

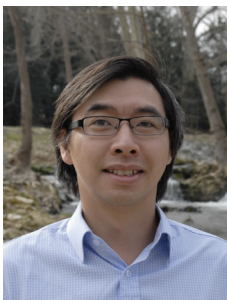


# IWRA *Update*

**Newsletter of the International Water Resources Association**

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## MESSAGE FROM THE EXECUTIVE DIRECTOR



Dear Members, Friends and Colleagues,

The last few months have been quite busy for IWRA, so we are happy to have this opportunity to share news of our recent activities.

IWRA was well represented at the 3<sup>rd</sup> Istanbul International Water Forum with many of our Executive Board and our members participating in thematic, plenary and side sessions. We also led two side sessions related to ongoing projects at the Executive Office. One focused on the science-policy interface and the other on developing water quality guidelines for particular water uses. The Forum also provided a valuable opportunity to hold a well-attended board meeting, possibly the best attended in a long time. While our recent virtual board meetings have also been quite productive, it is always great to connect in person. As a result of the board meeting and a workshop on IWRA's future strategy, the Board and the Executive office shall be working in the coming months on many different issues from membership to the World Water Congress to a review of our constitution (see page 3 for details). We are excited to be taking this major step forward in the evolution of the association.

In recent months, we have also participated at CATEC 2014 in Azerbaijan, an OECD Water Governance Initiative meeting in Madrid, and the Singapore International Water Week. IWRA will be participating in several other events internationally in the near future, with upcoming events in Mexico City, Korea, and Stockholm. See our Upcoming Events section (page 7) for more information about these exciting upcoming conferences.

In other news, we are proud to announce that we held our first ever webinar on May 12<sup>th</sup>, which was based on the theme of our first policy briefing and Water International Special Issue: "Can Water Supply, Sanitation and Hygiene be Preventative Medicine?". Based on the success of this first webinar, we will be organising more in the future, with our next webinar set to cover the UN Watercourses Convention. Stay tuned to our website for details about our budding webinar series.

Speaking of the UN Watercourses Convention, on 19 May 2014, Viet Nam became the 35<sup>th</sup> country to accede to the Convention. This means that the Convention will officially go into force on 17 August 2014. Given the significance of this event, we have featured the opinions of several of our legal experts in this newsletter on the Convention and the potential impacts of it going into force (see page 2).

Our plans are also continuing to develop for our XV<sup>th</sup> World Water Congress to be held in Edinburgh, Scotland 25-29 May 2015. We recently released a Call for Abstracts, so please visit [www.worldwatercongress.com](http://www.worldwatercongress.com) and consider making a contribution to what will certainly be another great Congress!

Finally, don't forget to check out our Publications section (pages 8 to 10), to keep up with all of the great publications our members are continuing to write, both in Water International and beyond!

Best wishes,

Tom Soo

## ■ OPINION PIECE

The UN Watercourses Convention will go into force 17 years after it was opened for ratification. After so much time, is it still relevant and what will be its impact?

The Convention on the Law of the Non-Navigational Uses of International Watercourses (UN Watercourses Convention) is a landmark international legal instrument which codifies existing customary law and establishes a robust system for dispute resolution between co-riparian states. This instrument has been in development for a significant amount of time, and has been open to ratification by state parties since 1997. Recently, Viet Nam became the 35<sup>th</sup> state party to accede to the Watercourses Convention, which means it will go into force on 17 August 2014. We invited some of our legal experts to share their opinions on the convention and its impact.

### **Carl Bruch, Senior Attorney, Co-Director, International Programs, Environmental Law Institute (USA)**



The entry into force of the UN Watercourses Convention is to be celebrated, but not because the convention is visionary (it is not) or because there is widespread agreement on its normative strength (at best, debatable). The real reasons to celebrate the convention are process-oriented. First, there will be a secretariat to administer the convention (it

would be unprecedented if there was no secretariat for a global environmental convention). Second, once the secretariat is established, there will be an ongoing process to increase the number of parties, implement the convention, and consider how to fill the normative gaps in the convention. Third, the convention –in conjunction with the new Sustainable Development Goals– will catalyse and focus funding for water-related activities.

