

IWRA *Update*

Newsletter of the International Water Resources Association

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THE NEW LOOK
IWRA NEWSLETTER

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www.iwra.org



EDITORIAL

Message from the Executive Director, Callum Clench

In the past year, there has been a flurry of political and diplomatic endeavours to address matters relating to water and the wider environment. The launch of the Sustainable Development Goals, the COP 21 Paris Agreement, and the Paris Pact on Water and Climate Change Adaptation are just three initiatives at the global level aimed at reducing some of the negative human impacts on our planet. It's easy to sometimes feel cynical about whether such efforts really deliver results. But with the correct interface between science and policy, great achievements can be made.

In May, IWRA Past-President Prof. Dogan Altinbilek was invited to give the key note speech at a meeting of water ministers of the Organisation of Islamic Cooperation (OIC). Water scarcity and security is an acutely important topic for the OIC and many of its 57 member states. OIC represents a diverse range of countries, cultures and climates. One critical aspect of that diversity is water availability in differing OIC member states.

The OIC share of the world's total renewable water resources is 13.3% while OIC represents 23.3% of the world's total population. This, however, shrouds significant disparities at the individual country level. Some OIC countries, of course, have vast water resources. The highest amount of total renewable water resources of all OIC countries is to be found in Indonesia and Bangladesh while the lowest is found among OIC Gulf state members. Consequently, OIC has set about developing a water portal to capture data and science. As we know, there is a considerable lack of data about water resources and usage. Sound policymaking has to be premised on good science and reliable data. This is the IWRA's key message in the run up to the XVI World Water Congress in Cancun in 2017.

The multi-dimensional challenge of working across a fragmented policy area such as water, in an organisation as diverse as OIC, shouldn't be underestimated. In a policy arena all too often characterised by glum facts, important measures in expanding data and science should be applauded. As Executive Director of the IWRA I therefore also reiterate our organisation's commitment to improve and expand the understanding of water issues through education, research and information exchange among countries and across disciplines.

With this in mind, I strongly encourage you all to promote the XVI World Water Congress in Cancun (May 29 – June 2, 2017) throughout your networks. I hope that you have also get your own submissions for abstracts, posters, special sessions and side events for the Congress submitted through the Congress website www.worldwatercongress.com. It is certainly set to be a fascinating event, with so many exciting developments under way at the international level which depend on strong policy, based on sound science, to be successful.

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IWRA UPDATE

Like any NGO, IWRA regularly experiences periods of transitions that can disrupt operations for a time, but which ultimately allow us to better commit to new projects and increase our dynamism. The Executive Office of IWRA now relocated from the city of Montpellier to Paris, where we are now hosted by the Seine-Normandy Water Agency next to La Défense. Our new office now sits alongside the French Water Partnership, and the Scientific and Technical Water and Environment Association – allowing new synergies to be developed with these and other associations based in Paris. Our outlook of course remains international and being located in such a world city will provide new opportunities that will benefit us all!

The team of IWRA has also undergone some changes:

- **Executive Board:** A new IWRA Executive Board started its mandate for 2016-2018 at the beginning of January. You can find the names, photos and biographies of the board on the [website](#).
- **IWRA Presidency:** Mr. Patrick Lavarde, who holds positions in the French Ministry of Environment and is the former CEO of the French national Agency of Water and Aquatic Environment, and was previously at the National Research Centre for Environmental and Agricultural Research, has succeeded Professor Dogan Altinbilek as IWRA President.
- **Executive Director:** Mr. Callum Clench is the new Executive Director, replacing Mr. Tom Soo who held this position for the past 6 years. Callum took over as head of the IWRA secretariat on 1st March 2016 and Tom was appointed as Executive Director of the World Water Council in April.
- **Executive Office:** after nearly 6 years of loyal service, Pierre Balzergue has handed over his place as project officer to Alice Colson, a graduate of risk management in the global South, and formerly working with Action Against Hunger. The Executive office is also welcoming a new intake of interns this year: the first being Karolane Caissy, graduated from McGill University in Montreal, who is helping us to work on a Water Quality project.

The IWRA's new address is:

51 Rue Salvador Allende
 92027 Nanterre - France

Please feel free to visit us if you are based in or travelling through the region!

WEBSITE - WHAT'S NEW?

New: the Congress Library

As IWRA's flagship conference, the World Water Congress, has gained a well-earned reputation for presenting leading edge research focused on delivery of practical solutions, displays of new technologies and publications, and has been at the forefront of the worldwide development of water resource management for 45 years. Wondering where to find the contents of past congresses, special sessions and side events? These are now online! You can now find on the IWRA website the contents of the XV World Water Congress in Scotland (2015), XIV World Water Congress in Brazil (2011) and XIII World Water Congress in France (2008).

[Please go to this link.](#)

Coming up next will be the content for the XI World Water Congress in Spain (2003) and X World Water Congress (2000) in Australia.

In the pipeline!

A photo library will find its place shortly on our website! Why? The IWRA archives contain a wealth of submitted photographic material and the publication committee regularly receives illustrations, photographs and albums to accompany articles. So we have decided to consolidate and make available these resources to members so you can discover them for yourself! Stay tuned and find a first overview on page 18!



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IN MEMORIAM

Sandor Csallany (1928-2016)

Sandor Csallany was born in Szentes, Hungary, on April 15, 1928. He completed degrees in Civil Engineering, Hydraulic Engineering, and Hydrology at the Technical University of Budapest, began his professional career, and married. The family fled into Austria at the time of the Hungarian Uprising in the fall of 1956 and continued to the United States in 1957 where Sandor joined the Illinois Water Survey. In the U.S., he was challenged by observing that his adopted country lacked a society focused on promoting discourse among water professionals on the many important issues facing water resources planning and management. He recruited colleagues who joined him in forming the American Water Resources Association on March 17, 1964. Sandor immediately went to work writing letters inviting professionals nationwide to an initial meeting in Chicago in 1965.

