

# News Update

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



ICID-CIID

April 2020

## From Secretary General's desk...

Dear Colleagues,

The global spread of COVID19 is the crisis experienced directly by some and indirectly by all of us, and hence calls for greater cooperation across the borders to turn the tide. However devastating COVID19 is, our resolve to fight it together and come back stronger is the need of the hour. ICID hopes that the members of national committees, their families and friends, personnel, and other people associated with them are all safe. We are also wishing the same for our international partners, direct members and other stakeholders.

On behalf of ICID fraternity we would like to offer our heartfelt condolences to the families of the victims around the world. It's a global crisis and also the time to show our solidarity with affected countries and people. It is heartening to note that the number of recoveries far outweighs the number of fatalities and it offers hope that soon we will be able to overcome this deadly virus and stay out of danger through international cooperation. Many countries have urged their citizens to maintain safe distances from each other and make full use of electronic media to continue to communicate.

Urban labor is returning to rural homes and many of them will be re-engaging in small scale farming as a back-up economic activity to minimize the financial risks in case of any future unknown crises. To some extent, it is an opportunity for rural transformation in which irrigation and drainage can play a critically important role in the agriculture, the mainstay of rural livelihoods in most developing countries. One of ICID's mandate is rural transformation through better agricultural water management.

The economy will suddenly find itself at a standstill as the cash circulation halts and situation is not unlike that of great depression of 1929. We may learn from the US response at that time to the crisis by building major structures like Hoover dam and others. At present, we too have a number of such initiatives awaiting progress. To kick start the cash flows the governments will have to infuse money in vital sectors where the funds employed will have to generate lasting results. Doses and income support cash transfers cannot last forever. In this context, the creation and improvement of irrigation infrastructure holds a promise as it will not only generate jobs at the local level but also provide long lasting facilities which will provide a permanent input to the growth at the rural level. Same is the case for providing more efficient on-farm systems where the additional skills available at local level

due to reverse migration can provide support and find self-sustaining economic activity supporting the livelihoods.

There are important lessons to be learned from this sudden virus outbreak for our sector. The outbreak has demonstrated the increasing interconnectedness of the world. For recovery, we will have to bring back our systems of food production and consumption along with the other agricultural products all of whom rely on water as ingredient. It is quite possible that the recovery will have to be internal resources based as the global resources are already under strain while managing the present livelihoods and health interventions. Most of our developing world, will, therefore, have to rely on efficient and responsive agriculture water management for resetting our products base to provide our populations with adequate support in terms of food security at reasonable costs to ameliorate the erosion of incomes. To mitigate the adverse impacts of such global pandemics having negative impacts on global economy, we need to delineate the immediate and long term requirements and how the rehabilitation funds are directed towards lasting solutions. While a single country or organization may not have all these capacities, international cooperation through professional networks such as ICID do offer a way forward to develop them.

Let me assure you that all ICID activities are continuing though with different time frames than the ones originally planned. We remain open to provide our knowledge dissemination and support activities on a web based platform till the travel restrictions ease up. Have a look at our refurbished web site [www.icid-ciid.org](http://www.icid-ciid.org) and provide inputs for enriching further. We also invite all of the experts and agencies to provide inputs for our efforts of spreading knowledge and support post-disaster planning for better agricultural water management.

Colleagues, we wish you to stay safe and healthy!

**Ashwin B. Pandya**  
Secretary General



**New Website Launched**

## Important Announcements

### Upcoming ICID Events Postponed due to Global COVID19 Measures

- The **71<sup>st</sup> International Executive Council (IEC) will be held along with the 5th African Regional Conference (ARC) and the Young Professional's Training Program (YP-TP) in 2020**. Dates of 5th ARC and 71st IEC are yet to be finalized in consultation with the Moroccan National Committee (ANAFIDE), once COVID-19 situation is under control and international travel is safe. Tentative dates are **1-7 December 2020**. The Young Professional's Training Program (YP-TP) will also be organized during the 5<sup>th</sup> African Regional Conference.
- The **24th International Commission on Irrigation and Drainage (ICID) Congress**, which was scheduled for 22-28 September 2020 in Sydney, Australia, has been postponed to 6-12 July 2021 at the same venue. This postponement follows the recommendation of Mr. Bryan Ward, Chief Executive Officer, Irrigation Australia Ltd. (IAL), and Irrigation Australia's Committee on Irrigation and Drainage (IACID) based on the impact of COVID-19 on global health and economies. As a result, the **72<sup>nd</sup> International Executive Council (IEC) meeting will be held along with the 24<sup>th</sup> ICID Congress in Sydney, Australia**, during July 2021.

