



From Secretary-General's Desk

Dear Colleagues,

We are currently conducting the 24th ICID Congress and the 73rd IEC meeting in Adelaide, Australia. I am happy to inform you that the event has been launched successfully. The Congress theme this year is 'Innovation and Research in Agriculture Water Management to Achieve Sustainable Development Goals.' The event is addressing two contemporary questions: Question 62: What Role Can Information and Communication Technology Play in Travelling the Last Mile? and Question 63: What Role Is Played by Multi-Disciplinary Dialogue to Achieve Sustainable Development Goals? The Special Session and Symposium are being held on the topics 'Developing the future tools for managing uncertainty in irrigation water supply,' and 'Integrated Approaches to Irrigation Management in Future', respectively. More details on the proceedings of the event will be covered in the subsequent issues.



During the month of September, the former President of ICID, Prof. Chandra A. Madramootoo participated in Science Summit at the United Nations General Assembly, along with government leaders, policymakers, and experts from some of the SIDS. The Summit focused on issues such as climate change, food security, climate-vulnerable economic region, increasing intensity of natural disasters, the mutation in agriculture etc. The Indian National Committee of ICID (INCID) also launched its website during the month. The new website is designed to be more user-friendly across all platforms and devices. INCID is also launching a National Certification Course on Participatory Irrigation Management (NCCPIM). More details are available in this issue and on: <http://www.incid.cwc.gov.in/>.

Moving further, several other major ICID events are lined up for the upcoming years. The 10th International Micro Irrigation Conference will jointly be hosted by the Moroccan National Committee on Irrigation and Drainage (ANAFIDE) and ICID with support from the Directorate of Irrigation and Agricultural Land Planning (DIAEA) of the Government of Morocco from 25-27 January 2023

in Dakhla, Morocco. The Fourth World Irrigation Forum (WIF4), together with the 74th International Executive Council (IEC) Meeting, hosted by the Ministry of Water Resources of the People's Republic of China, and the Chinese National Committee on Irrigation and Drainage (CNCID), will be organized by China Institute of Water Resources and Hydropower Research, from 16-22 April 2023 in Beijing, China. The 25th Congress and the 75th IEC Meeting in Vizag city of Southern India in November 2023, hosted by the Indian National Committee on Irrigation and Drainage (INCID), Ministry of Jal Shakti (MoWR), Gol and Government of Andhra Pradesh. Visit <http://www.wif.icidevents.org> to learn more.

I look forward to meeting you during the events and would like to thank you for your continued support.

Sincerely,

Ashwin B. Pandya
Secretary-General, ICID

President Hon. Prof. Chandra A. Madramootoo participated in Science Summit at the United Nations General Assembly (UNGA77) as a Moderator



A webinar was organized by United Nations General Assembly on 26 September 22 for Science Summit at the United Nations General Assembly (UNGA77). The webinar was attended and Moderated by Hon. President ICID, Prof. Chandra A. Madramootoo

and Speakers, Ismahane Elouafi, Chief Scientist, Food and Agriculture Organization of the United Nations, Gordon Hickey, Professor and William Dawson Scholar in the Depart, McGill University, Md. Saidul Islam, Associate Professor, School of Social Sciences, Nanyang Technological University, Singapore, Hon. Indar Weir M.P., Ministry of Agriculture and Food Security, Government of Barbados and Mr. Irfaan Ali, President of the Co-operative Republic of Guyana. The session featured government leaders, policymakers, and experts from some of the Small island developing states (SIDS) and addressed issues including climate change, food security, climate-vulnerable economic

region, increasing intensity of natural disasters, the mutation in agriculture etc.

ABOUT

There are 58 countries that make up SIDS, with 38 having membership in the UN. SIDS countries are dispersed over a vast geographical expanse in the African, Americas, Mediterranean, South-East Asia and Western Pacific Regions. Their GDPs are also highly variable with one-half having a per capita GDP of less than US\$ 8000. High economic disparities can be seen within a single region. For example, in the Caribbean Region (CARICOM), Gross National Income (GNI) per capita varies from a low of around US\$800 to

over US\$30,000. All of the CARICOM countries are experiencing negative GDPs for the past few years, with the single exception of Guyana which had a growth rate of 43% in 2020. This is due primarily to its very recent petroleum production and exports.

