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# International Symposium on Outfall Systems

## Mar del Plata, Argentina, 15-18 May, 2011

### Invitation

The Organizing Committee cordially invites those interested to attend the **International Symposium on Outfall Systems**, to be held in Mar del Plata, Argentina. The symposium is organized by the **IAHR/IWA** Joint Committee on Marine Outfall Systems, and sponsored by



Ente Nacional de Obras Hídricas de Saneamiento, **ENOHSA** (National Entity of Water and Sanitation Works, Argentina, Eng. Edgardo Bortolozzi),

OBRAS SANITARIAS



Obras Sanitarias Mar del Plata Sociedad de Estado, **OSSE** (Mar del Plata Public Works, Eng. Mario dell'Olio)



Municipalidad de General Pueyrredón, **MGP** (Municipality of General Pueyrredón Party, Public accountant Gustavo Pulti)

**AIDIS**, Inter-American Association of Sanitary and Environmental Engineering,



and the **World Bank** in cooperation with the **Spanish Government**.



### Important dates:

Abstract submission	<b>Extended: 8 Mar 2011</b>
Notification of acceptance	10 Mar 2011
Registration (for presentation)	30 Mar 2011
Full paper submission	30 April 2011
Cocktail and opening	15 May 2011
Symposium	16-18 May 2011
Technical tours	19 May 2011

### Venue

The City of **Mar del Plata** is known as “the Happy City.” Located in the Province of Buenos Aires, it is the most important seaside tourist center in the Republic of Argentina. Mar del Plata has a temperate climate with masses of warm and humid sub-tropical sea air. Besides an exceptional sea, Mar del Plata has cliffs, sand hills and vast sandy beaches ideal to enjoy summer walks, cycling or riding. Visitors may watch sea lions and the routine of seamen that return with their catches everyday or taste all kinds of seafood and fish in the dozens of restaurants located in the area.



Plaza Colon, Mar del Plata, Argentina



Urban coastal zone of Mar del Plata

Mar del Plata is the perfect combination for those who seek quietness and relax as well as the possibility of finding the constant hustle and bustle in each corner of town.

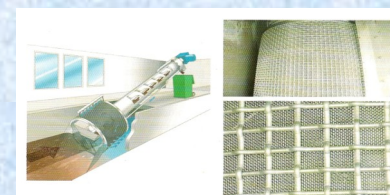
A major sanitation project is being finalized with the installation of a submarine outfall, which can be visited during the technical tours after the symposium.

### Objectives and Mission

The main objectives of the Symposium are to advance the science and technology of all aspects of discharges from outfalls and their design, and to facilitate communication between the diverse groups of practitioners, regulators, and financing agencies in the field.

The committees recognize the considerable potential for integrated systems of wastewater treatment and disposal that consider the response of the receiving waters and their natural assimilative capacity.

The design and siting of submarine outfalls is a complex task that relies on many disciplines including oceanography, civil and environmental engineering, marine biology, construction, economics, and public relations. These diverse disciplines are rarely brought together and the strength of the symposium is the linkage of the expertise of IWA, which is more oriented towards wastewater treatment and water quality issues (e.g. bacteria modeling, nutrient transformation, algae growth, sedimentation and flocculation processes), with the expertise of IAHR, which is more oriented towards hydraulics and fluid mechanics (e.g. jets and plumes, stratified flows, coastal flows, mixing and transport processes, physical and numerical modeling, wave forcing, pipe scouring, internal manifold hydraulics).



