



From Secretary General's Desk...

Dear Colleagues,

Noble Peace Laureates Alliance for Food Security and Peace, established by FAO is a joint effort to make sure that hunger will not ignite further conflict and that the food systems in place are more resilient. [The Alliance held an event on 11th May 2016 in Rome, Italy.](#)



“Transforming our world: The 2030 Agenda for Sustainable Development” is characterised by a shared responsibility to achieve inclusive and shared prosperity in a peaceful and resilient world. Enshrined in the SDGs is a clear message on the interrelations between development and peace: “there can be no sustainable development without peace and no peace without sustainable development”. Well-designed and integrated policies and actions supporting food security have a vital role to play both in preventing conflict, and in building and securing peace.

Water security in a changing climate is equally important, if not more, for peace and security. Agriculture being the biggest extractor of water, agriculture water management can be crucial in these global efforts for peace and security. The rural transformation leading to sustainable development would require that water security is ensured. The Second World Irrigation Forum (WIF2) will address this important aspect. The Ministerial Roundtable with the theme “**Rural Transformation through Efficient Agriculture Water**

Management” is aimed at addressing these issues. More details are available at <http://www.worldirrigationforum.net>

Experts from around the world are now engaged in developing their full length papers on the theme “Water management in a changing world: Role of irrigation for sustainable food production”, and its three sub-themes. The background papers on the sub-themes, prepared by expert teams from various institutions around the world will be available soon. An array of luminaries from the irrigation and drainage field, and listed within will be addressing the Forum providing a multi-disciplinary perspective on the subject. Side Events will be adding another dimension with a trans-disciplinary insight in to the related subjects. As part of the exhibition, National Committees will be organizing a Side Event on Historical Perspective of Irrigation and Drainage.

Africa is at the focus of various ICID activities. In order to take forward the capacity development agenda with a focus on Africa, a one week training course on “On-farm Water Use and Management” was organized in Egypt on 18-24 April 2016 where 21 African Young Professionals successfully completed the one week course. The trainees also attended the 4th Africa Regional Conference (ARCID4) that followed from 26-28 April 2016. During the Conference, Capacity Development Strategy for Africa was formally adopted. Details of the Conference and Training are reported in this edition of the NEWS Update. The participants at the ARCID4 decided to articulate the role Agriculture Water Management should play in the impending Second Green Revolution in Africa.

On the occasion of the 67th ICID Foundation, Day Indian National Committee (INCSW), jointly with the Central Office is organizing a seminar on “Second Green Revolution: Role of Irrigation and Drainage”. I encourage NCs to organize similar technical events as part of the Foundation Day on 24th June, around this or any other topic. By sharing the outcomes of deliberations on the requirement under Second Green Revolution at the national level with the ICID community you would be contributing to the ICID Position Paper on Second Green Revolution and the role that ICID could play.

The most significant Agenda at the next IEC meeting would be the discussions on the ICID Action Plan that would be presented and debated during the event. The Draft ICID Action Plan is now being prepared by the Consultative Group and soon, YOU would be approached to provide your inputs in terms of what do the NCs expect from the ICID network to play their assigned national role in achieving SDGs. I appeal to you to please arrange wide discussions among all members of the NCs, and not just the Executive Committee, to give direction to the Action Plan.

Once again signing off with the request to keep communicating, keep sharing and benefitting from the experiences of hundreds of irrigation and drainage professionals from around the world.

With Best wishes,

Avinash C. Tyagi
Secretary General



Vision, Mission & Goals

http://www.icid.org/vision_2030.html

Vision — Water secure world free of poverty and hunger through sustainable rural development

Mission — Working together towards sustainable agriculture water management through inter-disciplinary approaches to economically viable, socially acceptable and environmentally sound irrigation, drainage and flood management.

Goals — **(1)** Enable higher crop productivity with less water and energy; **(2)** Be a catalyst for change in policies and practices; **(3)** Facilitate exchange of information, knowledge and technology; **(4)** Enable cross disciplinary and inter-sectoral engagement; **(5)** Encourage research and support development of tools to extend innovation into field practices; and **(6)** Facilitate capacity development.