Since then, AWRA has grown steadily to become an influential force for an interdisciplinary perspective in water resources management. Sandor then took the next step of facilitating this important collaboration at the international scale and recruited Gabor Karadi and also Emil Mosanyi from the University of Karlsruhe in Germany in founding the International Water Resources Association on December 10, 1971. The new association rapidly gained membership and prestige under the enthusiastic leadership of Ven Te Chow, a world renowned hydrologist from the University of Illinois. Sandor also saw a need for ensuring the public that water resources management was supported by well-trained hydrologists. Since states did not register hydrologists, he advocated that the community itself certify expertise in hydrology and joined with Alexander Zaporezec and Roman Kanivetsky in 1979 in formulating a plan that culminated in establishment of the American Institute of Hydrology on March 27, 1981. Once again, he went to work with phone calls and letters recruiting leading hydrologists, fund raising, and organizing examinations for demonstrating merit. AIH has also matured through the years and become recognized for certifying excellence of practicing surface and groundwater professionals. Through the many years since, Sandor has kept close contact with all three organizations.

Thousands of water professionals around the world recognized his contributions and mourned his passing on June 8, 2016 in St. Paul, Minnesota. His personal career after leaving the Illinois Water Survey, included a time at Western Kentucky University and then many years as a practicing consulting engineer in Minneapolis. He is an Honorary Member of the Hungarian Academy of Engineering and has been awarded Certificates of Merit from Budapest University of Technology (Golden and Diamond Awards). He leaves Agnes his wife of 61 years and his son Adam.



INTERVIEW

Renée Martin Nagle,
Treasurer of IWRA



Taking advantage of her visit to the French capital, we spent an interesting and pleasant time with Renée Martin-Nagle, treasurer of the association, and asked her a few questions on her background and position.

> *When and how did you get to know IWRA?*

I discovered IWRA through two of my favourite international water lawyers: Gabriel Eckstein (Chair of the XVI Congress International Scientific Committee - ISC) and Carl Bruch (Director of the IWRA Executive Board), who have been active in IWRA for many years. When I was making the transition from aviation to water in 2011, they told me about the World Water Congress that IWRA was organizing in Brazil that year. I thought "why not go and get to know IWRA better?", it seemed like a great opportunity to learn about the issues affecting the water sector and to meet the people involved in those issues. So I went to the conference and fell in love with this organization, its missions, its people and its energy.

I became a member right away and got increasingly involved. Last year I agreed to be nominated as a candidate for the position of treasurer on the 2016-2019 Executive Board, since I already had experience as a treasurer and secretary of non-profit organisations. It just made sense for me to bring that experience to help an organization that I liked and respected.

> *Now you are the treasurer of the association, could you tell us what are the main challenges of your position, particularly in a non-profit organisation?*

As with any non-profit organisation, the main challenge is to secure enough funding for our operations, and the board is looking at ways to diversify our sources of revenue. Making a transition between our former offices in Montpellier to our new offices here in Paris was also another challenge that I think has been

INTERVIEW

well accomplished. My personal challenge is to expand my skills to embrace the financial operations of a global organisation, since my prior experience as treasurer of another non-profit was limited entirely to US operations. You can see that IWRA is experiencing a period of transition right now.

> How do you perceive this moment for the organisation, and what could be the opportunities of such a moment?

The board changes every three years, so this period of transition is not abnormal for IWRA. For me personally, coming onto the board at this time is very exciting since it presents an opportunity to make a positive difference with a new group of people. The board members are a great group of people, so it's been wonderful to get to know them and to find that our interests are very much aligned for water and for the organisation. We also have an opportunity to build on what was done in the past by prior boards and to take the organisation even beyond that to strengthen its profile and its finances. We stand on the shoulders of giants: many people contributed to bring IWRA where it is today, so I feel a responsibility to them and to the membership to do the best we can to strengthen and improve the organisation.

> As you know the next World Water Congress will happen in exactly one year with the main theme "Bridging Science and Policy".

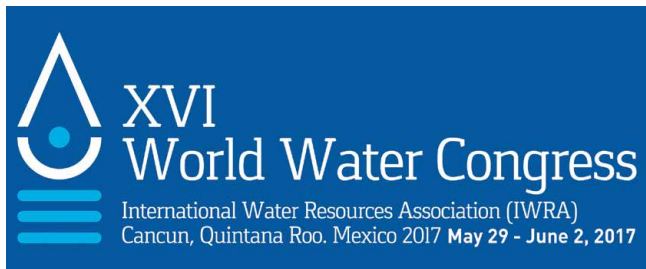
Well, "Bridging Science and Policy" is exactly what I'm doing with my PhD on Transboundary Aquifer Law! I don't think you can write a good policy without understanding science, and science on its own is very interesting but is only fully utilized when it contributes to policy. So as we look forward to addressing the various issues that we are facing relating to water security in the world, I think it is critical that we bridge, align and combine policy and science. One of the things I especially appreciate about IWRA is that it does combine policy and science. Scientists can come to our Congresses, meet policy-people, and find ways to have science inform policies, and policy people can also talk to scientists and get a better understanding on how to strengthen policies so that they reflect reality instead of only theory.



Renee Martin-Nagle (USA) is President and CEO of A Ripple Effect PLC, a PhD Researcher at the University of Strathclyde, and a Visiting Scholar at the Environmental Law Institute. For more than twenty years prior to joining the water community, she was the chief legal counsel for Airbus Americas. Renee earned an LL.M from George Washington University Law School (with highest honours), a Juris Doctor from the University of Pittsburgh School of Law, a Bachelor of Arts from St. Francis University and an Associate of Arts from Mount Aloysius College. Her LL.M. thesis, "Fossil Aquifers: A Common Heritage of Mankind", won the 2011 Jamie Grodsky Prize for Environmental Law Scholarship.

