

News Update



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

International Commission on Irrigation and Drainage (ICID)

AUGUST-SEPTEMBER 2018

From Secretary General's Desk...

Dear Colleagues,

This special issue highlights the various activities of ICID, its members, partners and other water sector stakeholders. Obviously, the major event last month was the International Conference and 69th IEC Meeting of ICID in Saskatoon, Canada involving more than 500 global experts. It was a pleasure to meet many of you at Saskatoon during the 6-day international event that covered a significant variety of technical and social activities. I hope you all had a safe journey back home and now head on to your professional mission.



I am pleased to share with you that the Indian National Committee on Surface Water (INCSW) will be organizing the upcoming 9th International Micro-Irrigation Conference (9IMIC) from 16-18 January 2019 at Aurangabad, India. The conference aims to provide a platform to promote micro-irrigation as one of the improved water-efficient irrigation technologies and invite the researchers, entrepreneurs, policymakers and other stakeholders in the water sector to share their views and experiences of new technologies and best management practices in drip, micro-sprinkler and other localized irrigation systems.

Aurangabad city is very close to Jain Irrigation's sprawling campus which houses

their R&D labs as well as a large commercial-scale facility for farmers' training and field demonstration center. I believe, it is the right place for the micro-irrigation conference and participants would benefit from the study tour to Micro Irrigation projects which is a part of the conference. I would like to take this opportunity to request you all to kindly share the announcement in your professional networks so that we are able to attract abstracts from professionals engaged in high-quality research and development work on micro-irrigation.

The main theme of the conference is 'Micro Irrigation in Modern Agriculture' with Sub-theme 1: Micro Irrigation Design, Innovations, and New Techniques for increased Crop Productivity; Sub-theme 2: Micro Irrigation fund and Government support through Micro Irrigation; Sub-theme 3: Micro Irrigation for Cluster Level Farming & small farm holders; and Sub-theme 4: Operation & Maintenance Services and Capacity Development for the Micro Irrigation Systems.

Through this message, I would like to personally invite you all to be a part of India's first of its kind major international event on micro-irrigation. More information on the conference is just a click away: <http://micro-irrigation2019.com>

Best Wishes,

Ashwin B. Pandya
Secretary General

ICID elected as member in WASAG Steering Committee



ICID has been elected as one of the members of the 1st WASAG (Global Framework on Water Scarcity in Agriculture) Steering Committee. The members were approved during the 9th ISC and 1st Steering Committee meeting of WASAG held on 27 August 2018 during the World Water Week (26-31 August 2018) organized by SIWI (Stockholm International Water Institute). VP Dr. Marco Arcieri (ITAL-ICID) represented ICID during the meeting. ICID as one of the partners of WASAG has been contributing as a co-lead in the Working Group (WG) 'Transitions to Sustainable Agriculture Water Use' led by International Food Policy Research Institute (IFPRI). Additionally, it is also working on communication strategy for the network in collaboration with the WASAG Support Team.

WASAG brings together key players across the globe and across sectors to tackle the collective challenge of using water better in agriculture to ensure food security for all. It is an initiative for partners from all fields and backgrounds to collaborate in supporting countries and stakeholders in their commitments and plans related to the 2030 Sustainable Development Agenda, the Paris Climate Agreement (including implementing nationally determined contributions) and other plans and programmes related to agriculture and water. For more details, please visit: <http://www.fao.org/land-water/overview/wasag/en/>

Highlights of the Issue

- + Saskatoon hosts International Conference and 69th International Executive Council Meeting of the International Commission on Irrigation and Drainage, 12-17 August 2018
- + ICID Webinar on Negotiations for Resolution of Transboundary Water Conflicts by Hon. Ms. Karlene Maywald (Australia), 1 August 2018
- + Seminar on River Action Plan, Flood Management and Basin Development in New Delhi, 27-28 July 2018
- + ICID members promote Asian Regional Cooperation
- + 1st Cairo Water Week on Water Conservation for Sustainable Development in Egypt, 14-18 October 2018

Sustainable Water Use – A Priority

International Conference and 69th International Executive Council Meeting



Over 500 experts from around the world gathered in Saskatoon, the heart of the Canadian Prairies to attend the International Conference and 69th IEC Meeting of ICID from 12-17 August 2018. Canadian Water Resources Association (CWRA) in collaboration with the Canadian National Committee (CANCID) organized the six-day conference with participation of experts, researchers, policy makers, government officials, irrigators and the private sector professionals from around 41 countries.

The main theme of the conference **“Innovation and Sustainable Agri-water Management: Adapting to a Variable and Changing Climate”** further explored three sub-themes during the technical sessions held at the Teachers Credit Union (TCU) Place, Saskatoon.

Sub-theme I: Competing Water Demands

Sub-theme II: Resilient Agriculture – Adapting Agriculture to Climate Change

Sub-theme III: Irrigation and Drainage in Perspective.

President Honoraire Dr. Chandra A. Madramootoo conducted the opening ceremony and on behalf of the Government of Canada, Hon'ble Ralph Goodale, Minister of Public Safety and Emergency Preparedness welcomed the audience and wished the event all the success. Hon'ble Goodale remarked that water is critical to agriculture in the Prairies and to realize that potential in the face of frequent severe floods and droughts caused by climate change, better water management is essential. Dr. John Pomeroy, Director of the Global Water Futures Program, University of Saskatchewan, kicked off the plenary session and provided an overview of some of the key challenges related to climate change including extreme floods and droughts.

President Felix Reinders pointed to the fact that as the water resources in the world remains the same, the population is growing and therefore we need to find solutions, methodologies and technologies to address the need for constant food supply. Secretary General A.B Pandya drew the attention of the members to the Action Plan 2017-21 for the Road Map to ICID Vision 2030, International Research Program on Irrigation and Drainage (IRPID), role of Technical Support Program (TSP), Knowledge Management Strategy and other issues that required special consideration during the event.

Dr. Peter McCornick, Executive Director of the Daugherty Water for Food Global Institute at the University of Nebraska talked about challenges related to increasing food production for a growing world population and reflected on how effective water management is needed in order to ensure a more productive and resilient agricultural sector. Mr. Maurice Molony, Executive Director and CEO of the Global Institute for Food Security discussed technologies for crop growth and productivity.

Mr. Warren Helgason, ICID Conference Co-Chair emphasized that as the globe experiences an increasingly variable climate, the need to share information regarding sustainable agricultural water management has never been greater.

