well as piqued interest to upscale VE beyond the scope of water resources towards Sustainable Development Goals (SDGs).

Finally, the workshop helped the participants to comprehend the importance of VE in water resources projects and beyond, emphasized the role of traditional and natural infrastructure in water resources management (Qanats) and provided an opportunity to introduce the ICID Young Professionals e-Forum (IYPeF) to them to encourage their involvement in various ICID activities.

In their feedback, the young professionals shared excerpts of their thoughts about the VE workshop at such an important time when various competing demands for water are ravaging the globe and called for mainstreaming the young professionals into the water sector early in their career. They expressed their appreciation for Dr. Emami for organizing the workshop and thanked IRNCID for the provision of facilitation materials to the participants. They also acknowledged ICID Central Office's role in upscaling the VE concept into the realm of irrigation and drainage and beyond.

Training of Young Asian Professionals in China

ICID in association with the Chinese National Committee on Irrigation and Drainage (CNCID) and support from the Korean National Committee on Irrigation and Drainage (KCID) organized a five-day YP training program to hone the skills of the budding young professionals on the theme "Performance Assessment of Irrigation Systems" from 9-13 April 2018 at China Hall of Science and Technology in Beijing, China.

The training program mainly focused on the physical, institutional, organizational and participatory management aspects of the irrigation systems and was attended by 19 participants from 14 countries namely, Australia, India, Iran, Iraq, Nepal, Pakistan, Sri Lanka, Tajikistan, Thailand, Uzbekistan, Korea, Indonesia, Myanmar and Iran.



station of Institute of Water and Hydropower Research (IWHR), China. YPs got an opportunity to broaden their understanding on various topics by international speakers, who shared their experiences on the subject such as the need for a framework, performance indicators, techniques and tools for performance assessment, modernization, and management of irrigation systems.

The inaugural session held on 9 April 2018 began with a welcome address by

regionally. Er. Harish Varma, Executive Director, ICID gave an overview of the training program and followed it with an introductory presentation on the concept of 'modernization.' The program covered topics such as need for and framework of performance assessment of irrigation and drainage systems; modernization approach and overview; techniques and tools for performance assessment; Rapid appraisal procedure, MASSCOTE and MASSMUS approach; strategies of rehabilitation and modernisation of irrigation systems including structural, non-structural and management interventions in modernization of irrigation systems; and measurement devices, canal lining, water management practices, etc.

Experiences from South Africa (President Reinders), China (PH Dr. Gao Zhanyi) and India (SG Pandya) for performance improvement and modernization of irrigation systems were shared with the participants. Mr. Amit Parashar, Principal Research Consultant, CSIRO Land and Water gave a presentation to the participants on 'Basin Futures: Supporting water planning in data sparse basins-Australia.' In their feedback, participants from various countries appreciated the exposure they received during the training as it armed them with the latest techniques and gave them the insight and skills to further improvise.



On 13 April 2018, a joint field visit of trainees and workshop participants was organized to Dayu Group of Companies to see their plant manufacturing drip and sprinkler irrigation equipment and later to physical modelling and experimental

Prof. Wang Aiguo and Mr. Li Ge, Secretary General Pandya gave a brief introduction about ICID and its endeavour to promote capacity development program to attract young minds to AWM sector by organizing training programs for YPs

First International Conference on Water Security

The First International Conference on Water Security will be held from 17-20 June 2018 in Toronto, Canada. Organized by Elsevier, the central goal of the conference is to advance the science needed to make informed decisions about water allocations now and in the future. The conference will welcome academics, thinkers and practitioners from around the world to present, discuss and highlight key issues and directions for change from scientific and policy perspectives on water

security, including data needs and how data can be acquired, successful public and private sector business models in different settings, political opportunities and obstacles, what the expressed human needs are, and where the knowledge gaps exist.

It will provide a forum for face-to-face dialogue designed to complement the production of the journal *Water Security*, which focuses on review and synthesis

articles covering the field. In addition, workshops will be organized to further promote scientific interaction. The aim is to nurture effective participation with the goal of delivering tangible ideas to synthesize and report at the end of the conference.

For more, download the program overview @ <https://www.elsevier.com/events/conferences/water-security-conference>

Workshop on Enabling the Business of Agriculture 2017 Report

The World Bank Group initiative entitled “Enabling the Business of Agriculture (EBA) 2017 Report” was presented at a day-long workshop on 5 April 2018 in New Delhi, which gathered around 30 key players from different stakeholder groups within India’s agribusiness sector including government, non-governmental organizations, private sector, knowledge/research institutes, development agencies, and academia.