SIDS countries are highly vulnerable to the shocks of climate change, specifically the loss of property and some life, due to severe storm events, hurricanes, cyclones, flooding, landslides, periodic droughts, earthquakes, and sea level rise. The economic impacts are severe, especially to the tourism, agricultural and coastal fisheries sectors. Rebuilding from severe climate events is enormously expensive when one considers, in the CARICOM region, for example, the region's total debt is over US\$60 billion or 74% of the total GDP. The generally weak economies of CARICOM countries are unable to bear the financial burdens of rebuilding. Many SIDS economies have been not been able to fully recover since the global financial crisis of 2009, and this has worsened with the onset of the COVID-19 pandemic in early 2020.

The SIDS Accelerated Modalities of Action (SAMOA) Pathway underscores the need for a more integrated approach to sustainable development as emphasized in the 2030 Agenda.

It calls for strengthened international cooperation and partnerships, with adequate investment and coordinated implementation, to address and halt the persistent development challenges of SIDS.

Food security remains one of the biggest development challenges facing SIDS. The achievement of SDG #2 - End hunger, achieve food security and improved nutrition and promote sustainable agriculture remains far from attainable in SIDS countries by 2030. The SIDS all face large food import bills and an alarming increase in obesity and malnutrition and non-communicable diseases eg. heart disease, diabetes and stroke. Cutting the food import bill and reducing food and nutrition insecurity are of high priority in the SIDS. In CARICOM, for example, the annual food import bill is over 5 billion USD per annum. Heads of Government have agreed to cut the important bill by 2025. Guyana is leading the regional effort, given its vast and favourable land and water resources and its ability to make the region more self-sufficient in local food production. However, there is a need for agricultural diversification, strengthening local productive capacities, and opening of transportation, storage and marketing facilities, all of which require capital and private sector partnerships. Furthermore,

the need to integrate food security into nutrition security to health outcomes has yet to be developed from an operational standpoint. Trade liberalization, tariff barriers and food safety regulations are all factors which require consideration. These issues are common to all SIDS.

President Hon. Prof. Chandra A. Madramootoo (Moderator)

Professor Madramootoo is a Distinguished James McGill Professor of Bioresource Engineering at McGill University. He is also a Visiting Faculty in Water and Food Security at the Massachusetts Institute of Technology (MIT). He served as Dean of the Faculty of Agricultural and Environmental Sciences and was the Founding Director of the Brace Centre for Water Resources Management at McGill. Professor Madramootoo is currently Vice Chair of the Board of the International Development Research Centre (IDRC) of Canada, and a member of the Steering Committee of the Global Framework on Water Scarcity in Agriculture, hosted at the United Nations Food and Agriculture Organization. He served as President of the International Commission on Irrigation and Drainage (ICID). He also served as Chair of the Board of Trustees of the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) headquartered in India.

India National Committee on Irrigation & Drainage (INCID) Launched New Website

In celebrating the 70th year of the journey from the time of its formation INCID is pleased to announce the launch of its new website along with a new look. The new features will make visiting the site easier and a more interactive experience. The primary goal during the redesign process was to create a more valuable, user-friendly and responsive resource across all platforms and devices. Specifically, the focus is on making it easier for users to learn and locate valuable information about technology solutions for their particular applications not only at their desks but on mobile devices. INCID briefly walked through various new features of the website, especially the section on professional information on present and past activities and partner wings segments.

NCID was established along with the ICID on 24th June 1950 to cater to India's needs for improvements in irrigation

& drainage, through closer & active interactions with ICID.

INCID functions as India's representative National Committee for the ICID. The primary objectives of INCID include stimulating and promoting the development and application of irrigation, drainage, river training, and flood control techniques within India while integrating the efforts of the Central Government, State Governments, academic institutions, and private sector in the field of agriculture water management.

INCID is serving as an ideal platform to stimulate the appropriate application of engineering, agriculture, economic, environmental, legal, and social science techniques to improve irrigation, drainage, and flood control practices. INCID works towards identifying the technology upgradation needs of the country and suggests the import of technology from appropriate countries/organizations.



INCID was re-constituted in August 2019 by the Ministry of Jal Shakti, Government of India. INCID is headed by Chairman, Central Water Commission (CWC) and Chief Engineer (Environmental Management Organization), CWC is its Member-Secretary, and Remote Sensing Directorate, CWC serves as INCID Secretariat. For more information and participation, please click the link: incid.cwc.gov.in

INCID Start National Certificate Course on Participatory Irrigation Management (NCCPIM)

National Water Academy (NWA) Pune & INCID have joined hands to develop and launch an online Certificate Course on Participatory Irrigation Management (NCCPIM). NCCPIM is aimed to fulfil the long-standing need for PIM literacy among farmers and government field functionaries engaged in implementing PIM through the formation and strengthening of water user associations.