Mr. Roger Hohm, President, CANCID gave an overview of irrigation and drainage in Canada stating that the region of Canada has adopted many leading-edge technologies to manage and distribute its limited water resources and further elaborated on the activities undertaken by the CANCID.

The last ICID gathering in Canada was held in Montreal in 2002.

Major Decisions taken at the 69th IEC Meeting

Organizational Matters

- The Council elected Dr. Marco Arcieri (Italy) Dr. Kamran Emami (Iran) and Mr. Ahmed El Bouari (Morocco) as Vice Presidents for the period 2018-21.
- Approved the nomination of VP Dr. Brian T. Wahlin (USA) as the Chairperson of PCSO.
- Adopted the amendments to the By-laws 3.9.5 (c) concerning PCSO Membership and thereby appointing Coordinator IYPEF as Vice-chair of PCSO

- Approved the direct membership of Mr. Sajid Ali Bhutto (Pakistan) under Individual Category for three years.
- Approved the Letter of Agreement (LoA) for Hosting Congresses/World Irrigation Forums/Regional Conferences/International Micro Irrigation Conferences/International Drainage Workshops between ICID and respective Host NCs.
- Approved future ICID future events listed below:
 - ❖ 9th International Micro Irrigation Conference, Aurangabad, India, 16-18 January 2019
 - ❖ 70th IEC and 3rd World Irrigation Forum, Bali, Indonesia, 1-7 September 2019
 - ❖ 5th African Regional Conference to be held at Rabat, Morocco, March 2020
 - ❖ 71st IEC and 24th Congress, Sydney, Australia, 22-28 September 2020
- ❖ Working Group on Non-Conventional Water Resources for Irrigation (WG-NCWRI)
- ❖ Task Force to Guide ICID Inputs to 9th World Water Forum (TF-WWF9)
- ❖ Working Group on Adaptive Flood Management (WG-AFM) – In Principle
- ❖ Task Team on Transboundary Water Management and Effect on Agriculture Water Management (TT-TWM-AWM)– In Principle
- ❖ WG on Rain Water Harvesting.(WG-RWH)
- ❖ Task Force on Legislative Framework on Agricultural Drought Mitigation for European Region (TF-LFADMER)
- Approved the Theme and Questions for 25th ICID Congress in 2023
- Approved the Theme and Sub-Themes for WIF4 in 2022

Technical Matters

- Approved the revised and renamed “World Heritage Irrigation Structures (WHIS)” Scheme
- Knowledge Management Portal to be launched in a year’s timeline.
- Approved the establishment of three Regional Nodes of IRPID – one each in Africa, Mediterranean and CA & Caucasus Regions.
- Approved the establishment/re-establishment of the following Working Groups, subject to fulfilling the guidelines:
 - Working Group on Irrigation and Drainage in the States under Socio-economic Transformation (WG-IDSST)

Financial Matters

- Approved the Audited Accounts of ICID for the Financial Year (FY) 2017-18, Revised Budget for FY 2018-19 and the Budget for FY 2019-20
- Approved the revised Registration Fee Structures for the 3rd World Irrigation Forum in Bali, Indonesia in September 2019 and the 5th African Regional Conference in Rabat, Morocco in March 2020.
- In-principle approval to the recommendations of Special Task Force on Independent Business Unit (STF-IBU) for the development of detailed proposal and obtain necessary approvals for launch of an Independent Business Unit as part of 70th Year Celebrations to mark the establishment of ICID.

Awards and World Heritage Irrigation Structures (WHIS)

Awards

The **Best Paper Award for 2018**, selected out of the papers published in the ICID’s Irrigation and Drainage Journal during the year 2017 was presented to:

1. Abdullah Darzi-Naftchali, Fatemeh Karandish and Ahmad Asgari (IRAN) for their paper entitled “Diagnosing Drainage Problems in Coastal Areas Using Machine-Learning and Geostatistical Models” published in Volume 66, Issue 3.
2. R.E Abdelraouf (Egypt) and Dr. Ragab Ragab (UK) for their paper entitled “The Benefit of Using Drainage

Water of Fish Farms for Irrigation: Field and Modelling Study Using the SALTMED Model” published in Volume 66, Issue 5.

The above papers can be viewed or download at http://www.icid.org/awards_paper.html

The WatSave Awards 2018 were given under 3 categories:

- **Technology:** Mr. John Hornbuckle, Mr. Jamie Vleeshouwer and Ms. Janelle Montgomery (Australia) for ‘Designing a Weather-Based Irrigation Management and Benchmarking Technology Mobile App, ‘IrriSat’.



- o **Management:** Mr. Richard Phillips (Canada) for 'Designing a Decision Support System - Alberta Irrigation Management Model (AIMM)'.
- o **Young Professional:** Mr. Amirali Fatahi and Ms. Fatemeh Sadat Mortazavizadeh (Iran) for 'Generated Significant Savings in Irrigation Water by Adding Fuel from Livestock Wastes to Agricultural Land'

The details of these Awards can be viewed or download at http://www.icid.org/awards_ws.html#Awards2018

World Heritage Irrigation Structures (WHIS)

14 World Heritage Irrigation Structures (WHIS) were recognized and presented plaques by VPH Bong Hoon Lee and included in the ICID Register of WHIS 2018

China

1. Changqu (Bai Qi) Canal
2. Dujiangyan Irrigation System
3. Jiangxiyan Irrigation System
4. Lingqu Canal

India

1. Large Tank (Pedda Cheru)
2. Sadarmatt Anicut

Italy

1. Aqua Augusta and Piscina Mirabilis

Japan

1. Kitadate Irrigation System
2. Gorobe Irrigation System
3. Tsukidome Irrigation Canal
4. Shirakawa basin Irrigation system

Sri Lanka

1. Elahera Anicut
2. Kantale Wewa
3. Sorabora Wewa



New ICID Leadership: Vice-Presidents (2018-2021)

Dr. Marco Arcieri, Italy

Dr. Marco Arcieri is presently the Secretary General of the Italian National Committee on Irrigation and Drainage (ITAL-ICID). In his professional career spanning more than 20 years he has contributed to various studies and research in agricultural water management, land and water resources development, irrigation and drainage, flood prevention, drought monitoring, forecasting and mitigation. With his wide expertise he has visited around 40 countries in order to implement international research projects and to attend advanced professional specialization courses.