### **Dr. Alistair Rieu-Clarke, Reader in International Law, Centre for Water Law, Policy & Science, University of Dundee (Scotland)**



We continuously considered this question throughout our work for the UN Watercourses Convention Global Initiative, led by WWF. 10 years on from its adoption we started assessing regional contexts and surveyed water experts in Central Asia, China, East Africa, Europe, Southern Africa, South America, South-east Asia and

West Africa. A common response was that it largely complemented and strengthened existing basin/country-specific arrangements, and entry into force would increase the political impetus for the equitable sharing of transboundary waters.

### **Raya Stephan, Water law Expert, International Consultant (France)**



The forthcoming entry into force of the UN Watercourses Convention represents a formal recognition by States of its contribution to the development of international water law, and might give more weight to its moral authority. However the entry into force might not have an immediate important impact.

The two core principles of the Convention are part of international customary law and were therefore already binding on all States. The Convention was also a reference before its entry into force for instruments such as the SADC Protocol on shared watercourses systems (2000) or the 2002 agreement between Lebanon and Syria to share the water of the Nahr el Kebir.

### **Prof. Gabriel Eckstein, Professor of Law, Texas A&M University School of Law (USA)**



The impact of the Convention can already be seen in the numerous regional treaties that incorporate its norms. More so, its impact is evident in that the Convention's principles are more publically being discussed, evaluated, and even questioned at the highest levels. Nevertheless, given the rise of new

concerns and issues, including climate change, transboundary aquifers, and the human right to water, the Convention needs to be updated. Hopefully, now with the Convention coming in force, possibly the Conference of the Parties will facilitate its further development.

**For more information about the UN Watercourses convention please read the March 2013 special issue of *Water International*: [www.tandfonline.com/toc/rwin20/38/2](http://www.tandfonline.com/toc/rwin20/38/2)**

**Or check out the UN Watercourses Convention Online User's Guide, co-authored by IWRA member Professor Alistair Rieu-Clarke: <http://dl.dropboxusercontent.com/u/391260/UN%20Watercourses%20Convention%20-%20User%27s%20Guide.pdf>**

**The International Water Law Project blog also offers perspectives on the Convention:**

**[www.internationalwaterlaw.org/blog/](http://www.internationalwaterlaw.org/blog/)**

**Finally, IWRA will be releasing a Policy Briefing and hosting a webinar on the Watercourses Convention in the near future, so stay tuned to [www.iwra.org](http://www.iwra.org) for more information!**

## NEWS news news news news



### IWRA'S FIRST WEBINAR!

IWRA successfully held its first webinar on May 12<sup>th</sup> based on the IWRA policy brief: *Can Water Supply, Sanitation and Hygiene be a Preventive Medicine?*

Moderated by IWRA Executive Director, Tom Soo, the expert panelists included Dr. V.S. Saravanan, Dr. Daphne Gondhalekar, Ms. Bukirwa Faridah and Prof. Peter Mollinga. The panelists discussed how increased investments in water supply, sanitation and hygiene in response to the Millennium Development Goals (MDG's) and other major international initiatives have failed to systematically address the threats of water-based infectious diseases. International, national and regional actors should therefore consider international goals, like the MGD's as 'super-norms' and should strive to contextualise these goals. This can be done by playing 'politics with principle' to achieve an integrated approach to water, sanitation and hygiene to more effectively reduce the threat from infectious diseases.

This policy brief is available at:  
[www.iwra.org/doc/Pbrief%20March%202014%20low.pdf](http://www.iwra.org/doc/Pbrief%20March%202014%20low.pdf)

You can download the webinar presentations at:  
[www.iwra.org/index.php?mainpage=223&page=264&subpage=](http://www.iwra.org/index.php?mainpage=223&page=264&subpage=)

### IWRA HOLDS BOARD MEETING IN ISTANBUL, TURKEY



The IWRA Executive Board held a very successful and fruitful board meeting and strategic workshop on 26 May in Istanbul with 16 of the 20 Board members in attendance, the highest participation rate in a very long time. The future of IWRA is in great hands!

### IWRA TO UPDATE ITS CONSTITUTION

At its meeting in May 2014, the IWRA Executive Board agreed to update the Association's constitution. The IWRA Constitution was drafted more than 40 years ago, and partially amended in 2009. Much has changed in the world (including email, internet, electronic publications, and virtual meetings); in the Association; and in what members expect from their professional associations over those 40 years. Given the various changes, the Board decided that the Association should consider drafting a new Constitution, rather than proposing piecemeal edits.