LATEST ACTIVITIES

MEXICAN MEMBERS OF THE WORLD WATER CONGRESS STEERING COMMITTEE IN PARIS



Mexican members of the XVI Congress Steering Committee (CSC) made a formal visit to Paris on the 11th of April 2016, to help coordinate communication around the Congress, strengthen the synergies with IWRA regarding the call for papers, special sessions and side events, and finally assess the excellent work already done by ANEAS/CONAGUA. The preparation of the Congress is already set to be a fascinating event, conveying various tools for sound water policies. The CSC also organised a meeting during the Kick-off meeting of the 8th World Water Forum in Brasilia on Sunday 26th June.

IWRA STUDENT CHAPTER MEETING FOR ILLINOIS WATER DAY

April 8, 2016 marked the third installment of Illinois Water Day (IWD), a day where contemporary water issues, research, and solutions are brought into focus in the University of Illinois and the wider community of Urbana-Champaign. Organized by the IWRA student chapter at the University of Illinois at Urbana-Champaign (UIUC), IWD promotes the themes and values of World Water Day by raising public awareness of water resources issues, and aims to provide a thought-provoking environment to foster discussions and collaboration regarding local water issues. IWD is a unique opportunity for interdisciplinary discussion and for students to touch base with “the big picture” of what we work towards as scientists.

This year’s IWD theme was “Water and Jobs”, and the day included talks, a panel discussion, and a poster session featuring student’s research, with more than 80 participants. Speakers and panel members included Colleen Callahan, Illinois Director of US Department of Agriculture Rural Development; Richard Lanyon, Former Executive Director of the Metropolitan Water Reclamation District of Greater Chicago, and Lance Schideman, Research Scientist at Illinois Sustainable Technology Center. The panel was led by UIUC’s professor, Dr. Ashlynn Stillwell.

This year IWRA student chapter at UIUC developed an educational booklet about the importance of water resources conservation for local elementary schools. The students demonstrated what they learned through art works that addressed the themes “why do we need water?” and “where does water come from?” The drawings were featured in a school-year calendar. Through these initiatives, IWRA student chapter at UIUC works towards integrating the local community in the discussion and awareness about present and future water resources challenges.



> IWRA STUDENT CHAPTER MEETING

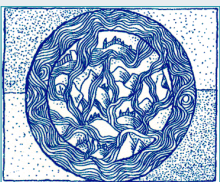
LATEST ACTIVITIES

CLIMATE IS WATER INITIATIVE (#CLIMATEISWATER)



The Climate is Water Initiative is a collective effort, that has emerged from the determination of various members of the international water community (World Water Council, French Water Partnership) to join forces in order to elevate the visibility for water within the climate change discussions during COP21 and beyond. IWRA is taking part in two task forces within the initiative – communication and policy – to help build strong communication messages, and support policy development that could resonate in the climate change community. The initiative should have a fundamental impact during the Rabbat meeting in July, which Patrick Lavarde will attend to prepare COP 22.

THE FRENCH WATER ACADEMY'S 20TH ANNIVERSARY



Académie de l'Eau To mark the 20th anniversary of the French Water Academy (Académie de l'Eau) and the centenary of the birth of its founding president, Professor Jean Dausset, Nobel Prize winner in Medicine, it organized with the Academy of Sciences of Overseas (Académie d'Outre Mer) an exceptional day on the theme of water and biodiversity in climate change. The general objective of this Day was to show the close complex relationship between the water management and the life of all species under the stresses of climate change.

WORLD TOILET DAY



IWRA is on the steering committee for World Toilet Day, which is a United Nations initiative observed on November 19th, with a focus this year on toilets and jobs. World Toilet Day will highlight a serious problem: 2.5 billion people in the world do not have access to proper sanitation. Did you know that more people in the world have a mobile phone than a toilet? Of the world's seven billion people, six billion have mobile phones. However, only 4.5 billion have access to toilets or latrines – meaning that 2.5 billion people, mostly in rural areas, do not have proper sanitation. As sanitation is closely linked to the access, uses and quality of water, we decided to join the task force to contribute towards establishing a sound communication strategy, to increase the largest impact and raise awareness on this topic!

Want to contribute? Please send us any relevant facts, figures and case studies about toilets, sanitation and jobs to office@iwra.org

More information at www.worldtoiletday.info

LATEST ACTIVITIES

3RD ORGANISATION OF ISLAMIC COOPERATION (OIC) CONFERENCE OF MINISTERS RESPONSIBLE FOR WATER, May 17th-19th, Istanbul, Turkey

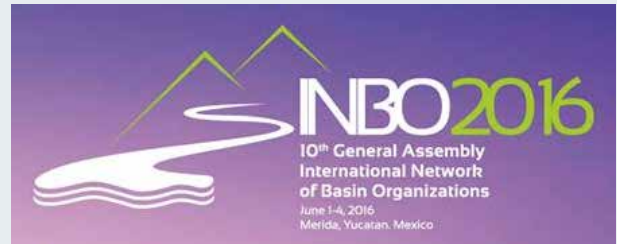
IWRA Former President, Dogan Altinbilek, attended the 3rd Session of the OIC Conference of Ministers Responsible for Water which was organised by the Turkish Water Institute (SUEN) under the Ministry of Forestry and Water Affairs of Turkey. Prof. Altinbilek used the occasion to make a presentation on water issues in the Middle East, and to say a few words about the next World Water Congress in Cancun.



IWRA FORMER PRESIDENT, PROF. DOGAN ALTINBILEK, DURING HIS PRESENTATION

This session of the OIC Conference sought to address the implementation of the OIC Water Vision, which was adopted in 2012 by the 2nd Ministerial Conference in Istanbul. The main theme of the conference was "From Vision to Action".

10TH GENERAL ASSEMBLY OF THE INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS (INBO), Merida, Mexico



The event which took place at the beginning of June 2016 in Merida, Mexico, was organized to further INBO's efforts, activities, and programmes that respond to global challenges such as population growth, food and energy demand, and adaptation to the effects of climate change, in the basins of local, national and transboundary rivers, lakes and aquifers. You can find INBO's "Merida Declaration" [here](#).