Dr. Arcieri has been serving as a technical researcher in the Italian Ministry of Agriculture (INEA, National Institute of

Economics & Agriculture), conducting several surveys in Italy and abroad. He is the member of ICID since 2008 and was elected as Vice President of ITAL-ICID in 2011. He is also a active member of the ICID Working Group on "Water and Crop" and "History" and has been appointed by ICID as the Permanent Observer to UN Agencies FAO and IFAD.

Since April 2017, he is the representative within the "Global Framework on Water Scarcity (GFWS) now WASAG - an International initiative coordinated and fostered by UN FAO to cope with water scarcity under the threat of climate change. Dr. Arcieri is also a member of the Interim Steering Committee and Focal Point for Working Group on "Sustainable Use of Water Resources" of WASAG led by ICID. Dr. Arcieri is also a member of the FAO-WWC driven initiative "Water Accounting in Agriculture" and Head of the Regional Node for the Mediterranean Area within the International Research Program for Irrigation and Drainage (IRPID) Program of ICID.

Dr. Kamran Emami, Iran

Dr. Kamran Emami holds a Ph.D in Civil Engineering with 28 years of professional experience in water projects pertaining to Water Resources Management, Flood Management, Value Engineering and Water History. He is currently the Head of the Board and Managing Director with the Kurit Kara Consulting Engineers. Prior to this he was a Technical Adviser to Water and Power Development Company (1993-2007) and Senior Advisor in the Technical Office of Power Ministry, Iran (1994-2005).



Dr. Emami has a long working association with ICID and served as its Chairman of Working Groups on Comprehensive approaches to flood management (WG-AFM); History of Irrigation and Drainage and Flood control (WG-HIST) and Task Force on Value Engineering (TF-VE). Born in 1962,

Dr. Emami has conducted around 20 researches on water engineering and flood management and penned many books in Persian and English. He has contributed to around 120 technical papers with keynote lectures in various conferences and workshops.

Mr. Ahmed BOUARI, Morocco

Mr. Ahmed BOUARI is presently serving as Director in the Directorate of Irrigation and Agricultural Planning (DIAE) at the Ministry of Agriculture, Fisheries, Rural Development and Forests. Prior to that he was the Head of the Development Division/Directorate of Irrigation and Agricultural Land Planning from 2009-2013. Born in 1964 at Ouezzane, Morocco, Mr. BOUARI started his professional career as GR engineer in Project Coordination Unit PMH 2 financed by the World Bank. He later went on to head the office of the hydro-agricultural development works in charge of the preparation and the follow-up of rehabilitation works programs of the hydro-agricultural installations at national level.



During his administrative career, he participated in several internships, trainings programmes and seminars. He steered many projects under his able guidance and was in charge of irrigation and agricultural land planning programs at the national level. He also provided technical support to enforcement agencies to conduct studies and implementation of hydro-agricultural, land and rangeland development projects. Mr. BOUARI has made remarkable contributions to the success of Association Nationale des Ameliorations Foncières de l'Irrigation, du Drainage et de l'Environnement (ANAFIDE) activities and has been a vital nodal point for the development of ANAFIDE missions and its cooperation with ICID over the years.

Event Highlights



The conference organizers dedicated special sessions for young professionals and farmers and conducted workshops and symposia on specialized topics. Six concurrent sessions were held on socio-economic value of irrigation, water-food-energy nexus, climate change and its impact on agriculture, irrigation and drainage, and water reuse and water quality management. Agriculture and Agri-Food Canada (AAFC) hosted a workshop on the Agricultural Greenhouse Gas Program

being administered by AAFC. The workshop featured seven presenters who provided an overview of the various research efforts and studies being carried out under the program.

ICID meetings kicked off on 12 August 2018 with four workshops and meetings of the ICID working groups and task forces during the week. The meetings were broader in scope, seeking to understand and develop solutions for regional and continental water resource management issues.

CANCID organized a special seminar on 14 August 2018 on the topic 'Development and Financing Models for Irrigation and Drainage Sector' in order to understand various options available for development and financing of irrigation infrastructure and its management and to learn from the merits and demerits of models already in use. Mr. Roger Hohm, President CANCID gave an introduction about the objective of seminar followed by a keynote speech on 'Overview of Development and Financing models' by Mr. Francois Onimus, Sr. Water Resources Management Specialist

in the Water Global Practice in the MENA region, World Bank. Presentations from different National Committees (NCs) and the private sector formed a part of the seminar that enabled to comprehend the challenges and risks associated with private sector participation in the development and management of irrigation sector. This was followed by a panel discussion and a plan for the way forward.

The special session on 'The Irrigation Production Forum' focused on the

challenges and opportunities that irrigation producers face in a fast-changing world and session on 'The Financing Irrigation Forum' emphasized the government support for infrastructure development and rehabilitation. It was noted that Canada has a considerable amount or high ratio of private investments in water infrastructure when compared to other countries. Panelists noted that cost-sharing between private industry/irrigators and governments varies considerably around the world.

International Workshops

A total four workshops were organized by the ICID Workbodies on 12 August 2018.

- 1. Institutional and Organizational Setup of Irrigation and Drainage Management System (WS-IOA):** It was chaired by VPH Dr. Hafied A. Gany (Indonesia) and focused on institutional and organizational aspects of IDM schemes, with new institutional and organizational developments, methods and approaches. It was based on the review of experiences and approaches with Institutional and Organization Aspects (IOA) targeted to managers of irrigation and drainage schemes in the countries or regions that are represented based upon size of land holding, level of agricultural income and technology practices towards sustainable agriculture water management.
- 2. Historical Water Sustainability (WS-HIST):** The workshop primarily focused on the water wisdom of the past, which was achieved over a period of hundreds of years and can be regarded as a unique and irreplaceable gift from our ancestors to our generation facing the great challenge of ensuring sustainable development. It delved on three core areas: (i) Water and Sustainability (ii) Case studies of Sustainable historical water schemes; and (iii) Water Wisdom of the past and lessons learned.
- 3. Adaptive Flood Management: Recent Great Floods and Lessons Learned (WS-AFM):** The workshop

traced the increasing damage caused by major floods worldwide that pose major threat to sustainable irrigated agriculture, which could further jeopardize global food security. The workshop addressed adaptive strategies and worldwide experiences to cope with inherent uncertainties of flooding.

