

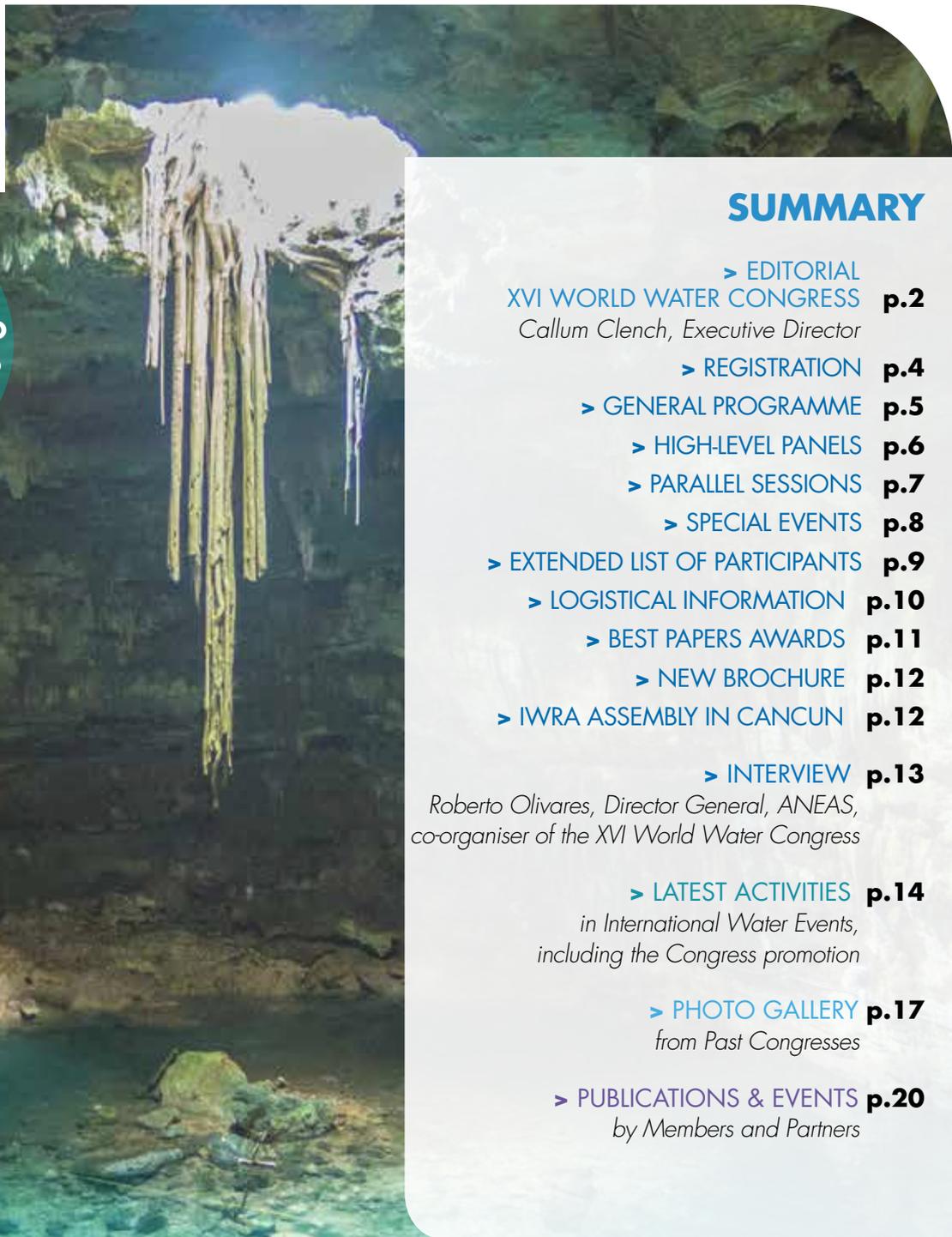
IWRA Update

Newsletter of the International Water Resources Association

MARCH 2017 | VOLUME 30 | ISSUE 1



**SPECIAL
NEWSLETTER
ON THE XVI WORLD
WATER CONGRESS**



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EDITORIAL XVI WORLD WATER CONGRESS

Callum Clench, Executive Director

As our attention is now fully on the XVI World Water Congress taking place in Cancun, Mexico, from May 29th to June 3rd, it is also timely to reflect on the theme of this year's Congress: Bridging Science and Policy. We live in what can feel like increasingly uncertain times. The world is constantly changing around us at a startling rate. Changes in technology, population, and consumption can result in climate change, increasing levels of pollution and shifts in geo-politics. From the perspective of managing water resources, the resulting challenges are enormous. For policy makers it is no longer possible to rely on the status quo, assuming that existing policies are still effective or able to deal with new challenges brought on by urbanisation, emerging pollutants and more frequent severe weather events.

Having recently returned from Cape Town I was reminded once again of how difficult it can be to ensure water supply to growing urban environments. Following an extended period of lower than average rainfall, the water reservoirs serving Cape Town and the Western Cape are currently down to less than 20% usable supply (or less than 100 days' supply). On March 3rd Mayor Patricia de Lille declared the city a disaster area. However, following this declaration, dam levels dropped by 1.4% in the space of a week with residents consuming 750 million litres a day, outstripping a target of 700 million litres per day set by the city. On top of this, the city is monitoring the water quality of the Rietvlei Water Area after discovering a potentially toxic algal bloom in the water. The "vlei" has been temporarily closed for recreational activities after toxins associated with the algae were found.

Meanwhile, in other parts of the world there are water restrictions in place due to severe flooding. In Auckland, New Zealand, on top of recent revelations that wastewater and raw sewage flow into the Waitemata Harbour almost every time it rains due to 100 year old combined storm water and waste water pipes, Ardmore water treatment plant was knocked back to half its processing capacity due to three "rain bombs" in early March. These severe storms overwhelmed the plant with silt and devastated homes and businesses in West Auckland. City residents are being asked to cut their consumption by 20 litres per day while engineers work to restore normal supply. Furthermore, Peru is experiencing the worst flooding in 20 years along its coastal region, with at least 72 fatalities so far. An unusual bout of heavy rains powered by El Niño conditions have drenched parts of Peru with 10 times more rainfall than normal, causing rivers to overflow, and mudslides to destroy roads and farms. This has resulted in the loss of both water and electricity supplies for many small villages along the northern coast.

