

# News Update



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

International Commission on Irrigation and Drainage (ICID)

OCTOBER 2018

## From Secretary General's Desk...

Dear Colleagues,

As I gear up to participate in the upcoming African Young Water Professional Forum (Af-YWPF) in Cairo, Egypt next week, I am delighted to share that ICID is now spreading its wings and testing new horizons in the form of partnerships around the globe that synergize our common quest to improve water productivity of the agricultural sector to address challenging issues of global hunger, higher demand for food, dwindling freshwater availability; all this in a seemingly unpredictable climate change scenario. The only miscalculation we can make right now is by grossly underestimating the magnitude of the task that lies ahead. To achieve the same, we all need to be in the mission mode and focus our efforts that translate ICID Vision 2030 into ground reality.

Just last week, our ICID President Felix Reinders delivered a keynote speech during the Global Water Security Conference (GWSC) for Agriculture and Natural Resources in Hyderabad, India wherein he echoed the sentiment I have expressed above. The conference was yet another example how ICID is now interacting with other like-minded organizations such as the American Society of Agricultural and Biological Engineers, the main organizer of the



GWSC. I, also chaired a session during the conference on 'Advanced Waste Water Treatment' and how it can be monitored and made suitable for irrigation.

As our freshwater availability for food production is stressed, we need to look out for newer sources of water for irrigation, improve irrigation efficiency by reducing transport losses, precision application and better management. ICID also made its presence felt by two paper presentations by its Knowledge Management Team.

Other notable achievements and outcomes of ICID's recent efforts have been the establishment of a Working Group on Rainwater Harvesting which will involve global partners; the upcoming 9th International Micro-Irrigation Conference in Aurangabad, India (9IMIC) in January 2019 to showcase new research and technologies that can lead to water saving in irrigation in the range of 40-50%; and accelerated preparations for the Third World Irrigation Forum (WIF3) in Bali, Indonesia in 2019.

I sincerely look forward to your esteemed presence in the above major events so that we all could unanimously ensure a continuity in our dialogue on better collaboration for finding solutions to the problems our sector faces.

Best Wishes,

**Ashwin B. Pandya**  
Secretary General

## SG Pandya discusses ICID's role in water diplomacy with Hon'ble External Affairs Minister Sushma Swaraj

SG Ashwin Pandya and Dr. Sahdev Singh recently held a meeting with the Hon'ble External Affairs Minister Sushma Swaraj on 17 September 2018 in New Delhi, India. The meeting aimed to brief the External Affairs Minister about ICID activities in various member countries in the form of capacity building, technology transfer, policy development consultancy, reconstruction of water infrastructure and transboundary negotiation on water sharing.

During the meeting SG Pandya highlighted that ICID has more than six decades of international experience with an already established network of 78 member countries and therefore could serve as a platform and synergetic facilitator to accelerate the water diplomacy initiatives of Ministry of External Affairs (MEA) to resolve various transboundary water sharing issues based on recent experiences pertaining to Baglihar and Kishanganga water sharing negotiations. He emphasized that ICID symbolizes the spirit of global cooperation in finding solutions to the most pressing problems faced by human communities around the world and added that ICID Working Groups have identified most of these issues, working on technical aspects of them and creating larger partnerships so that viable solutions can emerge in a timely manner.

SG Pandya explained that ICID promotes programmes to enhance sustainable development of irrigated agriculture, a primary requirement of many least developed and developing countries. The Government of India through MEA provides support in capacity building in various developing countries in which ICID can play a key role using its long-standing relationship in those countries, particularly with water related government

## Highlights of the Issue

- + ICID participates in Global Water Security Conference (GWSC) for Agriculture and Natural Resources held in Hyderabad, India | 3-6 October 2018.
- + Secretary General Ashwin Pandya discusses potential role of ICID with Hon'ble External Affairs Minister Sushma Swaraj in New Delhi, India.
- + SG Ashwin Pandya honoured with Lifetime Achievement award for Dam Safety by Aqua Foundation.
- + JOIN US: ICID Webinar on 'Water as Heritage' by Speaker Henk van Schaik on 14 November 2018 @ 1430 hrs (IST).
- + 9th International Micro Irrigation Conference (9IMIC) in Aurangabad, Maharashtra, India | 16-18 January 2019.
- + Call for Papers: Third World Irrigation Forum (WIF3) & 70th IEC Meeting in Bali, Indonesia | 1-7 September 2019.

agencies. ICID further pursued MEA to support its collaboration with various African, Central Asian and Latin American countries as it explores possible avenues for cooperation between countries.

MEA, on its part, assured that it would take up the issue with Ministry of Water Resources (MoWR) as well as senior government officials to provide support regarding participation of Indian

professionals and government delegates in major international events of ICID, its members and partners.