The main objective was to discuss the EBA 2017 Report that marks the first cycle in which India has been included in the EBA dataset. The report, third in the series, released in February this year has presented data that measure legal barriers for businesses operating in agriculture in 62 countries and across 12 topic areas. It provides quantitative indicators on regulation for seed, fertilizer, machinery, finance, markets, transport, information and communication technology (ICT), and water. Two overarching themes - gender and environmental sustainability - continue to be included in the report analysis to ensure that the messages developed by EBA encourage inclusive and sustainable practices. India’s ranking on seed indicator is at 21, fertilizers at 18, machinery at 21, finance at 15, market at 43, transport at 49, ICT at 18 and water at 53. In addition to an analysis of national-level regulations, EBA piloted a subnational study at the state level to assess variation in business environments between states and to understand how sensitive EBA indicators are to such

variation. Four Indian states- Bihar, Maharashtra, Odisha and Uttar Pradesh were selected for this purpose.

The launch event, attended by ICID, was characterized by the high level of interest, engagement and positive response of the audience, and highlighted the use of EBA for country-level analysis. Experts from agribusiness sector were asked to share their views on EBA findings and suggest ways to take forward the report’s recommendation for India. It aimed to spread awareness to adjust the policy perspective more in alignment with the concept that agriculture should be viewed as an entrepreneurial activity and not a cultural compulsion of the society. It drove the point to improve knowledge and understanding of this business environment, which can help governments to establish appropriate regulatory systems that ensure the safety and quality of agricultural goods and services without being overly costly or burdensome on market actors.

The first session on ‘EBA presentation’ dealt with discussions on EBA 2017 Report. Martien Van Nieuwkoop, Director, Agriculture Global Practice (GP), World Bank set the scene with his opening remarks. Dr. Ashok Dalwai, CEO, National Rainfed Area Authority, Ministry of Agriculture & Farmers Welfare stated that agriculture is the oldest enterprise of mankind. The current thinking is linked with doubling of farmer’s income which indicates a shift in policy circle that the economic aspect of agriculture should

be given due consideration. He stated that more impetus needs to be given to linking farmers to markets through e-NAM (National Agriculture Market) which leverages ICTs for the benefit of fair trade in agricultural commodities. The government, on its part, should adopt the approach of less regulation and more facilitation in the agriculture sector.

The launch event was followed by a technical session on ‘Developing State Agribusiness Index for India’ that discussed the EBA methodology and findings. It deliberated that the methodology used in small countries is not applicable to India as diversity in agro-ecological zones, local culture, value, food habits, and local institutions play a critical role in agricultural activity. Hence, for a country like India the approach should be state-based for data collection in conjunction with comparative analysis of the states.

At the end of the workshop, feedback was collected on the relevance and use of EBA indicators nationally, and participating entities expressed their interest in the ongoing engagement. The participants heralded EBA as a valuable tool for all the stakeholders working in the agriculture sector, particularly as it allows learning from the experiences of others and sharing one’s own experience with the global community.

Access Full EBA 2017 Report @ <http://eba.worldbank.org/>



HURRY!! HURRY!! ICID Invites Nominations for 2018... Last few days left...

WatSave Awards

Nominations are invited for the ‘WatSave Awards 2018’ from individuals/team through National Committees/Committee. The 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.

The awards will be presented during the International Conference and 69th International Executive Council Meeting of the International Commission on Irrigation

and Drainage from 12–17 August 2018 in Saskatoon, Saskatchewan, Canada. The deadline for receipt of the entries from the National Committees along with a completed ‘Nomination Form’ and related details to the ICID Central Office, New Delhi is 31 May 2018.

For more info, please visit - http://www.icid.org/awards_ws.html or <http://www.icid.org/>

Heritage Irrigation Structures (HIS)

Nominations are invited from ICID National Committees for the inclusion of “Heritage Irrigation Structures” (HIS) in the ICID Register that includes both old operational irrigation structures as well as those having an archival value. National Committee can also nominate

more than one structure, using separate nomination form for each. Associated Members and non-member countries can nominate their structures through the neighbouring active national committees or by submitting directly to the ICID Central Office.

The fourth batch of the Heritage Irrigation Structures will be included in the ICID Register of Heritage Structures and will be presented a “Plaque”, citing the salient features of the HIS during the 69th IEC meeting in Saskatoon, Canada. The last date for receipt of nomination to the ICID Central Office is 31 May 2018.