Newsletter March 2017,

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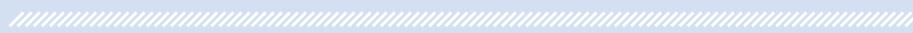
www.iwra.org

These events are not uncommon these days, and are examples of some of the challenges facing both developing and developed parts of the world. It is therefore more important than ever that policy makers start shaping new effective policies for water management based on sound science. This means working with water experts from environment agencies, research institutes and universities, as well as with legal experts, to develop policies that are adaptive, that encourage innovation, and that also try to anticipate future changes. Burying our heads in the sand about the changes taking place in the world does not make them go away, just as it is not possible to turn back the clock to some idealised point in the past currently viewed through rose coloured glasses. Policy makers need to be empowered to collaborate across government departments and sectors, emerging from the traditional silo mentalities that lead to ineffective policies on cross cutting issues like water resource management.

It is our hope that the XVI World Water Congress in Cancun will help to further build the dialogue between scientists and policy makers, as the latest research on water resource management is presented by both water and legal experts. This is necessary to help strengthen the arguments for governments everywhere to take positive action to address these issues in constructive ways. See you in Mexico! Furthermore IWRA Board members were present at the COP22 meeting in Marrakech where water featured heavily, and then also at the World Water Council's 60th Board of Governors meeting in Marseille and the Budapest Water Summit in Hungary. These were all great opportunities to meet with representatives from other organisations and to discuss ways of collaborating with them in future. It is expected that a number of new MoUs will be signed in the coming 12 months.

Finally, as we look forward to the year ahead, the XVI World Water Congress in Cancun, Mexico, of course features prominently in our calendar. Registration is now open and I hope to see as many of you there as possible. It is shaping up to be one of best Congresses to date. The Congress is now also clearly earmarked as a key milestone on the road to the 8th World Water Forum in Brasilia in 2018, meaning that a number of associated preparatory events will be taking place in Mexico; another great example of collaboration.

So as we approach our half century, let's continue to work together across this broad international water community to ensure that we continue to use sound science to develop strong policies for water management. This can only be done with all of your on-going support, participation and collaboration. See you in May 2017 in Cancun!



IWRA CONTACTS

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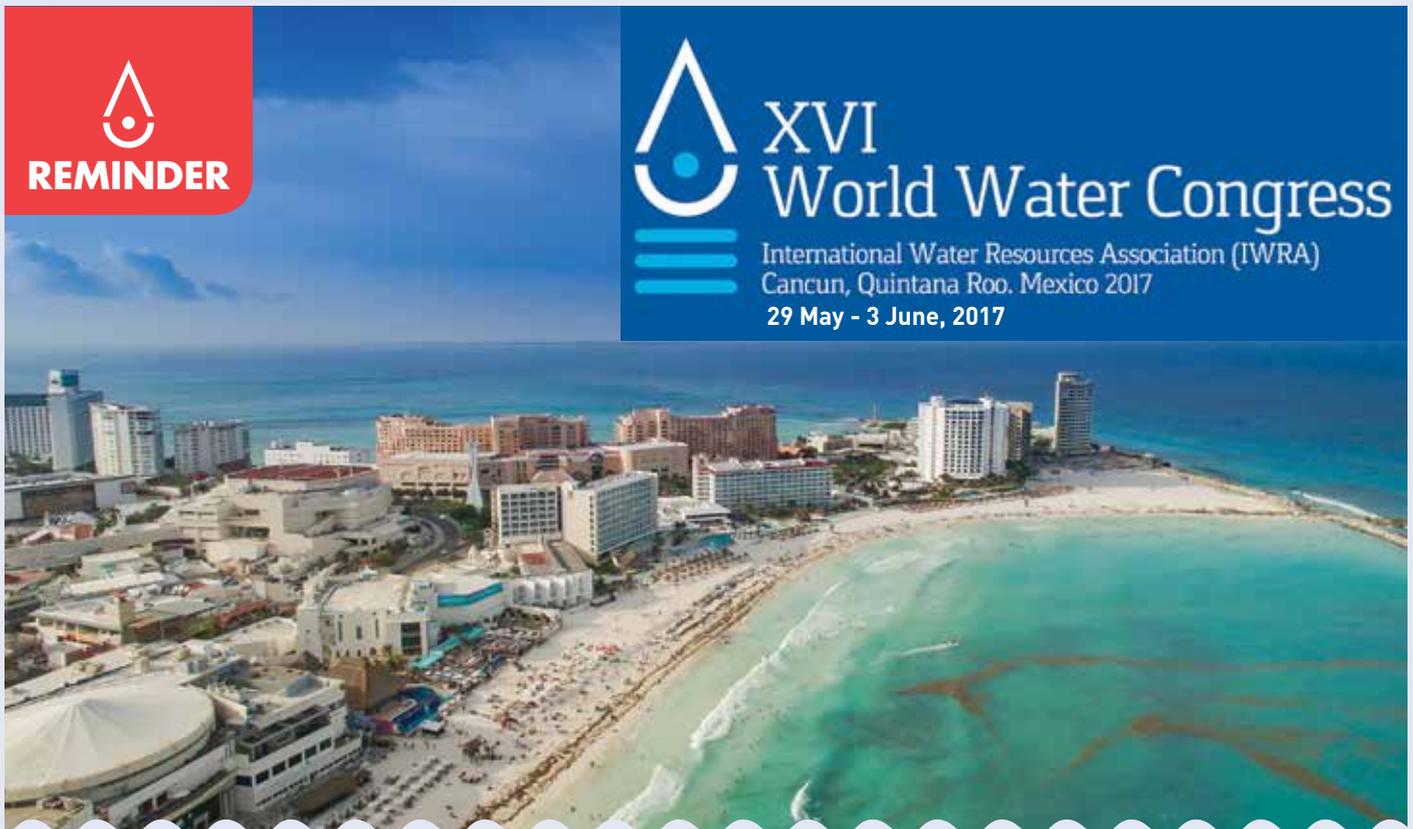
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REGISTRATION



*The Organising Committee of the XVI World Water Congress,
composed of
the International Water Resources Association (IWRA),
the National Water Commission of Mexico (CONAGUA)
and the National Association of Water and Sanitation Utilities of Mexico (ANEAS)
is pleased to invite you to participate in the Congress
to be held in ICC Cancun Convention Centre in Cancun, Quintana Roo,
from 29 May to 3 June 2017.*

We look forward to your participation!