## Global Water Security Conference for Agriculture and Natural Resources

3-6 October 2018 | Hyderabad, India

In a bid to discuss present and future water security problems, the American Society of Agricultural and Biological Engineers (ASABE) in collaboration with the Indian Society of Agricultural Engineers (ISAE) organized the Global Water Security Conference (GWSC) for Agriculture and Natural Resources from 3-6 October 2018 in Hyderabad, India. ICID played a catalytic role in the conference from the very beginning during its planning stage and ICID President Felix B. Reinders was invited as a Keynote Speaker.

The three-day conference aimed to bring together renowned experts including researchers, practitioners, entrepreneurs, policy makers and farmers on a common platform to find solutions to problems plaguing the irrigated agriculture in time of depleting freshwater resources as a result of competing demands and climate change.

Delivering the welcome address on day one, Dr. Indrajeet Chaubey, Associate Dean and Director of International Programs in Agriculture Purdue University and conference Co-chair stated that the conference would explore transdisciplinary solutions to achieve water security from farm to global scales and encourage discussions on successful examples of water security innovations.

ICID, which contributed as a technical partner in the conference, discussed the current and future water security problems through presentations and as session Co-chair. President Felix Reinders in his keynote address on 5 October 2018 gave a presentation on "A Water Secure World Free of Poverty and Hunger: Challenges of the Water-Energy-Food Nexus" and drew the audience attention to find solutions, methodologies and technologies to address the need for increasing the food supply. He urged all to be prepared for the challenge that lies ahead and to ensure that there is enough water and food for the 9+ billion people that will be living on this planet in the next 30-40 years to come. He accentuated that ICID



is actively promoting the solutions related to all water issues be it at the on-farm level, regional level or flood and drainage.

Secretary General A.B Pandya, Co-chaired an important session on "Advanced Waste Water Treatment" under the theme Identifying, Managing, and Treating Conventional and Alternative Agricultural Water Supplies along with Dr. A. Anandhi, Associate Professor, Florida A&M University, USA. SG Pandya highlighted the issue of groundwater depletion which is raising the pollutant concentration in dwindling freshwater supplies and suggested an integrated approach to address this.

ICID President (Hon.) Prof. Chandra Madramootoo (McGill University, Canada), as one of the highlighted speakers, gave an interesting presentation on "Bridging the Great Productivity Divide: Water and Crops" with an overview of AWM in the context of climate change. He highlighted that at present focus has shifted to water saving technologies in the agriculture sector that uses more than 70% of the available freshwater. And using technologies coupled with better water management are part of the approaches to climate-smart agriculture.

ICID Vice President Dr. K. Yella Reddy, Director, WALAMTARI, Hyderabad, India gave a presentation on "Water Footprints and Virtual Water Approaches for Improved Water Management." VP Reddy explained 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. He explained that the approach provides a common language that supports dialogue among various stakeholders contributing to and resolving unsustainable water use.

Under the theme 'Water Conservation' Dr. Sahdev Singh (Dir-KM), ICID gave a presentation on 'Communication for Sustainable Agricultural Water Management' wherein he communicated about the main actors around water with farmers being the ultimate custodian and how poor communication of best practices to end user (farmers) creates hurdles for better water management as rural population are not only resource poor, but also information poor. He explained that farmers require relevant localized information in languages they understand and in formats they can use in their decision making.

Ms. Prachi Sharma, Knowledge Officer, ICID gave a presentation on "Water Accounting Framework for Agricultural Water Management" and advocated the use of water accounting for decision making in the agricultural sector with the sole objective to bring in smart planning processes in water management and governance. ICID plans to publish a guideline for the Water Accounting Framework.

With over 500 delegates from more than 20 countries including various international organisations such as ICARDA, IWMI, ICRISAT, World Bank, etc. in attendance, the GWSC 2018 concluded on 6 October 2018. For more details, please visit: <http://www.asabewater.org>



## SG Pandya awarded Dam Safety Excellence Award 2018 by Aqua Foundation

Secretary General A.B Pandya was recently awarded the Aqua Foundation's Dam Safety Excellence Award 2018 for Life Time Achievement by Mr. Z. Hassan, Former Secretary, MoWR, Government of India during a training workshop entitled "Latest Investigations, Repair & Rehabilitation Technologies for Dams" held from 4-5 October 2018 in New Delhi, India.

The workshop was organized by Aqua Foundation Academy, in association with Central Board of Irrigation & Power (CBIP), The World Bank and ICID, and around 150 delegates from 64 organizations attended. SG Pandya inaugurated the workshop as the Chief Guest. Various dignitaries were present during the ceremony including VPH Jayseelan, Former Chairman, CWC, Dr. B. R. K Pillai, Commissioner (CAD), MoWR, Mr. N K Mathur, Member (D&R),



Central Water Commission (CWC) to name a few.