To update the constitution, the Executive Board established an ad-hoc committee to propose reforms of the IWRA Constitution and By-Laws. This ad-hoc committee includes the IWRA Secretary-General (Carl Bruch, who will chair the committee), Treasurer (Gabriel Eckstein), Vice Presidents (James Nickum, Lilian Del Castillo-Laborde, and Chan Ngai Weng) and one at-large Board member (Henning Bjornlund). The committee has started working on updating the Constitution. Members who would like to submit suggestions on elements to change or retain should email Carl Bruch ([bruch@eli.org](mailto:bruch@eli.org)). The committee requests all comments to be submitted by July 15 so that the committee can give due consideration to the comments.

The current Constitution and By-Laws are available at [www.iwra.org/index.php?mainpage=58&page=188&subpage](http://www.iwra.org/index.php?mainpage=58&page=188&subpage) Once the committee completes its work, it will submit the new draft Constitution to the Board for consideration. If the Board agrees with the proposed new Constitution – with or without amendments – the Constitution will then be presented to the membership for a vote.

### IWRA PAST PRESIDENT, PROF. JUN XIA AWARDED THE 2014 IAHS INTERNATIONAL HYDROLOGY PRIZE, THE VOLKER MEDAL



The Volker Medal is awarded annually to hydrologists who have made outstanding contributions to the science of Hydrology and applied their research and hydrological expertise to the benefit of society. It is awarded by the International Association of Hydrological Sciences (IAHS) with the support of the World Meteorological Organisation (WMO) and the United Nations Educational, Scientific and Cultural Organisation (UNESCO).

Prof. Xia is an outstanding scientist, whose innovative work on developing knowledge and strategies in hydrologic sciences and its application to water management and sustainable development in China and the world has made a major contribution to the international society. He also served on



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the Executive Board of IWRA as President (2010-2012), Vice President (2003-2006), and Director (2001-2003).

Prof. Xia Jun is the first to receive the prestigious Volker medal of IAHS/Unesco/WMO.



### DISTINGUISHED SCHOLAR AWARD

Chennat Gopalakrishnan, Fellow of the International Water Resources Association, has been named a Distinguished Scholar by the Western Agricultural Economics Association (WAEA).

The award grants the highest recognition to WAEA members making an enduring contribution over their career to agricultural or other type of applied, resource, and/or environmental economics in the Western states and the WAEA. Nominees must have demonstrated excellence in two or more of the following areas of performance: basic and applied economics research; integration of knowledge (textbook writing or synthetic review); service or outreach drawing on economic expertise; teaching; and administration or service. Gopalakrishnan will receive the award at the annual meeting of WAEA in Colorado Springs in June, 2014.

### PRECIPITATION DATA AVAILABLE FROM THE CENTER FOR HYDROMETEOROLOGY AND REMOTE SENSING (CHRS)



#### PERSIANN-CDR

The Center for Hydrometeorology and Remote Sensing (CHRS) at the University of California, Irvine, provides real time high resolution precipitation data through collaboration with UNESCO-IHP. In addition, CHRS has developed a global long term climatological data set (PERSIANN-CDR) that is available to the public. The Precipitation Estimation from Remotely Sensed Information using Artificial Neural Networks - Cloud Classification System (PERSIANN-CCS) with spatial resolution of 0.04 degree and time latency of about 1 hour provides a useful tool for monitoring precipitation and flood estimation, globally.

**PERSIANN-CCS data are publically available from the G-WADI PERSIANN-CCS GeoServer (<http://hydri.eng.uci.edu/gwadi>)**

#### PERSIANN-CDR

The PERSIANN-CDR precipitation product, which is now operational and publicly available at the National Oceanic and Atmospheric Administration (NOAA) National Climatic Data Center (NCDC) via [www.ncdc.noaa.gov/cdr/operationalcds.html](http://www.ncdc.noaa.gov/cdr/operationalcds.html) provides consistent, long-term (1983 to 2012), near-global (60S-N), and high-resolution (0.25 degree) daily precipitation data. This unique satellite based precipitation data is aimed at addressing the need for studying the variability and trends in global precipitation over time.

### INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT CELEBRATES ITS 30<sup>TH</sup> ANNIVERSARY



Former IWRA presidents and editors of the International Journal of Water Resources Development Prof. Asit Biswas and Dr. Cecilia Tortajada celebrated the 30<sup>th</sup> anniversary of the journal at the Singapore Water Week earlier this month, alongside IWRA President Prof. Dogan Altinbilek. Many congratulations on 30 years of great water resources publications!



