



IWRA Update

Newsletter of the International Water Resources Association

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MESSAGE FROM THE PRESIDENT



Dear IWRA Members, Colleagues and Friends,

It is with great pleasure that I pen this final message as President of IWRA having served with the association's 14th Executive Board from 2013 to 2015. An impressive list of milestones and activities were achieved during this period, for which I sincerely thank the members of the IWRA Executive Board, the Executive Office staff, as well as IWRA members and partners.

IWRA has always been a strong advocate of contributing sound scientific knowledge to policy formulation and water resources management. The past three years has been a unique period in the water sector. The ending of the 15 year cycle of the UN Millennium Development Goals (MDG's) has seen partial successes with improvements to access to safe drinking water but it has also exposed the long road ahead still on matters such as access to improved sanitation. The replacement of the MDGs with the newly approved UN Sustainable Development Goals has widened the focus on water as a cross-cutting axis for development. IWRA is proud to have played an important role with the international community in securing a dedicated water goal. The recent Paris Agreement at the COP21 also highlights significant movement in the climate debate as water starts to take a more significant role especially due to its importance for adaptation. Again, IWRA played a strong role in promoting multi-disciplinary water sciences on this international platform. These are just a few examples of the active role that IWRA has played on the global water stage over the last few years. IWRA contributed to well over 30 major international processes and events over the last three years. The list is a little too long to include in this letter but a few highlights include our involvement in the OECD Water Governance Initiative; our contributions as a partner of UN Water; our role on the Board of Governors of the World Water Council and as a steering committee member of the Action Platform for Source to Sea Management; as well as significant roles played by IWRA as leaders in the fields of Water Quality and in the Science Policy Interface.

As one of the world's leading platforms to promote major themes and multi-disciplinary water sciences, I am honoured to have presided over an excellent XVth World Water Congress, which in many aspects was one of our most successful ever. Organised in partnership with the Scottish Government and with Dr. Cecilia Tortajada as Chair of the International Scientific Committee, the event placed "Global Water: a resource for development" at the

forefront of international debate and brought together some 58 thematic sessions, 37 special sessions and several major side events. The next Congress has been confirmed and shall be organised in 2017 in Cancun, Mexico in partnership with the National Association of Water and Sanitation Utilities of Mexico (ANEAS) and the National Water Commission (CONAGUA). IWRA's publications have continued to grow from strength to strength. Over the last three years, twenty one issues of Water International were published under the capable editorial minds of Prof. James Nickum, and Dr. Flip Wester. To add to the "im-pact" of these publications, a new series of webinars and policy briefings were launched in conjunction with the IWRA Executive Office and the support of our publishers, Taylor and Francis.

I am glad to report that IWRA's membership has recovered strongly from some years ago, with now around 900 members worldwide. Despite this, there remains a significant challenge to maintain and grow membership as well as assuring geographic and disciplinary diversity. I also am glad to report that over the last three years we have been able to secure the association's finances which are now looking strong for the next three years. The current situation represents a real opportunity for the association to build upon a strong platform and make ever stronger contributions to water management around the world. The progress over the past three years were achieved in close collaboration with the members of the IWRA Executive Board and Executive Office which proved to be a delight to work with whilst being highly effective for the development of the association. Our work was no doubt also aided by advances in technology which enabled us to hold 12 Executive Board meetings over the past three years (a record for the association!) composed of 1 physical meeting per year and 3 virtual ones via videoconferencing software.

IWRA is in good shape and has become an increasingly stronger platform for bringing together multi-disciplinary water sciences to contribute to the solving of the manifold water challenges of the future. I wish every success and a fruitful mandate for the incoming Executive Board which shall take office on 1 January 2016 under the very capable leadership of Patrick Lavarde. Thank you, I wish you a happy festive season and an excellent new year in 2016.

Best regards,

Prof. Dogan Altinbilek
President, IWRA

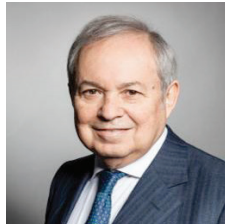
■ Upcoming IWRA Executive Board 2016-2018



A new IWRA Executive Board has been elected. Members shall assume office on 1 January 2016 for a three year period to terminate on 31 December 2018. The officers elected are from 15 different countries, representing five continents and different disciplines.