For further information on Sydney event, please 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)

Following the joint decision of the Management Board of ICID and Irrigation Australia to **reschedule 24th Congress to July 2021**, IACID is contacting the Sponsors, Exhibitors, Delegates, Authors, etc. about rescheduling the 24th Congress to July 2021. The details are below, and also available on the Congress website <http://www.icid2021.com.au/>

#### ❖ Communication to registered delegates

In consideration of the financial implication that postponement creates, those who have already registered may consider carrying forward their registration fee. However, refunds will be available on request.

❖ **Applications for refunds must be made in writing to [info@encanta.com.au](mailto:info@encanta.com.au) and will be accepted until Tuesday, 30 June 2020**. After this time, the following delegate cancellation policy will apply:

- (i) 60 days before the event: **Full refund** minus an administrative fee of \$150.00 per person
- (ii) 59 to 30 days before the event: **50% refund** minus an administrative fee of \$150.00 per person
- (iii) Less than 30 days before the event: **No refund**

❖ **Communication to abstract authors in addition to the announcement text**

IAL / IACID/ICID appreciate the time and effort spent on submitting the abstract for the ICID Congress and associated events and Irrigation Australia. All abstracts submitted to date stand automatically included for consideration. The last dates for submission of the abstracts and papers accordingly have been extending well into 2021 enabling more participants to take part in the events. If you wish to withdraw or edit your submission, please do so at the portal <https://icidevents.org/techmanagement> for the 24th Congress, Symposium, and Special Sessions.

❖ **Communication to current sponsors and exhibitors**

Because of the significant financial implication that postponement of the event may create for those who have already confirmed their involvement, sponsors and exhibitors may kindly carry forward their sponsorship and exhibition commitment.

To proceed with the planning for the Congress in 2021, IAL / IACID request all sponsors and exhibitors to **reconfirm their intention to participate by Friday 14 August 2020 to [jade.riolo@encanta.com.au](mailto:jade.riolo@encanta.com.au)**.

IAL / IACID understand given the current operating environment that not all organizations may be in a position to confirm their commitment at this stage. In case some organization wishes to withdraw their booking, the exhibition space may be forfeited, and all payments reimbursed to the organization.

On receipt of your confirmation to amend your booking to **July 2021** the following amendments to the current sponsorship and exhibition terms and conditions will apply:

1. Sponsors and Exhibitors are required to make the necessary payments as per the following payment schedule (unless otherwise negotiated):
  - (a). 50% due within one month of invoice date

- (b). Remaining 50% due no later than Friday 8 January 2021

### 2. Cancellation Dates

- (a). Before **30 September 2020**, full refund minus \$250 administration charge
- (b). Between **1 October 2020 and 28 February 2021**: 50% cancellation fee of total contribution will apply.
- (c). From **1 March 2021**: 100% cancellation fee and will be liable for payment of the balance if not already received.

We will also simultaneously update our ICID website [www.icid.org](http://www.icid.org) with the latest information concerning ICID events and others.

#### ➤ **10<sup>th</sup> International Micro Irrigation Conference: Dates will be announced later**

The 10<sup>th</sup> International Micro Irrigation Conference (10MIC) to be held in Agadir, Morocco, it will be a standalone event in 2021.

Dates will be announced later. Micro-irrigation (drip/trickle or localized irrigation) was introduced on a commercial scale in the world sometime in the 1970s. Micro-irrigation is the most efficient method of water application to crops. However, owing to the technicalities involved in its design, operation, and maintenance, the pace of its adoption was rather slow. To promote the use of micro-irrigation on a large-scale, the irrigation community worldwide, especially in developed countries, launched the **International Micro Irrigation Congress** in the year 1971. Subsequently, ICID volunteered to organize the event beginning with the 5<sup>th</sup> International Micro Irrigation Congress held in South Africa in 2000 to create awareness among its members about the latest developments in micro-irrigation technology to enhance crop production.