### NEW INTERN AT IWRA EXECUTIVE OFFICE

IWRA is pleased to welcome Ms. Katherine Brownson as a new intern at the IWRA Executive Office.

Katherine will be working as an intern with at the IWRA executive office for three months. She is currently pursuing a Ph.D. at the University of Georgia (USA) in Integrative Conservation and Ecology. Her Ph.D. focus will be assessing the efficacy of Payment for Watershed Services programs in terms of their social and ecological outcomes. At IWRA, she will work on completing a report on strengthening the Science-Policy Interface (SPI) in international water management and assist with the development of a Global Compendium on Water Quality Guidelines for Different Uses.

**To contact Katherine: [katieb42@uga.edu](mailto:katieb42@uga.edu)**

## ■ LATEST ACTIVITIES

### International Seminar “Water’s new borders: subterranean water, climate and security”

PARIS, FRANCE, 18 MARCH 2014

Les nouvelles  
frontières  
de l’eau

Eaux souterraines,  
climat et sécurité



18 mars 2014  
9h00 -12h45

**CSFRS**  
Conseil Supérieur de la Formation  
et de la Recherche Stratégique

**FONDATION  
pour la RECHERCHE  
STRATÉGIQUE**

Ms. Raya Marina Stephan, Chair of the Publications committee on the IWRA Executive Board, gave a presentation on “Invisible water borders: the geopolitics of cross-border subterranean water” at this international seminar in Paris on 18 March. This event was organised by the “Conseil Supérieur de la Formation et de la Recherche Stratégique (CSFRS)” and the “Fondation pour la recherche stratégique (FRS)”.

**The programme and an extract of this study can be found at this link (in French):**

[www.frstrategie.org/barreFRS/evenements/2014/2014-03-18/](http://www.frstrategie.org/barreFRS/evenements/2014/2014-03-18/)

### International Water Summit

BAKU, AZERBAIJAN, 10-12 APRIL 2014



IWRA took part in the 2<sup>nd</sup> Caspian International Aqua Technologies Exhibition, CATEC 2014. IWRA President, Prof. Dogan Altinbilek gave a plenary speech at the opening session. IWRA also organised a special session on: Water Quality, a Constraint and an Opportunity for Development. CATEC is the only specialised event in the Caspian region demonstrating progress in the field of aqua technologies and 79 companies from 24 countries participated in this year’s event.

### 3<sup>rd</sup> meeting of the OECD Water Governance Initiative

MADRID, SPAIN, 28-29 APRIL 2014



Tom Soo, IWRA’s Executive Director, represented the association at the 3<sup>rd</sup> meeting of the OECD Water Governance Initiative. The meeting’s agenda included, amongst other topics, discussions on recent developments in the Global Water Agenda and lessons from regional initiatives in support of better water governance, particularly in Latin America, the Middle East, North Africa and Sub-Saharan Africa.



**ISTANBUL  
INTERNATIONAL  
WATER FORUM**

### 3<sup>rd</sup> Istanbul International Water Forum

ISTANBUL, TURKEY, 27-29TH MAY 2014

IWRA was a major partner of the 3<sup>rd</sup> Istanbul International Water Forum and the IWRA Executive Board made strong contributions to the event. The forum was focused on the theme: “Water Security and Legal Aspects of Water: confronting risks and challenges, seizing opportunities”. IWRA also held two side events entitled “Towards a Global Compendium on Water Quality Guidelines” and “Building a Science-Policy Interface: Best Practice and Policies” and hosted a booth in the conference centre. Considering that the Forum welcomed water professionals, academics, scientists, governmental institutions, international organisations, NGOs and the private business sectors, it was a valuable networking opportunity for IWRA.

Moving from the United Nations Millennium Development Goals to Sustainable Development Goals, the 3<sup>rd</sup> Istanbul International Water Forum addressed responses to the issues of global water security and discussed the tools and mecha-



## ■ LATEST ACTIVITIES



nisms to confront related risks and challenges. The Forum also dealt with legal water issues such as right to water, international water law, national water laws and legal aspects on protection of water resources. It was perhaps the first time that international water law has been profiled as a key focus point of such a significant international event.

tive water solutions by identifying practical methodologies to address the world's most pressing water issues.

IWRA President Prof. Dogan Altinbilek, in his additional capacity as Vice President of the World Water Council participated in a session on Water & Green Growth and a CNBC TV brainstorming session on Energy Futures.

