

Second International Conference

GROUNDWATER RESOURCES MANAGEMENT: ADAPTATION MEASURES to WATER SCARCITY

Science and Policy Responses

30 November – 3 December 2011, Irvine, California, USA

Second Announcement and Call for Abstracts



© European Union, 1995-2010

In cooperation with

Orange County Water District,
Fountain Valley, California

Center for Hydrologic Modeling,
UC Irvine, Irvine, California

Irvine Ranch Water District,
Irvine, California



© European Union, 1995-2010

Rationale

Groundwater resources play a unique role in responding to the challenges posed by water scarcity and climate change. The sustainable management of these resources provides essential adaptation solutions based on innovative methodologies and new technological approaches. The social and economic dimensions of using and allocating groundwater resources are crucial building blocks for green economies and green societies and to understand the water, energy and food security nexus.

The Second UNESCO-UCI 2011 Conference on 'Groundwater Resources Management: Adaptation Measures to Water Scarcity – Science and Policy Responses' will evaluate the progress made in groundwater management since the First Conference in 2008. It will also explore the areas where further progress can and should be made as well as identify the needs for legal, institutional and policy instruments and their links to science.

The Conference results will be presented at the 6th World Water Forum (March 2012, Marseille, France) and the United Nations Conference on Sustainable Development (UNCSD) or Rio +20 (June 2012, Rio de Janeiro, Brazil).

Objectives

- Share innovative methods and technologies to help alleviate clean-water scarcity and improve treated water supply and groundwater storage in arid and semi arid areas
- Explore mechanisms to develop and foster international cooperation for the rapid dissemination and implementation of best practices on groundwater management
- Promote the use of guidelines and methodologies for groundwater resources management to cope with climate change, natural disasters, water-related hazards and groundwater dependent ecosystems at risk
- Formulate relevant scientific and policy recommendations for sustainable groundwater management and governance
- Present the Conference main findings at the 6th World Water Forum (March 2012, Marseille, France) and the United Nations Conference on Sustainable Development (UNCSD) or Rio +20 (June 2012, Rio de Janeiro, Brazil)

Call for Abstracts

All those wishing to make a presentation during the Conference are invited to submit abstracts in English, strictly following the specific template (max 350 words). The subject should address one of the main themes of the Conference. Abstracts should be submitted by 1 June 2011 by e-mailing them to: gwater@uci.edu. The Scientific Committee will select the abstracts to be developed as full-length papers or posters. Notification letters confirming acceptance or not will be sent by 15 August 2011.



RECAP

DEADLINE FOR SUBMISSION OF ABSTRACTS:
1 June 2011

NOTIFICATION OF ABSTRACTS ACCEPTANCE
15 August 2011

LANGUAGE:
English

FORMAT:
Max 350 words
Detailed template available on website

EMAIL TO SEND ABSTRACTS:
gwater@uci.edu

Conference Programme: Themes and Topics

Wednesday 30 November

Evening

Welcome Reception

Thursday 1 December

Morning

Opening Session

Theme 1: Role of groundwater in adapting to the impacts of global and climate changes

- 1 • Elevate the role of groundwater at local, national, and international levels
- 2 • Risk management and emergency situations, coping with natural disasters and water-related hazards
- 3 • Coastal aquifers and small islands
- 4 • Groundwater and public health

Afternoon

Theme 2: Strengthening groundwater management for sustainable development

- 1 • Groundwater and the water, energy and food security nexus
- 2 • Green economy and financial responses
- 3 • Point and non-point pollution prevention and remediation
- 4 • Groundwater dependent ecosystems

Friday 2 December

Morning

Theme 3: Innovative methods and technologies for groundwater management

- 1 • Monitoring and satellite based techniques
- 2 • Modelling and forecasting
- 3 • Wastewater reuse and groundwater recharge
- 4 • Seasonal multi-year storage

Afternoon

Theme 4: Groundwater education, cooperation and governance

- 1 • Groundwater governance at the international, national and local levels
- 2 • Cooperation on transboundary aquifers: institutions and legal instruments
- 3 • Education, training and capacity development
- 4 • Public acceptability