#### ➤ **International Workshops by ICID Working Groups Rescheduled**

The international workshops by the four working groups viz:

1. [The Working Group on Modernization and Revitalization of Irrigation Schemes \(WG-M&R\);](#)
2. [The Working Group on Institutional and Organizational Aspects of Irrigation/Drainage System Management \(WG-IOA\);](#)

3. [The Working Group on Managing Water Scarcity under Conflicting Demands \(WG-MWSCD\);](#) and

4. [The Working Group on Water and Crops \(WG-W & C\)](#)

The International Workshops were **initially planned for Sydney, Australia in September 2020 will now be organized during the 5<sup>th</sup> African Regional Council meeting in Morocco**. The final dates will be announced in consultation with Association Nationale des Améliorations Foncières de l'Irrigation, du Drainage et de l'Environnement, better known as the Moroccan National Committee (ANAFIDE) once COVID-19 situation is under control. The dates for these events will provide sufficient time difference (about six months) between the 24<sup>th</sup> Congress at Sydney and the 10<sup>th</sup> IMIC at Agadir to ensure better participation.

The aspiring participants may kindly submit their abstract to the workshop coordinator for the above international workshops at Marrakesh, Morocco (*sometime later during 2020*), with a copy to ICID Central Office (<mailto:icid@icid.org>) by **31 July 2020**, considering the tentative dates of 1-7 December 2020.

- ✓ Modernizing Irrigation Services - WG-M&R (Chairman). Mail to: [ianwmakin@gmail.com](mailto:ianwmakin@gmail.com)
- ✓ Public-Private-Partnership (PPPs) in Irrigation and Drainage Operation and Maintenance toward sustainable Irrigated Agricultural water management - WG-IOA (Chairman). [Mail to: hafiedgany@yahoo.com](mailto:hafiedgany@yahoo.com)
- ✓ Managing, on the Regional, State, or Local Level, Water Scarcity Resulting from Conflicting Demands - WG-MWSCD (Chairman). [Mail to: frankdimick@gmail.com](mailto:frankdimick@gmail.com)
- ✓ The Water-Energy-Food-Nexus: Implementation and Examples of Application - WG-Water & CROP (Chairman). Mail to: [rag@ceh.ac.uk](mailto:rag@ceh.ac.uk)

#### ➤ **Submission of Abstracts and Full Papers for 24<sup>th</sup> ICID Congress, Symposium and Special Sessions**



IAL / IACID/ICID much appreciate the time and efforts of the aspiring participants in submitting their abstracts for the ICID Congress and associated events and Irrigation Australia. All abstracts submitted to date stand automatically included for consideration.

We are fortunate to have your wholehearted participation with nearly 300 abstracts. Some abstracts have been approved for the submission of full-length papers. We assure you that the submissions will remain valid throughout the period, and you may continue the preparation of your full-length papers and submit them on the portal for further review and inclusion in the proceedings of the Congress. Since we have more time at hand, we have extended the dates for the submission of full-length papers substantially. Please visit the portal for the latest deadlines. However, it is better not to wait until the deadline and continue preparing for the full-length paper and submit the same online.

Some of our friends who registered on the portal have not proposed abstracts or papers for the Congress. This postponement offers a golden opportunity to do so now and catch up with your other friends. The window for the submission of the new abstracts stands extended to **30th November 2020**. Please note the important deadlines

- Submission of 'Extended Abstracts' (500-600 words): **30 November 2020**
- Notification of Acceptance of Extended Abstracts: **31 December 2020**
- Submission of Full Papers: 15 February 2021  
Notification to Authors (oral/poster/presentation): **15 April 2021**

In the meantime, should you wish to withdraw or edit your submission, you may do so at the portal <https://icidevents.org/techmanagement> for 24th Congress, Symposium and Special Sessions.