IWRA, along with the Third World Centre for Water Management, the Lee Kuan Yew School of Public Policy, and the Taylor & Francis Group also co-organised a session at SIWW on the 'Future of the World's Waters beyond 2030' on 2 June.

Co-chairs of the session were Prof. Dogan Altinbilek and Prof. Asit K. Biswas, past-President of IWRA, Distinguished Visiting Professor at the Lee Kuan Yew School of Public Policy in Singapore, and Editor of the International Journal of Water Resources Development. The rapporteur to the session was Dr. Cecilia Tortajada, past-President of IWRA.

The panel members for this session included:

- Dr. James Horne, Principal, James Horne and Associates; Visiting Fellow, College of Asia and the Pacific, Australian National University, former Deputy Secretary, Australian Department of Environment.
- Dr. David Molden, Director General, International Centre for Integrated Mountain Development.
- Mr. Herbert Oberhaensli, Vice President, Nestlé.
- Dr. Michael Rouse, Independent International Water Adviser and Distinguished Research Associate, University of Oxford.

Discussions focused on water management, policy and governance issues towards 2030. Over the next 6-8 months, several article journals, opinion pieces in major international and national newspapers and a definitive text based in these discussions will be published.

**More information on SIWW at: [www.siww.com.sg](http://www.siww.com.sg)**



### Singapore International Water Week 2014

REPUBLIC OF SINGAPORE,  
 1-5 JUNE 2014

Marking its sixth year in 2014, Singapore International Water Week (SIWW) gathered global water leaders and practitioners from both public and private sectors to engage in discussion and debate, presenting valuable opportunities for participants to network and showcase leading-edge technologies and best practices. This occurred alongside the co-creation of innova-



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## ■ UPCOMING EVENTS



### Latin America Water Week

MEXICO CITY, MEXICO, 23-27 JUNE 2014

Latin America Water Week is a platform for the exchange of experiences and practices between the scientific, business, political and civic communities of South and Central America, focused on the water challenges and its impact on the environment, energy, health, climate, economy and society.

IWRA's president, Prof. Dogan Altinbilek will be providing a keynote for the panel session focused on "Water for Sustainability: The harmonization of human beings and nature". The objectives of this panel are to:

- Introduce examples in Latin America where sustainable water management taking into consideration both sustainable livelihoods and ecosystem goods and services is performed.
- Promote dialogue and discussion of the major challenges facing the harmonization of water uses, sustainable livelihoods and maintaining ecosystem goods and services for the quality of life of human beings.
- Suggest innovative solutions with solid water governance structures involving both sustainable livelihoods and ecosystem goods and services.

### 52<sup>nd</sup> Board of Governors Meeting, World Water Council

MEXICO CITY, MEXICO, 25-26 JUNE 2014



IWRA will participate in the 52<sup>nd</sup> meeting of the Board of Governors of the World Water Council.



### 22<sup>nd</sup> International Commission on Irrigation and Drainage (ICID) Congress and the 65<sup>th</sup> IEC Meeting

ICID•CIID

Congress and the 65<sup>th</sup> IEC Meeting

GWANGJU, REPUBLIC OF KOREA, 14-20 SEPTEMBER 2014

The 22<sup>nd</sup> ICID Congress and the 65<sup>th</sup> IEC Meeting will address the theme: "Securing Water for Food and Rural Community under Climate Change" and will be convened at the Kimdaejung Convention Center, Gwangju, Korea.

More information at: [www.icid2014.org](http://www.icid2014.org)



### World Water Week

STOCKHOLM, SWEDEN,

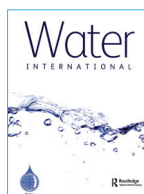
31 AUGUST- 5 SEPTEMBER 2014

World Water Week is hosted and organised by the Stockholm International Water Institute (SIWI) and takes place in Stockholm. The World Water Week has been the annual focal point for the globe's water issues since 1991.

Every year, SIWI provides a platform for over 200 collaborating organisations to convene events at the World Water Week. In addition, individuals from around the globe present their findings at the scientific workshops. Each year the World Water Week addresses a particular theme to enable a deeper examination of a specific water-related topic. While not all events during the week relate to the overall theme, the workshops driven by the Scientific Programme Committee and many seminars and side events focus on various aspects of the theme.

In 2014, the World Water Week in Stockholm has a theme of "Energy and Water".

## ■ PUBLICATIONS



### **WATER INTERNATIONAL VOLUME 39, ISSUE 3**

#### **Viewpoint**

- Minute 319: a cooperative approach to Mexico–US hydro-relations on the Colorado River.