Agricultural Land and Water Management for Sustainability under Climate Variability

The 4th African Regional Conference on Irrigation and Drainage (ARCID) was organized from 26-28 April 2016 at historical city of Aswan, Egypt on the main theme 'Agricultural Land and Water Management for Sustainability under Climate Variability' by the host Egyptian National Committee on Irrigation and Drainage (ENCID). Three sub-topics covered were (i) Water Use Management; (ii) Food Security; and (iii) Research, Extension Services and Capacity Development.

Around 250 participants attended the conference representing 31 countries, mainly from Africa, Europe, Asia, Australia and USA.

The conference held under the patronage of Prime Minister of Egypt, was inaugurated by H.E. Prof. Mohamed Abdel Atty, Minister of Water Resources and Irrigation, Egypt in the august presence of H.E. Magdy Hegazy, Governor of Aswan, H.E. Om Prakash Dhankar, Minister of Irrigation, Agriculture and Rural Development, Haryana State, India, H.E. Eng. Wassfi Hassan El-Sreihin, Secretary General, African-Asian Rural Development organization (AARDO), Dr. Saeed Nairizi, President ICID, VPH Dr. M.H. Amer, Chairman, ENCID, and an elite assembly of national, regional and international scientists, experts and professionals in the fields of irrigation, drainage, agriculture, environment and related fields.

The 4th ARCID was sponsored by a number of partners from ICID, ENCID, Ministry of Water Resources and Irrigation, KRC, KCID, ICARDA, RTSWRI, NWRC, Arab Water Council, GIZ, WMRP, MWRI Planning Sector, EgyptAir, Banque du Caire, FAO, National Bank of Egypt, among others.

The conference activities included six keynote speeches presented by the top-notch scientists from South African National Committee of Irrigation and Drainage (SANCID), Korea Rural Corporation (KRC), International Water Management Institute (IWMI), Center for Environment and Hydrology (CEH), Alterra Team/ESS CALM (The Netherlands), and AARDO; 8 Technical Sessions (on main topics); 3 Special Sessions (on additional topics); 2 Side Events; a special session for the African Regional Working Group (AFRWG); an Office-Bearer's meeting (ICID President and Hon. Vice President); around 70 oral presentations; around 18 poster presentations in 3 Poster Sessions; a scientific Exhibition for national and international institutions in the water sector and related industries to display their activities, programs and products; and an exciting program of tours for participants



and accompanying persons including cultural/sightseeing tours, technical tours and post-conference study tours.

The following highlights are emerged from the 4th ARCID recommendations:

- Global Initiative on African Green Revolution. ICID needs to prepare a position paper on second Green Revolution in Africa and to set up a mechanism to extend its support in the area of Agriculture water Management.
- Regarding Water Use Management. There is need to narrow gap between water supply and demand through increasing irrigation efficiency, use of non-conventional water resources including reuse of water, amendment to cropping pattern, reducing losses especially evaporation losses etc.
- Climate Change Impacts. Water management plans should take into account temperature increase, rainfall decrease, and subsequent water resources decline. There is need to adopt measures to augment availability of water such as water harvesting, modernization of irrigation systems, adoption of latest technological advances and improved agronomical and water management practices etc.
- Water Quality Deterioration. Water quality deterioration is one of the serious problems and In-stream Natural Clean Flow (INCF) can be applied along polluted water ways to reduce pollution.
- GIS and Groundwater Modeling. GIS can be a very useful and helpful decision making tool at the pre-investigation stage for technical and financial analysis with limited funds. The existing groundwater development plan need to be updated frequently.
- Use of Non-Conventional Water Resources. For Irrigation with Sewage Water, there is a need for groundwater development and management under sewage-based irrigation and for this further studies are required to study impact of sewage water on the aquifer. For Irrigation with Brackish Water, the developed regional "Guidelines on Brackish Water Use for Agricultural Development" should be finalized urgently and disseminated on a wide scale to top level decision-makers and end level practitioners and farmers in the field.
- Stakeholders' Participation. There is need for adopting participatory approach that involves the stakeholders and local water authorities or associations taking into consideration gender issues
- Public-Private Participation. PPPs are key to the Government's economic reform agenda and so there is need to develop strategy to increase private sector involvement in public services through leveraging private spending. In order to increase participation of private sector in ICID activities, NCs should give opportunity and encourage them to become members of their NC so that they can bring private sector experience in AWM sector which may also lead to development of some PPP.
- Information Technology and Dissemination. Information technology is an important part for fast learning and dissemination. Participants felt that lot of research and technology development and use is happening at country level, but there are no arrangements for sharing of experience and knowledge among various countries especially in African region. So there is a need for encouraging collaborations and setting up of regional networks of NCs for sharing and dissemination of knowledge. Further there was feeling that in order to facilitate dissemination of knowledge from NC to their members setting up of a discussion forum on their website can be considered.