Patrick Lavarde (France)
PRESIDENT



Dogan Altinbilek (Turkey)
PAST PRESIDENT



Naim Haie (Portugal)
VICE-PRESIDENT



Yuanyuan Li (China)
VICE-PRESIDENT



David Molden (Nepal)
VICE-PRESIDENT



Guy Fradin (France)
SECRETARY GENERAL



Renee Martin-Nagle (USA)
TREASURER



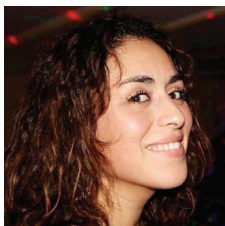
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**CHAIR, AWARDS
 COMMITTEE**



Henning Bjornlund (Australia)
**CHAIR, PUBLICATIONS
 COMMITTEE**



Carl Bruch (USA)
**CHAIR, MEMBERSHIP
 COMMITTEE**



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Mukand S. Babel (Thailand)
DIRECTOR



Bruce Currie-Alder (Canada)
DIRECTOR



Guillermo Donoso (Chile)
DIRECTOR



Jun-Haeng Heo (Rep. of Korea)
DIRECTOR



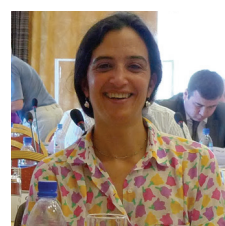
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DIRECTOR



Y.S. Frederick Lee (China)
DIRECTOR



Ahmet Mete Saatçi (Turkey)
DIRECTOR



Raya Marina Stephan (Palestine)
DIRECTOR



Philippus (Flip) Wester
 (Netherlands)
DIRECTOR

■ Opinion piece



WATER AND ADAPTATION STRATEGIES TO CLIMATE CHANGE

By Jean Luc Redaud, *Chair of the Working Group «Water and Climate» at the French Water Partnership.*



Water is at the heart of adaptation strategies to respond to climate change. Characterising and supporting adaptation is an essential condition for the accession of developing countries to the United Nations convention for the climate.

At the Paris climate convention (COP21), the water community intends to advocate the significance of the impacts of climate change on the sector and on the balance of multiple natural cycles essential to life. Water stakeholders hope to focus attention on the links to establish between climate issues and the Sustainable Development Goals adopted during the UN General Assembly in September 2015, and in particular with respect to the goals on «Water».

The consequences of climate change on the functioning of our planet's water cycles have been described in the 5th IPCC report and were addressed in an analysis by the French Water Partnership in 2014. They display geographical variations and are subject to many uncertainties; but, overall the IPCC notes a likely worsening of the situation in regions already affected by water excess or shortage: droughts, floods, coastal flooding, melting ice, changing river flows etc.

At the COP20 in Lima in December 2014, it was decided that the Intended Nationally Determined Contributions (INDCs) should focus on adaptation as well as mitigation. The review of the proposals received shows that adaptation is a strong demand from developing countries and that the issue of water holds a major position. Water is present in 92% of the adaptation areas in the Contributions presented by countries at the COP 21.

Water stakeholders have common views on the means to deal with these new challenges:

Climate change makes it necessary to review our horizons of thought and generates new areas of uncertainty that must lead to revision of our models for planning and Integrated Water Resources Management.

Climate change and global changes are closely related within the management of the quantity or the quality of water resources.

Resilience must become a new criteria for evaluating activities and proposed solutions.

The world of water is rich with solutions for adaptation, traditional or innovative techniques combining soft and green approaches (protection of soils and wetlands, renaturation of rivers, permeabilisation of cities, agro-ecology, etc.) or techniques (dikes, dams, desalination, water treatment, irrigation, urban or agricultural drainage, etc.). The no-regrets solutions, such as water savings should be prioritised. Numerous examples from local authorities and NGOs also show how to go beyond purely technological solutions.

We will move forward on the path of adaptation only if we make serious progress in the characterisation of this concept; and by defining tools for transparency, monitoring, reporting and verification. This is particularly important for developing countries which have made financing for adaptation a priority. With support from the AFD (French Development Agency) and with the experience of all French stakeholders, the FWP will submit proposals to the COP21 which seek to support «climate-friendly» adaptation projects. A common precondition will undoubtedly be an improved knowledge of the evolution of our aquatic environments, strengthening and revision of our planning tools and IWRM, and strengthening the dialogue between scientists, managers, policy makers and citizens.