Saturday 3 December

Morning

Theme 5: Regional Groundwater Knowledge Transfer Workshops

- 1 • Design and operation of seawater intrusion barriers at Orange County Water District
- 2 • Using satellite data to manage groundwater basins
- 3 • Integrating four different contaminated groundwater basins into a reclaimed water supply system
- 4 • Design and operation of river recharge of a groundwater basin: 80 years of experience
- 5 • Regional Groundwater Knowledge Transfer Centers
- 6 • Additional Workshops to be determined

Afternoon

Debate: The Irvine Implementation Plan and the way forward to the 6th World Water Forum and the UN5ED/DeSf

Closing Session



International Steering Committee

Jean Fried (UC Irvine, USA)
Jan Scherfig (UC Irvine, USA)
Alice Aureli (UNESCO)

Conference Chairpersons

Gretchen Kalonji (UNESCO)
Soontak Lee (Chair of the UNESCO-IHP
Intergovernmental Council)

Scientific Programme Committee

Chairpersons

Jean Fried (UC Irvine, USA)
Jan Scherfig (UC Irvine, USA)

Members

Abou Amani (UNESCO)
Giovanni Barrocu (U. of Cagliari & IAH-Italy)
Jacob Bear (Technion, Israel)
Benedito Braga (World Water Council)
Margaret Catley-Carlson (Canadian Water Work)
Russ Detwiler (UC Irvine, USA)
Alfred Duda (GEF)
Gabriel Eckstein (Texas Wesleyan U & IWRA, USA)
James Famiglietti (UC Irvine, USA)
David Feldman (UC Irvine, USA)
Stephen Foster (GWP, WB-GWMATE)
Jacques Ganoulis (U. of Thessaloniki & INWEB, Greece)
Thomas Harter (UC Davis, USA)
Todd Jarvis (Oregon State University, USA)
Chris Juma (Ministry of Water and Irrigation, Kenya)
Leonard Konikow (USGS & IAH, USA)
David Kraemer (U. of Nevada LV & IAH, USA)
Matthew Larsen (USGS & US IHP)

Richard Laton (CSU Fullerton & NGWA, USA)
Raul Lejano (UC Irvine, USA)
William Logan (ICIWaRM, USA)
Jan Lundqvist (SIWI, Sweden)
José Luis Martin-Bordes (UNESCO)
Jennifer McKay (U. of South Australia, Australia)
Sharon Megdal (U. of Arizona, USA)
Mwalimu Musau (KEWI, Kenya)
Didier Pennequin (BRGM, France)
Shaminder Puri (IAH, UK)
Stephen Ragone (US IHP, USA)
Abdin Salih (U. of Khartoum, Sudan)
Verne Schneider (USGS & US IHP, USA)
Christopher Scott (U. of Arizona, USA)
Soroosh Sorooshian (UC Irvine, USA)
Raya Marina Stephan (France)
Wilhelm Struckmeier (BGR & IAH, Germany)
Andras Szöllögi-Nagy (UNESCO-IHE)
Antony Turton (U. of Free State, South Africa)
Robert Varady (U. of Arizona, USA)
Mike Wireman (EPA & IAH, USA)
Han Zaisheng (China Geological Survey, China)
Ivan Zavadsky (GEF International Waters)

Important Dates

Registration opens:
1 May 2011

Submission of abstracts:
1 June 2011

Submission of final
papers or posters:
(only for accepted abstracts)
1 November 2011

Final programme:
15 November 2011

Venue and Lodging

- The conference will be held at University of California Irvine Conference Center.
- The hotel partner is Costa Mesa Hilton: rooms available at \$118/night (tax included). Free shuttle buses will be provided to/from the hotel and the Conference Center.

Registration Dates & Fees

- Conference registration opens on **1 May 2011**.
- From 1 May until 31 August: US\$ 350.
- After 1 September: US\$ 400.
- Payment online (conference website)

Travel Grants

On this occasion, no travel grants are provided.

Language

The language of the Conference is English.

Contacts

Conference Secretariat
E 4130 Engr. Gateway
University of California, Irvine
Irvine, CA 92697-2175, USA
Tel: +1 949 824 5697
Fax: +1 949 824 2117

Email:
gwater@uci.edu

Website:
www.groundwater-conference.uci.edu