Training Programme on On-farm Water Use and Management

The African Regional Working Group (AFRWG) at its 26th meeting held on 13th of October 2015 at Montpellier, France during 66th IEC laid emphasis on sustainable development for Africa to alleviate food insecurity and agreed to need establishing and strengthening the existing national committees across the African continent. AFRWG identified lack of capacity development especially among young professionals as one of the critical issues and accordingly developed a Capacity Building Strategy (CBS) for Africa in 2015.

ICID with the support of the Egyptian National Committee on Irrigation and Drainage (ENCID) and in coordination with the Regional Center for Training and Water Studies (RTCWS) organized a short training programme on “On-farm Water Use and Management” for participants from African countries during 18-24 April 2016 with the aim of building the capacity of the engineers and practitioners in the areas of water resources management, irrigation and drainage. The course was designed to give the candidates opportunity to obtain knowledge and experience in the different related subjects dealing with irrigation and drainage.

A total 21 participants from 15 countries (Burkina Faso, Egypt, Iran, Kenya, Malawi, Mauritius, Morocco, Nigeria, Somalia, South Africa, Sudan, Uganda, Tanzania,



Tunisia, and Zambia) participated in the training programme. Training course was inaugurated by the Head of RCTWRS in the presence of Vice President Dr. Mohamed Abd-El-Moneim Wahba; Dr. M H Amer, President, ENCID; Dr. Sylvester Mpandeli, Chair, AFRWG; and Er. Harish Kumar Varma, Executive Director, ICID on 18 April 2016.

The training was successfully organized with financial support from African-Asian Rural Development Organization (AARDO), Ministry of Water Resources China through CNCID and Korean Rural Corporation (KRC) through Korean National Committee on Irrigation and Drainage (KCID).

The program was especially designed to cover various aspects on water use and

management such as (i) Precise irrigation and drainage at the farm level, (ii) Advanced irrigation technologies for enhancing water use efficiency for irrigation of crops, (iii) Modeling of irrigation water, (iv) Potential of wastewater use in Agriculture, (v) Flood and drought management through rain water management, (vi) Socio-Environmental impacts of irrigation and drainage projects, (vii) Stakeholder multi-functionality and governance including how to manage competing water use and improve decision making process, (viii) Elements of an Africa strategy framework for water uses Ethics, (ix) Application of remote sensing and GIS in water management, and (ix) Data Analysis and Graphics.

International Convention on Agricultural Engineering

A four-day Conference on International Convention on Agricultural Engineering 2016 was organized by the Research Institute on Agricultural Engineering (IAgriC) under the Ministry of Agricultural in Cuba, from 22 to 25 March 2016 at Santa Maria Key in Villa Province, Cuba. Vice President Hon. Laurie C. Tollefson (Canada) attended the conference.

During the conference, VPH Tollefson made a presentation on 'Irrigation and drainage and its relation to adaptation to climate change and food security'. In addition, VPH Tollefson also made a presentation on the role of ICID and discussed reactivation of Cuban National Committee.