- 4. Dry Drainage and Bioreactors or Green Infrastructures (WS-SDRG):** Mr. Bernard Vincent (France) chaired the workshop that aimed to address the techniques to design or manage drainage for improving water quality, controlling quantities of water and preserving the soil quality (controlled drainage, constructed wetlands, bioreactors, green infrastructures).

Exhibitions: The event provided a great opportunity for exhibitors to showcase and promote their organization, products, technologies, and services, and to engage with delegates from around the world. There were 28 exhibitors representing

government, industry, academia, non-government organizations, national committees and other host countries.

Pre-Conference Tour: Around 40 conference delegates joined the tour of South Saskatchewan River Irrigation District which included an overview of the various local crops such as field peas, canola and lentils grown within the irrigation district in south-central Saskatchewan. Irrigation research, agronomy advancements, tools and technologies as well as, the many partnerships of the Canada-Saskatchewan Irrigation Diversification Centre (CSIDC) in Outlook, Saskatchewan were also highlighted. The Little Seed Potato Company's research farm highlighted the use of sub surface drainage in seed potato production. Tour participants also had the opportunity to see large-scale farm equipment being used in Canada for crop production and a cattle farm that uses irrigation in order to increase herd size and productivity.



Technical Tours: Three conference tours were offered to provide delegates with an overview of irrigation, drainage, sustainable water management, agricultural practices and research being carried out in Canada. Tour 1 provided an overview of the South Saskatchewan River Irrigation District (SSRID) including its water conveyance infrastructure that supplies water to 27,000 hectares of farmland as well as, to municipalities, industrial clients, parks and wildlife. Tour 2 took over 30 delegates to Saskatoon area irrigation farms to see a variety of crops and value-added products such as syrup, jam and gin. One of the tour stops was Black Fox Farm and Distillery, owned and operated by John Cote and Barb Stefanyshyn-Cote. The farm, located southwest of Saskatoon, has 80 acres under irrigation, growing everything from pumpkins and flowers to raspberries and haskaps for liqueurs. All done through drip irrigation in order to ensure a reliable crop with 90% of the ingredients needed for the value-added products being produced on their farm. Another stop was at Feitsma Dairy where forages are irrigated to ensure higher quality of feed for cattle which results in higher milk quality. Tour 3 took conference delegates to the University of



Saskatchewan's Innovation Place which is home to several world class research facilities, institutes and organizations. Innovation Place has helped grow Saskatchewan's tech sector and provides a supportive environment for startup and early stage technology companies. It is one of North America's most successful university-related technology parks.

Accompanying Persons Program: Several activities were organized for accompanying persons from 12–17 August 2018 including a visit to the

Saskatchewan Western Development Museum. Interesting cultural tours and activities were also organized that highlighted the rich diversity of life in and around Saskatoon.

Post-Conference Tour: The four-day tour from 18–21 August 2018 started in Saskatoon, winded its way through irrigation areas in southern Saskatchewan and Alberta and concluded in Banff National Park, nestled in the majestic Rocky Mountains.

ICID Members promote Asian Regional Cooperation

During the Canada event, the Chinese Taipei Committee (CTCID) and the Indonesian National Committee (INACID) have inked a five-year bilateral Memorandum of Understanding (MoU) on 14 August 2018 to enhance mutual cooperation in three areas including technology, human resource development and knowledge management.

In 2017, a MoU was signed between Korean National Committee on Irrigation and Drainage (KCID) and CTCID and a mutual consensus to initiate future cooperation had been reached among CTCID, INACID and Malaysian National Committee on Irrigation and Drainage (MANCID). CTCID successfully organized an international conference and invited delegations from INACID and MANCID to discuss their strengths, challenges and prospects of future cooperation in agricultural water management.

Moreover, CTCID also arranged technical tour for the delegation to visit local irrigation associations and to enhance their knowledge through study of innovative techniques and practices in irrigation and drainage.

In accordance with the ICID's mission to promote exchange of information, knowledge and networking, it is reported that linkages among various NCs in Asian Regional Working Group (ASRWG) have been achieved profoundly.

In this endeavour, CTCID has also yielded good networking with INACID and MANCID since last year in Mexico. Besides, another MoU is expected to be signed between CTCID and MANCID by the end of the year. In the meanwhile, CTCID has also welcomed further cooperation with other Asian regional countries.



The MoU Signing between CTCID and INACID

3rd IYPeF Meeting of ICID Young Professionals Forum

The 3rd meeting of the ICID Young Professional e-Forum (IYPeF) was held on 14 August 2018 during the 69th IEC meeting in Saskatoon, Canada. YPs from all over the world participated in the meeting and the attendance was further enriched by the presence of President Reinders and other ICID members. The meeting aimed to present the report on the actions taken regarding the IYPeF 2018 agenda and further discussed the agenda for 2019 including a series of thought provoking e-discussions and webinars along with interesting content to be shared on an integrated platform of new social media. The ICID YP coordinators during the meeting encouraged other YPs from around the world to join the IYPeF LinkedIn group <<https://www.linkedin.com/groups/6990321>> and participate in e-discussions and webinars on topics relating to irrigation and drainage with



rich and interesting content. It also announced the soon to be launched IYPeF WordPress site and to keep a tab on the latest happenings and posts of IYPeF via twitter @ICID_YPeF.

IYPeF Training Workshop: Irrigation in Western Canada - From Mountains to the Plains

CANCID in collaboration with ICID Central Office organized a full-day training workshop on 16 August 2018 for the young professionals on the topic "Irrigation in Western Canada - from the Mountains to the Plains." The goal was to provide an overview of agricultural water management in Western Canada since early 1900s, with a focus on how water source (mountain snowmelt) has affected infrastructure development and organization/legislation of water distribution. Around 30 young professionals from around the world travelled to the Canada Saskatchewan Irrigation Diversification Centre (CSIDC), located 95 kms south of Saskatoon in Outlook, Saskatchewan. Participants had an opportunity to discuss lessons learned in Western Canada and their potential application in other regions in the world and to share insights from their region that could be applied to water management.

During the morning session, the young professionals learnt how irrigation has developed, been regulated and maintained in Western Canada. The workshop started with a class-room lecture at the Canada-Saskatchewan Irrigation Diversification Centre (CSIDC).



President Roger Hohm (CANCID) gave an outline of the Irrigation water demand and supply in Western Canada. Jennifer Nitschelm (Alberta Agriculture & Forestry) demonstrated the organization and legislation of irrigation in Western Canada. The YPs were further educated about the functioning of irrigation districts by Margot Redelback (Alberta Irrigation Projects Association) and Brian Bartel (South Saskatchewan River Irrigation District).

