



# IWRA Update

Newsletter of the International Water Resources Association

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## MESSAGE FROM THE PRESIDENT

Dear IWRA friends, members and colleagues,



I am pleased to close 2013 with you. It was a special year as, on the one hand, we welcomed a new Executive Board and started a new three year mandate. On the other hand, the International Year of Water Cooperation was a good reason to strengthen our goal and galvanise our activities.

The association has always had a strong presence at international conferences. During this year, we were well represented at the World Water Week in Stockholm, the ICID 1<sup>st</sup> World Irrigation Forum, and the International Symposium on Ecohydrology and Water Security in Wuhan China, among many others. We know that our members also attended countless conferences around the world and represented the association. Most recently, I participated as a high level panelist on Green Growth at the Budapest Water Summit held in the beautiful country of Hungary. During this occasion, I was honoured to be received by the President of Hungary, H.E. Mr János Áder and H.R.H. Prince Khaled bin Sultan bin Abdulaziz of Saudi Arabia, Chairman of the Prince Sultan Bin Abdulaziz International Prize for Water. In addition, IWRA has been continually contributing to the World Water Council's meetings and preparations for the 7<sup>th</sup> World Water Forum in Korea in 2015.

Throughout 2014 new projects were launched at the Executive Office dealing with the science-policy interface in the water field and an international reference on water quality guidelines for different uses. In November, IWRA joined the OECD Water Governance Initiative at its second meeting in Paris. A large contingent of IWRA members attended the meeting and worked on various topics ranging from stakeholder engagement to basin level governance. The meeting was attended by IWRA Executive Director Tom Soo, and also IWRA Members Alice Aureli of UNESCO-IHP, Stefano Burchi of AIDA, Jennifer McKay from Centre for Comparative Water Policies and Laws, and the Australian River Institute's Poh Ling Tan.

On the publications side, James Nickum and Phillipus Wester have again been busy working on Water International. Most

recently a new special issue has been published that covers water supply and sanitation as "preventive medicine" and the challenges for rapidly growing economies. They also have a new regular issues featuring articles on issues such as the changing nature of transboundary water agreements and integrated river basin planning and management. In celebration of the International Year of Water Cooperation, IWRA Publications Committee Chair, Raya Stephan co-authored an article with Tom Soo on "International cooperation on water sciences and research" which appeared in the UNESCO's recent publication called FREEFLOW: Reaching Water Security through Cooperation.

This newsletter also brings us news of the articles and books published by our members on topics such as sustainability of water resources and the non-economic value in water resources. Next year we are looking forward to key events such as the 3<sup>rd</sup> Istanbul International Water Forum in April. We shall be mobilised around the key theme of 2014's World Water Day: Water and Energy. We shall be contributing strongly to the dialogue regarding the role of water in the UN Sustainable Development Goals. We shall also be continuing our existing projects on various themes such as Water Governance, Water Quality, the Science-Policy Interface and Water Security. I look forward to welcoming your contributions to these processes as well as working with you to develop new ones

Finally, we will launch into high gear planning for the XVth World Water Congress, 25 - 29<sup>th</sup> May 2015 in Edinburgh, Scotland. The main theme is of particular pertinence as we move into a more populous and prosperous world: Global Water, a resource for development. I would again like to urge that if you or your institution would like to participate in preparing for the Congress to please contact the Executive Office.

As always, the work of the association would not happen without our members dynamism and strong support. Your dedication is essential for setting the direction and implement all the association activities.

This was an impressive year for the association, but we look forward to making 2014 even greater with your continued help.

With warm regards and best wishes for the festive season!

Prof. Dogan Altinbilek  
President, IWRA

## NEWS news news news news

### JAPANESE SOCIETY FOR THE PROMOTION OF SCIENCE FELLOWSHIP

**Emmanuel M. Akpabio**, fellow and senior researcher at Zentrum für Entwicklungsforschung (Center for Development Research) in Bonn, Germany and a Director on the IWRA Executive Board, has been awarded a Japanese Society for the Promotion of Science (JSPS) fellowship for two years to enable him conduct a research project entitled, 'Environmental health matters from a cultural perspective: a study of Nigerians in the United Kingdom'. He is being hosted by Professor Kaoru Takara at the Disaster Prevention Research Institute (DPRI), Kyoto University, Kyoto, Japan.