The conference contributed to the national debate on difficulties and challenges in agricultural engineering in Cuba and abroad. During the conference, a large number of countries, primarily Spanish speaking such as Mexico, Central American counties, Caribbean, South America and Spain participated. More than 200 delegates attended the three day



conference which focused on the topics: (i) Irrigation, drainage, mechanization and agro-processing technologies; (ii) Management of agricultural machinery, conventional and renewable resources in agroforestry activity; (iii) Climate impact on irrigation and drainage; (iv) Remote satellite applications and GIS in agricultural engineering; (v) Gender on food security; (vi) Precision agriculture; and (vii) Rural extension and training.

Cuba has approximately 560,000 ha of area equipped for full scale irrigation. Irrigated crops like rice, leguminous crops, sugar cane, fruits (citrus, bananas and plantains) roots and tubers, maize, tobacco, vegetables and permanent fodder are grown. Distribution of water resources in Cuba is uneven and there is large dependency on rainfed agriculture. Frequent droughts and climate change has effected the Cuban agriculture. As highlighted by scientist's agriculture has become very sensitive to climate change where the threats to agriculture is from sea water intrusion into freshwater courses, rising median temperatures and extended periods of drought.

Second Green Revolution

The Green Revolution was the result of a sequence of scientific breakthroughs and development activities that successfully fought hunger by increasing food production.

Basic ingredients of the first green revolution were: HYV seeds with superior genetics; use of chemicals - pesticides and fertilizers; and multiple cropping system supported by the use of modern farm machinery and proper irrigation system. During the period there was also expansion of farming areas. The First Green Revolution resulted in increase in production and changed the thinking of farmers. It had a marked impact on rural employment, resulted in increase in trade and the surplus rural incomes helped development of industries. Self-sufficiency in food grains affected the planning processes and gave a boost to the national self-confidence of then emerging democracies.

However, in a world that faces new challenges and is more sensitive to the sustainability concerns, it is important that a framework for the "Second Green Revolution" which aligns itself with the sustainable development principles is clearly articulated and fully comprehended to enable all the stakeholders to contribute towards the desired objectives in a synergetic collaboration. It has to cover the regions that got a miss in the first edition, for example the African Continent was unable to reap the benefits of the first green revolution. Similarly within countries in Asia, for example India, East and North East States were not privileged enough to benefit from the FGR.

We believe that through the efforts of our National Committees in Africa and support from other National Committees of ICID network we will be able to facilitate the Second Green Revolution as envisaged by the leaders in Africa, including Ex-UN Secretary General Mr Kofi Annan.

There are a number of misgivings about the SGR which need to be set straight. The Second Green Revolution has to be distinctly different from the first Green Revolution. The emphasis should be on small and marginal farmers. Attempt should be made not only to increase the production but also to sustain the productivity within the limits of natural resources. SGR should envisage integrated programmes taking care of all aspects of agriculture from soil characteristics, matching seeds, grains, conversion to food and its marketing after value addition.

As a network of Agriculture Water Management professionals, through our determined efforts, we will be able to make a substantial contribution towards sustainable rural development in Africa that ICID has envisioned in its new vision. Let us articulate how irrigation and drainage can make second green revolution a reality. Please visit Second Green Revolution page on our website.

The 2nd World Irrigation Forum (WIF2), together with 67th International Executive Council (IEC) Meeting will be hosted by Thai National Committee on Irrigation and Drainage (THAICID) during 6-12 November 2016 at the beautiful Chiang Mai, Thailand.

With the main theme of **"Water management in a changing World: Role of Irrigation in Sustainable Food Production"** and three sub-themes are: (1) Key issues of irrigation and drainage in balancing water, food, energy and ecology; (2) Management of climatic extremes with focus on floods and droughts; and (3) Key and smart actions

to alleviate hunger and poverty through irrigation and drainage covered in the Forum. The last date for submission of Full Papers is **15 June 2016**.

'Early Bird' Registration – Now open

The registration is now open for the 2nd World Irrigation Forum (WIF2) and 67th International Executive Council (IEC) and its pre-council meetings.