*Regina M. Buono & Gabriel Eckstein* - PAGES 263-276

#### **Review article**

- Water, sanitation and hygiene and indigenous peoples: a review of the literature. *Alejandro Jiménez, Moa Cortobius & Marianne Kjellén* - PAGES 277-293

#### **Articles**

- Development aid and access to water and sanitation in Sub-Saharan Africa. *Adeleke O. Salami, Marco Stampini, Abdul B. Kamara, Caroline A. Sullivan & Regassa Namara* PAGES 294-314

- International water law and supporting water management principles in the development of a model transboundary agreement between riparians in international river basins. *Malcolm J. Gander* - PAGES 315-332

- Water governance and scalar politics across multiple-boundary river basins: states, catchments and regional powers in the Iberian Peninsula. *Leandro Del Moral & Afonso Do Ó* - PAGES 333-347

- Water distribution systems and on-farm irrigation practices: limitations and consequences for Afghanistan's agricultural productivity. *S. Alan Walters & John W. Groninger* - PAGES 348-359

- Satellite precipitation products and hydrologic applications. *Kenneth J. Tobin & Marvin E. Bennett* - PAGES 360-380

#### **Technical Note**

- Impact of sedimentation on groundwater recharge at Sahalanowt Dam, Salalah, Oman.

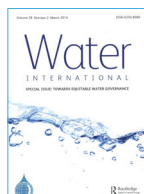
*S. A. Prathapar & Abdulla Ali Bawain* - PAGES 381-393

#### **Book reviews**

- Ralph Pentland and Chris Wood, *Down the drain: how we are failing to protect our water resources* - *David B. Brooks* PAGES 394-397

- Flavia Rocha Loures and Alistair Rieu-Clarke (eds), *The UN Watercourses Convention in force: strengthening international law for transboundary water management*.

*Stefano Burchi* - PAGES 397-400



### **WATER INTERNATIONAL VOLUME 39, ISSUE 2**

#### **SPECIAL ISSUE: TOWARDS EQUITABLE WATER GOVERNANCE**

Guest editors : *Ben Crow, Flora Lu and Constanza Ocampo-Raeder*

#### **Introduction**

- Equitable water governance: future directions in the understanding and analysis of water inequities in the global South. *Flora Lu, Constanza Ocampo-Raeder & Ben Crow* PAGES 129-142

#### **Articles**

- Defining, researching and struggling for water justice: some conceptual building blocks for research and action *Margreet Z. Zwarteveen & Rutgerd Boelens* - PAGES 143-158

- What is water equity? The unfortunate consequences of a global focus on 'drinking water'. *Matthew Goff & Ben Crow* PAGES 159-171

- Examining the emerging role of groundwater in water inequity in India. *Veena Srinivasan & Seema Kulkarni* PAGES 172-186

- The colonial roots of inequality: access to water in urban East Africa. *Brian Dill & Ben Crow* - PAGES 187-200

- Popular participation, equity, and co-production of water and sanitation services in Caracas, Venezuela. *Rebecca McMillan, Susan Spronk & Calais Caswell* PAGES 201-215

- Creating equitable water institutions on disputed land: a Honduran case study. *Catherine M. Tucker* - PAGES 216-232

#### **Review Article**

- What kind of governance for what kind of equity? Towards a theorization of justice in water governance. *Tom Perreault* PAGES 233-245

#### **Viewpoints**

- Santa Cruz Declaration on the Global Water Crisis PAGES 246-261



## MEMBERS PUBLICATIONS



### **International Relations of China**

Editors: *Shaun Breslin, Carla Freeman and Simon Shen*  
SAGE PUBLICATIONS, 2014

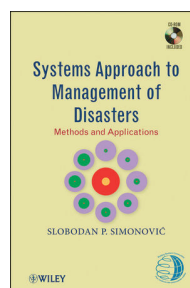
To say that the rise of China has captured the popular attention is something of an understatement. Hardly a day goes by without the publication of a new study that confidently predicts China's future – be that a focus on internal challenges and potential collapse, or China's rise to inevitable global dominance. The aim of this eight-volume collection is to provide, in a single resource, an overarching view of the totality of China's place in the world.

In this new major work, the international team of editors have created a carefully balanced collection of seminal publications from leading scholars from both inside and outside of China, introduced by a newly-written chapter contextualising the diverse perspectives on China's changing global role they represent.