### THE IRVIN YOUNGBERG AWARD FOR APPLIED SCIENCES

**Mary Beth Kirkham**, Professor of Agronomy, has received one of the Higuchi-KU Endowment Research Achievement Awards – the Irvin Youngberg Award for Applied Sciences. The awards recognize the exceptional long-term research accomplishments of faculty at Kansas Board of Regents universities. Kirkham is an international authority on the plant-water relations of winter wheat and the uptake of heavy metals by crops grown on polluted soil. She was the first to document the effects of elevated levels of carbon dioxide on crops grown under semi-arid conditions.

### WATER GOVERNANCE PANEL, LAW AND JUSTICE DEVELOPMENT WEEK, WORLD BANK

WASHINGTON, NOVEMBER 18-22 NOVEMBER 2013

**Carl Bruch**, Secretary General on the IWRA Board and **Renee Martin-Nagle**, alongside Stefano Burchi (AIDA), Jane Cohen (University of Texas School of Law) and Paul Reig (World Resources Institute) served on a water governance panel at the Law and Justice Development Week at the World Bank. Renee moderated the panel and Carl discussed what adaptation meant for water laws as well as limitations in water laws that might make adaptation more difficult.

**More information at:** <http://web.worldbank.org/WBSITE/EXTERNAL/TOPICS/EXTLAWJUSTICE/0,,contentMDK:23384728~menuPK:2644004~pagePK:64020865~piPK:51164185~theSitePK:445634,00.html>

### NEW INTERN AT THE IWRA EXECUTIVE OFFICE



IWRA is very pleased to welcome **Scott McKenzie** for the next six months! Scott has a Bachelors of Arts in Environmental Studies, Philosophy, and American Studies from the University of Kansas and a Juris Doctorate from the University of Iowa. At IWRA he is working on a mapping exercise regarding the science-policy interface applied to climate change impacts on water resources and framework for a Global Compendium on Water Quality Guidelines.

**To contact Scott:** [office@iwra.org](mailto:office@iwra.org)

## LATEST ACTIVITIES

### 2013 Budapest Water Summit

BUDAPEST, HUNGARY, 8-11 OCTOBER 2013



IWRA President Doğan Altınbilek and the Hungarian President H.E. János Áder



© Pierre-Alain Roche

Situated in Hungary's vibrant capital the Budapest Water Summit defined the role of water and sanitation in the Global Sustainable Development Agenda and prepared water-related goals for the post+20 development agenda. IWRA was very active during the summit with IWRA President Doğan Altınbilek sitting on a high level panel discussing green growth, moderated by our Executive Director Tom Soo. IWRA board member, Patrick Lavarde also moderated a session and IWRA Fellow Prof. Slobodan P. Simonovic gave a keynote on "A systems approach to modelling the water-energy-nexus". The Foreign Minister of Hungary János Martonyi acknowledged IWRA's involvement and applauded the Budapest Water Statement's role in contributing to a peaceful, water-secure world.

**More information at:** [www.budapestwatersummit.hu/](http://www.budapestwatersummit.hu/)

### IWRA and the International Cooperation on Water Sciences and Research

In celebration of the International Year of Water Cooperation, Raya Marina Stephan, Chair of the IWRA Publication Committee and Tom Soo, Executive Director co-authored an article entitled «International cooperation on water sciences and research» published in a recent book edited by UNESCO: «free flow: Reaching Water Security through Cooperation».

**You can access the entire book electronically at**

<http://unesdoc.unesco.org/images/0022/002228/222893e.pdf>

## LATEST ACTIVITIES

### UNESCO International Conference: Climate Change Impacts on Water Resources

BELGRADE, SERBIA, 17-18 OCTOBER 2013

Hosted by the UNESCO Category II Centre for Water and Adaptation to Climate Change this conference aimed to provide for a better understanding of the climate change impacts on water resources and recommendations for various adaptation measures. IWRA Fellow Prof. Slobodan P. Simonovic, was a keynote speaker on the topic 'Global Water Resources Modeling with an Integrated Model of the Social-Economic-Climate System.'

**More information at:** [www.jcarni.org/en/activities/conferences/ciwr.html](http://www.jcarni.org/en/activities/conferences/ciwr.html)

### 2<sup>nd</sup> Meeting of the OECD Initiative on Water Governance

PARIS, FRANCE, 7-8 NOVEMBER 2013



This meeting was instrumental in forming initial working groups and discussing the preliminary findings of the OECD report "Water Governance in the Netherlands".