For more information, please access <http://www.worldirrigationforum.net/registration/>

Tentative List of Side Events

1. Role of Women in Irrigation and Drainage
2. Climate Control in Greenhouses
3. GeoSmart Technologies for Sustainable Irrigation and Drainage
4. Rural Development through Agriculture Water Management
5. Key and Smart Technologies for Irrigation and Drainage to Reduce Poverty and Hunger
6. New approaches in Education in Irrigation & Drainage
7. ICID Vision 2030
8. Special Session on New Development in Irrigation Modernization Technology
9. Use of Solar Energy in Irrigation and Drainage
10. Water Accounting and Auditing
11. Climate Information System for Farmers
12. History of Irrigation Around the World
13. Building Farm Level Capacities Irrigation Water Management to adapt to Climate Change
14. Water Saving in Rice

Keynote Speakers

- Ms. Kundhavi Kadiresan, Assistant Director General and Regional Representative, Asia and Pacific, FAO
 - Mr. Bambang Susantono, Vice-President for Knowledge Management and Sustainable Development, ADB
 - Dr. Roberto Lenton, Ex. Executive Director, DWFI
 - Mr. Jeremy Bird, Director General, IWMI
- ...More to join

Celebrating 67th Foundation Day of ICID

International Commission on Irrigation and Drainage (ICID) will be celebrating its '67th Foundation Day' on 24 June 2016. It is a matter of great pride for ICID fraternity spread across the globe to observe this ICID Foundation Day. It gives us the opportunity to re-dedicate ourselves to the mission of ICID. We request all National Committees/Committee/Direct Members to commemorate the day as 'ICID Foundation Day' by organizing a variety of events like scientific / professional meetings, brainstorming sessions, essay and drawing competitions to create awareness about water and food security related issues or for that matter the Sustainable Development Goals (SDGs).

The ICID Foundation day can also be organized as a joint activity encompassing the World Biodiversity Day (22nd May), World Environment Day (5th June) and World Day to Combat Desertification (17th June), thereby providing opportunity to bring different stakeholders together on one platform.

Please also provide a brief feedback on the celebration of the Foundation Day along with some high resolution pictures (in JPEG/ GIF/TIF format) to the ICID Central Office (E-mail: icid@icid.org) for its coverage in the forthcoming issues of ICID News Updates.



HURRY!! HURRY!! HURRY!!

ICID invites Nominations for 2016

WatSave Awards

Nominations are invited for the **'WatSave Awards 2016'** from individuals/team through National Committees/ Committee latest by **30 June 2016**. The WatSave Awards are given in four categories: (i) Technology; (ii) Innovative Water Management; (iii) Young Professional; and (iv) Farmers.

The award(s) is/are presented to an individual or a team for an innovation that contributes to water conservation / water saving for increasing the beneficial and/ or efficient use of water to develop and improve the sustainable use of the critical resource.

National Committees can nominate newly developed works of previous WatSave Award winners provided it is for a different innovation. The nomination could come on behalf of an individual or a team of named individuals, but not from an organization itself. An entry or innovation once rejected for the WatSave award by ICID should not be re-nominated, even under a different category.

National Committees should undertake initial screening of the nominations, through a broad based National Screening Committee for WatSave Awards against the criterion laid down in this Scheme, and in the process recommending them, authenticating the research, the application cited in the nominated work and ensure that the nomination is for the original work carried out by the authors.

The awards will be presented at the 67th International Executive Council (IEC) meeting scheduled to be held during November 2016 at Chiang Mai, Thailand.

The last date for receipt of the entries from NCs along with a completed 'Nomination Form' etc. to the ICID Central Office, New Delhi is 30 June 2016.

For more information, please visit http://www.icid.org/ws_scheme.pdf

2nd World Irrigation and Drainage Prize

Nominations are invited for the 2nd **'World Irrigation and Drainage Prize 2016' (WID Prize)** instituted to recognize the contributions made by an individual or an institution promoting sustainable irrigation and enhanced agriculture production around the world.

The World Irrigation Drainage Prize, a unique award instituted by ICID, is awarded to recognize the work of dedicated professionals and institutions who have actively contributed to the development of irrigation and drainage during the past 15 years. The award is conferred upon an individual, a group of individuals or an institution without any discrimination whatsoever on the grounds of nationality, religion, race, gender, age or political belief. The Prize that includes a cash award of US\$10,000 and a 'Citation Plaque' will be awarded during the 2nd World Irrigation Forum (WIF2) scheduled from 6-8 November 2016 at Chiang Mai, Thailand.