Follow the link to the registration platform :

iwra2017.xporegistro.com

GENERAL PROGRAMME

Monday 29	Tuesday 30	Wednesday 31	Thursday 01	Friday 02	Saturday 03
Official Opening Ceremony	Parallel Sessions 3	Parallel Sessions 6	Parallel Sessions 10	Parallel Sessions 12	Field Trip
High Level Panel "Water and the SDGs"	High Level Panel "Water and Climate"	Parallel Sessions 7	Parallel Sessions 11	Parallel Sessions 13	
Parallel Sessions 1	High Level Panel "Water and Business"	High Level Panel "IWRM"	High Level Panel "Water-Energy-Food Nexus"	Closing Ceremony	
Parallel Sessions 2	Parallel Sessions 4	Parallel Sessions 8	IWRA Awards	IWRA General Assembly	
Congress Welcome Reception	Parallel Sessions 5	Parallel Sessions 9	Congress Gala Dinner		

OPENING CEREMONY

Formally introducing the XVI World Water Congress, this plenary event will include welcoming speeches and keynote presentations from the organisers, water ministries, presidents and directors from water organisations and institutions, Mexican officials and other distinguished representatives. It will address the current challenges and priorities for water science and policy from around the world, and set the scene for the Congress itself.

HIGH LEVEL PLENARY PANELS

1. PLENARY SESSION - High Level Panel on **Water and the SDGs**

Monday, 29 May, 12:40 pm - 2:10 pm

Moderator: **Torkil Jonch Clausen**

Speakers:

- **H.E. Luis Alberto Arce Catacora**, Minister, Ministry of Economy and Public Finance, Bolivia
- **Luis Carranza Ugarte**, Executive President, Development Bank of Latin America (CAF)
- **Torgny Holmgren**, Executive Director, Stockholm International Water Institute (SIWI)
- **Karin Krchnak**, Director, Freshwater Program, WWF
- **Federico Properzi**, Chief Technical Adviser, UN-Water
- **Roberto Ramirez de la Parra**, Director General, CONAGUA

2. PLENARY SESSION - High Level Panel on **Water and Climate Change**

Tuesday, 30 May, 10:50a m - 12:20 pm

Moderator: **Cecilia Tortajada**

Speakers:

- **Dogan Altinbilek**, Vice-President, World Water Council, IWRA Past President
- **Eugenio Barrios**, Director of the Water Programme, WWF, Mexico
- **Jean-Didier Berthault**, Vice-President, Paris Region Sanitation Corporation (the Megacities Alliance for Water and Climate)
- **Jose Carrera**, Vice-President, Social Development, Development Bank of Latin America (CAF)
- **Jean-François Donzier**, Executive Secretary, International Network of Basin Organizations (the Global Alliance for Water and Climate)
- **Peter H. Gleick**, President Emeritus & Chief Scientist, Pacific Institute, United States
- **Neil Grigg**, Professor, Colorado State University, United States
- **Jason Morrison**, Head, CEO Water Mandate UN Global Compact (the Business Alliance for Water and Climate)

3. PLENARY SESSION - High Level Panel on **Water and Business**

Tuesday, 30 May, 12:40 pm - 2:10 pm

Moderator: **Pierre-Alain Roche**

Speakers:

- **Ramon Aguirre Diaz**, Director General, Mexico City Water Company-SACMEX, Mexico
- **Diane d'Arras**, President, IWA, Suez Director for Europe, France
- **Mamadou Dia**, President, Aquafed, former CEO of Senegalaise des eaux, Senegal (tbc)
- **Hak Soo Lee**, President, K-Water, South Korea
- **Gorkhmaz Huseynov**, President, Azersu Company, Azerbaijan (tbc)
- **Jason Morrison**, Head, UN Global Compact CEO Water Mandate, United States
- **Philip Gichuki**, CEO, Nairobi City Water & Sewerage Company Ltd, Kenya

4. PLENARY SESSION - High Level Panel on **Integrated Water Resources Management (IWRM)**

Wednesday, 31 May, 12:40 pm - 2:10 pm

Moderator: **Torkil Jonch Clausen**

Speakers:

- **Catarina de Albuquerque**, Executive Chair, Sanitation and Water for All
- **Benedito Braga**, State Secretary for Sanitation and Water Resources, State of Sao Paulo
- **Claudia Patricia Ochoa Campuzano**, Director, Water and Environment, Centre of Science and Technology of Antioquia, Colombia
- **Veronica Irastorza**, Associate Director, NERA Economic Consultants, Mexico
- **Blanca Jiménez-Cisneros**, Director, Water Resources, UNESCO-IHP
- **Jerry Priscoli**, Chairperson, GWP Technical Committee
- **Mark Smith**, Director, Global Water Programme, International Union for Conservation of Nature (IUCN)
- **James Spalding**, Director General, Itaipu Binacional, Paraguay

5. PLENARY SESSION - High Level Panel on the **Water-Energy-Food Nexus**

Thursday, 1 June, 12:40 pm - 2:10 pm

Moderator: **Rabi Mohtar**

Speakers:

- **Carl Ganter**, CEO, Circle of Blue
- **Astrid Hillers**, Program Manager, Global Environment Facility-GEF
- **Antonio Embid Irujo**, Professor of Law, University of Zaragoza, Spain
- **Louise Karlberg**, Director, Swedish Environment Institute International (SEII)
- **Liber Martin**, Professor, National University of Cuyo, Argentina
- **Saeed Nairizi**, President, International Commission on Irrigation and Drainage (ICID)
- **Diego J. Rodriguez**, Senior Manager, The World Bank
- **Will Sarni**, President, the Water Foundry LCC, United States
- **Raya Stephan**, International Water Law Expert

PARALLEL SESSIONS (Regular + Special Sessions)

With more than 50 regular and another 50 special sessions throughout the entire week, these sessions will present over 250 scientific and policy papers addressing multiple topics aiming to promote the use of sound science to help develop strong water policies. Download the latest complete special sessions list [here](#). In addition, 100 posters will also be presented and exhibit in Cancun, while multiple side-events are being organized.