The online course will be effected through NWA Pune in association with

the Indian Network on Participatory Irrigation Management (IndiaNPIM). The design, preparation and delivery of the training modules have been undertaken by IndiaNPIM and the course including all the course material has been hosted on the Moodle LMS of NWA (www.nwapune.gov.in).

Demo courses on NCCPIM in Hindi & English mediums separately have been conducted for farmers to check the veracity and responsiveness of the website. No issues have been reported

by the farmers and 90% of the farmers were able to finish the complete course in 10 days without any hurdles. NWA Pune has also conducted demo courses on the portal to check the process of registration and the responsiveness of the portal.

INCID is having deliberations with the stakeholders including NWA Pune and India-NPIM to discuss the schedule, modalities and arrangements for the launch ceremony of the online course. For more information click <http://incid.cwc.gov.in/>

10th International Micro Irrigation Conference organized by ANAFIDE 25-27 January 2023 in Dakhla, Morocco

The International Commission on Irrigation and Drainage (ICID) proudly announces the convening of the 10th International Micro Irrigation Conference in Dakhla Morocco, and invites the irrigation and drainage professionals from the world over to contribute and showcase their work through the presentation of papers.

The International Micro Irrigation Conference (IMIC) aims to bring together all the stakeholders relevant to the field of irrigation, drainage, and other related aspects of water management. IMIC is a multi-sectoral platform creating avenues for discussions and engagement for everyone, the governments of relevant countries, policymakers, the multi-lateral and bi-lateral organizations, civil society institutions, the grass-root farmers as well as corporate leaders. Every IMIC attracts veterans, experts, and acclaimed researchers and academicians from various sectors to bring all possible issues and forthcoming solutions to the International Micro Irrigation Conference concerning the sector. In fact, in its 9th edition, IMIC held in Aurangabad, India, in January 2020 witnessed participation of several hundreds of attendees.

The 10th International Micro Irrigation Conference, jointly hosted by the Moroccan National Committee on Irrigation and Drainage (ANAFIDE) and ICID with support from the Directorate of Irrigation and Agricultural Land Planning (DIAEA), will be held during 25-27 January 2023 in the Conference center of the city of Dakhla in Southern Morocco. Beside being a true heaven of peace between lagoon and ocean, Dakhla is a growing economical center with increasing areas of irrigated land where high value added crops are grown in greenhouses. An important irrigation project will soon be implemented in the region of Dakhla. It consists of irrigating an area of

5,000 ha using dessalinated sea water powered by wind energy.

Theme: Micro-irrigation in the Era of Technology Innovation and Digital Transformation

Given the above, papers are invited and discussed under the following Sub-themes:

Sub-Theme 1: Public Policies and the Promotion of Micro Irrigation: Lessons Learned

Sub-Theme 2: Innovation in Micro-Irrigation Design and Technology to Improve Resilience to Climate Change

Sub-Theme 3: Micro-Irrigation for small-Scale Farming, Challenges, Opportunities and Initiatives

Sub-Theme 4: Micro Irrigation to Promote the Nexus "Water - Energy - Food"

Sub-Theme 5: Digital Transformation for the Management of Micro-Irrigation

Sub-Theme 6: International Coopération for the Developpement of Micro Irrigation

Schedule for submission of abstracts/ full papers

- Submission of extended abstracts (max. 300 words) — **15 September 2022**
- Notification of Acceptance — **15 October 2022**
- Submission of full paper (10 pages of A4 size) — **30 November 2022**

- Notification to the author regarding oral/ poster presentation — **15 December 2022**

Online paper submission

- Online 'Extended Abstract' submission is now open. New Users are expected to create their own accounts. The procedure for creating a new account is available at www.10imici.ma
- Please send an 'Extended Abstract' of your proposed paper using the corresponding template in www.10imici.ma
- Upon receiving an acceptance letter from the conference organizer, authors with accepted abstracts will be required to provide an electronic version of the full-length papers in Microsoft Word format using the provided template from www.10imici.ma

Contact Coordinates:

10IMIC Scientific Secretariat:

Pr El Houssine BARTALI, Vice President, Moroccan National ICID Committee (ANAFIDE)
2, Rue Haroun Errachid,
Agdal Rabat, Morocco
Email: bartali.h@gmail.com,
anafide.ma@gmail.com
Tel.: +212 661152805

ICID Central Office:

Er. B.A. Chivate
Director (Technical), ICID
48 Nyaya Marg, Chanakyapuri,
New Delhi – 110 021, India
E-mail: icid@icid.org,
Tel.: +91 11 2611 6837; +91 11 2611 5679

Fourth World Irrigation Forum (WIF4) 16-22 April 2023, Beijing, China

The International Commission on Irrigation and Drainage (ICID) proudly announces the convening of the Fourth World Irrigation Forum (WIF4) in Beijing, China, and invites the irrigation and drainage professionals from the world over to contribute and showcase their work through the presentation of papers.