Gabriel Eckstein (ISC Chair) represented the IWRA, participating on the International Cooperation Organizations Forum where he introduced the upcoming XVIth World Water Congress to the INBO Assembly and encouraged INBO and its members to contribute to the Congress programme.

Because the INBO Assembly was hosted by Mexico's CONAGUA and ANEAS, he took advantage of the opportunity to meet with representatives of those two entities as they will also host the XVIth World Water Congress in Cancun next year. During their meeting, they continued their ongoing dialogue and preparation for the Congress and developed tasks and strategies that will ensure the success of the Congress. They could also exchange proposals for high-level panels, keynote speakers, and coordination with other international organizations. Lastly, they reviewed the abstract and special session submission process and agreed to further promote the Congress website and submission of abstracts and special session proposals.

LATEST ACTIVITIES

7TH MEETING OF THE OECD WATER GOVERNANCE INITIATIVE, The Hague, Netherlands

IWRA is involved in the OECD Water Governance Initiative (WGI), which is an international multi-stakeholder network of 130 delegates from public, private, and non-profit sectors gathering twice a year in a policy forum to share experience on reforms, projects, lessons and good practices in support of better governance in the water sector. The initiative aims to provide a multi-stakeholder technical platform, advise governments, provide a consultation mechanism to raise the profile of the Global Water Agenda. It supports the implementation of the OECD Principles on Water Governance and finally fosters continuity between World Water Forums.

Therefore the executive office took part to the two latest steps of the initiative: first, a webinar in Paris in the OECD headquarters, the 25th of April, which aimed to establish a consensus on the approach of the initiative, create synergies and encourage voluntary participation on collecting data on indicators, and best practices. Then Callum Clench participated to the 7th meeting of the Water Governance Initiative which took place in The Hague, Netherlands. The main objectives of the two day session were to welcome new WGI members, discuss WGI's contribution to the Global Agenda, especially SDGs, Habitat III, COP22 and the World Water Forum, and finally work on water governance indicators and best practices through a whole day of round table sessions.

Those workshops were particularly insightful as IWRA is focused on bridging science and policy. Establishing good indicators relating to the governance of water resources is critical to creating sound water policies. Therefore IWRA is very proud to participate in the next steps of the WGI and to help foster good governance for water at all levels. More information about the OECD Water Governance Initiative can be found at: www.oecd.org/gov/regional-policy/water-governance-initiative.htm

8TH WORLD WATER FORUM, KICK-OFF MEETING, Brasilia, Brazil



As the 8th World Water Forum will take place in Brasilia in 2018 and IWRA's President is part of its steering committee, Callum Clench and Patrick Lavarde both attended the kick-off meeting held in the Brazilian capital from the 27th to 29th of June. This meeting aimed to determine the broad guidelines to be given to the Forum. IWRA is also very committed in the World Water Forum Process as it has been working as the Coordinator and Thematic Champion for the Implementation Roadmap Thematic Process for Theme 3.3: "Ensuring Water Quality from Ridge to Reef" in the lead-up to, during and following the 7th World Water Forum held in Daegu, Republic of Korea.



UPCOMING EVENTS



Singapore Water Week

10-14 July 2016, Singapore

The Singapore International Water Week (SIWW) is the global platform to share and co-create innovative water solutions. The biennial event gathers stakeholders from the global water industry to share best practices, showcase the latest technologies and tap business opportunities. SIWW is part of the strategic programme of the Singapore Government to grow the water industry and develop water technologies. The 7th SIWW will be held in conjunction with the 5th World Cities Summit and the 3rd CleanEnviro Summit Singapore.

More information can be found at: www.siww.com.sg



Stockholm World Water Week

28 August - 2 September 2016, Stockholm, Sweden

The World Water Week in Stockholm is the annual focal point for the globe's water issues. It is organized by the Stockholm International Water Institute (SIWI). This year, the theme is Water and Sustainable Growth. It is also the 20th jubilee of the Stockholm Junior Water Prize.

More information can be found at: www.worldwaterweek.org



Istanbul Water Expo (IWE)

Istanbul Water and Wastewater Treatment Technologies

1-3 September 2016, Istanbul, Turkey

IWE is the first and the only B2B event in Turkey focused solely on water and wastewater industry. The IWE Istanbul Water Expo will bring together a comprehensive range of the latest technologies and developments in sustainable utilization of water resources, water management, water and wastewater treatment and reuse of water on the same platform. The Istanbul Water Expo aims to bring together comprehensive range of products and latest technologies of 150 participating companies and 350 local and international brands with 5.000 professional visitors at IFM Istanbul Expo Centre.

More information can be found at: www.istanbulwaterexpo.com

Economic development and social welfare under pressure: Climate change impacts on water resources

7-9 September 2016, Puebla, Mexico

Under the Researcher Links scheme offered within the Newton Fund, the British Council, the James Hutton Institute (JHI) and Colegio de Postgraduados (COLPOS, Campus-Puebla), will be holding a workshop on the above theme in Puebla, Mexico on 7, 8 and 9 of September 2016. The workshop is being coordinated by Prof. Alison Hester (JHI) and Dr. Javier Ramirez (COLPOS), and will have contributions from other leading researchers. They are now inviting Early Career Researchers from Mexico and the UK to apply to attend this workshop. All travel and accommodation expenses will be covered by the Newton Researcher Links programme.

More information can be found at: <http://colpospuebla.mx/taller/workshop>

UPCOMING EVENTS



Climate Chance 2016, Climate Actors World Summit

28-28 September 2016, Nantes, France

Climate Chance aims to become the regular appointment of all non-state actors engaged in the daily fight against climate change, and will host participants from around the world. This summit will be an opportunity to draw the status of the action throughout the world, deepen exchanges on successes and difficulties, and promote sharing of experiences and innovations in order to identify emerging opportunities for this determined struggle.