The interactive workshop aimed 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. It provided an excellent opportunity to dam owners and dam safety industry dealing with specialized dam safety products and services to interact on a common platform and put forth their views.

SG Pandya made a presentation on 'Disasters and Dam Safety Procedures' highlighting the dual role of dams during disasters and the need to provide technical and legal frameworks for the same. A total of 18 technical presentations were made during the workshop on topics like Dam Safety Scenario in India, Latest Geophysical Investigations Techniques, Under Water Inspections, Silt and Sedimentation Studies of Reservoirs, Latest Repair & Rehabilitation Techniques (Civil & Hydro-mechanical), Latest Grouting Chemicals, Use of Optical Fiber Cable for Temperature & Strain Monitoring and Geodetic Monitoring. Product display was also made by few organizations. A training manual was also released during the workshop with a compilation of all technical papers.

## Asia Water Forum 2018: Information, Innovation and Technology

The Asia Water Forum (AWF) 2018 was held from 2-4 October 2018 at Asian Development Bank (ADB) Headquarters, Manila, Philippines. The key theme focused on information, innovation and technology. The event provided 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. Additionally, it aimed to discuss ways to identify and adopt innovations that best address water security and keep the profile of water high on the region's development agenda.

There were high-level plenary sessions and parallel break-out sessions on the five major activities under the One ADB Water Approach: (i) supplying water; (ii) sanitation and water quality; (iii) water for food; (iv) water for energy; and (v) water resources management. Topics also covered the following crosscutting themes of: (i) inclusiveness; (ii) finance and transactions; (iii) governance and sustainability; (iv) disaster and resilience; and (v) water-food-energy security nexus, efficiency, and performance.

Executive Director Harish Varma represented ICID during the forum and also held a meeting on 1 October 2018 with Dr. Thomas Panella, Chief of Water Sector Group and other ADB officials at the sideline of the event to discuss and deliberate the role and support of ADB during the 3rd World Irrigation Forum (WIF3) to be held in Bali, Indonesia in September 2019.

As an outcome of the meeting, ADB agreed to take lead in developing background paper on one of the three sub-themes of the forum and to contribute technical papers on various topics of WIF3 and share 'Call for Papers' announcement with broader audience in ADB and other partners. ADB showed interest to support participation of Young Professionals and others from projects under implementation and further assured to explore possibility of participation of farmers from its member countries in proposed farmer's roundtable.



ADB also fully supported the idea of ministers/senior officers' roundtable and agreed to actively participate in the same.

ICID invited ADB to suggest theme for roundtable for consideration of International Technical Advisory Committee (ITAC) and to nominate their representative for ITAC of WIF3. At the end of discussion, it emerged that ADB would provide full support to WIF3 and may send a large delegation consisting of ADB staff, YPs, farmers and officers from ADB projects in different member countries.

## Upcoming Webinar: Water as Heritage

Date: 14 November 2018 @ 1430 hrs (IST)

**SPEAKER:** Henk van Schaik, Ambassador Water and Heritage, ICOMOS, The Netherlands

**Register Now!!** <https://attendee.gotowebinar.com/register/8655347131785913859>

Water is vital for life, and its incessant availability has been a concern for mankind throughout the ages. But have you ever given a thought to the value of water management as heritage? If not, then you are not alone. Interestingly, water professionals do not value water-related heritage in their daily practises.

To discuss the same in depth, ICID in its upcoming webinar has invited Mr. Henk van Schaik, Ambassador, Water and Heritage, ICOMOS, The Netherlands to share his experiences

in the contemporary world wherein the functional and heritage dimensions of water are typically treated separately. The phrase 'water-as-heritage' serves as a reminder that water is the heritage of the planet and of all human societies and non-human species. Water is 'living heritage' as water and water bodies typically have functional, historical, spiritual, and aesthetic dimensions.

Technical professionals are concerned with supplying/treating water and governments with regulating water supply and use; local communities may use water for recreation as well as for rituals and ceremonies and heritage experts are interested in studying and conserving past water icons but have little concern for the values of water heritage for the present and the future.



The webinar will deliberate at better connecting heritage organizations and wider water sector organizations in its ambit, including ICID and its World Water System Heritage (WSH) program as well as ICID World Heritage Irrigation Structures (WHIS).