### Modernization Impact of the Amu-Bukhara Irrigation System of the Republic of Uzbekistan<sup>1</sup>



Irrigated agriculture in the Republic of Uzbekistan, as well as in other Central Asian countries, is the main source of food production and growth in GDP, including the cultivation of industrial crops. Without artificial irrigation, the agricultural production would be highly inadequate for the Republic. Therefore, irrigation, based on the water management system for the agricultural sector, is the main driver of livelihood for the welfare of the population. In order to improve reclamation and water availability of irrigated lands and modernization of the water management system of the Republic, in 2019, construction and reconstruction of 590 km of channels, 126 km of trays, 67 hydraulic structures, 7 pumping stations, 106 vertical drainage wells for irrigation of 1072 km of the collector-drainage network and other areas

have been undertaken with the cost of 200 Million USD. In addition, investments by financial institutions (Asian Development Bank (ADB), Islamic Development Bank (IDB), and the Japanese International Development Agency (JAICA) have led to modernization of large water facilities and pumping stations (140 Million USD) with the provision of more than 300 Million USD for the maintenance and operation of water facilities in the Republic.

The Amu-Bukhara irrigation system is one of the largest and most important irrigation complexes in the Republic of Uzbekistan. All irrigated lands of the Bukhara region and part of the Navoi region are irrigated from the Amu-Bukhara canal. The Amu-Bukhara irrigation system rehabilitation project is one of these projects using the investment funds from financial institutions. The total irrigated area is 315,000 hectares using 4.3-4.5 km<sup>3</sup> water taken from the Amu Darya River. Amu-Bukhara irrigation system was built in 3 stages:

#### **Amu-Karakul canal with 2 pumping stations *Alat* and *Karakul* (1962)**

- 1<sup>st</sup> stage of the Amu-Bukhara canal with the *Khamza* and *Kuyumazar* pumping stations (1965)
- 2<sup>nd</sup> stage of the Amu-Bukhara canal with the *Khamza II* and *Kiziltepa* pumping stations (1975)

<sup>1</sup> Vice-President, ICID, Dr. Sh. Khamraev, Minister of Water Management of the Republic of Uzbekistan, and Mr. Lutfulla Khaknazarovich Mukhamednazarov, Secretary General, Uzbekistan National Committee ICID

Since the 1990s, the Asian Development Bank (ADB) has provided partial assistance to the Republic of Uzbekistan to achieve a significant increase in agricultural production. The rehabilitation project of the Amu-Bukhara Irrigation System (ABIS) is a continuation of the assistance provided by the ADB in the field of rehabilitation and modernization of irrigation and drainage infrastructure, as well as development of capacity in water management in the Republic of Uzbekistan. The goal of rehabilitation is:

- Restoration and modernization of priority components of the Amu-Bukhara canal irrigation system;
- Supply of modern innovative technologies and equipment to ensure effective management of water resources; and

- Implementation of monitoring systems

These efforts have resulted in significant reduction in the cost of operation and maintenance of pumping stations; increase in the efficiency of pumps, construction and provision of services for the water user; reduced energy costs and guaranteed water supply to irrigated lands. The total cost of the project is 406.29 Million USD and the project implementation period is up to 2022 with the estimated payback period of 8 years.

### Workshop on Effective Ways of Cooperation with Other Specialist Groups Dealing with the Evolution of Water Culture and History



**HELLENIC  
OPEN  
UNIVERSITY**

Hellenic Open University in Patras, Greece, is organizing a one-day workshop on September 6, 2020. The Hellenic

Open University in Patras, Greece, will host the workshop in the University Campus. The key theme of this workshop will be to look for effective ways of cooperation with other Specialist Groups dealing with the Evolution of Water Culture and History. The workshop will look for joint actions and perspectives of existing Associations, Groups, and other organizations, including the Water Museums, dealing with water matters, from antiquity to the present day, and what and how human beings have learned from the past.

The workshop will examine the development of potential synergies among the members of various relevant water organizations globally. The intention is to gather representatives from most of the water-related

International organizations and bring them on a single platform. Representatives of the Greek Ministry of Culture, the Ministry of Environment, the Region of Western Greece, and the Municipality of Patras will attend the workshop.