More information can be found at: www.climatechance2016.com



43rd International Association of Hydrologists (IAH) Congress

25-29 September 2016, Montpellier, France

IAH grew rapidly during the 1980s and early 1990s as the importance of mapping and investigating groundwater resources became more widely recognised and the number of groundwater professionals increased. More recently, the increasing importance of managing groundwater resources and protecting aquifers from pollution have produced evolving scientific directions within hydrogeology. The 60th anniversary this year offers ample opportunities to reflect, take stock and to assess the current state of hydrogeology within societies worldwide.

More information can be found at: www.60iah2016.org



IWA Congress 2016

9-14 October 2016, Brisbane, Australia

The IWA Congress & Exhibition is the global event for water professionals. It offers new insights into how pioneering science, technological innovation and leading practices shape the major transformation in water management that is underway. More information can be found at:

www.iwa-network.org/event/world-water-congress-exhibition-2016



UNFCCC COP22

7-18 November 2016, Marrakesh, Morocco

COP22 will continue the progress made at COP21, focusing on the different priorities selected in the Paris Agreement, including those relating to adaptation, transparency, technology transfer, mitigation, capacity building and damages. For Salaheddine Mezouar, president of the COP22, this conference is an "opportunity to bring the voices of the most vulnerable countries to climate change, in particular African countries and island states. It is urgent to act before these issues related to stability and security".

In preparation for COP22, a high level meeting will take place in Rabat Morocco on the 10th and 11th July focusing on water issues. IWRA will be represented by members of the Executive Board.

More information can be found at: cop22.ma

UPCOMING EVENTS



Budapest Water Summit 2016

28-30 November 2016, Budapest, Hungary

The objective of the Budapest Water Summit 2016 is to facilitate water to be the source of cooperation, peace and development in all countries that have a stake in sustainable development, instead of being the cause of global risks and further conflicts of the 21st century. For this purpose, the participants of the Summit shall discuss and adopt the "Budapest Statement 2016" in order to be able to propose solutions to the relevant international forums. More information can be found at: www.budapestwatersummit.hu



ICID•CIID

ICID-CIID 2nd World Irrigation Forum and 67th International Executive Council Meeting 2016

6-12 November 2016, Chang Mai, Thailand

The 2nd World Irrigation Forum (WIF2) will be hosted at Chiang Mai city, Thailand from 6-12 November 2016 on the theme "Water management in a changing World: Role of Irrigation in Sustainable Food Production". The participants includes: policy makers, experts, researchers, consultants, manufacturers, contractors, academics and farmers through various institutions, non-governmental organizations and development agencies, etc. The triennial World Irrigation Forum aims to bring together all the stakeholders involved in irrigation and drainage and allied sectors which alone can meet the growing food demand and address poverty, in times of changing climate and depleting freshwater resources and is key to the rural transformation. The Forum addresses the various multidisciplinary perspectives that encompasses agriculture water management for rural transformation and includes irrigation, drainage, flood management, drought, land reclamation, climate and environment disciplines. More information can be found at: www.worldirrigationforum.net



ASTEE's 96th Annual Conference

6-9 June 2017, Liège Theatre, Belgium

ASTEE holds an annual conference bringing together water and environment professionals, so that they can interact, communicate about good practices and capitalize on their experience in that domain. The main theme for this next meeting is "Regions and the EU, working together to foster environmental transition", as EU policies heavily influence regional management, investment and development projects, particularly those dealing with water, environment and waste management. Individuals wishing to propose a paper must submit a one or two page abstract, either in English or in French, by September 15, 2016. The abstract should be e-mailed to ASTEE's secretariat, at the following address: liege2017@astee.org. Oral presentations can be made in French or in English. More information can be found at: www.astee.org/evenement/96eme-congres

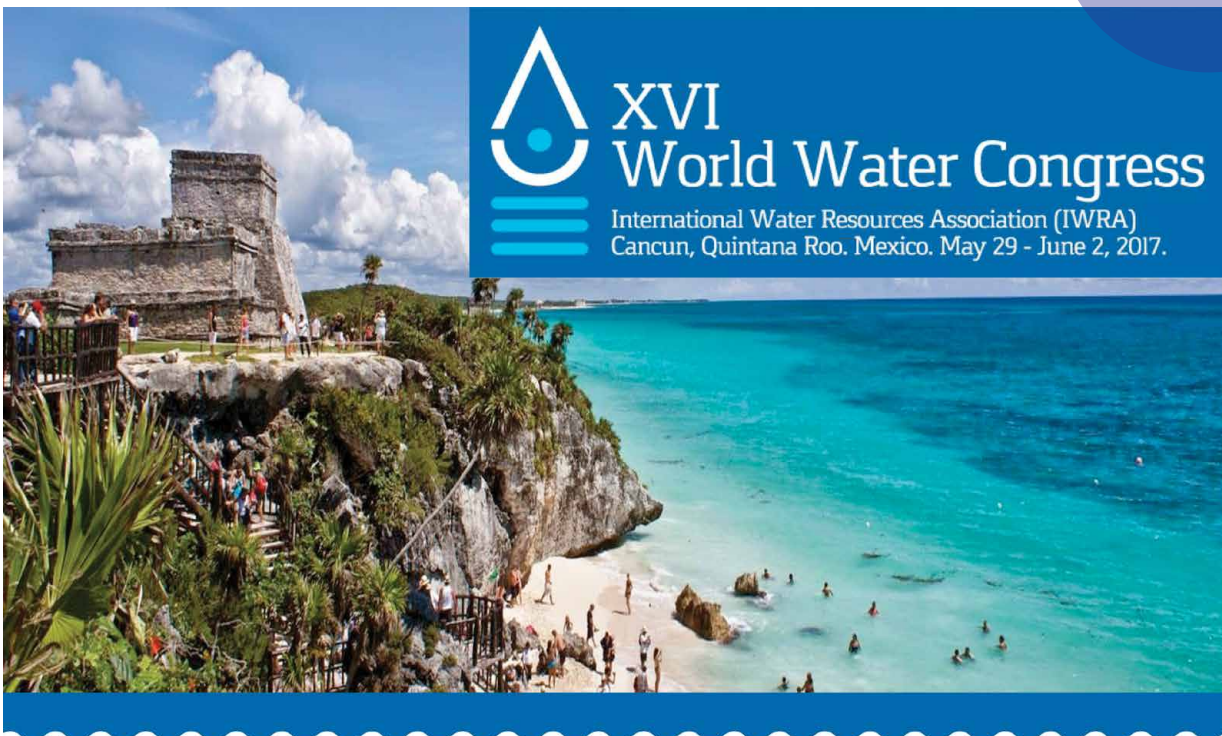
If you have an event you wish to promote through the IWRA Newsletter, please contact office@iwra.org

UPCOMING EVENTS

XVI WORLD WATER CONGRESS

May-June 2017, Cancun, Mexico

WE LOOK FORWARD
TO SEEING YOU
IN CANCUN!