In the climate sector, the strategy of transferring to the next generation the effort required to catch up for the mistakes of the preceding generation makes little sense: the impact of past greenhouse gas emissions determines the evolution of our climate for the next 30 years. The climate of the end of this century depends on effort that we undertake over the next 10 years. Hence the importance of active reflection on the transition process for water management as it is the case for energy. Promises for 2050, whilst ambitious, are, still a long way from being linked to concrete plans to achieve this. In the water sector, the road is under construction to render «desirable» the solutions proposed by water stakeholders.

NEWS news news news news



TEXAS A&M UNIVERSITY WATER ENERGY FOOD NEXUS INITIATIVE

The interconnection of water, energy and food resources is highly complex and the availability of these resources is increasingly stressed by climatic, social, political, economic, demographic, technologic and other pressures. Sustainably addressing these challenges requires a better understanding of the nexus formed by the interconnections between the resources and will lead to a more equitable allocation and improved management of them.

The Texas A&M University Water-Energy-Food Nexus Initiative is composed of Texas A&M University scientists who are committed to finding solutions to the nexus grand challenges. These scientists and educators will make up multidisciplinary teams that share their skills, knowledge and scientific abilities to produce the necessary analytics, grounded in state-of-the-art science, and able to provide a platform to facilitate inclusive stakeholder dialogues at local, regional and global levels.

This informed dialogue will enable a better understanding of the full life-cycle footprints of food, water and energy resources, their products and services. This dialogue will enable improved, science-based, management of these critical resources and will assist policy makers in planning effectively to address the anticipated shortfalls in these primary resources in a changing world.

Initiative's Goals

- Facilitate science-based policy
- Raise awareness among academe, society, government and industry for holistic approaches to address grand challenges and sustainable development goals
- Identify and respond to national and global opportunities in research, education, outreach and policy implementation
- Assist in the effective management of primary resources

Texas A&M Water-Energy-Food Nexus Forum

In October, 2015 the Texas A&M University Water-Energy-Food Nexus Initiative held a forum with more than 200 Texas A&M scientists attending. The scientists broke up into five groups and examined five areas of the nexus:

Forum Outcomes

- Expand intellectual capacity of Nexus dialogue
- Demonstrate holistic solutions to water security in Texas
- Engage stakeholders (at home and abroad) in on-going activities and future plans

More information at: wefnexus.tamu.edu

PROF. XIA JUN HONORED AS A MEMBER OF THE CHINESE ACADEMY OF SCIENCES

Congratulations to Prof. Xia, Past-President of IWRA (2010-2012), becoming a new member of the Chinese Academy of Sciences.



PROF. SINGH ELECTED DISTINGUISHED MEMBER OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)

Professor Vijay P. Singh, who is currently Distinguished Professor and the Inaugural holder of Caroline and William N. Lehrer Distinguished Chair in Water Engineering at Texas A&M University, has been elected

Distinguished Member of ASCE-the highest award that ASCE bestows on its members.

More information at: blogs.asce.org/singh-elected-to-the-grade-of-asce-distinguished-member/

■ LATEST ACTIVITIES



International River Symposium

21-24 SEPTEMBER, MELBOURNE, AUSTRALIA

The theme of this event “Healthy Rivers – Healthy Economies” was a wonderful opportunity to engage with the multitude of businesses and organisations who contribute to and benefit from the wise management of rivers and their catchments. Water has risen high on the business agenda and a decline in freshwater quality and quantity was judged the greatest risk facing the globe at the 2015 World Economic Forum. The contribution that healthy rivers make to our economies and wellbeing is extraordinary, but often taken for granted.

More information is available on the event website at:
riversymposium.com

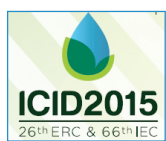


Livable Cities Forum: Building Flood Resilient Communities?

28-30 SEPTEMBER, CALGARY, CANADA

This Forum is organised by The City of Calgary, ICLEI Canada, and the Canadian Water Resources Association. During this Forum, municipal representatives, water management professionals, elected officials, and other stakeholders worked together on solutions to build more flood resilient communities.