Tom Soo, Executive Director, attended this two-day meeting on behalf of IWRA along with several IWRA members: Alice Aureli of UNESCO-IHP, Stefano Burchi of AIDA, Jennifer McKay from Centre for Comparative Water Policies and Laws, and the Australian River Institute's Poh Ling Tan. **More information at:** [www.oecd.org/env/watergovernanceprogramme.htm](http://www.oecd.org/env/watergovernanceprogramme.htm)

### International Symposium on Ecohydrology and Water Security

WUHAN AND YICHANG, CHINA, 18-22 OCTOBER 2013



The International Symposium on Ecohydrology and Water Security was held in October in Wuhan and Yichang and was

sponsored by Wuhan University, IWRA, IAHS, and GWSP, and co-sponsored by the Research Institute of Water Security (RIWS), and China Three Gorges University. Prof. Jun Xia, Dean of the RIWS and former IWRA President, presided over the opening ceremony.

The Symposium had four topics: water cycle and eco-hydrological processes under changing environment, the mechanism of flood and drought disasters and the response of ecosystem, water quality management and pollution control, and water security for ecological civilization construction and governance. Over 80 academic representatives attended the meeting, while 35 experts gave presentations.

In addition to Prof. Xia's participation, IWRA Executive Board members' attendance included Ngai Weng Chan and James E. Nickum (Vice-Presidents) alongside Henning Bjornlund and Naim Haie (Directors).

### Water for Food Security Challenges for Pakistan

ISLAMABAD, PAKISTAN, 6 DECEMBER 2013

The International Water Management Institute (IWMI) and the International Food Policy Research Institute (IFPRI) held a one-day seminar on Water for Food Security Challenges for Pakistan under the auspices of the CGIAR Research Program on Water, Land and Ecosystems at the Islamabad Marriott Hotel, Pakistan, in conjunction with the publication of the *Water International* Vol 38, Issue 5 of 2013. Special Issue authors presented their work and interacted with over 50 Pakistani water policymakers and researchers, with 100 hardcopies of the journal handed out.

### IWRA World Water Congress

EDINBURGH, SCOTLAND, 25 - 29 MAY 2015

«GLOBAL WATER, A RESOURCE FOR DEVELOPMENT:  
OPPORTUNITIES, CHALLENGES AND CONSTRAINTS»

Work continues on preparations for the Congress as 2015 rapidly approaches.

#### Interested in playing a role at the Congress?

The IWRA World Water Congress is interested in your participation either through the organisation of special sessions, participation in scientific presentations, posters and articles, exhibition spaces, sponsoring and promotion, or side events.

We encourage you to express your interest in participating in the Congress and/or the preparatory process by getting in contact the IWRA Executive Office: [office@iwra.org](mailto:office@iwra.org)

**More information at:** [www.worldwatercongress.com](http://www.worldwatercongress.com)

## UPCOMING EVENTS

### International Water Summit

ABU DHABI, 20-22 JANUARY 2014

This Summit presents a global platform for promoting water sustainability in arid regions with the overall aim of accelerating the development of new and sustainable strategies and technologies. Held under the patronage of H.H. General Sheikh Mohammed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces, hosted by Masdar and organised by Reed Exhibitions the summit promises to foster innovation, best practice and collaboration to aid solutions to water scarcity.

**More information at:**

<http://iwsabudhabi.com/Portal/about-iws/overview.aspx>

### 7<sup>th</sup> World Water Forum: 2<sup>nd</sup> Stakeholders' Consultation Meeting

GYEONGJU, REPUBLIC OF KOREA, 27 AND 28 FEBRUARY 2014

This meeting for the 7<sup>th</sup> World Water Forum will be held on 27 and 28 February 2014 in Gyeongju, Republic of Korea. The event will serve to delve deeper into the Thematic Framework and its Action Goals and Action Tools, to develop Implementation Roadmaps that will lead to a Global Action Agenda. It shall be attended by various IWRA Board Members including President Dogan Altibilek, Vice-President Jun Xia, Director Kun Yuen Han, and Executive Director Tom Soo.