In the afternoon session, a field trip by CSIDC staff was organized for the YPs to explain the solar irrigation systems,

horticultural irrigation and need for precision agriculture and irrigation followed by a hands-on experience in soil sampling and to learn about innovative technology in irrigation scheduling such as the use of a ground conductivity meter (EM 38) for field mapping and using unmanned aerial vehicles for remote sensing. The various activities outlined in the training workshop roved around innovative and practical aspects of agriculture water management and culminated with rich interactive discussions and feedback from the YPs.

World Biofuel Day 2018

World Biofuel Day is observed each year on 10 August with an aim to raise awareness about the significance of non-fossil fuels which can be used as an alternative to fossil fuels. Biofuels help reduce import dependency on crude oil and can also contribute to a cleaner environment, generate additional income for farmers and generate employment in rural areas. It can provide fresh momentum to economic growth in the 21st century as the fuel produced from

crops can change lives of people in both villages and cities. The transformative potential of biofuels can be realized only through participation of students, teachers, scientists, entrepreneurs and the people.

Towards this endeavour and with the emerging new challenges for agricultural water management, ICID established a Task Force (TFBIO-ENERGY) in 2010 headed by VPH Laurie C. Tollefson to

evolve its position on Water for Bio-Energy and Food. The task force was renamed as WG BIO-ENERGY during the 64th IEC meeting in Mardin in 2013. The Chair with core members completed a technical report with contributions from all group members during the 22nd ICID Congress and 65th IEC meeting in Gwangju in 2014. To know more on ICID WG-BIO-ENERGY, please visit: http://www.icid.org/wg_bio_fuel.html

Seminar on River Action Plan, Flood Management and Basin Development

To discuss and deliberate the magnitude of problems pertaining to Water Management, Sedimentation, Flooding and Pollution in rivers experienced across India, the Consulting Engineers Association of India (CEAI) successfully organized a seminar on 'River Action Plan, Flood Management and Basin Development' on 27-28 July 2018 in New Delhi.

The two-day seminar was attended by around 150 delegates engineers from various Government Departments, Public Sector Firms, Consulting firms, Contracting companies and engineering institutions to consider a holistic approach, discuss the challenges and opportunities and to make recommendations to the Government. The proceedings were organized in seven sessions covering (i) River Basin Management; (ii) Integrated Flood Management; (iii) Climate Change and Sustainability; (iv) Pollution Abatement; (v) Current Policies and Effectiveness; (vi) International experiences; and (vii) Institutional Strengthening and Capacity building.

Eminent speakers from the industry presented their views on the subject



Er. Masood Husain, Chairman, CWC and INCSW addressing the audience

including Central Water Commission, ICID, IWAI, NDMA, NMCG, MoEF&CC, NITI Aayog, IITs, ADB, World Bank, SUEZ, TCE, Royal Haskoning DHV and STUP. Secretary General A.B Pandya and Executive Director Harish Varma represented ICID and pitched in as the session chair and speaker respectively.

The Inaugural session began with a keynote address by Mr. U.P. Singh, Secretary Ministry of Water Resources, River Development and Ganga Rejuvenation. Mr. S. Masood Husain, Chairman, Central Water Commission was the Guest speaker.

SG Pandya chaired the session 'Policies for Effectiveness' identifying key interventions required and policy initiatives through legislations for effective water governance being presently undertaken. He stated that making effective policies is an arduous task. Based on commonality of principles, once a policy is designed, it must be translated into legislation for the greater good of the people. To further effectively implement the policies on ground there is a need to have a consensus-based approach.

Er. Harish Varma gave a presentation on 'Constitutional Provisions related to Water' and pointed that in India water is a State subject, but it is explicitly made subject to the provisions of Entry 56 in the Union List which enables the



Union to deal with inter-State rivers if Parliament legislates for the purpose. While drafting water policies this needs to be integrated taking into account the sense of water scarcity and crisis that now looms large. Er. Varma stressed that a new factor not foreseen even a few decades ago is climate change and stressed its impact on dwindling water resources. He emphasized that this is a subject which is still under study and research, but it is clear that coordinated action will be called for not only at the national level but also at the regional and international levels.

The seminar concluded with a panel discussion underlining the challenge for water management is primarily due to less water in river basins that are already stressed, necessitating stricter scrutiny by decision makers and civil society. Therefore, management of water resources and river basins must ensure functioning of the ecosystem as a paramount goal.

Dr. Narges Zahrabi appointed as Head of IRAN-Regional Node

Dr. Narges Zahrabi, who is currently the Executive Secretary of ICID International Research Program for Irrigation and Drainage (IRPID) - Iran Regional Node has been appointed as the Head of the Iran-Regional Node. Previously, Dr. Moanem was the Head of IRAN-Regional Node, who announced his retirement from the position w.e.f August 2018.

On 16 July 2018, the Iran Regional Node of IRPID (IRPID-RN-I) held its annual meeting of the Management Board through WebEx meeting. The virtual meeting was attended by Secretary General Pandya and Executive Director

Varma. The agenda items for the meeting primarily focused on:

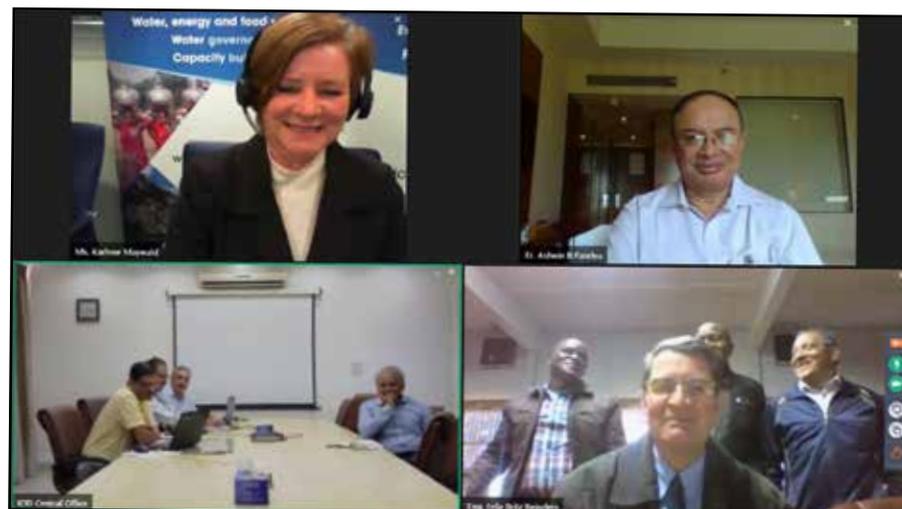
1. Reviewing the Action Plan
 - a. Comprehensive data bank on irrigation and drainage research activities and outcomes among ICID member countries.
 - b. Promote member countries capability for collaborative projects and implement such joint activities.
 - c. Established periodical meetings, conferences, exhibitions and workshops.
 - d. Support capacity development activities through training courses and/or workshops that will be proposed or to be held by members.
- e. Knowledge sharing platform and cooperation network with other national, regional and international organizations, whose interests and activities are related to the mission of IRPID.
2. Reviewing the proposal to use the capacity of Technical Support Program (TSP); and
3. Scheduling to hold capacity development training tours between the member countries.