The main topic of the meeting will be: The possibilities for joint actions by various water history organizations towards the further study of the contribution of the ancient civilizations on water technology and their impact on contemporary water technology and effective management.

The examination of the development of potential synergies among the members of various relevant water organizations globally, enhancing the cooperation among them, to the benefit of the world.

After the meeting in Patras, participants will travel to Istanbul to participate in the 6th International Water Association's International Symposium on Water, Wastewater and Environment in Ancient Civilizations: Traditions and Cultures <http://wwetc2020.eap.gr/>

**There will be no registration fees for this workshop.**

## ICID Annual Report 2019-20: Call for Updated Information from NCs and DMs

The International Commission on Irrigation and Drainage (ICID) Central Office is in the process of compiling the ICID Annual Report for 2019-20. The ICID Central Office has sent out mails to National Committees and Direct Members requesting for information which they would want to be included in the Annual Report.

The Chairs of National Committees are requested to kindly provide detailed information about the events, meetings held and any other material relevant to the national committee for the year 2019-2020 which could be included in the Annual Report. Suitable pictures and/or audio-video media may be included with the submission.

National Committees are requested to update the data relating to the agricultural scenario of their country with the latest and accurate information on the total arable area, total irrigated and drained area and areas under sprinkler and micro-irrigation.

We request you to kindly review the existing data from 2018-2019 Annual Report from the link [https://www.icid.org/ar\\_2018.pdf](https://www.icid.org/ar_2018.pdf) in case the information needs to be updated. The latest information may be mailed to ICID Central Office for updating the same.

Similarly, the Direct Members are requested to provide detailed information about the events conducted, meetings held and any other relevant material related to their professional activities during the year 2019-2020.

**The deadline for submission of the information for update is 31<sup>st</sup> May 2020.**

### Obituary



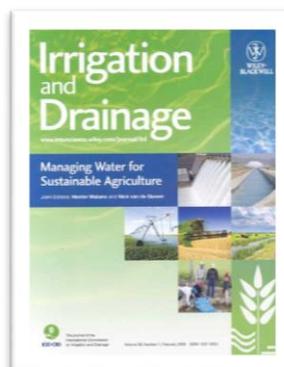
With a heavy heart, we inform our readers that the former Secretary-General of ICID (1988 to 1992), Dr. R.S. Varshney, passed away on 06 April 2020. He was 90 years old. Dr. Varshney was born in May 1930. He graduated in Civil Engineering in 1952, completed his masters in 1962 and obtained his Ph.D. in 1972. He joined the Irrigation Department, Uttar Pradesh, India, in 1953 and became the Engineer-in-Chief and Head of the Department in 1987.

Dr. Varshney worked with the Government of Mauritius as Advisor/Projects Coordinator. He had rich and varied experience of over 35 years in the planning, design, construction, and management of river valley projects. He was a technical expert in dams. He was awarded the Jawahar Lal Nehru Research Award 1988 in recognition of his contributions to irrigation research in India. He was also closely associated with the Indian Institute of Technology, Roorkee. He authored several books on water resources engineering and management, which have emerged as standard reference material for undergraduate and graduate programs in engineering.

#### ICID's Message to Dr. Varshney's family

*"With great sorrow and a sense of loss we received the news of passing away of Dr. Varshney a few days earlier. In these difficult times, visiting personally and paying our respects is quite difficult. However, the officers and staff members of ICID, as well as present and former officers of Central Water Commission, present our condolences and prayers."*

### Take advantage of Irrigation and Drainage Online



The ICID journal, *Irrigation and Drainage* is available online FREE via Wiley online library for all ICID office bearers, work body members and subscribers.

(i) Papers are available in easy to read PDF format; (ii) Provides access to the full text of all articles published in *Irrigation and Drainage* since 2001, as well as Tables of Contents and Abstracts; (iii) EarlyView service provides papers online as soon as they have been accepted for publication, which can be several months earlier than the papers published in print; and (iv) Sign up for FREE Wiley Alerts – receive the table of contents via email as soon as an issue is published online:

From 2019 Wiley has provided each ICID office bearer, work body member and subscriber a membership registration number. Your e-mail address is your user name and you can choose your own password.