This is the 10th webinar given under "ICID Professional Series" for its exclusive online audience to share and discuss information in real-time. For more info visit: [http://www.icid.org/icid\\_webinar.html](http://www.icid.org/icid_webinar.html)



### REGISTER NOW!!

## Groundwater Webinar Series

Groundwater is the world's largest store of unfrozen freshwater. It underpins a vast set of ecosystem services on

which nature and people depend. ICE WaRM has brought together Groundwater Solutions Initiative for Policy and Practice (GRIPP) and the National Centre for Groundwater Research and Training (NCGRT) to provide an interactive webinar series on Groundwater for Sustainable Development. In 2018, the series

will discuss the global significance of groundwater in sustainable development through the topics below and explore innovative groundwater solutions with wider applicability.

For more info on the webinars, please visit: <https://bit.ly/2PkWj6t>

## CBIP organizes training course on Micro Irrigation for Improving Water Use Efficiency and Productivity

The Central Board on Irrigation and Power (CBIP) organized a two-day non-residential training course on "Micro Irrigation for Improving Water Use Efficiency and Productivity," exclusively for the engineers of Water Resources Department, Government of Madhya Pradesh in Bhopal, India from 6-7 September 2018. The objective of the training course is to develop the agricultural potential of Madhya Pradesh state using modern technologies and cultural techniques and to achieve the same the Govt. of Madhya Pradesh has imparted a massive programme in which micro irrigation has been identified as one of the new technologies that can help in saving water without compromising the productivity of the land.

To deliver various sessions during the

training programme, well-known experts and speakers were invited including Dr. T.B.S. Rajput, Emeritus Scientist, Water Technology Centre (WTC), Indian Agricultural Research Institute, who during the inaugural session, talked about the scenario of micro irrigation in India and design and automation of drip irrigation systems. Dr. Man Singh, Professor & Project Director of WTC discussed the potential improvements in horticultural crops through micro irrigation. A presentation on hydraulics of water and nutrient under micro irrigation regime was given by Dr. Manoj Khanna, Principal Scientist, WTC. Mr. Somnath Jadhav, Jain Irrigation Systems Ltd. demonstrated the economic analysis and financial mechanism to promote micro irrigation systems at pan India level.

ICID was invited by CBIP to conduct a session on 'Capacity Development for the Micro Irrigation Systems.' Dr. Sahdev Singh (Dir-KM) delivered an interactive seminar session on the said topic to highlight the communication and capacity issues with regard to less educated rural farmers, particularly smallholders. Dr. Singh further elaborated on the need to integrate adult learning techniques in capacity development activities of the state government.

As a follow up to the training program, plans are in the pipeline for the next stage in which hands-on-sessions will be organized for planning and design coupled with operation and maintenance of micro irrigation systems.



## Dr. Tushaar Shah conferred Distinguished Associate Award 2018

Dr. Tushaar Shah has been conferred the Distinguished Associate Award 2018 for his personal contribution to the enhancement of policy and governance for groundwater protection worldwide. Over the past 35 years, Dr. Shah's main research interests have been in water institutions and policies in South Asia, a subject on which



he has published extensively. His notable contributions have been in comparative analyses of groundwater governance in South Asia, China and Mexico.

More recently, his interests have been in comparative analysis of water institutions and policies across Asia and between South Asia and Sub-Saharan Africa. He has also worked extensively on the energy-irrigation nexus in India. In 2002, Tushaar Shah was honoured

with the Outstanding Scientist award of the Consultative Group of International Agricultural Research (CGIAR). Dr. Shah is an economist and public policy specialist. He is a Senior Fellow of the International Water Management Institute (IWMI) and a former director of the Institute of Rural Management at Anand in India.

Source IAH: <https://bit.ly/2AewIHq>



Come, Join us in Aurangabad...!!!

## 9<sup>th</sup> International Micro Irrigation Conference | 16-18 January 2019

As water stress spreads across the globe, finding ways of getting "more crop per drop" to meet our increasing food requirements is one of the most urgent challenges. The first and feasible solution to this problem is 'micro irrigation,' which delivers water directly to the root of the plant in just the right amount. It can double or triple water productivity – boosting crop per drop – and is fast catching up worldwide. Micro irrigation (drip / trickle or localized irrigation), which was introduced on commercial scale in the world sometime in the seventies, has emerged as one of the key interventions for water saving and for improving crop productivity with reduced labour inputs.

With a view to share experiences in the use of new technologies and best management practices in drip, micro-sprinkler and other localized irrigation systems, the Indian National Committee of ICID (INCSW) will be organizing the 9th International Micro Irrigation Conference (9IMIC) from 16-18 January 2019 in Aurangabad, Maharashtra, India.

The three-day event will focus on the main theme 'Micro Irrigation in Modern Agriculture' covering wide range of topics under four sub-themes, namely (i) Micro Irrigation Design, Innovations and New Techniques for increased Crop Productivity; (ii) Micro Irrigation fund and Government support through Micro Irrigation; (iii) Micro Irrigation for Cluster Level Farming and small farm holders; (iv) Operation & Maintenance Services and Capacity Development for the Micro Irrigation Systems.