Visit the event website for more information:
www.livablecitiesforum.com



«Innovate to improve irrigation performance» Euro- Mediterranean Conference organised by ICID/AFEID

11-17 OCTOBER, MONTPELLIER, FRANCE



This event was organised by AFEID, the French chapter of the International Commission on Irrigation and Drainage (ICID). The event brought together almost 800 participants from 65 countries.

IWRA was a supporting partner and a member of the National Organising Committee and the International Scientific Committee. Tom Soo chaired the thematic stream on “Reuse: What potential for wastewater in agriculture?”

More information and access the conference articles at:
icid2015.sciencesconf.org

Eighth International Workshop on Hydro-Hegemony: Law and Hydro-Hegemony

24-25 OCTOBER 2015, LONDON, UK



The London Water Research Group organised and hosted their annual workshop on hydro-hegemony at King's College London, with this year's theme on international law. The workshop featured presentations from several IWRA members, and centred around discussions on the role of international law in asymmetrical power arrangements between states.

For more information and up to date outputs, visit:
lwrg.wordpress.com/news/events/hh8/



OECD Water Governance Initiative Meeting

2-3 NOVEMBER 2015, PARIS, FRANCE

The OECD WGI held his 6th meeting at the OECD Headquarter, in Paris. The meeting provided an opportunity to discuss the latest developments in the Global Water Agenda and to share knowledge on recent water governance projects and research. Breakout sessions discussed expectations and needs to follow-up on the OECD Principles on Water Governance, especially in terms of scaling-up good practices and drawing lessons from pitfalls or traps to avoid. In-depth brainstorming was carried out in smaller groups on the ways forward for the WGI, with strong support from members towards a best practice database and a set of water governance indicators. Participatory modelling on water governance was also pilot-tested to foster lively exchanges on real-life situations to manage water-related trade-offs at catchment level.

You can access the full agenda and the presentations of this meeting on the OECD website at:

www.oecd.org/gov/regional-policy/water-governance-initiative-meeting-6.htm



World Water Council 7th General Assembly and Elections for the Board of Governors

13-14 NOVEMBER, MARSEILLE, FRANCE

IWRA, as members of the Board of Governors of the World Water Council participated in the General Assembly. During this event, strategic programmes of the organisation were discussed; and the Board of Governors 2016-2018 was elected under the presidency of Prof. Benedito Braga. The World Water Council also elected a new Board of Governors. IWRA having served on this board for the last six years was unfortunately not re-elected; but shall maintain an active role at the World Water Council.

The composition of the new board members can be consulted at:

www.worldwatercouncil.org/about-us/organisation/board-of-governors-2016-2018/



IWRA Executive Board meeting

19 NOVEMBER

The IWRA Executive Board officers had their 10th meeting via videoconference, the penultimate meeting of their mandate. The last Board meeting of the mandate will be held on 22 December 2015.



COP 21

30 NOVEMBER-11 DECEMBER, PARIS, FRANCE

The 21st Session of the Conference of the Parties to the United Nations Framework Convention on Climate Change (COP21/CMP11), took place from 30 November to 11 December. The Paris Climate Change Agreement was signed in order to attempt to limit the rise in global temperatures to less than 2°C.

In the framework of this event, IWRA moderated the session on «Water and Sustainable Cities» on 8 of December, organised by the French Water Partnership, for the event «Solutions COP 21» at the Grand Palais in Paris.



UPCOMING EVENTS



World Water Day 2016

22 MARCH 2016

Next year's World Water Day theme will be on «Water and jobs». During this day, several events related to this campaign will be organised worldwide and the World Water Development Report 2016 on this topic will be published.

More information about this topic and the official campaign will be published soon on the UN-Water website at :

www.unwater.org



7th ICWRER

5-9 JUNE 2016, KYOTO, JAPAN

The main theme of this Symposium is «Water Security in Geo, Eco and Socio-Systems».

The objective of the ICWRER conference is to bring together physical, biological, chemical, statistical and technical expertise in order to better understand natural systems related to water resources from all around the world.

You can consult the event website at:

wrrc.dpri.kyoto-u.ac.jp/icwrer2016/



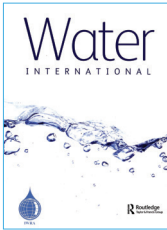
XVIIth IWRA World Water Congress

29 MAY- 2 JUNE 2017, CANCUN, MEXICO

The next World Water Congress will be hosted by ANEAS and CONAGUA and held in Cancun, Mexico from 29 May to 2 June 2017. Save those dates in your agenda!