MÉXICO
PRESIDENCIA DE LA REPÚBLICA



SRE
SECRETARÍA DE
RECURSOS HÍDRICOS

SEMARNAT
SECRETARÍA DE AMBIENTE
Y RECURSOS NATURALES

CONAGUA
COMISIÓN NACIONAL DEL AGUA



The International Water Resources Association (IWRA) is proud to announce the recent launching of its call for papers and special sessions for the XVI World Water Congress! The Congress will take place in Cancun, Mexico, May 29 – June 2, 2017.

Please see: www.worldwatercongress.com

We encourage you to review the thematic structure of the Congress, which is encompassed by the overall theme of Bridging Science and Policy. More importantly, we welcome and invite you to submit an abstract for oral or poster presentation, or organize a special session or side event, on one of the multiple water-related themes and sub-themes featured at the Congress. Submissions are made through [the Congress website](#).

THE DEADLINES FOR SUBMISSIONS ARE:

- September 1st 2016: Deadline for abstract & special session submission
- November 1st 2016: Deadline to submit Side Event proposals

Registration for the Congress will open in September 2016.

You will find the link for the Congress brochure [here](#). Please let us know if you have any questions.

PUBLICATION

Water International News

EDITORIAL TEAM

Yoram Eckstein has resigned as Associate Editor for personal reasons. Replacing him as a policy-savvy physical scientist is Charlotte McAlister of IDRC.

EDITORIAL BOARD, 2016-18

The new Water International Editorial Board is being finalised, with considerable overlap with the previous one but with important new members, such as previous Editors-in-Chief. Its tasks include providing wisdom and advice to the Editorial Team, including the Book Review editor, serving as a jury on Best Paper candidates, and occasionally doing peer reviews of manuscripts.

ON-LINE SUBMISSIONS

Beginning this year, we have adopted Editorial Manager for on-line submissions. This is now in operation for open submissions, and is being phased in for thematic special issues.

IWRA INITIATED SPECIAL ISSUES

The IWRA Publications Committee, chaired by Henning Bjornlund, is initiating an annual invitational special issue of Water International on a theme of direct relevance to the policy activities of the IWRA. The first of these will be on water quality.

BOOK REVIEWS

Under the Book Review editor, Remy Kinna, we have begun to publish a significant number of high quality reviews.

GROWTH

We intend to increase the number of issues per year from 7 to 8 beginning next year.

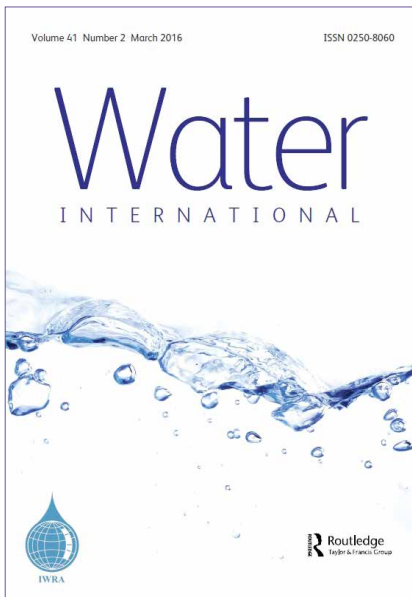
POST-PUBLICATION IMPACT

With the new IWRA Executive Office, are reviving the IWRA Policy Briefings and webinars on themes of published WI special issues, and are initiating a related photo gallery for members on the IWRA webpage. These are being prepared as follow-ons to the May issue, initiated by IWRA, on mining and water, with others to follow regularly. In addition, a number of special issue based books are under way in the Routledge Special Issues on Water Governance and Policy series.

ACADEMIC IMPACT:

The Thomson Reuters Web of Science two-year impact factor for Water International in 2015 was 1.04, up from 0.686 in 2014. The five-year IF, a more robust measure, increased from 0.87 to 1.139.

> *James E. Nickum, Editor-in-Chief*
iwrapubs@gmail.com



PUBLICATION

Water International

Volume 41, Issue 3, 2016

SPECIAL ISSUE

Out of Mines, Out of Site:

The water legacies of conventional mining

INTRODUCTION

David B. Brooks,

James E. Nickum, Anthony Turton & Surina Esterhuysen - Pages 325-329

ARTICLES

- *Untying the Gordian Knot: unintended consequences of water policy for the gold mining industry in South Africa*
Anthony Turton - Pages 330-350
- *Mine site water-reporting practices, groundwater take and governance frameworks in the Hunter Valley coalfield, Australia*
Wendy Timms & Cameron Holley - Pages 351-370
- *Non-discrimination and liability for transboundary acid mine drainage pollution of South Africa's rivers: could the UN Watercourses Convention open Pandora's mine?*
Remy Kinna - Pages 371-391
- *A pilot study of the Social Water Assessment Protocol in a mining region of Ghana*
Anastasia N. Danoucaras, Alidu Babatu Adam, Kathryn Sturman, Nina K. Collins & Alan Woodley - Pages 392-408
- *Unconventional oil and gas extraction in South Africa: water linkages within the population–environment–development nexus and its policy implications*
Surina Esterhuysen, Nola Redelinghuys & Marthie Kemp - Pages 409-425
- *Lessons from Yanacocha: assessing mining impacts on hydrological systems and water distribution in the Cajamarca region, Peru*
Diana Vela-Almeida, Froukie Kuijk, Guido Wyseure & Nicolas Kosoy - Pages 426-446
- *Disputes over land and water rights in gold mining: the case of Cerro de San Pedro, Mexico*
Didi Stoltenborg & Rutgerd Boelens - pages 447-467
- *Mining and campesino engagement: an opportunity for integrated water resources management in Ancash, Peru*
Robert Patrick & Lalita Bharadwaj - Pages 468-482
- *Questioning the effectiveness of planned conflict resolution strategies in water disputes between rural communities and mining companies in Peru*
Milagros Sosa & Margreet Zwarteveen - Pages 483-500



