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**CEDEX**

# 3<sup>rd</sup> IAHR EUROPE CONGRESS Water - Engineering and Research

14-16 April, 2014

Faculty of Engineering of the  
University of Porto, Portugal

## Second Bulletin

<http://www.fe.up.pt/iahr2014>

Organization



Sponsors



## The Congress

On behalf of IAHR Europe Regional Division, the LOC invites you to participate in the **3<sup>rd</sup> IAHR Europe Congress** at FEUP, Porto, Portugal, from April 14 through 16, 2014. With our fresh and innovative congress concept we want to welcome researchers as well as practitioners. To encourage the exchange of ideas we will offer panel discussions and workshops. The IAHR Europe Congress will provide excellent opportunities for social networking during your stay in Porto, e.g. with industry. You will also experience cultural and social events.

## Registration

### Who should attend?

The 3<sup>rd</sup> IAHR Europe Congress is a 'must attend' conference for professionals involved in all aspects of hydraulics, water resources, and the environment, especially engineers, economists, operators, planners, and policy-makers – from private firms, government agencies and universities in Europe and all over the world.

	Early Bird till 14.02.2014	Normal	Late from 14.03.2014
Full Delegate	350€	400€	450€
IAHR   APRH   ABRH Members*	300€	350€	400€
Students	200€	250€	300€

\*with membership payed; APRH | ABRH, Portuguese and Brazilian Water Resources Associations

All registration fees include: social events (welcome drink, reception and congress dinner), coffee breaks and lunch every congress day (total of 3 lunches), access to sessions and one technical visit, a CD of proceedings and a book of abstracts.

More information about **how to register in the congress website**.

## Agenda-At-A-Glance

	Sunday 13.04.2014	Monday 14.04.2014	Tuesday 15.04.2014	Wednesday 16.04.2014	Thursday 17.04.2014
08:00 - 08:30		<b>Registration</b>			
08:30 - 09:00		Opening Ceremony Keynote 1	Sessions 13-16	Sessions 25-28	<b>Technical Visits:</b>  Harbour - Half day Dam - Half day Dam - Full day
09:00 - 09:30					
09:30 - 10:00					
10:00 - 10:15		Keynote 2	Keynote 3	Keynote 4	
10:15 - 10:30					
10:30 - 11:00					
11:00 - 11:30		<b>Coffee - Break</b>	<b>Coffee - Break</b>	<b>Coffee - Break</b>	
11:30 - 12:00		Sessions 1-4	Sessions 17-20	Thematic	
12:00 - 12:30				Workshops (3) &	
12:30 - 13:00				Technical Sessions	
13:00 - 14:00		<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	
14:00 - 14:30		<b>Poster Session</b>	<b>Poster Session</b>	<b>Poster Session</b>	
14:30 - 15:00		Sessions 5-8	Sessions 21-24	Sessions 29-32	
15:00 - 15:30					
15:30 - 16:00					
16:00 - 16:30	<b>Registration</b>	<b>Coffee - Break</b>	<b>Coffee - Break</b>	<b>Coffee - Break</b>	
16:30 - 17:00		Sessions 9-12	Thematic	Closing Ceremony	
17:00 - 17:30	<b>Welcome Drink (FEUP)</b>		Workshops (4)		
17:30 - 18:00	<b>Musical Moment</b>				
20:00 - 21:30		<b>Reception (Port Wine Cellars)</b>	<b>Congress</b>		
21:30 - 23:00			<b>Dinner</b>		

## Thematic Workshops

### New Visions on Sediment Transport

Aronne Armanini (Univ. degli Studi di Trento, IT)

### Climate Change Impacts on Hydraulics and Water Resources

Roberto Ranzi (Univ. degli Studi di Brescia, IT)

### Advanced Numerical Methods in Morphodynamics

Pilar Garcia-Navarro (Univ. de Zaragoza, ES)

### Hydrodynamics of vegetated flows: Turbulence, flow resistance, mixing, sediment transport

Vladimir Nikora (Univ. of Aberdeen, UK)