VIEW OF CANCUN, QUINTANA ROO ©Rights reserved

SPECIAL EVENTS INCLUDED WITH YOUR REGISTRATION

Welcome Reception

Monday, May 29th, 7:30 pm - 9:00 pm

Hosted at a beach side venue, this reception will offer a unique opportunity to enjoy a wonderful evening after the first day of the Congress and enjoy a relaxed place to meet other participants, share a drink and network in a friendly atmosphere.

IWRA Awards Ceremony

Thursday, June 1st, 3:30 pm - 5:00 pm

Since 1971, IWRA constantly recognises distinguished water researchers, professionals, organisations and institutions for their contributions and excellence towards water management. IWRA's main prizes awarded at the World Water Congresses are the Crystal Drop Award (for individual or organisation contributions to the improvement of water resource management); the Ven Te Chow Memorial Award and Lecture, which provides for an outstanding lecture from a distinguished individual in honour of our first president; and the Water International Best Paper Award.

Gala Dinner

Thursday, June 1st, 7:30 pm - 11:00 pm

This event is open to all participants to the Congress. It will be held at an iconic venue in Cancun including local flavours, traditional dances and Mexican spirits. Availability is limited to a certain number of places based on a "first come first served" basis, so register quickly to secure your seat at the table.

Field Trip

Saturday, June 3rd, Aktun Chen deep wells or "cenote"

This visit will take place to the nearby water cave, "Aktun Chen", in the region of Cancun. "Cenote" comes from the Mayan word "dzonot" which means "deep" wells. Mainly created by erosion of soft and porous limestone, these fresh water wells were a source of life and the centre of communion with the gods for the Mayans. *Numbers are limited for this field trip, so register quickly for the Congress to secure your place.*

EXTENDED LIST OF PARTICIPANTS

The list of distinguished speakers is being finalised, including invitees from various water ministries (China, Mexico and Senegal); international organisations (World Water Council, World Bank, WWF, UNESCO-IHP, SIWI, OECD, IUCN, GWP, CAF), academia (Colorado State University, Lee Kuan Yew, Texas A&M) and civil society.

Around 1,500 attendees are expected in Cancun, maximising the ability of participants to network with other attendees to share experiences, promote discussion, and present new knowledge, research and developments in the field of water policy and science from around the world.

Ramon Aguirre	President	ANEAS
Aziza Akhmouch	Head of Unit - SDGs, Water and Local Public Services	OECD
Catarina de Albuquerque	Executive Chair	Sanitation and Water for All
Dogan Altinbilek	Vice-President	World Water Council
Luis Arce	Finance Minister	Bolivia
Asma Bachikh	President	World Youth Parliament for Water
Eugenio Barrios	Director of Public Policy, Corporate & Social Engagement	WWF Mexico
Diane d'Arras	President	International Water Association
Jean-Didier Berthault	Vice-President	Paris Sanitation Corporation
Benedito Braga	President	World Water Council
Stephano Burchi	Executive Chairman	International Association for Water Law
Jose Carrera	Vice-President	Development Bank of Latin America
Torkil Jøneh Clausen	Chair of the Thematic Commission	8 th World Water Forum
Gabriel Eckstein	Chair	International Scientific Committee, World Water Congress
Jerome Delli-Priscolli	Chair	GWP Technical Committee
Jean-François Donzier	Executive Secretary	International Network of Basin Organisations
Amadou Mansour Faye	Minister for Water Resources and Sanitation	Senegal
Torgny Holmgren	Executive Director	Stockholm International Water Institute
Neil Grigg	Professor	Colorado State University
Blanca Jimenez-Cisneros	Director, Water Division	UNESCO
Karin Krchnak	Director of the Freshwater Program	World Wildlife Fund USA
Simon Langan	Director of the Water Program	Institute for Applied Systems Analysis
Patrick Lavarde	President	IWRA
Haksoo Lee	CEO/President	K-Water/Asia Water Council
Soontak Lee	President	International Hydrologic Environmental Society
Yuanyuan Li	General Director	Institute of Water Resources & Hydropower Planning, China
Guihua Lu	Vice-minister for Water Resources	People's Republic of China
Rabi Mohtar	TEES Research Endowed Professor	Texas A&M University
Saeed Nairizi	President	International Commission on Irrigation and Drainage
Roberto Olivares	General Director	ANEAS
Federico Properzi	UN Water	UN
Roberto Ramirez de la Parra	General Director	CONAGUA
Alfonso Rivera	Chief Hydrogeologist	Geological Survey of Canada
Diego J. Rodriguez	Senior Water Resources Management Specialist	The World Bank
Paulo Salles	Co-President	8 th World Water Forum
William Sarni	Advisor on Water Strategy & Technology Innovation	Water Foundry
Mark Smith	Director of the Global Water Program	International Union for Conservation of Nature
András Szöllösi-Nagy	Chair	International Hydrological Programme, UNESCO
Cecilia Tortajada	Senior Research Fellow, Institute of Water Policy	Lee Kuan Yew School of Public Policy, Singapore
Jun Xia	Academician	Chinese Academy of Sciences
Victor Hugo Alcocer Yamanaka	Deputy Director for Technical Issues	CONAGUA



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LOGISTICAL INFORMATION

Here is a checklist to help participants plan to get the most out of the Congress and ensure a smooth stay in Cancun:

Visa and passport information:

www.gob.mx/tramites/migracion-visa-y-pasaporte

Accommodation:

There are many accommodation options in Cancun. We have recommended a number of places to stay on the Congress website:

www.worldwatercongress.com/accommodation.htm

Arrival at Cancun:

Familiarise yourself with Cancun International Airport and local transportation options: www.worldwatercongress.com/travel.htm

Accompanying programme:

If you are coming with some company, rest assured that there multiple tourist activities available for them, including visiting the archaeological zone of Tulum, or the Ecological Park of "Xcaret": www.worldwatercongress.com/acprog.htm

For the latest updates and news, please visit the Congress website

www.worldwatercongress.com – and follow us on Twitter (twitter.com/WWCongress) or Facebook (facebook.com/WWCongress).