Nominations are invited for the 2nd WID Prize from National Committees of ICID; Governments of ICID Member countries;

International organizations and Nongovernmental organizations / institution maintaining formal relations with ICID, especially those concerned with Irrigation and Drainage. Nominations must be submitted latest by **30 June 2016**. The candidates nominated for this prize shall have made exceptionally significant contribution through innovations in the field of irrigation and drainage by way of (a) research, (b) management, (c) technical services, (d) advocacy, (e) operationalization of innovations and (f) sensitization of decision makers and public; resulting in increased agriculture production, at national, regional and/or international level.

The prize winner(s) would be encouraged to give an acceptance speech/lecture on the subject relevant to the work for which the Prize is awarded. More information, including the detailed procedure for nomination and other conditions and criterion for awarding the Prize can be accessed at http://www.icid.org/wid_sel_proc_n_criteria.pdf

Geo-Measurement, Field Investigation, and Monitoring



A three-day International Conference on Research and Technology Development for Sustainable Water Resources Management (REDWARM) will be organized by the National Water Research Centre (NWRC) in collaboration with the Ministry of Water Resources and Irrigation (MWRI) from 4-6 December 2016 at Cairo, Egypt. The main theme of the Conference is 'Geo-Measurement, Field Investigation, and Monitoring' and sub-themes covered

are: (i) New Materials, Water Structures, and Machinery; (ii) Renewable Energy Utilization/ Generation; (iii) Control, Automation, and Distribution Schemes; and (iv) Water Saving, Treatment and Pollution Control. Besides, Special Sessions, Workshops and Exhibition will also be held during the conference.

The conference will provide a forum for researchers, academicians and practitioners engaged in research, applied water technology, and water resources planning and management to share knowledge, experience, good practices, and research results. This event will offer

an opportunity to catalyze and promote the use of advanced water technology to restore, protect and ensure sustainable management of scarce water resources. A 'Call for Papers' is available at <http://www.redwarm2016-eg.org/Announcement.pdf>

Please contact: Eng. Mir Mokhtar, Coordinator of Organizing Committee (E-mail: eng.mirmokhtar@gmail.com) and Conference website: <http://www.redwarm2016-eg.org>

Resilience and Adaptations to Climate Change for Sustainable Management of Tidal Areas: A Short Course

An International Short Course titled 'Resilience and Adaptations to Climate Change for Sustainable Management of Tidal Areas' will be organized by ICID's Working Group on Sustainable Development of Tidal Areas (WG-SDTA) during 1-6 August 2016 at National Cheng Kung University, Taiwan. The Short Course covers six topics: (1) Special characteristics of land and water management in tidal areas; (2) Impacts of climate change on land and water management in tidal area; (3) Risk assessment and adaptive

management considering climate change; (4) International experiences of adaptations to climate change; (5) Stakeholders participation; and (6) Development of water industry (governance etc.).

The Short Course is intended for managers, practitioners, researchers, and others who are familiar with the relevant issues in tidal areas and wish to understand and apply the experiences to cope with climate change and man-induced changes in land use. Young professionals with at least

five years of experience in the subject area are encouraged to participate. The announcement of International Short Course on SDTA http://www.icid.org/intl_sdta_short_course.pdf has been circulated to National Committees with a request to send the filled-in 'Nomination Form' (http://www.icid.org/sdta_nomination_form.pdf) along with C.V. and a statement of purpose by 30 May 2016 to Prof. Rey-Chy Kao, Chairman of WG-SDTA at E-mail: rckao@thl.ncku.edu.tw and SDTA-THL@thl.ncku.edu.tw

Water and Jobs

On the occasion of the World Water Day 2016 with the theme 'Water and Jobs' various National Committees organized technical activities which are presented herein.