### Key focus areas:

- To share experiences in the use of new technologies and best management practices in drip, micro-sprinkler, and other localized irrigation systems.
- To review the status of use of micro irrigation for smallholders.
- To understand socio-economic and technological factors impeding expansion of drip and micro-sprinkler irrigation area.

Slated for January 2019, the conference will not only be technically rewarding but also provide an opportunity for discussions and deliberate strategies with eminent stakeholders through seminars, exhibitions and sessions to build public awareness for use of micro irrigation on large-scale and to get support to implement key strategies for conservation, preservation, Inter sectoral arrangements, advanced crop technology, precision engineering techniques etc. A large group of eminent international and national persons and local farmers shall be invited for sharing their experiences in the field of latest development in micro irrigation technology to enhance crop production and water management for optimal use in agriculture, technical and sociological interventions for sustainable water, food & agriculture.

A host of special side events by international organizations including World Bank, Global Water Partnership and other professional societies/ bodies will also be organized.

### Register Now...!!!

Delegates attending the conference as well as exhibitors can register for both the conference and exhibition online at <https://imic2019.ivyleaguesystems.com>. The details for registration fee slabs payable by the delegates including author of papers for the conference can be accessed @ <http://micro-irrigation2019.com/registration/>

### Event Highlights

The conference aims and plans to provide a global platform for professionals and exhibitors by showcasing knowledge and technologies from the world over and providing business opportunities to the water resources communities. Following high level concurrent events are also proposed:

- Irrigation Minister's Roundtable
- Farmer's Pavilion & NGO session
- Sponsors Workshops on Specific Crops
- Workshop on specific Agro Climatic Zone
- Micro Irrigation Awards to Farmer, practitioner, Company, Government

The event will showcase various programmes that include:

- Conference: 3 days of action packed exchange of ideas on Policy for the Development of the Micro Irrigation in Modern Agriculture for Sustainable Water, Food & Agriculture.

- ii. Exhibition: Core focus – 3 days industry sponsored technology-based exhibition of products depicting latest technology for use of micro irrigation.
  - iii. Supporting Events: Focus on Women Participation, Rural Development and Farmers Participation, Crop/Technology/ Country Specific events.
  - iv. Cultural Tour(s): Full-day Cultural Tour after 3 days to focus on rich cultural heritage of India located in that area.
  - v. Study Tour(s): Full-day Study Tour after the conference to focus on one of the largest micro Irrigation system of India located in that area and visit to a factory. To view in detail, please visit: <http://micro-irrigation2019.com/travel-information/>.
  - vi. Accompanying Person: Full 3 days engagement in local shopping cum visit to cultural sites etc.
  - vii. Social Networking: Other ICID National Committee's Program/ Dinner, Spouse Club, Cultural show/ Film Show.
- Important dates and deadlines:**
- Last date for abstract submission — **31 October 2018**
  - Notification of acceptance of abstracts — **30 November 2018**
  - Last date for submission of full-length paper — **15 December 2018**
  - Notification of acceptance of papers — **31 December 2018**
- Pre-conference National Micro-Irrigation Workshop— **15 January 2019**
  - Post conference study and cultural tours — **19-20 January 2019**
- \*\* For abstract and paper submission; authors must sign up and create an account thorough the link: <https://imic2019.ivyleaguesystems.com>
- INCSW through this announcement is honoured to invite all prospective delegates and welcome everyone to be a part of India's first of its kind major international event on micro irrigation. More information about the conference is available @ <http://micro-irrigation2019.com>

## Working for #ZeroHunger: Our Actions are our Future

World Food Day, observed every year on 16 October, is a day of action dedicated to tackling global hunger. On this day, people around the world come together to declare their commitment to eradicate worldwide hunger with the focus that food is a basic and fundamental human right. Yet, in a world of billions, 805 million people worldwide live with chronic hunger.

World Food Day 2018 will mark the 73rd anniversary of FAO's founding in 1945. Events organized by FAO country offices, governments, local authorities and other partners in over 130 countries across the world will call for increased action to achieve Zero Hunger by 2030.

In the past few years, World Food Day has been using the annual celebration as a platform to concentrate on various other aspects of agriculture and food security such as biodiversity, climate change, and fishing communities. This year the theme is "Our Actions are Our Future." The theme will be an opportunity for leaders and key global players to remind the world that Zero Hunger is still possible, if we can come together and take account of lessons learned, best practices and all evidence available.