**More information at:** <http://worldwaterforum7.org/en>

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

ISTANBUL, TURKEY, 27-29<sup>TH</sup> MAY, 2014

This Forum will be hosted by the Ministry of Forestry and Water Affairs of Turkey. The Forum will primarily focus on the subjects of water security and international water law. Many IWRA Board Members shall be attending this significant meeting. The organisers are also calling for applications for side-events (due by 17 January 2014).

**More information at:** <http://suen.gov.tr/en/news/the-3rd-istanbul-international-water-forum/18>



### Singapore International Water Week (SIWW) 2014

SINGAPORE, REPUBLIC OF SINGAPORE, 1-5 JUNE 2014

Marking its sixth year in 2014, SIWW gathers 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 occurs alongside the co-creation of innovative water solutions by identifying practical methodologies to address the world's most pressing water issues. IWRA was a supporting organiser of Singapore International Water Week 2012.

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

### International Conference and Field Seminar Karst Without Boundaries

TREBINJE & DUBROVNIK, CROATIA, 11 - 15 JUNE 2014

The purpose of the conference is to enhance cooperation between international karst scientists, engineers and DIKTAS project stakeholders, and to provide the opportunity for exchange of an experiences and ideas relevant for karst aquifers throughout the world. Abstract submission is currently open until 1 January 2014.

**More information at:**

<http://www.karstwithoutboundaries2014.org/en>



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

GWANGJU, 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.

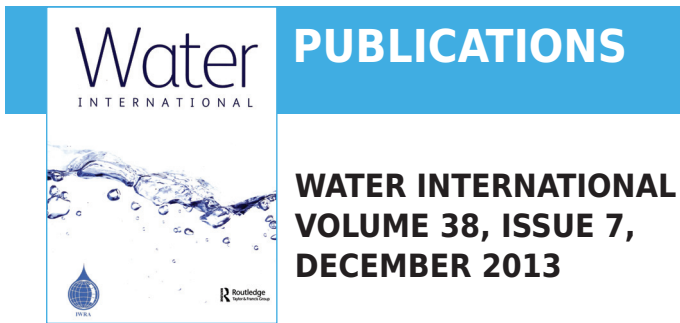
**More information at:** [www.icid2014.org](http://www.icid2014.org)

## PUBLICATIONS

### Upcoming Water International Special issues

Two special issues of the journal are scheduled in the first half of 2014:

- Multi-Scalar and Cross-Disciplinary Approaches towards Equitable Water Governance (*scheduled for March 2014*)  
Guest Editors: Ben Crow, Flora Lu, Constanza Ocampo-Raeder
- Water Commons: Devising Diverse Solutions (*scheduled for May 2014*). Guest Editors: Everisto Mapedza, Bryan Bruns and Mark Giordano



## PUBLICATIONS

### WATER INTERNATIONAL VOLUME 38, ISSUE 7, DECEMBER 2013

#### SPECIAL ISSUE:

WATER SUPPLY AND SANITATION AS 'PREVENTIVE MEDICINE':  
CHALLENGES IN RAPIDLY GROWING ECONOMIES

#### Editorial

- Water supply and sanitation as a 'preventive medicine':  
challenges in rapidly growing economies  
*V.S. Saravanan & Daphne Gondhalekar* - PAGES 867-874

#### Urban Cases

- Urbanizing diseases: contested institutional terrain of  
water- and vector-borne diseases in Ahmedabad, India  
*V.S. Saravanan* - PAGES 875-887
- Water, sanitation and health: an intra-urban comparison  
in the municipality of Caraguatatuba, Brazil  
*Igor C. Johansen, Roberto Luiz do Carmo & Maria do Carmo  
D. Bueno* - PAGES 888-901
- Water-related health risks in rapidly developing towns:  
the potential of integrated GIS-based urban planning  
*Daphne Gondhalekar, Sven Nussbaum, Adris Akhtar,  
Jenny Kebschull, Pascal Keilmann, Sonam Dawa, Phuntsok  
Namgyal, Lobzang Tsumtim, Tsering Phuntsog, Stanzin Dorje,  
Phunchok Namgail & Tsering Mutup* - PAGES 902-920
- Water, sanitation and hygiene practices among primary-  
school children in Lagos: a case study of the Makoko slum  
community. *Babatope Babalobi* - PAGES 921-929

