Universidad del Valle

Cinara

AGUA 2013

Risks in water management

International Seminar

Risk management in the water cycle

From 15th to 18th October , 2013

Cali, Colombia

Call for abstracts

Until 30th May 2013

Hosted by:

Universidad del Valle

UNESCO-IHE Institute for Water Education

UNESCO

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SEI STOCKHOLM ENVIRONMENT INSTITUTE

AGUA 2013
El riesgo en la gestión del agua

International Seminar
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Presentation

Human activity, urbanization processes, industrialization and population growth drive the transformation of ecosystems and natural environments. These interventions change the natural water cycle which may affect the provision of water, storm water drainage and the collection, transport, treatment, reuse and disposal of wastewater. Risks related to water quality and water quantity increase with the growing over exploitation and pollution of water resources and these are further aggravated by global warming. This condition affects surface and ground water as well as water in the marine environment which may result in limited access and availability of water for different uses.

Risk management is a concept that allows identifying, assessing and prioritizing potential sources of threats, causes and consequences. Social, cultural, economical, environmental and institutional conditions of population are part of this concept. It involves the knowledge of the nature and extent of the damages or losses that may occur in the different elements of the water cycle. It also incorporates decision-making processes aiming at minimizing the effects on human health and the environment.

Scientific and technological innovation of recent decades has enabled the development of different methods and tools. Information and communication systems for risk assessment and forecast have allowed taking measures against problems of quantity, quality, floods and droughts management.

Objectives

- To create a space for academic discussion about risk assessment and strategic risk management in the water cycle.
- To disseminate knowledge, ideas, experiences and innovations on risk management among participants and representatives of international and national research groups.
- To contribute to strengthening networks of stakeholders and organizations involved in water resource risk management.

The scientific program topics include but are not limited to:

- Rural and urban hydrology and drainage systems
- Early warning systems
- Mitigation and adaptation strategies for Global Change
- Water uses and water quality criteria
- Groundwater quality management
- Technology and risk management strategies

Keynote speakers

Gerardo Galvis (Nicaragua): Sanitary Engineer, MSc University of Newcastle Upon Tyne, UK and PhD at the University of Surrey, UK (1999). He started as a consulting engineer in the 70's. Later he joined the Faculty of Engineering of the Universidad del Valle as a lecturer and researcher until 2000. In the 80's he led the foundation of Cinara Institute as Director, contributing to the strengthening of research and development activities and started the postgraduate program in Environmental and Sanitary Engineering. Since 2000, he has been working at the Pan American Health Organization on issues related to Sustainable Development and Environmental Health. At the beginning, he worked at the Central Office of PAHO/WHO, Washington DC, USA and later in CEPIS Lima, Peru and representations for PAHO / WHO in Costa Rica and Nicaragua.

Lucila Candela (Spain): Geologist, PhD in Groundwater Hydrology (1984). Associated Professor in Engineering Geology at the Universitat Politecnica de Catalunya (UPC), Barcelona, Spain. She has been manager R&TD of both ERANETs and Water Resources Programmes from the Ministry of Science and Innovation (Spain). Her field of specialization is groundwater hydrology focuses on the unsaturated zone and groundwater pollution by heavy metals, emerging micro-pollutants, pesticides and nitrates. Dr. Candela has coordinated and participated in projects sponsored by national and international organizations such as UNESCO, government institutions and private companies.

Manfred Schütze (Germany): Mathematician, MSc University of Hannover, Germany, PhD (1998) and postdoctoral research (2001) degrees at Imperial College (London). Dr. Schütze works as Research Engineer at the IFAK - Institut für Automation and Kommunikation at Otto-von-Guericke of the University of Magdeburg, Germany. His fields of specialisation and research include: modelling and simulation of urban water systems; development of real time control strategies of urban drainage systems; mathematical optimisation; development and implementation of knowledge systems in structural engineering; and development of concepts and software for environmental data management. He is the coordinator of the Peruvian-German cooperation project "Sustainable Water and Wastewater Management in Urban Growth Centres Coping with Climate Change - Concepts for Lima Metropolitana (Perú) - (LiWa)"

Marisa Escobar (USA): Civil Engineer, MSc in Civil and Environmental Engineering at the University of the Andes, Colombia, MSc University of California, Berkeley and PhD in Hydrological Sciences at the University of California, Davis (2008). She is currently Senior Researcher of the Stockholm Environment Institute (SEI). Marisa's work focuses on creating linkages between physical processes and socio-ecological systems. She uses her expertise on water, including water quality, the physics of water, and the movement of water through watersheds, to produce information on the implications of decisions about water on the overall ecosystem. Her work in Latin America has focused on analysis of water resources decision making under climatic uncertainty, especially in watersheds with glaciers from Peru and Bolivia. She supports participatory processes and study of strategic ecosystems and mountain hydrology in Andean Rivers in northern Peru and Colombia.