Pakistan (PANCID)

The Pakistan Engineering Congress (PEC), Pakistan Council of Research in Water Resources (PCRWR), Water and Power Development Authority (WAPDA), Pakistan Meteorological Department (PMD), University of Agriculture Faisalabad and University of Agriculture Peshawar organized a Seminar on the occasion of World Water Day 2016 on the main theme "Water and Jobs" on 22nd March 2016 at Mashhadi Hall, Pakistan Engineering Congress Headquarters, Lahore. VPH Engr. Shams-ul Mulk, former Chairman WAPDA, was the Chief Guest.

During the seminar, 'Welcome Address' was made by Engr. Ch. Ghulam Hussain, President of Pakistan Engineering Congress. More than 13 papers were presented by authors related to the theme "Water and Jobs" on 28 March, 2016.

Prof. Dr. Tahir Sarwar, Chairman of Department of Water Management highlighted major challenges faced by the water sector of the country and role of water management to cope with these challenges. A Chart Competition was also arranged on themes of 'Water conservation, water pollution and climate change'. Certificates and cash prizes were awarded to the winners. A large number of faculty members and students participated in the event.

On the occasion of World Water Day 2016, Pakistan Council of Research in Water Resources (PCRWR), in collaboration with the multi-stakeholders organized a Seminar on 30th March 2016 focusing on the theme 'Better Water - Better Jobs'. The other partner organizations are: World Health Organization (WHO), UNESCO, Economic Cooperation Organization Science Foundation (ECOSF), National Rural Support Programme (NRSP), and International Center for Agricultural Research in the Dry

Areas (ICARDA), and Riphah International University.

Mr. Fazal Abbas Maken, Secretary of Ministry of Science and Technology stated that water has key element for socio-economic development of country. He also emphasized on the conservation of water from household to farm level. Prof. Dr. Anis Ahmad, Vice Chancellor, Riphah International University highlighted that water issues were not only related to science, engineering, or economics; rather those were also founded on values, ethics, and the equal contributions of different cultures.

Iraq (IRQCID)

On 22nd March 2016, the World Water Day 2016 on the theme "Water and Jobs" was celebrated by Ministry of Water Resources under the patronage of H.E. Eng. Mohsin Al-Shammari, Minister of Water Resources. H.E. Muhdi Rasheed, Adviser delivered a speech on behalf of the Minister of Water Resources, highlighting the relationship between water and jobs, applied the principle of integrated management of water resources, maintaining the basins rivers and their ecosystem, guarantee the rights of Iraq's water in light of the growing population, climate changes and made water a tool of cooperation and peace among all peoples of the world.

Dr. Abed Al-Mutalb Mohammed from Ministry of Water Resources delivered a lecture on 'Iraqi water security between reality challenges and future prospects'. He explained that the importance of the water security, the internal and external Iraqi water resources problems, climate changes, technical solutions, the importance of Iraq got water from other sources (traditional and non-traditional) and utilization modern techniques in irrigation.



Short Course on Water Security

The University of East Anglia (UEA) will be organizing a Short Course on 'Water Security for Policy Makers and Practitioners' during 20-24 June 2016 at Norwich, UK. The Course is designed for entry and midlevel water and development policy-makers and professionals in government, donor agencies, NGOs or implementation agencies, environmental journalists, consultations and activists wishing to take their knowledge of climate change further.

The course will provide policy-makers and professionals with comprehensive background knowledge relevant to the increasingly important policy challenge of 'water security'. The short course will explore how the multiple levels of water security – human, community, state, international and global – require broad but considered policy inputs.

Participants can expect to acquire a wide variety of tools and analytical framework from a variety of disciplines. They will leave the course with an ability to critically assess and address current water security policy, gain an appreciation of the relations between water security and energy, climate, food, human or national security and have extended their networks and resource bases. Please access <https://www.uea.ac.uk/international-development/dev-co/professional-training/water-security> for more information.