Preliminary treatment by rotating fine screens  
(Courtesy Huber Technology)

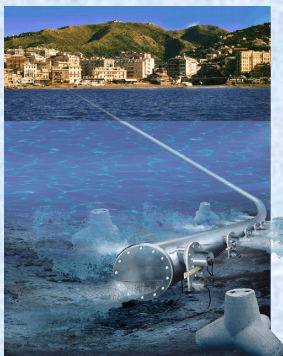
### Exhibition

International manufacturers, consultants, planners, and authorities are invited to rent exhibition space at the symposium. Please contact: [symposium2011@osmgp.gov.ar](mailto:symposium2011@osmgp.gov.ar)

## Themes

The Symposium welcomes contributions from engineering, natural and socio-economic sciences. Presentations are expected on appropriate effluent treatment, discharge and fate modeling, monitoring, construction and installation, as well as case studies, reviews of current discharge practice and discharge legislation and policy papers, all relating to effluent discharges into aquatic ecosystems, relevant to the following themes:

- Wastewater treatment for large outfall systems
- Stormwater and CSO discharges
- Cooling water intake/outfall systems
- Desalination brine and industrial discharges
- Environmental processes and impacts
- Field measurements and techniques for hydrodynamic and water quality monitoring
- Mixing and transport processes
- Experimental techniques
- Computational techniques
- Materials, construction, installation
- Monitoring
- Outfalls & Coastal-zone or river-basin management
- Regulatory issues of discharges
- Public health



## Committees

### International Scientific Committee:

- P. Roberts, Georgia Tech, USA (Chair)
- T. Bleninger, KIT + UFPR, DE (Vice-chair)
- P.A. Davies, Univ. Dundee, UK
- A. Law, Nanyang Tech. Univ., Singapore
- M. Libhaber, World Bank, USA
- A. Ahmed, Hydraulic Research Inst., Egypt
- C. Alvarez, IH Cantabria, Spain
- A. R. Mateo, CEDEX, Spain
- K. Murali, IIT Madras, India
- J. P. Ortiz, USP, Brazil

- C. D. Memos, NTU Athens, Greece
- H. Salas, PAHO, Peru
- J. Tao, Tianjin Univ., China
- C. Mead, HR Wallingford, UK
- A. Purnama, SQU, Oman
- A. Menendez, INA, Argentina
- P.C.C. Rosman, UFRJ, COPPE, Brazil
- I. Pedra-Cueva, Univ. de la Republica, Uruguay
- J.L. Carvalho, Univali, Brazil
- W. Frick, EPA, USA
- Enrique Peña, Univ. da Coruña, Spain
- R. Fernandez, Univ. de Cordoba, Argentina
- E. Yassuda, ASA South America, Brazil
- J.P. Schifini, AIDIS, Latinoconsult, Argentina

### Local Organizing Committee:

- Marcelo Scagliola, OSSE (Chair)
- Ana Paula Comino, OSSE (Vice-chair)
- Gabriela von Haeften, OSSE
- Pascual Furchi, (OSSE)
- Miguel Lagarrigue, (ENOHSA)

Installation of Mar del Plata outfall



## Registration

All presenters and attendees will be required to register for the Symposium. The registration fee includes attendance of the technical program, the proceedings, the welcome reception, banquet, coffee breaks and light lunches.

Registration is available online under [www.osmgrp.gov.ar/symposium2011/](http://www.osmgrp.gov.ar/symposium2011/)

A discount will be provided for IAHR and IWA members. Special rates will apply for students of recognized status, and participants from Latin America.

## Paper submission

The Symposium program will feature oral presentations. All presenters must submit an abstract (500 words) electronically to the scientific committee (outfalls@ifh.uka.de). The abstracts will be reviewed by members of the international scientific committee. All accepted abstracts allow for oral presentation and inclusion of full papers in the proceedings. Full papers should be not more than 6 pages in length, and will be reproduced and distributed to all conference attendees on CDROM provided there is at least one registration per paper and the paper submitted in time.

The official language of the Symposium is English, to be used for the presentation files and written material. Written material in Spanish should at least have a short translation to English. Oral presentations will have simultaneous translation (Spanish-English). Excellent manuscripts will be considered for publication subject to peer review in the ISI rated journals of IAHR or IWA.

## Contact

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Symposium URL: [www.osmgrp.gov.ar/symposium2011/](http://www.osmgrp.gov.ar/symposium2011/)



Schematic of a jacked outfall from a cliff top (Courtesy Herrenknecht AG)