Invitations will also be sent out to registered participants to download the Congress App for their smart phones or tablets. This App will be the best way to stay up to date on the Congress programme and content, to connect with other participants, and to access other Congress information.

**We look forward to welcoming you to Cancun, Mexico,
from May 29th to June 3rd 2017!**

ANNOUNCEMENT OF THE 2015 BEST PAPERS AWARDS

Following a rigorous review, the difficult decision to select the annual *Water International* best paper and honourable mention awards has been made:

Best Paper Awardee

China's Southbound Transboundary River Basins: A Case of Asymmetry

Mirja Kattelus, Matti Kummu, Marko Keskinen, Aura Salmivaara & Olli Varis

This highly interesting paper presents an overview of the contemporary societal and environmental development situation in the six major transboundary river basins that drain south from China: the Red River, Mekong, Salween, Irrawaddy, Ganges-Brahmaputra-Meghna and Indus. The overall societal and environmental vulnerability of the basins is assessed using multidimensional river basin vulnerability analysis. The analysis shows that while China has a fairly low level of vulnerability in these basins, its downstream influence is substantial. This setting offers a plethora of opportunities for transboundary cooperation and calls for a high level of responsibility from the upstream riparian countries.

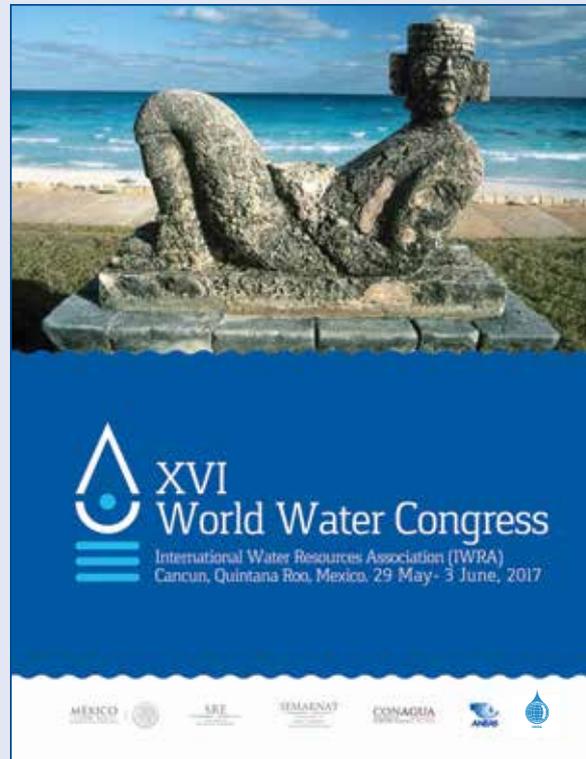
Honourable Mention Awardee

Using water insecurity to predict domestic water demand in the Palestinian West Bank

S. E. Galaitsi, Annette Huber-Lee, Richard M. Vogel & Elena N. Naumova

This well written and interesting paper presents to examine the relationship between price elasticity, water insecurity and domestic water demand in the Palestinian West Bank. Water insecurity weights were defined and quantified for each household interviewed for use in a multivariate regression model. The model demonstrated that (1) a water insecurity variable improves the ability to estimate price elasticity and that (2) increased water insecurity leads to higher levels of household water demand. The findings suggest that policy-makers can influence domestic water demand by addressing the supply constraints that underlie domestic water insecurity.

Certificates will be given to the winning authors or their representatives at the forthcoming IWRA XVI World Water Congress.



NEW WORLD WATER CONGRESS BROCHURE

IWRA has recently published a new Congress brochure with updated information and details on the XVI World Water Congress both in English and Spanish. This brochure includes welcoming messages from the Congress's International Scientific Committee and Steering Committee, as well as the following highlights:

- List of distinguished participating speakers and organisations
- General programme
- Registration process
- Accommodation
- Local transportation
- Visa requirements
- Programme for accompanying persons
- Much more

INVITATION FOR MEMBERS TO PARTICIPATE IN THE GENERAL ASSEMBLY

Following the Closing Ceremony for the XVI World Water Congress, on Friday June 2nd, IWRA will hold its 2017 General Assembly for members. This meeting will present the work and activities of IWRA's Executive Board and Committees, its Geographical Chapters (including the official launch of the South America Chapter), the different projects and initiatives, IWRA's revised constitution and bylaws, among other things. The General Assembly is free and open to all members present in Cancun or remotely through GoToWebinar. Invitations will be sent out shortly.

INTERVIEW

XVI WORLD WATER CONGRESS

Roberto Olivares, Director General, ANEAS,
co-organiser of the XVI World Water Congress



Roberto Olivares
 Currently, Roberto Olivares is Director General of the National Association of Water and Sanitation Utilities of Mexico (ANEAS), Coordinator of the Water Operator Partnerships (WOP's) Programme Mexico, Adviser of the Latin American Association of Water and Sanitation Operators (ALOAS), President of the International Water Association (IWA) Mexico, and Governor of the World Water Council (WWC). Since 1991, he has been working in the water and sanitation sector, and also been involved in the development of programmes and courses related to water resources. He holds a civil engineer graduate degree, a Master's degree in Civil Service and Social Communication, and other diplomas in Social Communications, Public Finances and Human Resources Management.

> *What is ANEAS and what is its main role?*

ANEAS is a non-profit civil association created 36 years ago that represents and defends the interests of the Mexican drinking water and sanitation systems. ANEAS promotes the interests of its partners with the three tiers of government, organisations, national and international institutions in order to contribute to the development, competitiveness and sustainability of public, private or mixed water service Utilities.

> *Why is ANEAS co-organising the XVI World Water Congress?*

Firstly, because we know and recognise IWRA's global prestige, an organisation that brings together researchers, scientists, academics, experts and those interested in water issues. Secondly, ANEAS intends to jointly contribute with this important institution to promote it in this XVI World Water Congress. The presence of the most outstanding of the water sector in the world will help to promote among decision makers the theme of water in Mexico.