#### Peri-Urban/Rural Cases

- Urbanization, peri-urban water (in)security and human  
well-being: a perspective from four South Asian cities  
*Vishal Narain, M. Shah Alam Khan, Rajesh Sada, Sreoshi  
Singh & Anjal Prakash* - PAGES 930-940
- Health as a sustainability indicator within water resources  
management in rural and peri-urban areas of central  
northern Namibia. *M. Zimmermann* - PAGES 941-953
- Water and sanitation in six villages in Guizhou and  
Guangxi Provinces, China: a critical perspective  
*Theresa Carino & Ying Xie* - PAGES 954-966

#### Conclusion

Towards systematic comparative water and health research  
*Daphne Gondhalekar, Peter P. Mollinga & V.S. Saravanan*  
PAGES 967-976

### WATER INTERNATIONAL VOLUME 38, ISSUE 6, NOVEMBER 2013

#### Viewpoint

- Changing the nature of transboundary water agreements:  
the Israeli-Palestinian case. *David B. Brooks, Julie Trottier &  
Laura Doliner* - PAGES 671-686

#### Articles

- Assessing the existing knowledge base and opinions of deci-  
sion makers on the regulation and monitoring of unconven-  
tional gas mining in South Africa. *Surina Esterhuysen, Marthie  
Kemp & Nola Redelinghuys* - PAGES 687-700
- Assessing the economic impact of North China's water scar-  
city mitigation strategy: a multi-region, water-extended com-  
putable general equilibrium analysis. *Changbo Qin, Z.(Bob) Su,  
Hans Th.A. Bressers, Yangwen Jia & Hao Wang* PAGES 701-723
- Integrated river basin planning and management: a case study  
of the Zayandehrud River basin, Iran. *Morteza Safaei, Hamid  
R. Safavi, Daniel Peter Loucks, Azadeh Ahmadi & Wil van der  
Krogt* - PAGES 724-743
- Attitudes toward post-earthquake water and sanitation mana-  
gement and payment options in Leogane, Haiti. *Heather C. Ga-  
lada, Patrick L. Gurian, Franco Montalto, Mimi Sheller, Michael  
Piasecki, Tibebe B. Ayalew & Steve O'Connor* - PAGES 744-757
- Lost in transition? The introduction of water users associa-  
tions in Uzbekistan. *Gert Jan A. Veldwisch & Peter P. Mollinga*  
PAGES 758-773
- Managed aquifer recharge in community water supply:  
the Finnish experience and some international comparisons  
*V. Kurki, A. Lipponen & T. Katko* - PAGES 774-789

#### SPECIAL SECTION:

##### SUSTAINABLE GROUNDWATER DEVELOPMENT FOR IMPROVED LIVELIHOODS IN SUB-SAHARAN AFRICA, PART 2

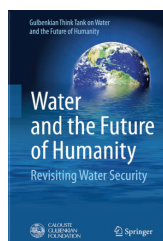
- Do policy and institutional factors explain the low levels of  
smallholder groundwater use in Sub-Saharan Africa?  
*Srinivas Chokkakula & Mark Giordano* - PAGES 790-808
- Understanding smallholder irrigation in Sub-Saharan  
Africa: results of a sample survey from nine countries  
*Tushaar Shah, Shilp Verma & Paul Pavelic* - PAGES 809-826
- Small pumps and poor farmers in Sub-Saharan Africa:  
an assessment of current extent of use and poverty outreach  
*Regassa E. Namara, Gebrehawaria Gebregziabher, Meredith  
Giordano & Charlotte De Fraiture* - PAGES 827-839
- Gender aspects of smallholder private groundwater irriga-  
tion in Ghana and Zambia. *Barbara Van Koppen, Lesley Hope  
& Willem Colenbrander* - PAGES 840-851
- Cost-benefit analysis and ideas for cost sharing of ground-  
water irrigation: evidence from north-eastern Ethiopia  
*Gebrehawaria Gebregziabher, Karen G. Villholth, Munir A.  
Hanjra, Muleta Yirga & Regassa E. Namara* - PAGES 852-863

#### Announcement

- Water International Best Paper 2011 Awards - PAGES 864-865

## MEMBERS PUBLICATIONS

**Professor Xia Jun**, Chair Professor & Dean, The Research Institute for Water Security (RIWS) Wuhan University, Distinguished Professor, Chinese Academy of Sciences (CAS) and past IWRA President presents:



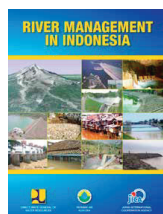
**Water and the Future of Humanity:  
 Revisiting Water Security**  
 Springer, 2013