- VOLUME ONE: Theoretical Perspectives
- VOLUME TWO: Making Foreign Policy
- VOLUME THREE: China and "Traditional" Partners – the Developed World and (South)East Asia
- VOLUME FOUR: China and the Developing World
- VOLUME FIVE: National Security and Territorial Issues
- VOLUME SIX: China and the Global Economy
- VOLUME SEVEN: Global Governance
- VOLUME EIGHT: China Challenges and Global Issues

#### **More information at:**

[www.uk.sagepub.com/booksProdDesc.nav?prodId=Book241110](http://www.uk.sagepub.com/booksProdDesc.nav?prodId=Book241110)



### **Systems Approach to Management of Disasters: Methods and Application**

By *Slobodan P. Simonovic*

Translated into Chinese by *Prof. Han Chuan-feng* from the Tongji University in Shanghai

ORIGINAL PUBLICATION: JOHN WILEY, 2011

CHINESE LANGUAGE TRANSLATION: SCIENCE PRESS, 2013

The main goal of this text is to introduce the systems approach to the disaster management community as an alternative approach that can provide support for interdisciplinary activities involved in the management of disasters. The systems approach draws on the fields of operations research and economics to create skills in solving complex management problems.

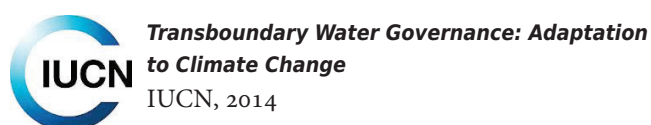
The text is organised into four parts. Part I provides an introductory discussion of disaster management including an overview of the main terms used. Part II is devoted to the introduction of systems theory, mathematical formalisation and classification of methods. The material presented in this section should be of practical relevance during the process of selecting an appropriate tool for the solution of a problem. Part III is technical in nature, providing a simulation approach and a detailed description of system dynamics simulation. This section details two areas of application: flood evacuation simulation, and disaster risk assessment. Part IV ends with a chapter covering steps to improve disaster management. Parts of the book can also be used as a tool for specialised short courses for practitioners.

#### **For more information:**

[eu.wiley.com/WileyCDA/WileyTitle/productCd-0470528095.html#](http://eu.wiley.com/WileyCDA/WileyTitle/productCd-0470528095.html#)

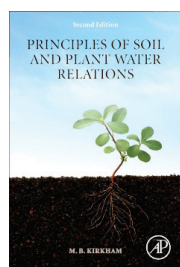
#### **Chinese translation available at:**

[www.dangdang.com](http://www.dangdang.com), [www.jd.com](http://www.jd.com) and [www.amazon.cn](http://www.amazon.cn)



This forthcoming book from the IUCN features a chapter co-authored by IWRA's Gabriel Eckstein on cooperative transboundary mechanisms.

## MEMBERS PUBLICATIONS



**Principles of Soil and Plant Water Relations,  
 Second Edition**

By M.B. Kirkham  
 ELSEVIER, 2014

Principles of Soil and Plant Water Relations, 2<sup>e</sup> describes the principles of water relations within soils, followed by the uptake of water and its subsequent movement throughout and from the plant body. This is presented as a progressive series of physical and biological interrelations, even though each topic is treated in detail on its own. The book also describes equipment used to measure water in the soil-plant-atmosphere system. At the end of each chapter is a biography of a scientist whose principles are discussed in the chapter. In addition to new information on the concept of celestial time, this new edition also includes new chapters on methods to determine sap flow in plants and dual-probe heat-pulse technique to monitor water in the root zone.

**For more information:**

[store.elsevier.com/Principles-of-Soil-and-Plant-Water-Relations/M\\_B\\_Kirkham/isbn-9780124200227/](http://store.elsevier.com/Principles-of-Soil-and-Plant-Water-Relations/M_B_Kirkham/isbn-9780124200227/)



**The Law of Transboundary Aquifers: Many ways of going forward, but only one way of standing still**

By Gabriel Eckstein and Francesco Sindico

REVIEW OF EUROPEAN, COMPARATIVE & INTERNATIONAL ENVIRONMENTAL LAW, VOL. 23(1), PP. 32-42 (2014).