News from ICID National Committees

BANCID (Bangladesh)

Mr. Md. Jahangir Kabir (Bangladesh) has taken over as new Director-General of Bangladesh Water Development Board (BWDB) and Chairman of Bangladesh National Committee of ICID (BANCID). His contact coordinates are:

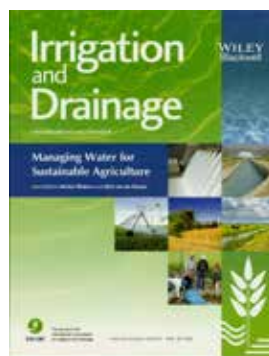
Mr. Md. Jahangir Kabir
Director General, Bangladesh Water Development Board (BWDB) and
Chairman, Bangladesh National Committee of ICID (BANCID)
WAPDA Bhaban (2nd Floor)
Motijheel Commercial Area
Dhaka, Bangladesh
Email: dg.bwdb@gov.bd
Website: <http://www.bwdb.gov.bd>

ICID fraternity extends its warm welcome to Mr. Md. Jahangir Kabir and expresses its appreciation to Mr. Md. Masud Ahmed, former Director-General of BWDB and Chairman of BANCID for his valuable contributions to ICID.

CERYD (Spain)

34th Spanish National Congress on Irrigation

The Spanish National Committee on Irrigation and Drainage, together with the Spanish Association of Irrigation and Drainage (AERYD) will organise its 34th Spanish National Congress on Irrigation during 7-9 June 2016 at Sevilla, Spain. For more information, please access at www.congresorios-aeryd.org



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, Workbody Chairs, Members and National Committees.

The Special Issue on 'ICID Gwangju Congress', Volume 65, Issue 2 (Page 145 – 240), April 2016 which is available at <http://onlinelibrary.wiley.com/doi/10.1002/ird.v65.2/issuetoc> for direct access.

ICID members can now avail a special 35% discount of all the Wiley printed publications under the Society Discount Programme introduced recently. Members are encouraged to take advantage of this special discount.

Forthcoming Events

ICID Events

2nd World Irrigation Forum (WIF2) and 67th IEC, 6-12 November 2016, Chiang Mai, Thailand with the theme 'Water management in a changing world: Role of Irrigation for sustainable food production'. E-mail: thaicid@hotmail.com; Website: <http://www.worldirrigationforum.net>

13th International Drainage Workshop (IDW), 4-7 March 2017, Ahwaz City, Iran with the theme 'Drainage and Environmental Sustainability'. Contact: Dr. S.A. Assadollahi, Secretary General, Iranian National Committee on Irrigation and Drainage (IRNCID), E-mail: 13idw2017@gmail.com, Website: <http://idw13.org/english/>

23rd ICID Congress and 68th IEC, 8-14 October 2017, Mexico City, Mexico with the

theme 'Modernizing Irrigation and Drainage for a new Green Revolution'. Contact: Dr. Luis Rendón Pimentel, President of MXCID, E-mail: info@icid2017.org; info@mxcid.org; Website: www.icid2017.org

Other Events

2016 Irrigation Australia International Conference and Exhibition, 24-26 May, 2016 at the Melbourne Convention & Exhibition Centre, Victoria, Australia. For details, visit <http://irrigationaustralia.com.au/conference>

Ninth International Dialogue on Water in Agriculture: 'Public-Private Partnership in Irrigation: experiences, benefits and risks', 1-2 June 2016 at Bonn, Germany. For details, visit: <http://www.die-gdi.de/veranstaltungen/public-private-partnerships-in-irrigation/>

5th International Conference on Flood Risk Management and Response, 29 June-1 July

2016 at San Servolo, Venice, Italy. For details, visit www.wessex.ac.uk/friar2016

Stockholm World Water Week on the theme "Water and Sustainable Growth", 28 August – 02 September 2016 at Stockholm, Sweden. For details, visit <http://www.siwi.org/>

19th International River Symposium: Green Rivers of the World: Management for Shared Benefits, 12-14 September 2016 at New Delhi, India. For details, visit <http://riversymposium.com/>

4th IWA International Symposium on Water and Wastewater Technologies in Ancient Civilizations (WWAC), 17-19 September 2016 at the University of Coimbra, Portugal. For details, visit <http://www.wwac2016.com/>

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)

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