The ICID triennial World Irrigation Forum (WIF) aims to bring together all the stakeholders relevant to the field of irrigation, drainage, and other aspects of water management. WIF is a multi-sectoral platform creating avenues for discussions and engagement for everyone, the governments of relevant countries, policymakers, the multi-lateral and bi-lateral organizations, civil society institutions, the grass-root farmers as well as corporate leaders. Every WIF attracts veterans, experts, and acclaimed researchers and academicians from various sectors to bring all possible issues and forthcoming solutions to the forum concerning the sector. In fact, in its third-year only, WIF3 held in Bali, Indonesia in September 2019 witnessed a footfall of over fifteen hundred participants.

The Fourth World Irrigation Forum (WIF4) together with the 74th International Executive Council (IEC) Meeting, jointly hosted by ICID, the Ministry of Water Resources of the People's Republic of China, and the Chinese National Committee on Irrigation and Drainage (CNCID), and organized by China Institute of Water Resources and Hydropower Research, will be held during 16-22 April 2023 in Beijing, China.

Theme: **Modernization of Irrigation Systems**

For decades now, pursuing and achieving water security has become one of the top most agendas of global development. Increasing population and subsequent development demand an increasing amount of freshwater for consumption. Historically, irrigated agriculture has been the biggest freshwater consumer, but its share is reducing due to its limited availability as well as competition from other sectors. However, in the current scenario of increasing water scarcity, agriculture and subsequently food security will bear the brunt of this reduced supply. Thus, improving the irrigation water management and propagating modernization of irrigation systems is of utmost importance in current times.

Modernization of irrigation systems entails holistic improvement of resource mobilization, delivery to the farm gates, water saving techniques, management practices, policies, institutional and financing mechanisms that ultimately result in agricultural, social, environmental and economic benefits. The topic of modernization and revitalization of irrigation systems is relevant to the vision and mission of ICID and of interest to its members. Thus, the flagship event of ICID, World Irrigation Forum 4, WIF4 aims to highlight the importance of modernization of irrigation systems and discuss, in detail, different aspects of it, outlined in the sub-themes (ST):

Given the above, papers are invited and discussed under the following Sub-themes:

Sub-Theme 1: Policy and strategy for modernization of irrigation systems

Sub-Theme 2: Technology for modernization of irrigation systems

Sub-Theme 3: Financing for modernization of irrigation systems

Sub-Theme 4: Performance assessment of irrigation systems

ST-1: Policy and strategy for modernization of irrigation systems

ST 1.1 Development planning for modernization including the overall vision, development lay-out, roadmap of implementation, safeguard measures, etc.

ST 1.2 Supporting policies for modernization adopted by all levels of government on matters such as investment, construction material, facilities and equipment, operation and maintenance, management system and mechanisms

ST 1.3 Laws and regulations supporting and safeguarding modernization and preparing a conducive social and economic environment for ensuring longevity of the measures

ST 1.4 WEF E (Water-Energy-Food-Ecosystems) nexus approaches for managing trade-offs and enhancing synergies

ST-2: Technology for Modernization of Irrigation Systems

ST 2.1 Engineering technologies for modernization: water consumption monitoring technologies, coordinated multi-water-source allocation technologies, handling of aging infrastructure for water resources storage and conveyance, responsive canal network/pipeline water delivery and distribution technologies, scheduling and control technologies of water use, on-farm irrigation technologies, etc.

ST 2.2 Management technologies for modernization: Smart-water management technologies including information sensing and transmission technologies, data governance and integration, establishment of a knowledge base, decision support system, drone applications in improving precision irrigation management and scheduling, etc.

ST 2.3 Technical standards system for modernization: the dimensions modernization, the expected results of modernization, comparative studies of technical standards of different countries, etc.

ST 2.4 Innovative approaches for irrigation performance appraisal including landscape-based approaches

ST-3: Financing for Modernization of Irrigation Systems

ST 3.1 Investment by all levels of government

ST 3.2 Investment by the private sector and the banking sector

ST 3.3 Investment by the beneficiaries, such as farmers, WUAs, etc.

ST 3.4 Investments and revenue models for sustained asset management of irrigation

systems for its operation and maintenance

ST 3.5 Investments for Asset Management of Irrigation Systems for improved services delivery

ST-4: Performance Assessment of Irrigation Systems

ST 4.1 Assessment of physical infrastructures such as storage and diversion work, canal networks, pumping stations, water gates, etc.