PUBLICATION by members

Birth of a New Journal – International Water Law

The First Issue of Brill Research Perspectives - International Water Law (IWL) Journal (1.1) has been published in both electronic and paper forms in April 2016. IWL is a quarterly Journal published by Brill. Each issue consists of a single monograph in the range of 25,000 to 45,000 words. The Journal targets monographs that are too long for a typical journal article, and too short for a book. Thus it is not intended to compete with other water journals; rather, the intention is to supplement their publication work.

The monograph for the First Issue of IWL is authored by Dr. Gotz Reichert, and titled "Transboundary Water Cooperation in Europe - A Successful Multidimensional Regime?". The Second Issue will be published in June 2016. The monograph for that issue is authored by Renee Martin-Nagle, and deals with "Governance Regime for Offshore Transboundary Aquifers."

The Editor-in-Chief of International Water Law Journal is Dr. Salman M. A. Salman, who is a Fellow with IWRA, and a member since 1994. The editorial board includes three members of IWRA – Professor Gabriel Eckstein, Professor Lilian del Castillo-Laborde, and Professor Alistair Rieu-Clarke. In addition, the editorial board includes Professor Laurence Boisson de Chazournes, Professor Makane Moise-Mbengue, and Dr. Kishor Uprety. The monographs for the first two issues of IWL are authored by two members of IWRA.

> More information about International Water Law Journal can be found at: www.brill.com/rpwl

To develop a sound regional water policy, we need better data

by Dogan Altinbilek for The National

Coinciding with the Organization of Islamic Cooperation (OIC)'s meeting on water in Istanbul, Dogan Altinbilek has written in the Arab Emirates journal "The National" about the challenging lack of data and science about water resources and usage.

> www.thenational.ae/opinion/comment/to-develop-a-sound-regional-water-policy-we-need-better-data

Stakeholder Engagement for Inclusive Water Governance, "Practicing What We Preach" with the OECD Water Governance Initiative

by Aziza Akhmouch and Delphine Clavreul, OECD Water Governance Programme

Stakeholder engagement has long been considered an integral part of sound governance processes. However, a closer look at the literature reveals that, beyond this general assertion, there is a lack of evidence-based assessment on how engagement processes contribute to water governance objectives and better policy outcomes. This article published in the latest Special Issue of Water addresses this research gap by presenting key findings and policy guidance from a study by the Organisation for Economic Co-operation and Development (OECD) on "Stakeholder Engagement for Inclusive Water Governance". It shares the experiences and lessons that have emerged from engaging stakeholders in the OECD Water Governance Initiative – an international multi-stakeholder policy forum created in 2013 to share policy and practical experiences on water governance at different levels.

> The article is available on open access at: www.mdpi.com/2073-4441/8/5/204

Classic Papers in Natural Resource Economics Revisited,

by Chennat Gopalakrishan, March 2016, 404 pages, Taylor and Francis

Classic Papers in Natural Resource Economics is the first attempt to bring together a selection of classic papers in natural resources economics, alongside reflections by highly regarded professionals about how these papers have impacted the field. The seven papers included in this volume are grouped in five sections, representing the five core areas in natural resource economics: the intertemporal problem; externalities and market failure; property rights, institutions and public choice; the economics of exhaustible resources; and the economics of renewable resources.

Chennat Gopalakrishan, is Professor Emeritus at the University of Hawaii, USA. He has published eight books and 120 journal articles and technical papers on current and emerging issues in natural resource economics and policy. He's Editor-in-chief of the Journal of Natural Resources Policy Research.

PHOTO GALLERY

Surina Esterhuysen is a researcher with expertise in Hydrogeology and Geology at the Centre for Environmental Management, of University of the Free State, Bloemfontein. Her photos show the impacts on mining on the water resources. She contributed to the May 2016 Special Issue of Water International "Out of Mine, Out of Site, The water legacies of conventional mining".



> TUNGSTEN LAKE

© Surina Esterhuysen

“ My work in Namaqualand involved surveying the area for copper mining related water pollution and AMD leachate generated from these sites. We sampled soil and water in the area and found quite high heavy metal contamination. All these sites are abandoned mines and have not been rehabilitated. Although the Namaqualand contamination is also quite extensive, it is located far from major urban centres, out of sight and much less is known about this contamination. Because these areas are out of sight, it also unfortunately means that little money is spent on rehabilitating these areas.