> *What type of results and outcomes do you envision from this Congress?*

The most important thing is to know the experts' opinion about global water problems as well as their potential solutions; this process will undoubtedly have a positive impact on public water policies in Mexico. The conclusions we hope to have are related to the emphasis on enforcing water principles such as: Integrated Water Resources Management, basin management, water security, the human right to water, which must reinforce the timely review of the water legal regime, as well as investments and the priority that can be given to this sector.

> *In your view, why is the Science-Policy Interface for Water Resources so important?*

It is essential for studies, research and scientific discoveries to be developed and transformed into practical aspects, enabling these processes to transcend the field of practice and make this linkage to benefit the community. Public policies must be underpinned by two legal systems (rule of law) and on the analysis of the best available scientific and technological knowledge.

> *What are Mexico's greatest challenges and priorities when it comes to water resources?*

The major challenge is to fully comply with the integrated management of water resources and watershed management through the decentralisation of decision-making. The priority is to guarantee water security and the human right to water based on a long-range strategic plan that makes possible the progressive component in realising these postulates.

LATEST ACTIVITIES

in International Water Events, including the Congress promotion

OECD WATER GOVERNANCE INITIATIVE, 12-13 JANUARY 2017, RABAT, MOROCCO



In January, the IWRA was invited to the 8th meeting of the OECD's Water Governance Initiative (WGI), which is an international multi-stakeholder network of around 130 delegates from public, private and not-for-profit sectors gathering twice a year. The initiative aims to provide a multi-stakeholder technical platform to share knowledge, experience and best practices on water governance across all levels of government.

The meeting was held at the headquarters of the Delegated Ministry for Water, Rabat, Morocco, and was attended by 75 participants. In total, 14 countries were represented as well as major stakeholder groups and organisations within and outside the water sector. Given the close links between science and policy, the meeting also offered an opportunity to promote the XVI World Water Congress and its sessions on governance. No less than twelve sessions will focus on governance issues in Cancun; one of which is organized by the WGI to support the release of the special issue of *Water International* on water governance, where authors will discuss the key messages from their papers.

On this occasion, the IWRA Executive Director and Projects Officer also took part in the two workshops on Best Practices, and on Indicators: the IWRA intends to launch a working group in the very near future, to contribute to this initiative by leveraging the expertise and experience of our members.

We would like to congratulate the entire WGI team for a productive meeting. Despite a packed agenda, the meeting ran very smoothly. We also thank the Delegated Ministry for Water for its warm welcome.

UN WATER MEETING, 6-7 FEBRUARY 2017, GENEVA, SWITZERLAND



IWRA's executive director, Callum Clench, also attended the biannual UN Water meeting in Geneva in February, to find out more about progress against various UN Water activities, including preparations for World Water and World Toilet Days, and to find out the implementation of the 2030 Agenda and monitoring and reporting of water and sanitation in the SDGs. IWRA also promoted the XVI World Water Congress as an event for UN-Water's possible engagement.

SUMÉRGETE 2017, 22-25 MARCH 2017, SANTIAGO, CHILE



In the framework of Sumérgete 2017 on the Road to Brasilia 2018 and the Water Week in Chile, Professor Guillermo Donoso (IWRA Board Member) represented the Association in Santiago at the Gabriela Mistral Cultural Centre. Prof. Donoso actively promoted the upcoming XVI World Water Congress and participated 22-23 March to various sessions engaging with youth and young professionals and was a key contributor towards the construction of the Chilean Water Letter. The establishment of an IWRA Chapter in South-America was also promoted and further developed.

LATEST ACTIVITIES

in International Water Events, including the Congress promotion

WORLD WATER DAY/ WEBINAR,
22 MARCH 2017



To celebrate the 2017 World Water Day, IWRA hosted a dedicated webinar on this year's UN-Water theme – “Why Waste Water?”. Our speakers represented a range of sectors, including policy makers, water managers, and the civil society. The Webinar also featured two new publications (UN's World Water Development Report (WWDR) on 'Wastewater: The untapped resource', and OECD's 'Diffuse Pollution, Degraded Waters - Emerging Policy Solutions'). While our speakers came to the issue from many different backgrounds, everyone agreed that wastewater was an understudied and underutilized resource. There are certainly areas for public safety concern, particularly around pharmaceuticals, although many successful case studies from around the world showcased practical solutions, including water reuse for agricultural purposes, for example. The panel also shared that improved study and regulation can improve our relationship with wastewater and bring real environmental and economic advantages, as this universal resource becomes part of the circular economy.

This webinar featured John Payne (Consultant, United Nations Industrial Development Organization, World Water Development Report), Gabriel Eckstein (Professor, Law Department, Texas A&M University), Matthijs Wessels (Junior Member, Scientific Programme Committee, World Water Week 2017), Hannah Leckie (Policy Analyst, Water Team, OECD), and Marie Sagen (Programme Officer, Water Supply & Sanitation Services, International Water Association). More than 100 participants contributed to this webinar and engaged on discussions, built awareness and explored together with the speakers the challenges and priorities on wastewater and reuse, representing various international organisations and institutions from all regions of the world.

> *A recording of the webinar will soon be made available on our website.*

LATEST ACTIVITIES

in International Water Events, including the Congress promotion

ROAD TO THE 8TH WORLD WATER FORUM IN BRASILIA, 2018, BAKU, AZERBAIJAN



> Mr. Huseynov, Chairman of Azersu, explaining Mr. Braga, President of the World Water Council, and Mr. Lavarde, President of IWRA, about the largest ultra-filtration water treatment plant of the world in Baku.



> From left to right: Ahmet Mete Saatçi, IWRA Board Member, Dogan Altinbilek, IWRA Past President, Patrick Lavarde, IWRA President, and Guy Fradin, IWRA Secretary General, attending the Baku International Water Week.

Several members of IWRA's Board of Directors were invited to participate in the 1st Baku International Water Week and 4th International Steering Committee Meeting of the 8th World Water Forum, held in Azerbaijan from March 14th to 18th. These events were organised by Azersu, which has been an institutional member of IWRA since 2016.