This unique, engaging, and highly authoritative volume enlightens readers on changes needed in the way society accesses, provides, and uses water. It further shines a light on changes needed in the way we use food, energy, other

goods and services in relation to water, and offers projections and recommendations, up to 2050, that apply to water access challenges facing the poor and the common misuse of water in industry, agriculture, and municipalities. Written by an unparalleled slate of experts convened by the Calouste Gulbenkian Foundation, the book takes on one of the most critical issues on the planet today. In a frank yet optimistic assessment of developmental challenges, but also opportunities, facing future generations, the author elucidates linkages between water and a range of other drivers from various disciplinary and stakeholder perspectives. Ultimately portraying the belief that humanity can harness its visionary abilities, technologies, and economic resources for increased wellbeing and sound stewardship of resources, the book presents an optimistic statement stressing actions scientists, policy makers, and consumers can and must take to meet the water management challenges of a warming planet anticipating nine billion inhabitants by 2050.

**More information at:**

[www.springer.com/earth+sciences+and+geography/earth+system+sciences/book/978-3-319-01456-2](http://www.springer.com/earth+sciences+and+geography/earth+system+sciences/book/978-3-319-01456-2)



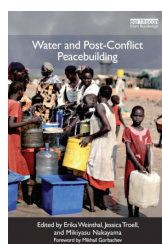
**River Management in Indonesia**

Directorate General of Water Resources,  
 Yayasan Air Adhi Eka and Japan International  
 Cooperation Agency, 2013

This book addresses an overview of river management in Indonesia: the key issues related to the thematic and historical content and future views moving forward.

**More information at:**

[www.jica.go.jp/indonesia/ku57pq0000467qf-att/River\\_Management\\_in\\_Indonesia.pdf](http://www.jica.go.jp/indonesia/ku57pq0000467qf-att/River_Management_in_Indonesia.pdf)



**Water and Post-Conflict Peacebuilding**

Editors: Erika Weinthal, Jessica Troell,  
 Mikiyasu Nakayama - Routledge, 2013

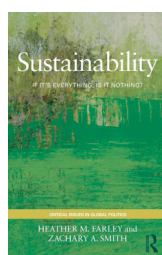
Water is a basic human need, and the provision of safe water is thus among the highest priorities during post-conflict recovery and peacebuilding. Water, sanitation, and the associated delivery infrastructure are also critical

to economic development and the recovery of livelihoods in the aftermath of war. Despite predictions of “water wars”, shared waters have proven to be the natural resource with the greatest potential for interstate cooperation and local confidence building. Indeed, water management plays a singularly important role in rebuilding trust after conflict and in preventing a return to conflict.

Featuring case studies and analyses of experiences from 28 countries and territories in Africa, Asia, Europe, the Americas, and the Middle East, and drawing on the experiences of 35 researchers and practitioners from around the world, this book creates a framework for understanding how decisions governing water resources in post-conflict settings can facilitate or undermine peacebuilding. The lessons will be of value to practitioners in international development and humanitarian initiatives, policy makers, students, and others interested in post-conflict peacebuilding and the nexus between water management and conflict.

**More information at:**

[www.environmentalpeacebuilding.org/publications/books/water-and-post-conflict-peacebuilding/#sthash.CIKXs2s.dpuf](http://www.environmentalpeacebuilding.org/publications/books/water-and-post-conflict-peacebuilding/#sthash.CIKXs2s.dpuf)



**Sustainability: If it's Everything, is it Nothing?**

By Heather M. Farley, Zachary A. Smith  
 Routledge, 2013

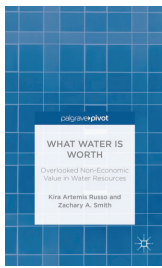
Today, the concept of sustainability is a widespread goal that nearly everyone supports. At the same time, almost no one means the same thing when they use the term. Sustainability is so broad and overly used that it seems to mean

everything to everyone. The result is that the concept has lost its meaning. In this book, the authors examine the misuses and abuses of «sustainability» and seek to refine and clarify the concept. The authors offer a new definition of sustainability – what they call neo-sustainability – to help guide policies and practices that respect the primacy of the environment, the natural limits of the environment, and the relationship between environmental, social, and economic systems.