The central theme of the Congress shall focus on «Bridging Science and Policymakers».

Information and updates are available on the official congress website: worldwatercongress.com



PUBLICATIONS

WATER INTERNATIONAL VOLUME 40, ISSUE 7

Articles

- The relevance of international water law to later-developing upstream states. *Mark Zeitoun* - PAGES 949-968
- Good transboundary water governance in the 2015 Sustainable Development Goals: a legal perspective. *Mallory Orme, Zoë Cuthbert, Francesco Sindico, Julie Gibson & Renice Bostic* - PAGES 969-983
- A framework to assess plan implementation maturity with an application to flood management in Vietnam. *Ho Long Phi, Leon M. Hermans, Wim J.A.M. Douven, Gerardo E. Van Halsema & Malik Fida Khan* - PAGES 984-1003
- Impact of planned water resource development on current and future water demand in the Koshi River basin, Nepal | Open Access. *Pennan Chinnsamy, Luna Bharati, Utsav Bhattarai, Ambika Khadka, Vaskar Dahal & Shahriar Wahid* PAGES 1004-1020
- Water conflicts in tropical watersheds: hydroeconomic simulations of water sharing policies between upstream small private irrigators and downstream large public irrigation schemes in Burkina Faso. *Baba A. Rivaldo Kpadonou, Bruno Barbier, Joost Wellens, Elie Sauret & B. V. C. Adolphe Zangré* - PAGES 1021-1039
- Changing to more efficient irrigation technologies in southern Alberta (Canada): an empirical analysis. *Jinxia Wang, K. K. Klein, Henning Bjornlund, Lijuan Zhang & Wencui Zhang* - PAGES 1040-1058

Viewpoint

- Water productivity and water footprints are not helpful in determining optimal water allocations or efficient management strategies. *Dennis Wichelns* - PAGES 1059-1070

Book Reviews

- Amit Gross, Adi Maimon, Yuval Alfiya, and Eran Friedler, Greywater reuse. *Ryan H. Lee* - PAGES 1071-1077

Book Review

- Emma S. Norman, Governing transboundary waters: Canada, the United States, and indigenous communities. *David B. Brooks* - PAGES 1074-1077

Corrigendum

- Corrigendum - PAGES 1-1

Errata

- Erratum - PAGES 1-1

Miscellaneous

- Editorial Board - PAGES EBI-EBI

WATER INTERNATIONAL Special issue: Sustainability in VOLUME 40, ISSUE 5-6 the wef nexus

Editorial

- Sustainability in the water–energy–food nexus. *Zachary Anik Bhaduri, Claudia Ringler, Ines Dombrowski, Rabi Mohtar & Waltina Scheumann* - PAGES 723-732

Articles

- The impact of water users' associations on the productivity of irrigated agriculture in Pakistani Punjab. *Dawit K. Mekonnen, Hira Channa & Claudia Ringler* PAGES 733-747
- Water–energy–food (WEF) Nexus Tool 2.0: guiding integrative resource planning and decision-making. *Bassel T. Daher & Rabi H. Mohtar* - PAGES 748-771
- Bioenergy, food security and poverty reduction: trade-offs and synergies along the water–energy–food security nexus. *Alisher Mirzabae, Dawit Guta, Jann Goedecke, Varun Gaur, Jan Börner, Detlef Virchow, Manfred Denich & Joachim von Braun* - PAGES 772-790
- Application of a water–energy–food nexus framework for the Duero river basin in Spain. *Beatriz Mayor, Elena López-Gunn, Fermín I. Villarroya & Esperanza Montero* - PAGES 791-808
- Reuse of oil and gas produced water in south-eastern New Mexico: resource assessment, treatment processes, and policy. *Enid J. Sullivan Graham, Anne C. Jakle & F. David Martin* - PAGES 809-823
- Water–energy–food nexus in a transboundary context: the Euphrates–Tigris river basin as a case study. *Aysegül Kibaroglu & Sezin Iba Gürsoy* - PAGES 824-838
- Water–food–energy nexus in Chile: the challenges due to global change in different regional contexts. *Francisco J. Meza, Sebastian Vicuna, Jorge Gironás, David Poblete, Francisco Suárez & Melanie Oertel* - PAGES 839-855
- How would the Rogun Dam affect water and energy scarcity in Central Asia? *Maksud Bekchanov, Claudia Ringler, Anik Bhaduri & Marc Jeuland* - PAGES 856-876
- Governance of transitions towards sustainable development – the water–energy–food nexus in Cyprus. *Johannes Halbe, Claudia Pahl-Wostl, Manfred A. Lange & Christina Velonis* - PAGES 877-894
- The water–energy–food (WEF) security nexus: the policy perspective of Bangladesh. *Animesh K. Gain, Carlo Giupponi & David Benson* - PAGES 895-910
- Where is the power? Transnational networks, authority and the dispute over the Xayaburi Dam on the Lower Mekong Mainstream. *Oliver Hensengerth* - PAGES 911-928
- Application of payments for hydrological ecosystem services to solve problems of fit and interplay in integrated water resources management. *Jochen Hack* - PAGES 929-948