Towards this endeavour, ICID Vision 2030 provides an Action Plan to move towards "A water secure World free of poverty and hunger through sustainable rural development." It outlines the strategy

to convert the vision into a reality and believes that a #ZeroHunger world by 2030 is possible. The challenge of eradicating poverty and hunger requires greater cooperation and collaboration among actors working in different related sectors through effective partnerships. The Road Map to ICID Vision 2030 is a small contribution for making general people aware of the security of the food in days of crisis and importance of agriculture to grow sufficient food. To read more, please visit: [http://www.icid.org/icid\\_vision2030.pdf](http://www.icid.org/icid_vision2030.pdf)

### Do your bit to help achieve #ZeroHunger. Here's How...!!!

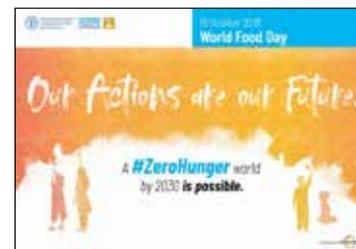
Wasting less, eating better and adopting a sustainable lifestyle are key to building a world free of hunger. The choices we make today are vital for a secure future of food. Here's a list of simple actions to help us make #ZeroHunger a way of life, to help re-connect to food and what it stands for.

#### • Don't Waste Food

If you have leftovers, freeze them for later, or use them as an ingredient in another meal. When you eat at a restaurant, ask for half a portion if you're not feeling too hungry, or take your leftovers home.

#### • Produce More, With Less

With a growing population expected



to reach in 9 billion in 2050, using an integrated farming approach will not only help farmers increase their crops' yield, and thus their profits, but can also improve the quality of their farmland.

#### • Adopt A More Healthy And Sustainable Diet

Nutritious meals don't have to be elaborate. In reality, they can be cooked in a quick and easy way while using only a few ingredients. Follow sustainable chefs and bloggers online to learn new recipes or talk to your local farmer to see how they cook their produce at home.

#### • Advocate For #ZeroHunger!

Everyone has a role to play in achieving #ZeroHunger, but countries, institutions and people need to work together to reach this goal. Establish Zero Hunger partnerships, share knowledge and resources, develop innovative strategies and discover new opportunities to contribute to the fight against hunger.

**Second Announcement**

## Indonesia Calling: 3<sup>rd</sup> World Irrigation Forum & 70<sup>th</sup> IEC Meeting

Bali, Indonesia | 1-7 September 2019

Climate change is predicted to have a massive impact on water availability by drastically altering hydrological regimes across the world. Sustainability of irrigation as a part of water resources system has become one of the most important agenda to cope with. Attaining sustainable development under limiting natural resources as envisaged under Agenda 2030, calls for recognizing the interlinkages between various sectors. A clear understanding of these interlinkages such as nexus between water, food and energy requires greater interaction among stakeholders from all three sectors.

To formulate a new perspective and strategy for the future of irrigation system, the Indonesian National Committee of ICID (INACID) will host the 3<sup>rd</sup> World Irrigation Forum (WIF3) and the 70<sup>th</sup> IEC Meeting of ICID from 1-7 September 2019 at the Bali Nusa Dua Convention Centre (BNDC), Indonesia.

The 7-day event will focus on the main theme "Development for water, food and nutrition security in a competitive environment" covering wide-range of topics under three sub-themes, namely – (i) Enabling policy environment for water, food and energy (ii) Role of Civil Society and NGOs with focus on farmers and extension facilities (iii) Improving agricultural water productivity with focus on rural transformation.

### Exhibition

During the ICID Meeting, the technical exhibition presenting achievements in the field of irrigation and agriculture constructions and management will be held at Bali Nusa Dua Convention Centre. Around 100 booths are available for the exhibitors. In addition, a stage and giant screen are provided to enable exhibitors promote their products and other attractions / presentations / performances.

**Technical Tours (TT)** are offered to provide an opportunity for participants and accompanying persons to learn more about Balinese Culture related to irrigation management and also to enjoy the beauty of the island.

**Jatiluwih (TT-1)** is a favourite tourist destination in Bali famous for the beautiful rice terrace unfolding from the hill to the coastal side. The local paddy has been planted in this place. Moreover, Jatiluwih is famous for its organic agriculture system due to its location in the plateau of Watukaru Mount, suitable for agricultural activities.

**Subak Museum (TT-1)** displays the collection of agriculture/farming tools and integrated rice-field irrigation system of Bali called 'Subak'. Known to the world for centuries it has been awarded the World Heritage Cultural Landscape status by UNESCO and is deeply ingrained in the Balinese culture since the 11<sup>th</sup> century. ICID participants will get a good opportunity to closely observe the ancient irrigation technology.

**Pura Tirta Empul, Tampak Siring (TT-2)** A Hindu temple in the middle of Bali, famous for its holy water where Hindu Bali people go for purification. This area is appointed as the UNESCO'S Cultural World Heritage.