### Marine Energy

Martin Wosnik (Univ. of New Hampshire, USA)

### Medium to Long-term Coastal Evolution

Marcel Stive (Technical Univ. of Delft, NL)

### Advanced Pressure Transient Analysis

Helena Ramos e Dída Covas (Univ. de Lisboa, Instituto Superior Técnico, Portugal)

## Conference Themes & Keynote Speakers

- A **Hydro-Environment and Eco-hydraulics**
- B **Maritime Hydraulics and Coastal Engineering**
- C **Sustainable Water Resources and Hydraulic Engineering**
- D **Uncertainty, Extremes and Climate Change**



### **Water: the challenge of sustainability** **Francisco Nunes Correia**

Full Professor of Water Resources and Environment at Instituto Superior Técnico – University of Lisbon, Portugal and member of the National Water Council; Former President of the National Laboratory for Civil Engineering, Technical Advisor of the Portuguese Ministry for Environment and Natural Resources and former Ministry for the Environment, Spatial Planning and Regional Development .



### **Mitigation of climate change in the hydraulic environment** **Suzana Kahn Ribeiro**

Green Economy Sub Secretary of the Rio de Janeiro State Secretariat of Environment; Associate Professor of Transport Planning at UFRJ; Vice-Chair of the Working Group III – IPCC; Former member of the Steering Committee - GAP “Emissions Gap report”, European Climate Foundation; President of the Scientific Committee of Brazilian Panel on Climate Change and Consultant for the Brazilian R&D Council.



### **Coastal engineering challenges in a changing world** **Steven A. Hughes**

Former Research Hydraulic Engineer at the U.S. Army Engineer Research and Development Centre, CHL, Vicksburg, MS. Worked on the practical application of laboratory experimentation and small-scale physical models in several fields and technology transfer of research into practical engineering guidance. At the moment is Senior Research Scientist at Colorado State University, Fort Collins, CO.



### **Ecosystem hydrodynamics:** **conceptual framework, recent advances, and perspectives** **Vladimir Nikora**

Sixth Century Chair in Environmental Fluid Mechanics, Leader of the Environmental and Industrial Fluid Mechanics Research Group, University of Aberdeen, School of Engineering, UK. His current research activities are: mechanics of environmental rough-bed water flows and flow-biota interactions at multiple scales. Fellow of the Royal Society of Edinburgh, and 2010 Hunter Rouse Hydraulic Engineering Award of the ASCE (“The award recognizes outstanding contributions to hydraulics and waterways”).

## Sessions

Selected papers' authors will be invited to extend it for international publication Journals.

**More information on the congress website.**

## Key Dates

<b>Acceptance Abstract</b>	<b>09.10.13</b>
<b>Deadline Paper</b>	<b>15.12.13</b>
<b>Final Acceptance Paper</b>	<b>15.01.14</b>
<b>Early Bird till</b>	<b>14.02.14</b>



**IAHR CONGRESS**  
**14.04 - 16.04.2014**

## Young Researchers

Be recognized for your outstanding achievements! Young Professionals presenting at the Congress have the opportunity to participate in the YP Award competition – given for outstanding technical paper and presentation authored and presented by a Young Professional at the 3<sup>rd</sup> IAHR Europe Congress.

## Exhibitors / Sponsors

The IAHR 2014 Europe Congress is an invaluable opportunity to network and discuss your products and services with key industrial, governmental and academic officials from numerous nations. The congress schedule allows multiple opportunities for attendees to visit the exhibition hall and learn more about the broad array of products and services available to help them be more effective.

**Registration to exhibit sponsors is now open.**

More information visit the congress website!

## Technical Sessions

Two technical special sessions are planned for Exhibitors/Sponsors during the congress, one focussed on software and equipment and the other on hydraulic works. Exhibitors/Sponsors will have time allocated to present themselves, their products and relevant works.