ST 4.2 Assessment of management and water service delivery

ST 4.3 Assessment of socio-economic, eco-environment and natural resources benefits for improved productivity

A brief 'Concept Note' of the above sub-themes is given in the accompanying tabs and is also available as a download document on the contributions management portal at <https://wif.icidevents.org/about.aspx>

Schedule for submission of abstracts/ full papers

i. Submission of extended abstracts (max. 300 words) — **30 September 2020**

ii. Notification of Acceptance — **15 October 2022**

iii. Submission of full paper (10 pages of A4 size) — **31 October 2022**

iv. Notification to the author regarding oral/poster presentation — **15 December 2022**

Online paper submission

1. Online 'Extended Abstract' submission is now open. New Users are expected to create their own accounts. The procedure for creating a new account is available at https://wif.icidevents.org/Register_Modify.aspx and for more help visit the guidelines for use of the Portal
2. Please note that only the 'Extended Abstracts' of the papers are required in the first stage of submission to enable peer review by an International Review Committee. PLEASE DO NOT SUBMIT THE FULL PAPERS AT THIS STAGE as they would not be reviewed now.
3. Upon receiving an acceptance letter from ICID Central Office, authors are required to provide/upload an electronic version of the full-length papers in the given template in Microsoft Word format by strictly

following the guidelines available at https://wif.icidevents.org/InfoDocs/guidelines_wif4_papers.pdf

Contact Coordinates:

WIF4 Secretariat:

Mr. Gao Lihui, Executive Secretary, Chinese National Committee on Irrigation and Drainage (CNCID) 1, Yuyuantan South Road, Beijing 100038, China
Email: gaoh@iwhr.com; cncid_office@sina.com; lihui.gao@qq.com,
Tel.: +86 10 6878 1193

ICID Central Office:

Er. B.A. Chivate, Director (Technical), ICID and WIF4 Coordinator, 48 Nyaya Marg Chanakyapuri New Delhi – 110 021, India
E-mail: icid@icid.org
Tel.: +91 11 2611 6837; +91 11 2611 5679, +91 11 2467 9532

Newly Introduced ICID Website Features

ICID website acts as a doorway to a wide range of information on irrigation, drainage, and flood management. It serves as a vital communication mechanism with National Committees, Direct Members, and partner organizations.

Members Login/ Members Only

The website introduced a new "Member's Only" section in which members of ICID can log in using their registered e-mail address and find informational resources strictly for members.

The user must log in to the platform to obtain access to



these materials and resources. Members can access this website portion with the registered first e-mail address and password. If forgotten, a password can be obtained on the registered e-mail address using the 'Forget Password' option. In addition, Members are requested to update their profile using Member's

Login for projecting accurate information.

Online Membership Forms

The ICID Website now includes online membership forms for joining as **National Committee or Direct Member**. The online National Committee form requires only information on the country and contact details of the individual. The other information available on the platform includes Irrigated Area, Drained Area, and UN Contribution percentages that are automatically extracted from the database for computation to generate a request letter, tentative subscription amount to obtain necessary approvals and initiate bank transfer of the subscription amount, to name a few. Upon completing the form, a confirmation e-mail will be received at the registered e-mail address,



which contains links to download the PDF format of the filled form, options to edit, final submission, etc.

Similarly, the **Direct Membership form** accepts all the required fields for Companies, Institutions, and Individuals (Individual, Individual (Retiree), Individual (Young Professional)). On completion of the required fields, a tentative subscription amount will be generated based on the selections. After initial submission, a confirmation e-mail will be received at the registered e-mail address, which contains links to download the PDF format of the filled form, options to edit, final submission, etc.

ICID welcomes your esteemed country to join as a member (National Committee) or Direct Member to take advantage of the services and benefits provided by the Commission, to achieve the vision of "A water-secure world free of poverty and hunger through sustainable rural development".

Let's use this opportunity to reconnect with an organization exclusively working in the areas of Irrigation, Drainage, and Flood management with more than seven decades of service to the international community.

"Alone, we can do so little; together, we can do so much."

25th International Congress on Irrigation and Drainage

1–8 November, 2023, Vizag (Visakhapatnam), Andhra Pradesh, India



The 25th ICID International Congress on Irrigation and Drainage and the 75th International Executive Council Meeting is being organized by the Govt of Andhra Pradesh and the Indian Irrigation Commission on Irrigation & Drainage (INCID) on the main theme "Tackling Water Scarcity in 'Agriculture' during 1–8 November, 2023 at Vizag (Visakhapatnam), India. During the Congress, the papers will be presented and discussed, answering Questions 64 & 65.