The Witwatersrand work related to identifying abandoned mine sites and open shafts in order to map these and rehabilitate it. Areas of water ingress were also identified in order to reduce such ingress areas and reduce large amounts of clean water entering the mine voids and becoming AMD. Mine shafts and water courses running over undermined and unstable areas all contribute to mine water ingress in the Wits. The sinkholes show areas of instability. The mine dumps must also be rehabilitated as these contaminate surface water courses with heavy metals, high TDS and radioactivity, and also contaminate groundwater in the area of the dump footprints. ”

PHOTO GALLERY



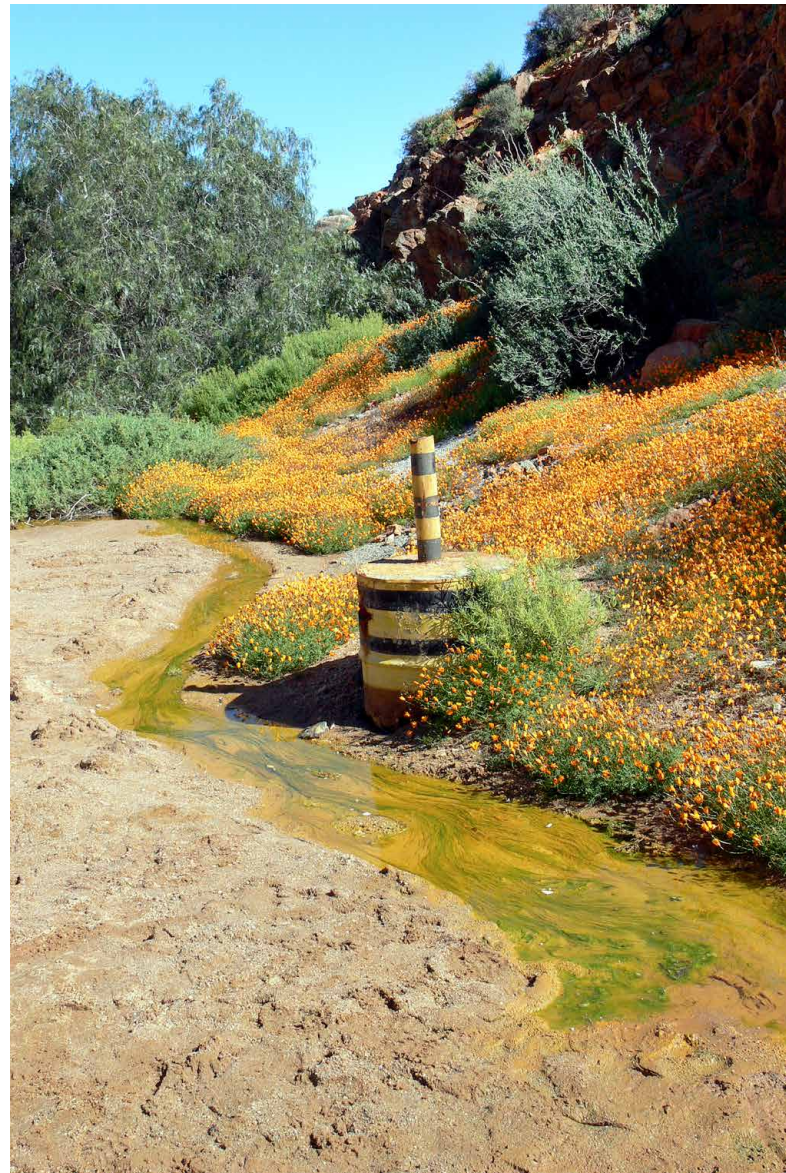
> BOBBY'S BIT

A copper mining excavation area. The green that you see on the rock is copper leachate.

© Surina Esterhuyse



© Surina Esterhuyse



© Surina Esterhuyse

KLOOF LEACH I & III <

These are all photos from an old copper mining adit. The water is leachate from the adit. The orange colour is from copper and other heavy metals dissolved in the water.



> SPEKTAKEL LEACH

Photo is from an old copper mining site called Spektakel.
The blue green colour is from copper dissolved in the water.



PHOTO GALLERY



> THE OKIEP

© Surina Esterhuyse

Photo is from a copper mining site called Okiep. The white substance is evaporates and the red water is copper and other heavy metal leachate.



> WITS MINE DUMP AND ROAD

© Surina Esterhuyse

The mine dump is fine particle mine waste, from crushed quartzite that contained the gold that was mined in the Witwatersrand. The quartzite is what makes it white. These dumps are major contamination sources as they contain a lot of uranium, other heavy metals (Cd, Zn, Fe, Co, Ni, As), generates AMD leachate and is also in many cases radioactive. These dumps are littered all over the Wits gold mining area and contaminate water courses running past the dumps when sediment from the dumps enter the streams, and also contaminate groundwater in the dump footprint region. The road is the N12, a major transport artery in Gauteng.

BE PART OF OUR PROJECTS!

With a strong network of almost a thousand members with various skills and experiences, IWRA would be pleased to involve more of its members in its projects. If you would like to contribute and share your research, experiences, and gain visibility through our networks and communication channels, please contact us!

If you wrote, participated in or contributed to the development of indicators of water governance, and/or capitalized on best governance practices, please send them to contribute to the Water Governance Initiative of the OECD!

You helped to case studies related to sanitation in the workplace worldwide, or have the raw data and figures? Help us for the next World Toilet Day, on the theme "water and jobs"!

You are a young or emerging professional working on the water resource, and you would be pleased to share your interest for water with us? Please contact us at office@iwra.org or k.caissy@iwra.org !

Also don't forget that the call for papers, abstracts, special sessions and side events is open for our next World Water Congress. Would you like to help us promote the Congress? Write us an e-mail to obtain our promotional documents and presentations!

Also don't hesitate to tag us:

[@iwra_water](https://twitter.com/iwra_water) [@WWCongress](https://twitter.com/WWCongress) on Twitter!

More information on:

> www.worldwatercongress.com

Help us getting better every day!

For any suggestions and update, contact us at:
office@iwra.org

NEW WATER JOBS



IWRA is pleased to support the launch by one of our members of a new water job search platform: "Josh's Water Jobs" which you can find at:

> www.joshswaterjobs.com

Josh's Water Jobs started in 2011 as an informal list service of a few dozen friends and colleagues receiving a job posting every month. As the list grew in size, not only in the number of recipients but also the number of jobs, it became increasingly clear that the list was filling a gap where a website concentrating on international water jobs should have been. The more people got jobs, the more the initiative to create that website gained momentum, culminating in Josh's Water Jobs being launched in June of 2016.

The jobs found on the website are related to water and are internationally focused. There are two broad categories that are highlighted, namely Water (policy, governance, law, economics, management, finance, advocacy, science, communications, etc.) and WASH (water, sanitation and hygiene).