Now available online Issue **69.S1: Innovations in Irrigation Systems in Africa**, published in April 2020. This issue has been sponsored by Wageningen Environmental Research (WENR) and Association Française pour l'Eau, l'Irrigation et le Drainage (AFEID). Click for direct access to the page with the papers of this issue of *Irrigation and Drainage* on [http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1531-0361](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1531-0361)



### Temporary Suspension of the Print Edition of 'Irrigation and Drainage'

Given the emerging situation of COVID-19, Wiley Blackwell has made some hard decisions to manage its publishing operations during the pandemic. Wiley has informed the chairman of the Editorial Board of the International Commission on Irrigation and Drainage (ICID) journal 'Irrigation and Drainage,' Prof. Em. Dr. Ir. Bart Shultz, that work-from-home practices across the globe and country-wide lockdowns have disrupted the publishing workflow. Wiley is facing challenges in the distribution of its print content as a result of this change. Many countries have suspended the distribution of print material due to delivery problems posed by fewer flights and prioritization of medical supplies for air freight. To reduce pressure on the printers and other supply-chain vendors to send their employees to work and increase their risk of exposure to the virus, Wiley has decided to suspend all printing and distribution of the journal until further notice. The majority of print customers have access to Wiley Online Library. That should help users to access the publications digitally and ensure the least disruption in the assessment and dissemination of contemporary research reports in the fields of irrigation and drainage.

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## News from International Partners

### World Water Development Report 2020 – Water and Climate Change



The World Water Development Report is the UN-Water flagship report on water. This yearly report, published by UNESCO/UN-Water, aims at informing the water and climate community about the challenges, opportunities, and potential responses to climate change. Food and Agricultural Organization (FAO) has also chipped in with its expertise on agriculture and food security. 'Water and Climate Change' aims at helping the water community to tackle the challenges of climate change and updating the climate change community about the opportunities that improved water management offers in terms of adaptation and mitigation.

The climate is changing and will continue to evolve, affecting societies mainly through the water. The alteration of the water cycle will also pose risks for energy production, food security, human health, economic development, and poverty alleviation, thus seriously jeopardizing the achievement of the Sustainable Development Goals.



### Making sure Rural Communities are not left behind in Response to COVID-19



Whenever a crisis strikes, it is invariably the poor and the vulnerable who suffer the most. In many cases, they are affected directly by a disaster. In other cases, their lives are made more difficult by the economic consequences. Often it is a combination of both. International Fund for Agricultural Development (IFAD) is taking steps to ensure that rural women and men continue to grow food and do not fall into deeper poverty during this challenging time. IFAD is looking forward to working with governments, multilateral agencies, international financial institutions, the private sector, and civil society groups for a coordinated global response. The COVID-19 crisis cannot be allowed to undo years of good work in reducing rural poverty. At this challenging time, there is a need for international cooperation for a robust global multilateral system – one that responds to the immediate impacts of the crisis while also protecting the needs of the most vulnerable groups. In the collective global COVID-19 response, no one – and no community – should be left behind.



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### ICOLD invites National Committees to Attend the 88<sup>th</sup> Annual Meeting



The Indian National Committee on Large Dams (INCOLD) is hosting the **88<sup>th</sup> Annual Meeting of the International Commission on Large Dams and Symposium on Sustainable Development of Dams and River Basins** in New Delhi from **26 September 2020 to 01 October 2020**. India has built 5264 dams, which includes Bhakra, Tehri, Sardar Sarovar, and many more mega projects, and 437 dams are under construction. The Dam sector in India has contributed significantly towards meeting the growing water and power requirements of the country. Yet, India is facing increasing pressure on water resources due to population growth, urbanization, and the effect of climate change. This symposium will provide an interactive platform to share path-breaking ideas on the theme 'Sustainable Development of Dams and River Basins' besides Special Workshops, including the workshops of the ICOLD Technical Committees. Find more information here, <https://www.icold2020.org/>