In addition, Special Sessions, Symposiums, Training, Workshops, and a large number of side events will also be held as part of this mega event.

International Commission on Irrigation and Drainage (ICID) strives for a water-secure world free of poverty and hunger through its mission to facilitate prudent agriculture water management. "Enabling Higher Crop Productivity with Less Water Energy" is the most cherished goal of ICID Vision 2030. Through its tri-annual Congresses, ICID, provides a forum to exchange knowledge, information and technology solutions alternative water resources and increasing water productivity through on-farm interventions to tackle agricultural water scarcity.

QUESTION 64: What alternative water resources could be tapped for irrigated agriculture?

- Q.64.1: Reinforcing conventional sources of irrigation water**
- Q.64.2: Tapping non-conventional sources of water**
- Q.64.3: Empowerment of farmers**

QUESTION 65: Which on-farm techniques can increase water productivity?

- Q.65.1: Improving management of existing facilities**
- Q.65.2: Improved agronomics practices**
- Q.65.3: Efficient application of irrigated water**

SEMINAR: National policies for safe re-use of wastewater in irrigation

Symposium: Tackling Climate Change – Role of Storages for Irrigation

Contact Organizer:

Indian National Committee on Irrigation and Drainage (INCID), Mr. R. Girdhar, Director, Indian National Committee on Irrigation and Drainage (INCID) C/o Remote Sensing Directorate, Central Water Commission, Department of Water Resources (RD and GR), Ministry of Jal Shakti, Govt. of India, 425(N), Sewa Bhawan, R.K. Puram, New Delhi 110066 and **Andhra Pradesh Government:** VPH Dr. Yella Reddy, E-mail: icid.25congress@gmail.com, yellark@gmail.com, Website: www.icid25congress.in

ICID Central Office:

Er. Balasaheb Anantrao Chivate, Director (Technical), ICID, E-mail: icid@icid.org, Website: <https://icid-ciid.org/event/detail/25>

FERO AARDO Organized Online Training Program

The regional office of AARDO for the Far East (FERO) successfully organized an online training programme on 'Innovation for Sustainable and Resilient Agriculture: The Korean Experience from August 22 to 25. The programme aimed to enhance understanding of institutional and technological innovation, which includes agriculture cooperatives, smart irrigation, appropriate technology and the seed sector by inviting relevant experts to share their knowledge and insights on the policies and instruments adopted by Korea, a country with experience in sustainable agriculture practices and rural development.

Over 120 participants from 20 countries attended the training programme. In the opening remark, Mr. Rami Qtaishat, the Assistant Secretary General of AARDO, underlined the need for a major transition



in the agriculture system to address the challenges in ensuring food security and sustainable livelihood of over 9.6 billion population in 2050. Dr. Jun-won Lee, Regional Representative of FERO AARDO said "I sincerely hope that this training programme serves as a basis for the Member States to better understand and adopt innovative technologies and practices,"

The call for abstracts is now open for submissions for the UNESCO-IWRA Online Conference

The International Water Resources Association (IWRA), in partnership with UNESCO-IHP, is pleased to announce that the call for abstracts is now open for submissions for the UNESCO-IWRA Online Conference on "Emerging Pollutants: Protecting Water Quality for the Health of People and the Environment".

The Online Conference will highlight the ways the world can advance knowledge, research, and solutions for managing emerging pollutants to improve and protect water quality in a changing world.

For more information about the submission process, please contact us at online.conference@iwra.org.

Global Conference on Sustainable Plant Production, 2 – 4 November 2022



The Food and Agriculture Organization of the United Nations (FAO) is organizing the first-ever Global Conference on Sustainable Plant Production (GPC) with the theme Innovation, Efficiency and Resilience, on 2-4 November 2022. The GPC will provide a neutral forum for FAO Members, farmers, scientists, development agencies, policy makers, extensionists, civil society, opinion leaders, and the private sector for focused dialogues on innovation that creates efficient plant production systems with resilience to biotic and abiotic stresses, climate change, natural hazards and geopolitical disruptions. Tomorrow's agriculture will need to produce more food with less environmental footprints and contribute to strong local and diversified agrifood systems that are more resilient to shocks and disruptions.

The GPC will generate authoritative evidence for actions to realize the goals of FAO Strategic Framework 2022-31 for the transformation to MORE efficient, inclusive, resilient and sustainable agrifood systems for better production, better nutrition, a better environment and a better life, leaving no one behind, thus contributing to achieving the Sustainable Development Goals (SDGs), especially SDGs 1, 2 and 12.