The international community has been considering international legal norms and policies for the management of transboundary aquifers for more than ten years. In 2008, the International Law Commission provided a framework with the adoption of the Draft Articles on the Law of Transboundary Aquifers, which are now formally annexed to a United Nations General Assembly (UNGA) Resolution. Since 2008,

the topic of the law of transboundary aquifers has thrice been placed on the agenda of the UNGA Sixth Committee with a specific mandate to discuss the future form of the Draft Articles. This article explores the options before the international community regarding the future form of the Draft Articles and considers the possible advantages and disadvantages of each option. The article also discusses the extent to which the actual form of the Draft Articles matters in itself, or whether their impact ultimately will depend on other factors.



**CALL FOR PAPERS 2014:**

**Journal of Natural Resources Policy Research**

• **Aims and Scope**

The journal addresses a broad range of natural resource fields including implications and perspectives of natural resource allocation, planning and management. We are looking for papers based on original research focusing on policy, water, minerals, energy, fisheries and forestry in a synthesising fashion, rather than stand-alone specialty areas. The journal also publishes papers on the natural resource implications of climate change, natural disasters and biodiversity loss, among others.

• **Suggested Topics**

A sampling of suggested topics follows:

1. Natural resource policy broadly defined - scope and dimensions
2. Holistic vs. sector-specific approach
3. Policy framework - components, sequencing, linkages, integration, robustness
4. Conceptual/theoretical paradigms - rationale and evolutionary perspectives
5. Country studies, case studies, case histories, survey papers
6. Natural resource policy modeling
7. Natural resource institutions - design and implementation
8. Natural resource policy crafting - ownership, allocation, planning, development, markets and pricing, conservation
9. Natural resources and political externalities; public choice and rent-seeking
10. Natural resource use and environmental quality
11. Public-private partnership issues
12. Natural resources and institutional entropy

13. Transboundary, transnational and transgenic resources
14. Natural resource policy - efficiency, equity and sustainability
15. Trigger issues - climate change, natural disasters, human disasters, deforestation, endangered species, invasive species and environmental pollution.

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We are also looking for special issue proposals on topics in the natural resources policy field that are in the forefront of current discourse, such as integrated disaster risk management, alternative energy sources with special focus on bio-energy, water privatisation, climate change, and natural resource institutions. The proposal should be self-contained with a clear and concise discussion of the importance of the proposed topic, an overview of the authors and their papers and how it will generate new knowledge and advance the frontiers of discourse in the policy field. Papers previously presented at major conferences as part of thematic sessions, but not previously published elsewhere, can be included, with the understanding that if the proposal is accepted, the papers will have to undergo peer review to be coordinated by the Guest Editor submitting the proposal. The proposal should be limited to a maximum of 1,000 words. You could expect to receive a decision in about two to three weeks.

#### • Forthcoming Special Issue, January 2015

Designing Water Disaster Management Policies: Theory and Empirics

Guest Editor: Chennat Gopalakrishnan

#### • Symposium on Elinor Ostrom

We are pleased to announce that our October issue will be devoted to a symposium on Elinor Ostrom. Specifically, it will revisit Ostrom's classic paper, "Collective Action and Evolution of Social Norms", originally published in the *Journal of Economic Perspectives*, 14 (3) (Summer 2000): 137-158. The symposium will feature original contributions from prominent Ostrom scholars, among them, Matthew Auer, Paul Dragos Aligica, Filippo Sabetti, Lisa Blomgren Amsler, Shane Day, Tom Evans, Thomas Lyon, Larry Schroeder and Rick Wilson.

#### Submit your papers online

Please prepare your papers in accordance with the guidelines posted at [www.tandfonline.com/jnrpr](http://www.tandfonline.com/jnrpr) under Instructions for authors.

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## World Water Congress XV CALL FOR ABSTRACTS



The International Water Resources Association (IWRA) invites you to participate at the XV<sup>th</sup> World Water Congress to be held from 25 to 29 May 2015 in Edinburgh, Scotland.

The XV<sup>th</sup> World Water Congress will provide a platform for open discussions and debates among scientists, practitioners and policy makers from both developed and developing countries from different disciplines and sectors.

#### Theme:

Global Water, a resource for development:  
Opportunities, challenges and constraints

#### Sub-themes:

- Global challenges for water governance
- Revisiting water paradigms
- Non-conventional sources of water
- Valuing water: monetary and non-monetary dimensions
- Water allocation among competing uses and users
- Management of water resources
- Key vulnerabilities and risks
- Transboundary river basins and shared aquifers - the end of the conflict discourse?

To submit an abstract or for more information, visit the website:

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