Nilo de Oliveira Nascimento (Brazil): Civil Engineer, MSc degree in Applied operational hydrology Ecole Polytechnique Fédérale de Lausanne, Switzerland, Master and PhD degree in Environmental Science and Techniques, Ecole Nationale des Ponts et Chaussées (1995). He was member of the IWA Joint Committee on Urban Drainage-HDI (2005-2011). He has experience in sanitary engineering with emphasis on flood control and dams; urban hydrology; urban stormwater drainage; rainfall-runoff modeling; urban planning; and advanced techniques in storm drainage systems. He is associate professor at the Federal University of Minas Gerais, UFGM and currently he is deputy Director of International Relations at the UFMG

Pedro Restrepo (USA): Hydrologist, MSc and PhD (1982) degrees in hydrology and water resources systems at Massachusetts Institute of Technology, MIT. Before joining NOAA in 2003, he worked in consulting engineering developing and applying advanced hydrology and water resources techniques on projects in North, Central and South America, Europe and Asia, for a number of customers, including the World Bank, Inter American Development Bank, Government Agencies and the private sector. Dr. Restrepo's professional career covers national and international experience in the private sector, academia and now in Government. Since 2003 he has worked as Senior Scientist in the Hydrology Laboratory of NOAA's -National Weather Service Office of Hydrologic Development until October, 2012, and, since then, as Hydrologist in Charge at the National Weather Service North Central River Forecast Center.

Scientific Committee

- Alberto Galvis, MSc. Cinara Institute – Universidad del Valle. Colombia
- Carlos Molano, PhD. Universidad de los Andes. Colombia
- David Purkey, PhD. SEI Water and Sanitation Program in the United States. USA
- Elías Rosales, MSc. Instituto Tecnológico de Costa Rica. Costa Rica
- Gerardo Galvis, PhD. PAHO/WHO. Nicaragua
- Inés Restrepo, PhD. Universidad del Valle. Colombia
- Jan Teun Visscher, PhD. Visiting lecturer Universidad del Valle. The Netherlands
- Janeth Sanabria, PhD. Universidad del Valle. Colombia
- Juan C. Bertoni, PhD. Universidad Nacional de Córdoba. Argentina
- Julio Moscoso, MSc. Universidad Agraria La Molina. Peru
- Lucila Candela, PhD. Universidad Politécnica de Cataluña. Spain
- Manfred Schütze, PhD. IFAK, Institut für Automation und Kommunikation Magdeburg. Germany
- Micha Werner, PhD. UNESCO-IHE. The Netherlands
- Nilo de Oliveira Nascimento, PhD. Universidade Federal de Minas Gerais, UFMG. Brazil
- Wouter Buytaert, Imperial College, Great Britain

Submission procedure

Interested authors are invited to submit an abstract in one or more of the areas identified above to the co-ordinator of the seminar via e-mail before 30th May 2013. Submitted abstracts will be assessed by the scientific committee of the seminar. If your abstract has been accepted as a paper or poster presentation, notifications will be emailed to the first author.

Abstracts of 1000 - 1200 words are accepted in Spanish, English or Portuguese with a brief description of the topic, research methods and main results and conclusions. They should be presented single spaced in Times New roman and font size 12 pt. Abstracts should include the title, author name(s), institution, full postal, phone contact and e-mail addresses for each author. Furthermore a maximum of five key words needs to be included.

Important dates

- Deadline submission of abstract: until 30th May 2013
- Author´s notification: 15th June 2013
- Deadline submission of full paper: 30th August 2013
- Conference: 15th October 2013
- Seminar: 16th to 18th October 2013

Fees

Participant´s registration before 31st July 2013:	800.000 COP (470 USD)
Participant´s registration after 1st August 2013:	900.000 COP (515 USD)
Speakers:	750.000 COP (441 USD)
Bachelor´s students (10 maximum)	430.000 COP (253 USD)
Representative from community organizations (10 maximum)	430.000 COP (253 USD)

The fees include attending the International Conference and the Seminar.

Official languages

Spanish and English are the official languages of the Seminar

Organized by:

Research group, Integrated Water Resources Management
Cinara Institute, Faculty of Engineering, Universidad del Valle, Cali, Colombia

Contact information

Alberto Galvis, alberto.galvis@correounivalle.edu.co
Diana Amparo Cardona, diana.a.cardona@correounivalle.edu.co

Host city: Cali, Colombia

Cali is the third largest city of Colombia (2.3 million inhabitants approximately). It is located about 140 km from Buenaventura, Colombia's main port on the Pacific Ocean and 480 km from Bogotá, the country´s capital. Cali is the capital of the department of Valle del Cauca, one of the most fertile regions of Colombia.

The city is nice and warm, with an average temperature of 24 °C and relative humidity of 75 %. Cali is located at an altitude of 1000 meters above sea level on the geographic Valley of the Cauca River and near to the Western Mountain Range. The total area is 564 km^2.

Cali is the main sports center of Colombia, being the only Colombian city to have hosted the Pan American Games (1971) and will host the ninth edition of the World Games in 2013, the UCI Track Cycling World Championships in 2014, and the World Youth Championships in Athletics in 2015. Cali is also known as the "Capital de la Salsa" given the city's infatuation with Afro-Caribbean music.

http://www.cali.gov.co/

Venue: Club Campestre of Cali

The Club Campestre was created in 1930. This club accounts with excellent sporting facilities in which activities such as golf, polo, tennis, soccer, swimming, squash, dressage, jumping, vaulting, bridge, chess, gym and more take place. It has an important social area, where there have been major events such as the Festival of Orchestras. Without leaving the city you will find at the Club Campestre, the perfect balance between nature, exclusivity and comfort of its services.

Location: Calle 5 Cra. 100 in front of Unicentro shopping center. Cali –Colombia, Phone: +57 2 33360 00

http://www.campestrecali.com/index.php