Objectives of the conference:

- Raise awareness of the contribution of sustainable plant production to implementing FAO Strategic Framework 2022-31, to attain the SDGs at global, regional and national levels.
- Share information and knowledge on the strategic direction and technical developments in sustainable plant production worldwide.
- Demonstrate FAO's technical leadership and convening power to support its Members for sustainable plant production.
- Provide a neutral platform and technical networks on sustainable plant production for demand-driven and context-specific multi-stakeholder dialogues.

Theme: The GPC will focus on critical aspects of sustainable plant production systems around seven themes:

- Seed systems: use of quality seeds of superior crop varieties that are nutritious, pest and disease resistant, stress-tolerant and input use efficient.
- Field cropping systems: agronomic practices to maintain crop productivity through diverse and context specific systems that are based on ecological interactions and reduce reliance on agro-chemicals.
- Protected cropping systems: high value and short -cycle vegetable productions systems that are adapted to technological needs to overcome constraints, e.g. land, water, nutrient, pests, diseases, seasons and climate.
- Natural resource management: practices that protect, enrich and preserve land, soil, water and nutrients through ecosystem approaches.
- Integrated pest management: practices and approaches to minimize crop losses while promoting biodiversity and reducing reliance on pesticides.
- Mechanization and digitalization: appropriate mechanization technologies for sustainable crop production, precision agriculture and digitalization.
- Farmers and enabling environment: to support farmers to transition to sustainable crop production, through appropriate services and policies.

[https://www.fao.org/events/detail/global-](https://www.fao.org/events/detail/global-2nd-wasag-international-forum-on-water-scarcity-in-agriculture-making-agriculture-resilient-to-climate-change)

2nd WASAG International Forum on Water Scarcity in Agriculture – Making Agriculture Resilient to Climate Change

2nd WASAG International Forum on Water Scarcity in Agriculture scheduled from 2 -5 November, Praia, Cabo Verde has been designed to bring together key players across the globe and from different sectors to tackle the collective challenge of using water better in agriculture to ensure food security for all. It is a Partnership hosted by FAO and consisting of government agencies, international organizations, research institutions, advocacy groups and professional/membership organizations. WASAG fosters collaboration among its partners for the development and deployment of policies, strategies, and programmes, enhancing field capacity for the adaptation of agriculture to water scarcity.



regional and country levels considering that WASAG aims to respond to needs at all these levels, including river basin, local and community levels, each calling for a set of appropriate actions with the ultimate objective of assisting countries in coping with water scarcity in agriculture. The Sustainable Development Goals (SDGs) monitoring framework and its indicators will guide the monitoring and evaluation of WASAG's work, as relevant to each project or initiative in relation to the specific SDGs.

“Water scarcity is defined as a gap between available supply and expressed demand of freshwater in a specified domain, under prevailing institutional arrangements (including both resource ‘pricing’ and retail charging arrangements) and infrastructural conditions. Water scarcity = an excess of water demand over available supply

Scarcity is signalled by unsatisfied demand, tensions between users, competition for water, over-extraction of groundwater and insufficient flows to the natural environment”.

<https://www.fao.org/wasag/events/events-details/ar/c/1473347/>

Cairo Water Week 16th-19th October 2022

The Cairo Water Week - 2022 hosted by Egyptian Government. It is the second main High-Level Event “Policy Dialogues in Water Scarce Countries for Achieving SDGs”; the Government of the Arab Republic of Egypt included CWW 2021 and the upcoming CWW 2022 within the global framework of the preparatory events for the 2023 Mid-term Review Conference. These two high-level events aim to develop the contribution of water scarce countries' messages to be submitted to the U.N. Conference on the Midterm Comprehensive Review of the Water Action Decade (WAD), March 2023. Results will be highlighted during the COP27 activities.

The CCW – 2022 is focus on the Five Theme: i) Water Security & Climate Change ii) Protecting the Deltas iii) Water – Related Adaptations to Climate Change iv) Water , Climate Change and Future Cooperation v) Climate Water – Related Disasters Preparation and Management. ICID is organizing its 5th African Young Prof. Forum as part of this event.

<https://www.cairowaterweek.org/>

ICID Initiative for a Global Inventory of Irrigation and Drainage Schemes

Need a Global View

Irrigated agriculture forms the kingpin of the food and water security of the country and the region. Systematic irrigation is practised through irrigation projects of various sizes, which provide the assured source for a sustainable and timely water supply. Thus, an irrigation project forms the atomic unit of irrigation and water resources development. Across the world, irrigation is practised under varying agro-climatic conditions and topography and area appropriate solutions for the same determine the features of individual irrigation projects.