Webinar Highlights

11th Webinar: Negotiations for Resolution of Transboundary Water Conflicts

Hon. Karlene Maywald (Australia), who is the current Board Chair of ICEWaRM (International Centre of Excellence in Water Resources Management), delivered an ICID webinar on the topic 'Negotiations for Resolution of Transboundary Water Conflicts' on 1 August 2018. The webinar primarily focused on how Australia over the years tackled its water challenges in order to build resilience. President Reinders opened the webinar with his welcome remarks followed by a brief introduction of the speaker by Secretary General Pandya. Executive Director Varma, Dr. Singh, Dir-KM and Mr. Madhu Mohanan, Communication Officer from ICID Central Office also participated in the webinar. Mr. Srinivas Chokkakula, Research Professor, Centre for Policy Research participated as an observer.

Hon. Ms. Maywald addressed the policy and political changes that Australia has made and explored the need for science to enable evidence-based decision making to underpin transboundary negotiations and the impact of community behavioural change. She provided an insight into the National frameworks and co-operative agreements that led to



change in Australia and emphasized that while both State and Central Government politicians must accept the need for change, it is also critical for communities to understand the benefits of change and importantly the risks of not changing.

Hon. Ms. Maywald also explained how securing infrastructure investment through Basin Planning creates water security which becomes an economic enabler of prosperity by creating confidence for long term investment by governments, irrigators and the private sector. She stressed that governments who consider policy reform with infrastructure investment are more likely to deliver long term, sustainable solutions.

The webinar concluded with a question/answer session, wherein participants raised their queries to the speaker pertaining to various concepts like 'Basin Planning' and 'building capacity and resilience' to meet such type of challenges.' This is the 9th webinar given under "ICID 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.html> supported with presentations and collected resources.

Visitors to ICID Central Office

Mr. Momir Vranes, Irrigation Australia's Committee on Irrigation and Drainage (IACID) visited ICID Central Office on 24 July 2018 and held a meeting with SG Pandya, Executive Director Varma and Dr. Singh (Dir-KM) to discuss several matters including the possibility of formation of a new Working Group on Rainwater Harvesting and a session

of the WG during the Canada meeting held last month. He also discussed about the session on presentation of National Papers on financial models during the IEC meetings and other similar matters concerning IACID. To enhance the role of IACID in ICID activities, Mr. Momir indicated IACID's interest to nominate more experts from Australia

in the Working Group on Capacity Development, Training and Education (WG-CDTE). He suggested that based on his discussions with Food and Agriculture Organization (FAO), FAO expertise would benefit the proposed working group on rainwater harvesting.

1st African Young Water Professional Forum

During the CWW, the African Regional Working Group (AFRWG) will seize the occasion to establish the African Young Water Professional Forum (Af-YWPF) and to organize the first meeting of the forum. The three-day workshop for the young water professionals will include the declaration of the establishment of Af-YWPF, a training workshop and technical sessions to mainstream the youth towards the abundant lucrative opportunities present in irrigation and agriculture.

The Forum will cover a wide range of areas including utility, government, research, private consulting and

industry engagement. This includes various hands-on-training workshops and seminars to train the young professionals with scalable capacities and to play a more proactive role within their organization and to retrain their colleagues (train the trainer). The event will bring together Africa's future leaders from the private sector, research and government institutions around the central theme of water conservation for sustainable development. They would get an opportunity to showcase their knowledge and contribution to achieve sustainable water management in an international setting, share their experiences and to broaden the horizon of

new and experienced water professionals.

During the last few years, ICID has taken the initiative of strengthening the Young Professional Forum aimed at building the capacity of young professionals and creating a new generation of water leaders capable of facing the future water challenges. This year too, ICID is actively participating and providing support to the Af-YWPF by sponsoring 5YPs from African region.

For more info, please visit <http://www.cairowaterweek.org/> or Email: info@cairowaterweek.org

ICID e-Publications Available Online

ICID Annual Report 2017-18

ICID has published its Annual Report 2017-18 for the period (April 2017-March 2018). An e-version of the report provides a comprehensive account of activities undertaken by the Commission with the dynamic support of its member



countries and international partners during the period and is available for download from the website <http://www.icid.org/ar_2017.pdf>.

The AR presents a brief summary on the activities of National Committees, Direct Members and Working Groups; Activities at Regional Level; Key ICID Events; Working Together with Partners; ICID Awards; Knowledge Dissemination and Communication; Capacity Development Activities; Financial Management and Facts & Figures.

23rd ICID Congress Report

The 23rd International Congress on Irrigation and Drainage hosted by the Mexican National Committee of ICID (MXCID) and the CONAGUA was successfully organized in close cooperation and in partnership with FAO, World Bank and other International Partners from 8-14 October 2017 at Mexico City, Mexico. The



Congress provided an opportunity to the policymakers, planners, farmers, youth and the industry to participate in the dialogue for the need of a new green revolution. The detailed report is now available on the website http://www.icid.org/23rdcong_report2017.pdf

1st Cairo Water Week: Water Conservation for Sustainable Development

The Government of Egypt and Ministry of Water Resources and Irrigation in collaboration with international partners will organize the first Cairo Water Week (CWW) from 14-18 October 2018 in Egypt. CWW aims to promote water awareness, foster new thinking about the



most pressing water-related challenges and take actions towards integrated water resources management and conservation for sustainable development. The Main Themes are (i) Water Management for Sustainable Development; (ii) Climate Change

and Environment; (iii) Water Scarcity, Health, Sanitation Challenges and Opportunities; (iv) Science, Technology and Innovation; and (v) Transboundary Water Governance and Benefit Sharing.