**Gunung Kawi (TT-2)** The Hindu Temple and an ancient relics is located beside of Pakerisan River with rice terraces surrounding it. The green panoramic views of the rice field with the breeze of tropical atmosphere are additional attraction of this spot.

**Lunch at the Arma Museum, Ubud (TT-2)** Agung Rai Museum of Art (ARMA) is one of the best museum in Indonesia. Poised on six hectare of exquisite Balinese gardens, the design of museum and Resort is seamlessly reflecting the ARMA philosophy of balance between man and environment.

### Accompanying Person Programs

The free programs are provided to explore Bali and its rich culture and tradition. Participants are welcome to join the program which includes tour to Ubud Palace & Ubud traditional market, GWK Cultural Park with Uluwatu and Kecak Dance, Tanah Lot on Sunset.



ICID's triennial World Irrigation Forum (WIF) aims to bring together all the stakeholders involved in irrigation of multi-disciplines and all scales, including the policy makers, experts, research institutions, non-governmental organizations and farmers. WIF3 will provide an opportunity for the actors in these sectors to come together and develop pathways to the sustainable development towards the 'Future We Want.' The mega event also includes Side Events of partner organizations, Ministerial meetings, International Exhibition, Training programs, Workshops and much more.

INACID is honoured to give the second announcement for WIF3 to all the prospective delegates and hope that the beautiful and majestic Bali will give ample reasons to the attendees to experience the wonders and richness of the history and ancient civilization of the region.

### Call For Papers

The 'Call for papers' of the WIF3 is available at [http://www.icid.org/WIF3\\_Call\\_for\\_Papers.pdf](http://www.icid.org/WIF3_Call_for_Papers.pdf) for your information and abstract submission. The Forum website has already been launched and you may access <https://icid2019.com/> for other details of the event. This is for your information and wide dissemination among the members of your National Committee/Organization and others. All are invited to submit online their 'Extended Abstract' <<https://easychair.org/conferences/?conf=wif3>> by **1 February 2019**.

For more info, please visit: <https://icid2019.com/> or mail to [inacid.indonesia@gmail.com](mailto:inacid.indonesia@gmail.com)



*ICID invites nominations for 2019*

**WatSave Awards 2019**

Entries for nominations for WatSave Award(s) 2019 are now open!!

Nominations are invited for the 'WatSave Awards 2019' 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.

ICID instituted the 'WatSave Awards' in 1997, presented each year, to recognize outstanding contributions to water conservation or water saving in agriculture across the world. The aim is to recognize the outstanding contribution to water conservation or water saving for the benefit of all water users. Accordingly, the awards given to individuals or a team of individuals are made in respect of actual realized savings and not for promising research results, plans and/or good ideas/intentions to save water.

The WatSave Awards are given in four categories: (i) Technology (ii) Innovative Water Management (iii) Young Professionals; and (iv) Farmer. The awards will be presented during the 3rd World Irrigation Forum (WIF3) and 70th International Executive Council Meeting of ICID from 1-7 September 2019 in Bali, Indonesia.

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 30 June 2019.

For further info, please visit: [http://www.icid.org/awards\\_ws.html](http://www.icid.org/awards_ws.html)

**World Heritage Irrigation Structures (WHIS) 2019**

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

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

At the 69th International Executive Council (IEC) meeting held in Saskatoon, Canada in August 2018, 14 World Heritage Irrigation Structures (WHIS) were approved for inclusion in the ICID Register of WHIS available on [http://www.icid.org/icid\\_his1.php](http://www.icid.org/icid_his1.php).

The fifth batch of WHIS will be included in the ICID Register of WHIS and will be presented a "Plaque", citing the salient features of the WHIS during the 3rd World Irrigation Forum (WIF3) and 70th IEC meeting from 1-7 September 2019 in Bali, Indonesia.

The last date for receipt of nomination to the ICID Central Office is 30 June 2019.

For more information regarding the criterion for selection procedure please visit: [http://www.icid.org/his\\_award.html](http://www.icid.org/his_award.html).

**Dr. Matthew Rouse conferred 2018 Norman Borlaug Award**



The World Food Prize Foundation announced Dr. Matthew Rouse, a researcher with the United States Department of Agriculture (USDA) Agricultural Research Service (ARS), as the winner of the 2018 Norman Borlaug Award for Field Research and Application, endowed by the Rockefeller Foundation.