A global view of the irrigation and drainage projects provide great insights into various development approaches followed across the world, their success and their performance. It is observed that the topographic, hydrologic, agronomic and social conditions form a unique combination in which an irrigation project gets planned and implemented. Hence, there is a need to have a global view of the developments which show us the measures adopted and their contexts under a multi-dimensional environment. Attempts are made by various researchers and practitioners to examine specific issues but examination of a project as a whole in a global context requires a repository of information through which the individual projects of interest can be visualized and approached for lessons.



ICID is the only major international scientific and technical organization that, through its membership network, spans across more than 90% of the irrigated areas of the world. The necessity for having a global view of projects devoted to irrigation and drainage is greatly felt by the member countries and also across the world by various agencies. ICID has, therefore, taken initiative to collect and provide a community knowledge base of irrigation and drainage projects which can work as a common pool resource for understanding the status of development and approaches used for the development and management project under varying conditions.

Setting up a Register of World Irrigation Schemes

Various registers exist in the field of engineering structures and other entities, the most notable from the water resources angle being the World Register of Dams being maintained by the International Commission on Large Dams (ICOLD). ICID

is also maintaining a World Register of Heritage Irrigation Structures and awards recognition to the structures meeting the eligibility criteria.

Most registers examined are about structures and individual components of a system and none recording the features of irrigation and/or drainage project on a worldwide scale. It is, therefore, felt that such a register should be established for irrigation projects and ICID being a key player in the fields of irrigation and drainage is the most suitable agency for the establishment of a Register on "World Irrigation Projects". The authenticity of the projects in the register will be obtained through ICID National Committees

The facility is presently located at www.icidevents.org/WorldIrrPrjs/Default.aspx and is in the development phase. At the appropriate time, once a critical mass of data is available, the same will be migrated to a dedicated domain duly registered. <https://wip.icidevents.org/>

ICID Forthcoming Events

ICID EVENTS

74th IEC Meeting and 4th World Irrigation Forum 16-22 April 2023, Beijing, China. Theme: Modernization of Irrigation Schemes (MIS)- Water saving & Green development. Contact: gaoh@iwhr.com, ncid_office@sina.com, lihui.gao@qq.com.

75th IEC Meeting and 25th ICID Congress 01 - 08 November 2023, Vizag, Andhra Pradesh, India. Theme: Tackling Water Scarcity in Agriculture Contact: rishi1964@yahoo.com, yellark@gmail.com

10th International Micro Irrigation Conference 25-27 January 2023, Agadir - Dakhla, Morocco. Theme: Micro Irrigation in the Era of Technology, Innovation and Digital Transformation, Website: <http://10imic.ma/>. Contact: wafae.elkhoumsi@gmail.com; bartali.h@gmail.com; m.benmoussa@iav.ac.ma; anafide.ma@gmail.com

76th IEC Meeting and 9th Asian Regional Conference 1-7 September 2024,

Sydney, Australia. Website: <http://www.irrigationaustralia.com.au/>

77th IEC Meeting and 5th World Irrigation Forum May 2025, Kuala Lumpur, Malaysia. Theme: Challenges and future needs in the modernization of irrigation for food security and sustainability.

Other Events

2nd WASAG International Forum on Water Scarcity In Agriculture "Making Agriculture Resilient to Climate Change: Water Scarcity an Opportunity for action and collaboration". 2-5 November 2022, House of Parliament Praia, Cabo Verde. <https://www.fao.org/wasag>

7th India Water Week 2022: The Seventh India Water Week 2022 will be held from 1-5 November 2022 at India Expo Centre, Greater Noida, National Capital Region (NCR) of Delhi with the theme "Water Security for sustainable development with equity.". <https://www.indiawaterweek.in/>

Rainwater Harvesting Webinar Series on Water efficiency, productivity and sustainability in the NENA regions (WEPSNENA). For more information, please click the link: <https://www.fao.org/in-action/water-efficiency-nena/webinars/rainwaterharvesting/en/>

8th International conference on deserts, drylands and desertification, Beer-Sheva, Israel, 27 November 2022 - 01 December 2022. <https://dddconf.org/>

3rd Global Soil Biodiversity Conference, Dublin, Ireland, 13 - 15 March 2023. <https://gsb2023.org/>

Using Spatio-temporal data in local SDGs monitoring, 18-19 August 2022, at BRIN Headquarters, Jakarta, Indonesia. <https://www.unescap.org/events/2022/target-sdgs-identification-needs-assessment-and-development-action-plans-use-integrated>