IWRA's President, Patrick Lavarde, gave a keynote speaker in the Opening Ceremony during the 1st Baku International Water Week, which was attended by several hundred participants representing countries from 4 continents. Both Patrick Lavarde and IWRA Past President, Dogan Altinbilek, also engaged in the discussions during the 4th International Steering Committee Meeting of the 8th World Water Forum on March 16th.

As a result, Mr. Lavarde's visit to Azerbaijan provided yet another important opportunity to meet with high level people and key world water organisations and institutions to promote the upcoming XVI World Water Congress in Cancun, Mexico. The Congress is recognised as a major stepping stone to the 8th World Water Forum being held in Brasilia in March 2018.



> Mr. Patrick Lavarde, IWRA President, addressing the audience during the Opening Ceremony of Baku International Water Week.

PHOTO GALLERY from Past Congresses

> XIII WORLD WATER CONGRESS, 1-4 SEPTEMBER 2008, MONTPELLIER, FRANCE



> Exhibitors space with participants wondering around between sessions



> Panel discussion exchanges with the audience in Montpellier



> IWRA awards being displayed, including the distinguished Crystal Drop and plaques for Best Papers



> Awards ceremony during the XIII World Water Congress



> Main conference room with almost full capacity during a high-level discussion



> Cocktail reception table with participants ready for the welcoming toast

PHOTO GALLERY

> XIV WORLD WATER CONGRESS, 25-29 SEPTEMBER 2011, PORTO-DA-GALINHAS, BRAZIL



> Distinguished speakers invited addressing the general audience on the stage of main Congress room



> IWRA representatives and invitees at the Association's stand in Brazil



> Main entrance of the Congress centre where the XIV World Water Congress took place



> IWRA Crystal Drop award being handed during the dedicated ceremony

> XV WORLD WATER CONGRESS, 22-25 MAY 2015, EDINBURGH, SCOTLAND



> Spectacular sunset picture of Edinburgh's city center and the Edinburgh Castle behind



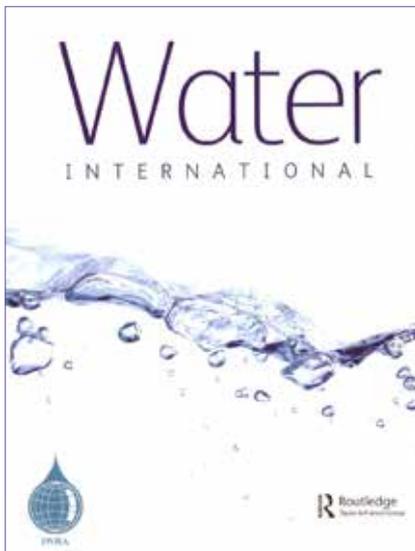
> IWRA awards ceremony being held during the XV World Water Congress



> IWRA representatives and co-organisers working meeting on a private room



> IWRA members and invitees posing for a picture at the Congress venue



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- *Mortality awareness and water decisions: a social psychological analysis of supply-management, demand-management and soft-path paradigms*, S. E. Wolfe & David B. Brooks - Pages: 1-17
- *Incorporation of environmental flows in water allocation in Texas*, Ralph A. Wurbs - Pages: 18-33
- *The river-border complex: a border-integrated approach to transboundary river governance illustrated by the Ganges River and Indo-Bangladeshi border*, Kimberley Anh Thomas - Pages: 34-53
- *Envisioning the future of cooperation on common rivers in South Asia: a cooperative security approach by Bangladesh and India to the Tipaimukh Dam*, Mirza Sadaqat Huda - Pages: 54-72
- *The social conditions of self-organized utilities: water cooperatives in La Paz and El Alto, Bolivia*, Franck Poupeau & Sébastien Hardy - Pages: 73-91

COMMENTARY

- *A new transboundary freshwater dispute before the International Court of Justice*, Tamar Meshel - Pages: 92-96

Transboundary River Cooperation: Actors, Strategies and Impact

INTRODUCTION

- *Introduction to 'Transboundary River Cooperation: Actors, Strategies and Impact'*, Selina Ho - Pages: 97-104

REVIEW ARTICLE

- *International water conflict and cooperation: challenges and opportunities*, Jacob D. Petersen-Perlman, Jennifer C. Veilleux & Aaron T. Wolf - Pages: 105-120

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- *Infrastructure development and the economics of cooperation in the Eastern Nile*, Marc Jeuland, Xun Wu & Dale Whittington - Pages: 121-141
- *China's transboundary river policies towards Kazakhstan: issue-linkages and incentives for cooperation*, Selina Ho - Pages: 142-162
- *River activism, policy entrepreneurship and transboundary water disputes in Asia*, Pichamon Yeophantong - Pages: 163-186
- *Dam diplomacy? China's new neighbourhood policy and Chinese dam-building companies*, Carla P. Freeman - Pages: 187-206
- *The remarkable restoration of the Rhine: plural rationalities in regional water politics*, Marco Verweij - Pages: 207-221
- *The dilemma of autonomy: decentralization and water politics at the subnational level*, Scott M. Moore - Pages: 222-239

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- *Crystal Drop Award and Ven Te Chow Memorial Lecture* - Page: 240

PUBLICATIONS & EVENTS

by Members and Partners



2nd Stakeholder Consultation Meeting for the 8th World Water Forum

April 26-27, 2017.

Registration is Open



ANEAS International Workshop on "Ecological engineering and climate risks"

September 2017

During 26-27 April, 2017, the 2nd Stakeholder Consultation Meeting for the 8th World Water Forum is set to take place in Brasília, Brazil. The aim of this important meeting is to constitute a milestone to ensure comprehensive consultations and the engagement process that will lead to the 8th World Water Forum (18-23 March 2018).

To register and confirm your attendance to the 2nd Stakeholder Consultation Meeting, kindly visit this link: www.worldwaterforum8.org/news/2nd-stakeholder-meeting-register.

For additional information, more details are available at www.worldwaterforum8.org or simply send an email to secretariat@worldwaterforum8.org.

The International Water Resources Association will actively be present at this event, not only promoting the XVI World Water Congress as a major stepping stone in the 'Road to Brasilia' but also in its capacity as a member of the Theme Coordination Group (TCG) for the Cross-cutting theme "Capacity", and in the Topic Coordination for "Water Quality".