For more information about the criterion for selection procedure please visit: http://www.icid.org/his_award.html

69th ICID Foundation Day Celebration

The International Commission on Irrigation and Drainage (ICID) will be celebrating its '69th Foundation Day' on 24 June 2018. It is a matter of great pride and jubilation for the ICID fraternity to observe the Foundation Day by re-dedicating to the mission of ICID through its increasing network of member countries spread across the globe. ICID requests all the National

Committees/Committee/Direct Members to commemorate the day as 'ICID Foundation Day' by organizing a variety of events including scientific/professional meetings, brainstorming sessions, essay and drawing competitions to create awareness about the current issues on water and food security in the domain of agricultural water management.

All the NCs are requested to provide a brief feedback on the celebration of the Foundation Day along with some good quality pictures (in JPG/GIF/TIF format) to the ICID Central Office (E-mail: icid@icid.org) for its coverage in the upcoming issue of the ICID News Update.



IYPeF 4th e-Discussion: Climate Change Impacts on Irrigation and Drainage

The fourth e-discussion in the ICID Young Professional e-forum (IYPeF) was successfully held from 15-30 April 2018 on the topic "Climate Change Impacts on Irrigation and Drainage." The e-discussion aimed to discuss the following objectives: (a) Ensure all Irrigation and Drainage Young Professionals understand climate change phenomena (b) Share insights on impacts of climate change in young professional's country (c) Elaborate on successful adaptation and mitigation measures that are being practiced in their region (d) Describe the importance of climate change research, scenario development, data availability, and data accuracy on informing decisions about mitigation of climate change impacts; and (e) Discuss the role of governments, international donors, institutions, and agencies to implement potential adaptation and mitigation measures.

The e-discussion, led by Mr. M. Shoaib Saboory (Afghanistan) as the discussion

coordinator, supported and facilitated knowledge and information exchange amongst the young professionals on increasing the understanding of climate change impacts on food security, including various dimensions such as irrigation, plant yields, and supply chains.

Dr. Thomas Mosier (USA), Climate Change Specialist at the World Bank Group was the mentor for the e-discussion. He noted that the current challenge is that climate change is occurring relatively rapidly, requiring societies to adapt at an especially uncomfortable pace. Dr. Mosier emphasized that the diversity in current farming practices brings a wealth of experiences that could enable all to learn from each other and adapt more quickly to the varying agricultural challenges while creating climate benefits. He hoped that initiatives such as e-discussions should be promoted and could act as a great forum to share experiences from around the globe on climate change. Dr. Sahdev

Singh, (Dir-KM) ICID also participated in the discussion and contributed several comments on the topic.

Young professionals actively participated in the discussion and expressed their views surrounding climate change on its varying facets and what could be done to adapt to its impact—or better, mitigate the causes. The detailed discussion can be accessed at <https://www.linkedin.com/groups/6990321>.

The last e-discussion in the series is scheduled from 15-31 May 2018 on the topic "Farmer led Innovation for water efficiency, shared global success stories" to be led by Ms. Kathleen Heuvel (Australia) as discussion coordinator. All YPs are requested to actively participate in the e-discussion by expressing their views and make it a success like the previous ones through the open online forum.



Two Women Scientists to receive ICRISAT's highest scientific award

For their path-breaking research two Indian women scientists – Dr. Mamta Sharma and Dr. Pooja Bhatnagar-Mathur have been awarded the Doreen Margaret Mashler Award 2018 by the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) for their work in the field of plant pathology and biotechnology, respectively. The award was announced by ICRISAT's governing board.

Dr. Sharma's research work promises to make crops disease resistant and produce a greater yield. She specializes in the epidemiology of plant diseases and pathogens, focusing on disease-resistant breeding in chickpea and



pigeon pea, two of ICRISAT's mandate crops. In 2017, she led a team that developed the Loop-Mediated Isothermal Amplification (LAMP) method to identify a pathogen affecting chickpea and over 500 crops globally. She also established

the Centre of Excellence on Climate Change Research for Plant Protection to address the effects of climate change on insect-pests and diseases. Her work on identifying new multiple disease-resistant sources has helped researchers

in breeding programmes across the globe in understanding the mechanism of inheritance of resistance.

