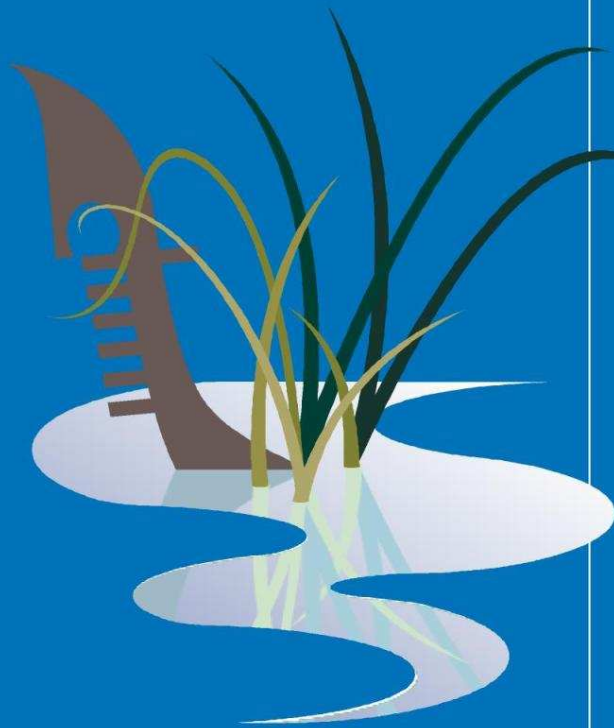




Specialist  
Conferences



# Conference Call for Papers

12th IWA International Conference  
Wetland Systems  
for Water Pollution Control

TECHNICAL SECRETARIAT:



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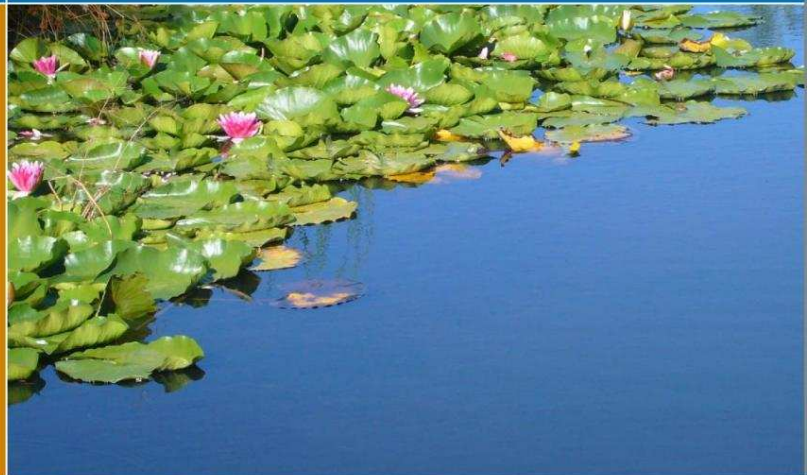


*Ministero dell'Ambiente e  
della Tutela del Territorio e del Mare*

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SPECIALIST CONFERENCES



4th - 9th October 2010

Venice, Italy



## 12th IWA International Conference Wetland Systems for Water Pollution Control

Constructed wetlands (CWs) have been adopted by many Italian communities as a cost-effective mean of secondary and tertiary wastewater treatment, in order to meet more stringent standards and to lower operating costs. Some small systems have now been in existence for nearly 15 years, while wetland treatment systems for larger towns and small cities have become a more recent trend. Since 1999 CWs have been "officially" recognized as a treatment technology by the national legislation. At the same time some interesting applications of surface flow wetlands are operating in the treatment of agricultural runoff.

More than 1000 CW systems are operative at the moment in the country. Following several positive experiences with municipal and domestic wastewater treatment, there is now an increasing number of projects and realisations of CWs for diffuse pollution, like as agricultural runoff, highway and urban runoff (SUDs, CSOs...), for industrial applications (wineries, landfill leachates, animal breeding..) and finally for "Ecosan" related facilities (wastewater segregation, reuse...).

The IWA Specialist Group on the Use of Macrophytes in Water Pollution Control sets out to:

- act as a link between scientists working on the scientific and technical aspects of macrophyte usage in wetland systems (Constructed Wetlands, Reed Beds, Treatment Wetlands and converted natural wetlands) for water pollution control and resource recovery;
- contribute to coordinating research activities, defining research needs and promoting exchange of results;
- develop a commonly-accepted model on the functioning of macrophyte-based wastewater treatment systems and produce guidelines;
- establish standardised guidelines for reporting performance of macrophyte-based wastewater treatment systems.