**More information at:**

[www.routledge.com/books/details/9780415783538/](http://www.routledge.com/books/details/9780415783538/)

## MEMBERS PUBLICATIONS



### **What Water is Worth: Overlooked Non-Economic Value in Water Resources**

By: Kira Artemis Russo and Zachary A. Smith  
Macmillan, in press

Water managers tend to have narrow views on what they consider to be the value of water. However, not all water use is market driven; therefore, a comprehensive understanding of local community values associated with water can inform decision making by water managers. We use the term 'water manager' to encompass not only the singular person assigned this community duty but also the many councils and institutions who make decisions regarding local water resources. In general, few studies endeavour to estimate worth for water that encompasses more than a monetary value. We argue that it is the inclusion of both monetary and non-monetary values that justifies trust in the position of water manager.

**More information at:** <http://us.macmillan.com/whatwaterisworth/KiraArtemisRusso>

WORLD SMALL HYDROPOWER  
DEVELOPMENT REPORT 2013  
Executive Summary  
[www.icsshp.org](http://www.icsshp.org)



### **World Small Hydropower Development Report 2013**

United Nations Industrial Development Organisation (UNIDO) and International Centre on Small Hydro Power (ICSHP), 2013

The International Centre on Small Hydro Power (ICSHP) has collaborated with the United Nations Industrial Development Organization (UNIDO) to produce the World Small Hydro Development Report 2013 (WSHPDR 2013) and to develop the a small hydropower knowledge portal providing a global assessment of small hydropower capacities and potential.



The World Small Hydro Development Report 2013 is based on the contribution of more than 60 different authors or organizations and is ICSHP's and UNIDO's and flagship assessment on small hydropower. The report was launched on 29 October 2013 in Campinas, Brazil during the 6<sup>th</sup> Hydro Power for Today Forum and the 3<sup>rd</sup> Technical Meeting of the Renewable Energy Observatory for Latin America and the Caribbean.

UNIDO and ICSHP are inviting potential partners to participate in extending the world's small hydropower knowledge database.

**The executive summary of the WSHPDR 2013 can be downloaded from the ICSHP:** [www.inshp.org/wsr.asp?BID=50](http://www.inshp.org/wsr.asp?BID=50)

**Or on the UNIDO Website:** [www.unido.org/en/resources/publications/energy-and-environment/energy-and-climate-change.html](http://www.unido.org/en/resources/publications/energy-and-environment/energy-and-climate-change.html)

**The knowledge portal will go live in early 2014.**

### **Call for papers by Dr. Chennat Gopalakrishnan (University of Hawaii, USA), Guest Editor-in-Chief:**

*The Journal of Natural Resources Policy Research, Special Issue - Designing Water Disaster Management Policies: Theory and Empirics.*

A significant increase in the human and economic impacts of water disasters has been witnessed in recent years. From 2000 to 2010, they accounted for almost 90% of all natural disasters, 96% of the people affected (2.4 billion) and 76% of the economic damages (approximately USD1 trillion) caused by natural disasters globally. It is ironic that despite the centrality of water disasters, relatively little attention has been paid to them in the discourse on water disasters.

Ossified governance structures, polycentric decision-making entities, entropy-ridden institutions, cascading conflict scenarios, deep-seated and wide-ranging internal feuds and precariously perched, top-heavy decision agencies significantly add to the complexity of policy domains in the water disasters cape. Such an intractable combination of essentially incompatible forces and features renders the design and implementation of effective and efficient disaster risk management policies an extraordinarily challenging proposition. Against this bleak backdrop, well-intentioned policies stumble into a collision course, making the emergence of workable policies exceedingly difficult.

Five broad categories of water policies for an in-depth study have been identified: risk management; vulnerability assessment; capacity building and resilience; disaster risk reduction-development linkage; and institutional design. The purpose of this special issue is to help identify, examine, analyze and assess the complex world of disaster management, and design robust, effective, implementation-friendly, widely-accessible and affordable policies.

Original contributions are being sought that will explore and shed light on the five policy areas noted above and related topics, using historical surveys, institutional analysis, econometric investigations, empirical case studies and conceptual-theoretical discussions. Policy-rich cross-disciplinary and transnational papers that examine the causes and consequences of water disasters are especially welcome.

**More information at:** <http://explore.tandfonline.com/cfp/est/natural-resources-policy-special-issue-water-disaster/>



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