In the lead-up to the COP23 and the World Water Forum, the Water Agency of Seine-Normandie (AESN) organizes an international workshop on "Ecological engineering and climate risks" in September 2017. Well aligned with the adoption of its strategy on adaptation to climate change promoting ecological engineering, AESN invites water actors, regional development and biodiversity professionals from multiple continents to gather during this workshop around projects based on ecological functionalities, and to take part to a collective debate on ecosystems in climate action. This meeting will promote the needed skill set, and help identify obstacles and incentives to develop ecological engineering solutions.

Hydraulic Fracturing in the Karoo: Critical Legal and Environmental Perspectives,

edited by Glazewski J. and Esterhuyse, S.

1-564, 2016

This publication explores a broad-ranging set of questions related to proposed hydraulic fracturing or 'fracking' in the Karoo. The book is multidisciplinary, with contributors including natural scientists, social scientists, and academics from the humanities, all concerned with the ways in which scientific facts and debates about fracking have been framed and given meaning. The underlying theme of this book is one of caution. It emphasises the need for collaboration between the natural and social sciences and the responsibilities of those charged with the implementation and governance of the fracking enterprise if South Africa hopes to effectively manage fracking at all.

> Read more:

newserver.juta.co.za/products/hydraulic-fracturing-in-the-karoo-critical-legal-and-environmental-perspectives

PUBLICATIONS & EVENTS

by Members and Partners

Huffington Post article - Callum Clench

2017: Water in the era of "post-truth" politics

Quoted from Huffington - Post: 01/04/2017 05:23 am ET | Updated Jan 04, 2017

It goes without saying that 2016 was a remarkable year politically. Assumptions about politics turned on their head. Many eminent minds will pore over the year's events trying to understand both cause and effect. The most apparent consequent is uncertainty. It is a space from which few of us draw comfort. For those in the global water science and research arena, it is especially unsettling.

For too long, water has been seen as a fragmented resource. Those in industry and politics often view it through a particular prism e.g. sanitation, agriculture, infrastructure, human health etc. Rarely is water and its provision throughout the supply chain viewed holistically. Working in water we have to leave major decision-making to politicians who, we hope, see the bigger picture. More often than not we are disappointed when we see decisions taken based on short term expediency over long term benefit.

The challenges of a fragmented resource landscape, then, has just become more complicated by the 2016 dawn of post-truth politics.

The decision of the UK to leave the EU has thrown into jeopardy – or, at least prolonged uncertainty – ongoing British scientific involvement in pan-European water research projects. The UK's university science capacity is first class; their access to the EU's €80bn Horizon 2020 funding programme is, however, in doubt.

Leaders of the Leave campaign dismissed scientists advocating EU research collaboration as "subsidy junkies" who "disgrace" themselves and "demean" their academic positions. We have yet to understand precisely how water research and policy may be affected by Brexit, but it is difficult to see how disruption to expert and scientific collaboration should be viewed as beneficial.

In the US, President-elect Trump has appointed a number of known climate change sceptics into senior roles of his incoming administration, including Scott Pruitt at the helm of the federal Environmental Protection Agency (EPA). The campaign rhetoric of the President-elect suggests that the federal budget is likely to be slashed – including

the \$4bn the EPA allocates in research grants. He also suggested that he would relax EPA rules to divert river water to agricultural land in drought afflicted areas such as California. This would come at a potentially significant cost to the rivers and their ecosystems. In this 'farmers versus fish' fight, Trump has made it clear whose side his administration will back.

In the politics of 2016 that played out on both sides of the Atlantic, it was fashionable to vilify expertise. Experts – scientists, economists and academics – were labelled, along with "elites", as not being trustworthy. Their contribution was dismissed as unnecessary, absurd, even rotten. In short experts were overrated; the knowledge they bring to an issue overstated.

It hardly needs to be said that this is not good for science, resource management and the common endeavour of progress. For those of us who work in water, either by trying to secure provision of safe drinking water, extending basic sanitation or unleashing the energy potential of water, now have an even greater task ahead. As experts in a critical resource, it appears we now have to diversify and become public relations and advocacy experts. In effect, our job looks set to include campaigning to ensure our best advice is not automatically dismissed by the self-assured hubris of the post-truth era politician.

It has been always incumbent on us to provide the best information available for politicians and their electorates on water science and resource management. Now we need to double our efforts to ensure that the information we provide is not reduced to simplified populist post-truth decisions, and where short-term gain does not bring on long term pain.

Never has the science and policy interface required closer collaboration and trust. "Bridging Science and Policy" is the timely theme of the International Water Resource Association's triennial World Water Congress in Cancun, Mexico this year.

That water is a vital resource is undeniable. Similarly, the expertise that sits behind the provision and safeguarding of finite water resources for agricultural, energy, public health and sanitation is no less vital. In the era of post-truth politics, politicians should be careful not to throw the science out with the bath water.

PUBLICATIONS & EVENTS

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Nick Schofield's advertising for new Program Manager

The University of New South Wales (UNSW) Global Water Institute (GWI) is currently seeking applications for a full-time Programs Manager. (Applications close Monday 3 April)

The newly established position will be responsible for the development and implementation of a range of research and education initiatives within Australia and internationally.

In a fixed term position for 12 months, the Programs Manager will work closely with the GWI Director to achieve the strategic objectives of the Institute.

To be successful in this role you will have:

- a relevant postgraduate tertiary qualification (Science, Engineering, Business Administration or other relevant discipline) with a minimum of 7 years of relevant international work experience in sustainable water, environment or natural resources management (or an equivalent gained through any other combination of education, training and/or experience).
- experience in formulating and implementing multi-disciplinary programs, projects, education and capacity development initiatives in developing countries in line with objectives and report on outcomes.
- strong interpersonal and communication skills with proven ability to liaise with a diversity of stakeholders to build collaborative relationships, influence decisions and negotiate outcomes.
- Substantial knowledge and experience in the workings and processes of international development organisations and donor agencies.

> For more information and to apply go to:

www.globalwaterinstitute.unsw.edu.au/news/gwi-seeking-full-time-programs-manager



XVI World Water Congress

International Water Resources Association (IWRA)
Cancun, Quintana Roo, Mexico 2017

29 May - 3 June, 2017

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