ICID finds mention in WWF8 Report

The 8th World Water Forum, held in the city of Brasilia, Brazil from 18-23 March 2018, marked the largest edition in the history of the event. The Forum brought water to the top of political and societal agendas. The publication “8th World Water Forum Highlights” reflects the breadth of impact and outcomes of the event. While it showcases the novel statements, innovative ideas, joint commitments and collective efforts that resulted, it also provides a strong impetus and inspiration for the next tri-annual

process, which will culminate in the 9th World Water Forum in Dakar, Senegal.

The WWF8 coverage report highlights ICID's contribution during the forum giving special mention to White paper released by the World Water Council (WWC) and FAO: “Water accounting for water governance and sustainable development” and “Policy recommendations on water accounting” to which ICID contributed significantly. (Page 17)

The publication also highlights the World Water System Heritage (WSH) Programme launched by ICID and WWC that values people-centered water management systems, organizations, regimes and regulations thereby encouraging their preservation. (Page 21)

The report is now available for download: Outcomes-of-8th-WWFForum_WEB.pdf <<https://bit.ly/2MAheFp>>



At a Glance: Upcoming Major Events

Global Water Security Conference 2018

The American Society of Agricultural and Biological Engineers (ASABE) in collaboration with the Indian Society of Agricultural Engineers (ISAE) is organizing a conference on ‘Global Water Security for Agriculture and Natural Resources’ (GWSC) from 3-6 October 2018 in Hyderabad, India with ICID as a partner to discuss current and future water security problems. The conference will aim to bring together farmers, researchers, practitioners, entrepreneurs and policy makers on a common platform and to share research and discuss creative solutions that can be applicable at various scales in different regions. President Felix would be one of the keynote speakers.

For more details, kindly visit: <http://www.asabewater.org>

Asian Water Forum 2018

The Asian Water Forum (AWF) 2018 will be held from 2-4 October 2018 at ADB Headquarters, Manila, Philippines.

The key theme will focus on information, innovation and technology. The event will provide a platform to over 300 water-sector stakeholders to share knowledge and experiences on state-of-the-art advancements and build further cooperation to help ensure water security throughout the Asia-Pacific Region.

For more details, please visit: <https://www.adb.org/news/events/asia-water-forum-2018-information-innovation-and-technology>.

Workshop: Latest Investigations, Repair & Rehabilitation Technologies for Dams

The Aqua Foundation Academy in association with Central Board for Irrigation & Power (CBIP), ICID and the World Bank is organizing a workshop on ‘Latest Investigations, Repair & Rehabilitation Technologies for Dams’ from 4-5 October 2018 in New Delhi, India. The organizing committee is chaired by Secretary General A.B Pandya (ICID). The objective of the workshop is to generate awareness among

the participants on the various latest technologies available for Investigations of Dams; Instrumentation in Dams and; Repair and Rehabilitation of Dams.

Brochure can be downloaded by clicking <https://bit.ly/2JcpwMU>

11th International Conference on Irrigation and Drainage

U.S. National Committee on Irrigation and Drainage (USCID) is organizing the 11th International Conference on Irrigation and Drainage on the theme ‘Water Reuse and Non-Traditional Water Sources for Irrigated Agriculture’ to be held from 16-19 October 2018 in Phoenix, Arizona, USA. 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.

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

Our Future Water: Young Water Leaders Berlin Event

The Young Water Leaders Berlin Event is hosting its first ever global conference on sustainably managing water resources to achieve water security on 7 November 2018 in Berlin, Germany. Organized by Our Future Water, the event will connect current and future water leaders to discuss the creation of a water-secure world. It will address achieving water security through bridging communities – water specialists, points of view, and generations; generating and disseminating knowledge through fact-based analysis; and advocating for water education at all levels to build a community of water leaders that can see and solve water challenges from various vantage points.

In addition to gaining the latest knowledge on water security, the day offers multiple networking opportunities for:

- Current leaders networking with future leaders;
- Current leaders networking with current leaders; and
- Future leaders networking with future leaders

'Our Future Water Berlin' is a global event that invites all current leaders and future leaders to attend to achieve water security for present and future generations. All backgrounds are invited to be part of the future of water management.

For more details, please visit: <http://www.ourfuturewater.com/berlin/>

THA2019 International Conference

An International Conference on 'Water Management and Climate Change towards Asia's Water-Energy-Food Nexus and SDGs' will be held in Bangkok, Thailand from 23-28 January 2019. The conference will provide a great opportunity to researchers, scientists, practitioners and policy makers to share and present new advances, research findings, perspectives and experiences in Disaster Irrigation and Water Management towards Nexus (WEF) and Sustainable Development Goals.

For more details, please visit: <http://www.tha2019.org>.



Nutrition Champions Win World Food Prize 2018

Dr. Lawrence Haddad and Dr. David Nabarro were announced as the 2018 World Food Prize Laureates during a ceremony at the U.S. Department of Agriculture. The Prize rewards their individual but complementary global leadership in elevating maternal and child undernutrition within the food security and development dialogue both at national and international levels thereby reducing the world's number of stunted children by 10 million from 2012-2017.

Dr. Haddad, a pioneer in food policy research advocated the issue of nutrition using economic and medical research to convince development leaders to make child nutrition an urgent priority in the global food security agenda while serving as head of the Institute of Development Studies (IDS) in the United Kingdom from 2004-2014. Dr. Haddad now serves as Executive Director of the Global Alliance for Improved Nutrition (GAIN), where he continues to lead private and public sector partners in improving nutrition outcomes.

Dr. Nabarro, as head of the UN High-Level Task Force on Global Food Security from 2008-2014 and Coordinator of the United Nations Scaling Up Nutrition (SUN) Movement from 2010-2014 united 54 countries and one Indian state under the SUN Movement to implement evidence-based policies and fight child malnutrition in South Asia and Africa. After adopting SUN guidelines many participating countries reported a significant decline in the number of stunted children. Dr. Nabarro continues to oversee SUN through his service on its advisory Lead Group.