Equally brilliant, Dr. Bhatnagar-Mathur, the co-recipient of the award, led an international, multi-institutional effort, for innovative biotechnology solutions to combat aflatoxin in groundnut using a 'double-defence' approach. These include engineering ground nuts to stop *Aspergillus flavus* by the

production of small proteins called defensins. Successfully isolating and characterizing the gene which causes cytoplasmic male sterility in pigeon pea, she made it possible for ICRISAT in 2016-17 to file its first ever patent. Describing her future professional goals, Dr. Bhatnagar-Mathur intends to build mutually-beneficial newer collaborations and partnerships that ultimately benefit smallholder agriculture.

The Doreen Margaret Mashler Award is an endowment by Dr. WT Mashler and was instituted in the memory of his wife. Dr. Mashler was the Chairman of ICRISAT's Governing Board for three years and instrumental in its founding in 1972. The award that includes a plaque and a citation will be presented to the proud women achievers during the ICRISAT Governing Board meeting in 2018.



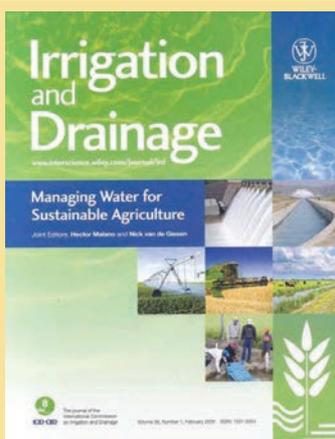
ICID Journal on Irrigation and Drainage Volume 67.2

The ICID journal, Irrigation and Drainage is now available online with its latest Volume 67.2, published in April 2018. The new volume is FREE via Wiley online library for all ICID Office Bearers, Workbody members and subscribers.



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9th International Micro Irrigation Conference (IMIC), 16-18 January 2019, Aurangabad, Maharashtra, India. For more info contact: Mr. Anuj Kanwal, Member Secretary, Indian National Committee on Surface Water (INCSW); Email: incswcwc@gov.in; Website: <http://cwc.gov.in/>

70th IEC Meeting & 3rd World Irrigation Forum (WIF3), 1-7 September 2019, Bali, Indonesia. Contact: Ir. Adang Saf Ahmad, CES, President, INACID; Email: inacid.indonesia@gmail.com; adangsafa@yahoo.com; Website: <http://www.icid2019.org>

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

Other Events

11th International Conference on Irrigation and Drainage, Phoenix, Arizona, USA, 16-19 October 2018. For more details, visit: <http://www.uscid.org/18azconf.html>

14th International Conference on Monitoring, Modelling and Management of Water Pollution, 22-24 May in Coruña, Spain. For more details visit: <http://www.wessex.ac.uk/conferences/2018/water-pollution-2018>

Irrigation Australia International Conference and Exhibition, 13-15 June 2018 in Sydney, Australia. For details, visit <http://iaice.com.au/conference>

Global Water Security for Agriculture and Natural Resources (GWSAN): An ASABE Global Initiative Conference, 3-6 October 2018, Hyderabad, India. For more details visit: <http://www.asabewater.org/>



Post Graduate Programmes by Indian Institute of Technology (IIT) Roorkee, India

The Indian Institute of Technology (IIT) Roorkee invites applications for the Post Graduate Programmes in Water Resources Development & Irrigation Water Management for the year 2018-19. Applications must reach latest by 15 June 2018 to notify selected candidates by last week of June. Sponsorship is also available under Government of India Scholarship/ Fellowship, United Nations/ESCAP Fellowship, and Commonwealth Scholarship categories. Application of candidates sponsored by foreign governments for admission should be submitted to Indian mission in their country.

Further information about eligibility for admission to the course and fellowship is available @ <https://www.iitr.ac.in/Main/news/2018/bro22012018.pdf>

Events Corner

ICID Events

International Conference and 69th International Executive Council Meeting

of the International Commission on Irrigation and Drainage, 12-17 August 2018, Saskatoon, Canada. For more details visit: <http://www.icid2018.org/>; Brochure available at http://www.icid.org/brochure_69iec.pdf

News Buzz: ICID National Committees

Egypt (ENCID)