## Local Organizing Committee

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**Francisco Taveira Pinto** (Univ. do Porto, Faculdade de Engenharia)

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**Jorge Matos** (Univ. de Lisboa, Instituto Superior Técnico)

**Luciana das Neves** (Univ. do Porto, Faculdade de Engenharia/IMDC nv BE)

**Paulo Rosa Santos** (Univ. do Porto, Faculdade de Engenharia)

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**Silke Wieprecht** (DE)

**Stefan Riedelbauch** (DE)

**W.S.J. Ijttewaall** (NL)

## Welcome To Porto, World Heritage



The Portuguese northern city of Porto is the second largest city in the country and was elected the “**Best European Destination 2012**”. It was in Porto that the independent Portugal was born in the 12th century. The city lies on the right bank of the Douro River and the historic centre was awarded **UNESCO World Heritage**, in 1996, due to its numerous medieval, baroque, neoclassic churches and palaces. But it is in the narrower streets where the unique atmosphere of the old Porto is to be found, where cultural heritage is an everyday fact of life. In addition, the surrounding region is of major industrial and commercial importance, noted for its textiles, shoes, furniture and jewellery, known for its cuisine, wines and the unique combination of tradition and modernity. Porto is also internationally known for exporting the famous Port wine.

Looking further ahead in 2014, congress participants will meet a Porto that offers a variety of resources and historic authenticity to its visitors. Experience a perfect combination of tradition and modernity and enjoy the unique atmosphere of Porto attending the 3<sup>rd</sup> IAHR Europe Congress 2014!

## Travel And Accommodation

A number of hotels were booked with special rates for the 3<sup>rd</sup> IAHR Europe Congress. The chosen hotels are strategically located near to the easiest way to reach FEUP. To make your Hotel reservation, please use the online registration form available from the congress website.

You may also get in touch through VIAGENS ABREU SA

**Mrs. Lurdes Catalino**

**Phone** +351 22 2043570

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Abreu PCO - Oporto Office

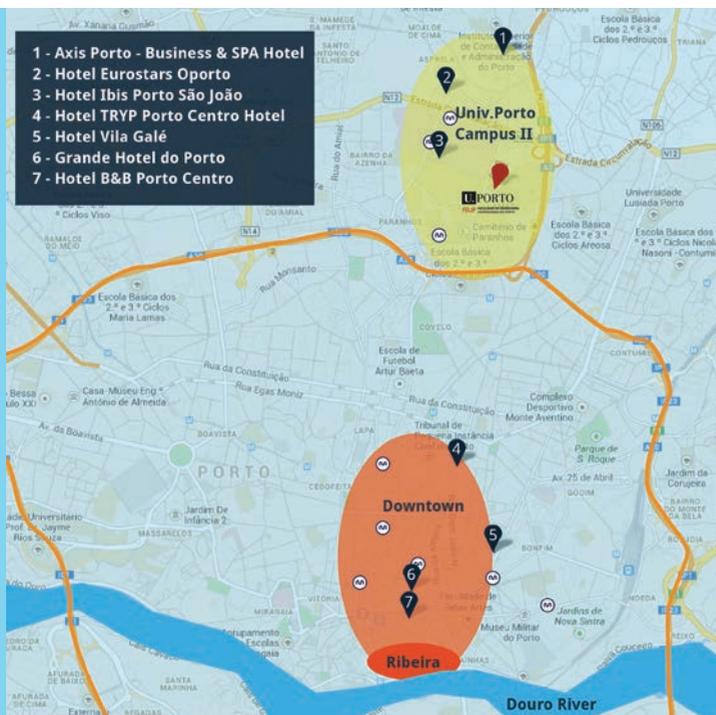
Av. dos Aliados, 207

4000-067

Porto Portugal

Delegates, preferring other low cost accommodation, are kindly requested to follow information available on the congress website.

## Venue and Selected Hotel's Location



## For More Info, Please Do Get In Touch

Visit our website for info on registration, accommodation and other logistic or congress program details. Submission details are also available online.

<http://www.fe.up.pt/iahr2014>

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