■ PUBLICATIONS

WATER INTERNATIONAL
VOLUME 40, ISSUE 4
40TH ANNIVERSARY ISSUE
FORTY YEARS OF WATER INTERNATIONAL



- Forty years of Water International: on track but not in a rut. *James E. Nickum* - PAGES 535-545
- The reminiscences. *James E. Nickum* - PAGES 546-555

Papers arising from the XVth World Water Congress

- XVth World Water Congress overview. *Cecilia Tortajada* PAGES 556-558
- Ven Te Chow Memorial Lecture: Localizing water and food security. *Rabi H. Mohtar* - PAGES 559-567
- Crystal Drop Award Speech: Connecting the dots: a unifying theory for modelling in water engineering. *Vijay P. Singh* - PAGES 568-592

Articles

- Hydropolitics in the Harirud/Tejen River Basin: Afghanistan as hydro-hegemon? *Vincent Thomas & Jeroen Warner* - PAGES 593-613
- Using water insecurity to predict domestic water demand in the Palestinian West Bank. *S. E. Galaitsi, Annette Huber-Lee, Richard M. Vogel & Elena N. Naumova* - PAGES 614-634
- Assessing the performance of water user associations in the Gash Irrigation Project, Sudan. *Lee A. Ngirazie, Ageel I. Bushara & Jerry W. Knox* - PAGES 635-646
- Predicting water quality associated with land cover change in the Grootdraai Dam catchment, South Africa. *Anja du Plessis, Tertius Harmse & Fethi Ahmed* PAGES 647-663
- A counterfactual assessment for interagency collaboration on water quality: the case of the Geum River basin, South Korea. *J.H. Koo, J.Y. Yoon, K.H. Sim & H.K. Cho* - PAGES 664-688

Technical note

- An assessment of Kalpana-1 rainfall product for drought monitoring over India at meteorological sub-division scale. *Shashikant Patel, Satya Prakash & Bindu Bhatt* - PAGES 689-702

Book review

- Earthea Nance, Engineers and communities: transforming sanitation in contemporary Brazil, reviewed by *Paulo Augusto Cunha Libanio* - pages 703-705

Miscellany

- Water International Best Paper 2014 Awards - PAGES 706-707

IWRA Announcement

- Candidates for the next IWRA Executive Board, 2016-2018 PAGES 708-721

■ PUBLICATIONS

Publications by members

Opinion Piece: Water: A Global Crisis

On the World Environment Day, 5th June, Prof. Asit K. Biswas, one of the co-founders and Past-President of IWRA, and Peter Brabeck, Chairman of the Board of Nestlé, wrote a piece on why the world will face a global crisis because of poor management practices if the current trends continue.

Members may find it of considerable interest at:

thediplomat.com/2015/06/water-a-global-crisis/



Scotland published its National Peatland Plan in August 2015

The Scottish National Peatland Plan highlights actions to protect, manage, and restore these precious natural resources.

The plan covers the range of public benefits resultant from well-managed peatlands, and focuses on work calculated to support development planning, conservation, and land management activities.