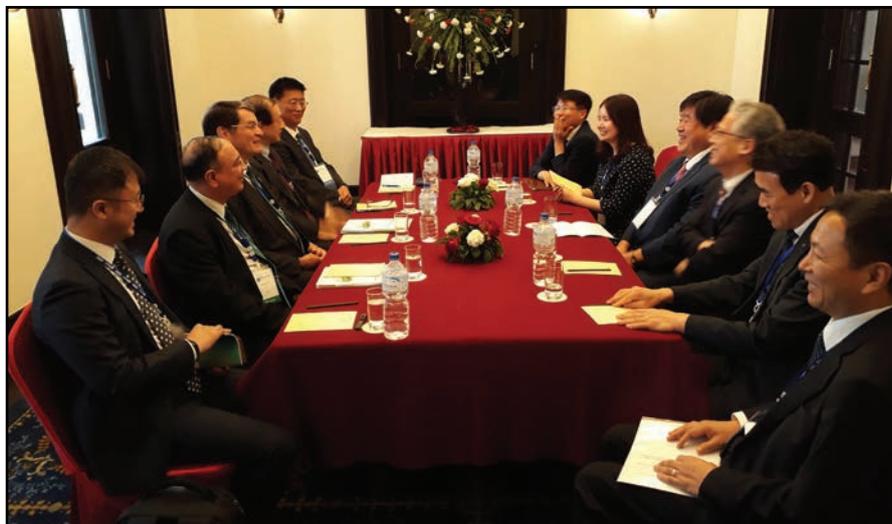
The first meeting of the Egyptian National Committee on Irrigation and Drainage (ENCID) headed by VPH Dr. Mohamed Wahba, President of ENCID and Chair of AFRWG was held on 10 April 2018. During the meeting, the role of ICID, its vision and mission and various different activities including a draft vision for the future activities of ENCID at national and international levels were presented and discussed. During the meeting, discussions were also held regarding the progress in the preparation of the First African Young Professional Forum scheduled during the Cairo Water Week from 14-18 October 2018 in Egypt and to activate the young professional group of the committee.

China (CNCID)

The Chinese National Committee (CNCID) organized a 2-day workshop entitled "Innovations of Irrigation Technology" on 14-15 April 2018 for the young professionals. PH Dr. Gao Zhanyi in his opening remarks gave an introduction to the participants about the role of innovation in irrigation as water conservation is a growing concern throughout the world and that new developments in technology are helping to make this process much easier than ever before. President Reinders, SG Pandya, Dr. Marco Arcieri and many others shared their respective country experiences for innovations in irrigation technology and its impact on agricultural production. Other key concepts like smart fertigation, dripline production, smart water management, ET by satellite technology to enhance crop productivity and further aid in creating a secure world food system were also discussed. The workshop concluded with a discussion wherein participants raised issues on use of new technological innovations and gave suggestions to harness its full potential.

Korea (KCID)

The Korean delegation and ICID Office Bearers held a meeting at the sideline of the 8ARC on 2 May 2018. The meeting was attended by President Reinders, VP



Naoki Hayashida, VPH Ding Kunlun and Secretary General Pandya. The Korean delegation headed by Mr. Kyu Sung Choi, KRC CEO and KCID President included VPH Bong Hoon Lee, Mr. Jung Suk Jang, Mr. Jeon Yong Ryu and Mr. Jung Chul Lee. Mr. Choi, KCID President apprised that the tenure of Mr. Geumjun Lee, currently working at ICID Central Office as TSU expert, will be extended for an additional six months to provide support to the Technical Support Program (TSP).

ICID expressed thanks to KRC and KCID for supporting the YPs in Indonesia and Myanmar in facilitating their participation in the training program and workshop for Asian young professionals organized by CNCID in Beijing, China. In response, KRC and KCID assured their continuous support to ICID activities for the young professionals and mentioned that plans are in pipeline to organize an international training program for YPs at RC-IEEC, KRC, Korea in April 2019. Additionally, ICID intimated that the 1st African Young Professional Forum is scheduled in October 2018 and therefore seek

financial support to make it a success. President, KCID Mr. Choi assured that KRC has been discussing the issue with VPH Wahba and proposed KRC's support for the first African Young Professional Forum.

USCID (USA)

U.S. National Committee on Irrigation and Drainage (USCID) is organizing the 11th International Conference on Irrigation and Drainage, to be held in Phoenix, Arizona, USA from 16-19 October 2018. The theme of the conference is 'Water Reuse and Non-Traditional Water Sources for Irrigated Agriculture.' The conference aims to present and discuss various concerns regarding water reuse and non-traditional sources of water for irrigated agriculture. In addition, implications for groundwater recharge and environmental concerns will also be explored. The conference will provide a forum for water district staff, water agency staff, irrigation and drainage specialists, consultants, equipment suppliers and academics to share innovative solutions and learn from other's experiences. Water resources professionals from abroad are especially welcome to attend and share their experiences.

For more information, please visit: www.uscid.org/18azconf.html



ICID•CIID

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