The winning duo joins the list of illustrious scientists, policy officials and hunger fighters



who have been named World Food Prize Laureates over the past 32 years. Their work has deepened the understanding of nutrition's impact not only on individual health but on human capital and economic growth-compelling leaders in countries across the world to invest in evidence-based solutions. The nutrition champions will receive the coveted prize (\$250,000) at a ceremony in the Iowa State Capitol building in Des Moines, Iowa on 18 October 2018.

The World Food Prize is the most prominent global award for individuals whose breakthrough achievements alleviate hunger and promote global food security. Sometimes referred to as the Nobel Prize for Food and Agriculture, it was founded by Norman E. Borlaug, an agricultural scientist. Since 1987, the prize has been conferred to scientists, social engineers, politicians, international food program administrators and others.

The World Food Prize is looking for the next generation of young people to carry on the legacy of Borlaug. And the year 2019 awaits its next Norman Borlaug...!!

For more info, please visit: www.worldfoodprize.org/FoodPrize18.

News Buzz: ICID National Committees

CANCID (Canada)

The Canadian Committee for Irrigation and Drainage (CANCID) held its Annual General Meeting on 14 August 2018. Over 15 CANCID members participated



in the meeting and discussed the past year activities and planning efforts by the CWRA and CANCID in hosting the International Conference and the 69th IEC Meeting held in August 2018 in Saskatoon, Canada. Mr. Warren Helgason, University of Saskatchewan was elected as the new CANCID President for a three-year term. In addition, the hosting of future ICID meetings and/or conferences was also discussed.

INCSW (India)

A committee meeting was held on 2 August 2018 at Central Water Commission (CWC) in New Delhi to deliberate on the event proceedings

and preparations for the upcoming 9th International Micro Irrigation Conference (9IMIC) to be held from 16-18 January 2019 in Aurangabad, Maharashtra. Mr. Masood Husain, Chairman CWC along with INCSW members presided over the meeting. Secretary General Pandya and Executive Director Varma from ICID during the meeting discussed the participation of the Indian delegation in the International Conference and 69th IEC Meeting held at Saskatoon, Canada in August 2018. The agenda of the meeting further focused on the themes and sub-themes, abstracts submission, participants, registration process, event set up including technical program and publications to be released during the 9IMIC in 2019.

CTCID (Chinese Taipei)

Prof. Ray-Shyan Wu has assumed charge as the new Secretary General of CTCID w.e.f May 2018. Prof. Wu also served as CTCID's Deputy Secretary General for many years and during his professional tenure lent his expertise and guidance to the ICID Working Group on Climate (WG-CLIMATE). CTCID Secretariat has also notified change in their postal address:

P.O. Box 65, Tamshui Hongshulin
New Taipei City- 25199
Chinese Taipei (R.O.C)

KCID (Korea)

Ms. Sang-hee PARK has assumed charge as the new Secretary of the Korean

National Committee (KCID). All NCs are requested to note the change and future correspondences may be sent to:

Ms. Sang-hee PARK Secretary
Korean National Committee on Irrigation and Drainage (KCID), 3F, Rural Research Institute, Korea Rural Community Corporation (KRC), 870, Hae-an-ro, Sangok-gu, Ansan-si, Gyeonggi-do, 15634
Tel : +82-31-400-1675,
Email : kcidkr@gmail.com,
Website : <http://www.ekcid.org>

Special thanks to outgoing Secretary Jisun KIM for his valuable contribution and guidance to the National Committee during his tenure.

Irrigation and Drainage Volume 67.S1

The latest volume of Irrigation and Drainage journal 67.S1, published in August 2018, is now available online. The Special issue includes 'Sustainable Development of Tidal Areas: Climate Change and Environmental Impacts' with contribution from Prof. Ruey-Chy Kao, Prof. Hsiao-Wen Wang and Dr. H.P. Ritzema as Guest Editors. ICID National Committees – Japan (JNCID), Korea (KCID) and Chinese Taipei (CTCID) with support from National Cheng Kung University in Tainan, Chinese Taipei have also given their special contribution to the publication. The new volume 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 is 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 2018 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).

Events Corner

ICID Events

9th International Micro Irrigation Conference (IMIC) on the theme 'Micro Irrigation in Modern Agriculture', 16-18 January 2019, Aurangabad, Maharashtra, India. For more info contact: Mr. Anuj Kanwal, Member Secretary, Indian National Committee on Surface Water (INCSW); Email: incsw-cwc@nic.in; 9imic@wapcos.co.in; Website: <http://micro-irrigation2019.com/>

70th IEC Meeting & 3rd World Irrigation Forum (WIF3) on the theme 'Development for water, food and nutrition security in a competitive environment', 1-7 September 2019, Bali, Indonesia. Contact: Ir. Adang Saf Ahmad, CES, President, INACID; Email: inacid.indonesia@gmail.com; adangsafa@yahoo.com; Website: <https://icid2019.com/>

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

45th IAH Annual Congress, 9-14 September 2018 – Daejeon, Korea. For more details, please visit: <http://www.iah2018.org/>; Email: info@iah2018.org

IWA World Water Congress and Exhibition, 16-21 September 2018 – Tokyo, Japan. For more details, please visit: <http://worldwatercongress.org/>

First Annual Western Groundwater Congress, 25-27 September 2018 –

Sacramento, U.S. For more details, please visit: <https://www.grac.org/events/151/>; Email: serck@grac.org

SADC-GMI Groundwater Conference, 26-28 September 2018 – Johannesburg, South Africa. For more details, please visit: <http://sadc-gmi.org>; Email: brighton@sadc-gmi.org

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/>

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

1st Latin American and Caribbean Young Water Professionals Conference, 5-8 November 2018 – Queretaro, México. For more details, please visit: <http://www.lac-ywpconference.org/index.html>

8th Global FRIEND-Water Conference-Hydrological Processes and Water Security in a Changing World, 6-9 November 2018 – Beijing, China. For more details, please visit: <http://8thfriendwater.iwhr.org/>

Iberian Congress on Groundwater, Environment, Health and Heritage, 12-15 November 2018 – Salamanca, Spain. For more details, please visit: http://www.aih-ge.org/wp-content/uploads/Congreso_ASMASP/Primera_circular_Salamanca.pdf; Email: aih-ge@aih-ge.org

International Dam Safety Conference (IDSC) 2019, 13-14 February 2019, Bhubaneswar, Odisha, India. For more details, please visit: <https://damsafety.in/idsc2019/>; Email: idsc-cwc@gov.in



ICID·CIID

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