Dr. Rouse is a Research Plant Pathologist at USDA-ARS Cereal Disease Lab in St. Paul, MN and an adjunct associate professor at the University of Minnesota. He has played an essential role in the control and continued eradication efforts of Ug99, a devastating race of the stem rust pest that currently threatens the world's wheat crops. Over Dr. Rouse's past 10 seasons, he has scored between 40,000 and 80,000 infection types each season, supporting over 20 breeding programs around the world and more than 15 international wheat genetics programs working on characterizing stem rust resistance genes. His work has led to the release of several successful varieties resistant to Ug99, including 'Linkert' in the U.S., 'NARC 2011' in Pakistan and 'Kingbird' in Ethiopia.

Dr. Rouse was named University of Minnesota's Emerging Leader in Applied Plant Science. In addition to these accomplishments, Dr. Rouse has authored or co-authored 75 research papers pertaining to the sources and genetics of stem rust resistance.

Over the past six years, the World Food Prize Dr. Norman Borlaug Award for Field Research and Application has emerged as the premier recognition in the world for young agricultural scientists under the age of 40.

For more information on the Borlaug Field Award, visit <https://www.worldfoodprize.org/>.



## Irrigation and Drainage Volume 67.4

The latest volume of Irrigation and Drainage journal 67.4, published in October 2018, is now available online. The new volume is FREE via Wiley online library for all ICID Office Bearers, Workbody members and subscribers.

Newly added features include: • Papers available in easy to read PDF format; •

Access to full text of all the articles as well as Tables of Contents and Abstracts published in Irrigation and Drainage since 2001; • Early View service display papers online as soon as they are accepted for publication that are several months earlier than the papers published in print; • 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 of Irrigation and Drainage @ [http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1531-0361](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1531-0361).

## News Buzz: ICID National Committees

### Uzbekistan (UzNCID)

The Uzbekistan National Committee on Irrigation and Drainage (UzNCID) has intimated a change in their e-mail and office address. All NCs are requested to correspond as per the following new addresses.

Mr. Lutfulla Khaknazarovich  
Mukhamednazarov,  
Secretary General, UzNCID  
Labzak 1 A, Tashkent 100128,  
Uzbekistan  
E-mail: [iuzncid@minwater.uz](mailto:iuzncid@minwater.uz)

### Estonia (ESTICID)

The Estonia National Committee on Irrigation and Drainage (ESTICID) has intimated a change in their office address. All NCs are requested to correspond as per the following new address.

Mr. Hannes Puu, Chairman  
ICID National Committee of  
Estonia (ESTICID)  
Head of Tartu Centre of Agricultural  
Board (Estonia), Estonian  
Agricultural Board, Tähe 4, Tartu,  
Tartumaa, 51010, Estonia

### Japan (JNC-ICID)

Mr. Hayashida, Vice-President, ICID from Japanese National Committee (JNC-ICID) has intimated a change in his email ID from [hayashida@n-renmei.jp](mailto:hayashida@n-renmei.jp) to [hayashida21@n-renmei.jp](mailto:hayashida21@n-renmei.jp). All NCs are requested to correspond as per the new email ID.

## Events Corner

### ICID Events

**9th International Micro Irrigation Conference (9IMIC) 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](mailto:incsw-cwc@nic.in); [9imic@wapcos.co.in](mailto: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](mailto:inacid.indonesia@gmail.com); [adangsafa@yahoo.com](mailto: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](mailto:Bryan.ward@irrigation.org.au); [info@irrigation.org.au](mailto:info@irrigation.org.au) or visit website: <http://www.icid2020.com.au>

### Other Events

**1st Latin American and Caribbean Young Water Professionals Conference, 5-8 November 2018 – Queretaro, México.** For more details, please visit: <http://www.lac-ywpcconference.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](http://www.aih-ge.org/wp-content/uploads/Congreso_ASMASP/Primera_circular_Salamanca.pdf); Email- [aih-ge@aih-ge.org](mailto:aih-ge@aih-ge.org)

**Groundwater quality in the transition between rural and urban environments**

**organised by IAHS, 9-12 September 2019, Liège, Belgium.** For more details, please visit: <http://aimontefiore.org/GQ2019/>; Email- [serge.brouyere@uliege.be](mailto:serge.brouyere@uliege.be)

**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](mailto:idsc-cwc@gov.in)

**ISMAR 10: International Symposium on Managed Aquifer Recharge, 20-24 May 2019, Madrid, Spain.** For more details, please visit: <http://ismar10.net>; Email - [info@ismar10.net](mailto:info@ismar10.net)

**MinWat 2020: 3rd International Multidisciplinary Conference on Mineral Waters: Genesis, Exploitation, Protection, and Valorisation, 31 March - 3 April 2020, Caserta, Italy.** For more details, please visit: <http://www.iahitaly.it/>; Email: [segratario@iahitaly.it](mailto:segratario@iahitaly.it)



ICID•CIID

## International Commission on Irrigation and Drainage (ICID)

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