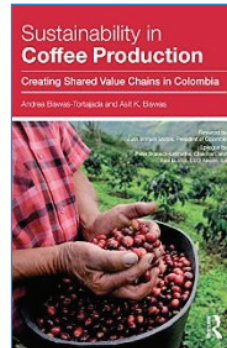
Its publication follows a public consultation in which many helpful comments came from a range of organisations and individuals.

The publication of the plan follows the Minister's statement on Scotland's Green House Gas targets in which the Scottish Government committed a further £3million for peatland restoration this year. It will also help deliver the recently published Biodiversity Route Map.

The plan's delivery will be supported by a SNH-led National Peatland Group comprising land managers, Scottish Government, NGOs, agencies and representatives from the research community.

More information at:

www.snh.gov.uk/docs/A1697542.pdf



Sustainability in Coffee Production: Creating Shared Value Chains in Colombia

This book, Sustainability in Coffee Production: Creating Shared Value Chains in Colombia has just been published by Routledge, from London and New York. The book has a Foreword by Juan Manuel Santos, President of Colombia, and an Epilogue by Peter Brabeck and Paul Bulcke, Chairman of the Board and CEO respectively of Nestlé.

This 208-page book analyses coffee as a commodity and through its global value chains. In recent years coffee has been the focus of much interest to achieve fair trade and equitable outcomes for producers, processors and consumers. It has iconic cultural and economic significance for Colombia, which is one of the world's major coffee producers for the global market. This book examines sustainable coffee production in Colombia, specifically the initiatives of Nestlé to create shared value.

It describes the transformation of the coffee landscape by the development of economically, socially and environmentally viable and dedicated supply chains. Suppliers have been encouraged to shift production and quality paradigms, in order to develop long-term and sustainable strategies for higher value and premium quality products. This has been partially achieved by establishing a robust partnership with the Coffee Growers Federation and other public, private and social actors, thereby taking control of the institutional architecture and knowledge base that exists in the country. The book provides an important lesson of corporate social responsibility and the creation of shared value for the benefit of farmers, corporations and consumers.

This book can be purchased at:

www.amazon.com/Sustainability-Coffee-Production-Creating-Colombia/dp/1138902071

■ PUBLICATIONS

The Participation-Prescription Tension in Natural Resource Management: the case of diffuse pollution in Scottish water management

This article by Waylen, K. A., Blackstock, K. L., Marshall, K. and Dunglison, J. was published this year in *Environmental Policy and Governance*, 25(2), 111-124.

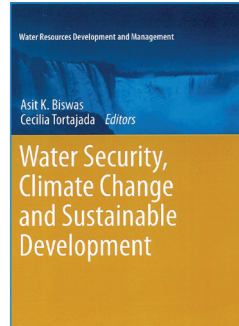
Abstract: The need for stakeholder participation in natural resource management is widely acknowledged. Many have noted that real-life processes fall short of theoretical ideals in the literature, but less attention is given to understanding if and how participation may produce positive outcomes within these imperfect processes. For example, policies prescribing specific goals and statutory timelines are potentially in tension with goals for stakeholder participation, but the implications of this tension are not well understood.

We studied this tension in order to inform future participatory natural resource management. We used qualitative inductive analysis of river basin management planning in Scotland to explore to the extent to which benefits of participation were possible under prescribed conditions, and how prescribed constraints influenced the processes of participation.

Participation was constrained by the prescribed targets and timeline. However, participants in advisory groups challenged assumptions and provided additional information, leading to a more balanced analysis of pressures and a more collaborative approach to potential solutions. Overall, their interaction and inputs produced a mix of substantive and instrumental benefits to the process. More attention is needed to understand if and how such benefits would be realized from other processes, but our findings support the value of encouraging participation in natural resource management, even when that participation is constrained.

More information can be found at:

onlinelibrary.wiley.com/doi/10.1002/eet.1666/abstract



Water Security, Climate Change and Sustainable Development

This book edited by Asit K. Biswas and Cecilia Tortajada pursues a comprehensive approach so as to arrive at a better understanding of the implications of climate change on sustainable development, focusing on the perspective of water. Climate change is one of today's

most pressing global issues

and will become increasingly important in the decades to come, as societies will feel its pervasive impacts in many aspects of their lives. Given that the majority of these climate change impacts will be felt through the medium of water, the book explores the interrelationships and inter-linkages between water, climate change and sustainable development.



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