## Preliminary Programme

Saturday, October 2, 2010 > Registration

Sunday, October 3, 2010 > Registration - Poster set-up - Pre-Conference Tour: *Natural Wetlands; Po River delta; Venice Lagoon islands; exploring Venice* - Welcome Reception Cocktail

Monday, October 4, 2010 > Welcome and Inaugural Session - Plenary Session - Parallel Sessions

Tuesday, October 5, 2010 > Parallel Sessions

Wednesday, October 6, 2010 > Parallel Sessions - Specialist Group Meeting - Gala Dinner

Thursday, October 7, 2010 > Conference Technical Trip: *Constructed Wetlands in Northern Italy*

Friday, October 8, 2010 > Plenary Session - Conclusive Remarks - Afternoon: Workgroups

Next days > *Cultural Post-conference programme (for info contact organizing secretary)*



## Conference Themes

**Process Dynamics** > Hydrology, Biochemistry, Kinetics, Vegetation, Substrate, Microbiology, Biotechnology, Biodiversity

**Landscaping** > Green Roofs, Vertical Farming, Sustainable Urban and Agricultural Drainage, Recreational Concepts, Natural Swimming Pools

**Case studies** > Municipal Wastewater, Industrial Wastewater, Agricultural and Animal Wastewater, Landfill Leachate, Acid Mine Drainage, Sludge Dewatering, Stormwater, Combined Sewer Overflow, Groundwater Remediation, On-site Bioremediation, Non-Point Source Control, Highway runoff, Riparian Buffer Zones, Wetland Restoration, Stagnant Water Bodies and Slow Flowing River, and "Lessons Learned"

**Design criteria and Operation policies** > Hydraulics, Sizing Criteria, Vegetation Management, Modelling and Optimisation, Environmental Factors

**Treatment Performance of Wetlands in Water Pollution Control** > Organics, Suspended Solids, Nutrients, Heavy metals, Microorganisms, Protozoa and Metazoans, Invertebrates, Sludge Dewatering, Wetland-WSP Hybridisation

**Economics** > Investment Costs, Operation and Maintenance costs, Ancillary Benefits, Ecological Services versus Conventional technologies, Biomass Production

**Application of CWs** > Water Reuse, Ecosanitation, Sustainable Water Management

**Environmental Issues** > Greenhouse Gases, Life Cycle Assessment, Energy Assessment, Biodiversity, Clean Development Mechanism, Emission Trading Scheme, Joint Implementation

**CWs components** > New Materials, Hydraulic Devices, Innovative Design Concepts, Patents, Maintenance Tools



## Scientific Committee

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Bavor John, Australia  
Billore Suresh, India  
Borin Maurizio, Italy  
Brix Hans, Denmark  
Bulc Tjasa, Slovenia  
Cirelli Giuseppe Luigi, Italy  
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Drizo Alexandra, USA  
Garcia Joan, Spain  
Green Michael, Israel  
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Headley Tom, New Zealand  
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Kantawanichkul Suwasa, Thailand

Katima Jamidu, Tanzania  
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Mander Ulo, Estonia  
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Molle Pascal, France  
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Rustige Heribert, Germany  
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Sun Guangzhi, Australia  
Tanner Chris, New Zealand  
Tonderski Karin Sundblad, Sweden  
Vymazal Jan, Czech Republic  
Wallace Scott, USA

## Steering Committee

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Toscano Attilio, Univ. of Catania  
Trevisiol Erich, Univ. of Venice  
Verlicchi Paola, Univ. of Ferrara  
Masciandaro Graziana, CNR Pisa  
Pineschi Giorgio, Ministry of Environment

## Field Trip

Bresciani Riccardo, IRIDRA

Tocchetto Davide, PAN

## Submission of papers

**SAVE THE DATE: 31-01-2010**

Oral presentation and poster presentation will be considered. The official language is English. Authors are invited to submit an abstract (maximum 300 words), indicating the preference as oral or poster presentation and the topic contribution, before **31st of January 2010**, at the authors section in [www.wetland2010.org](http://www.wetland2010.org). The Scientific Committee will evaluate the abstract and give the acceptance notification by **31st of March 2010**. Authors of both oral and poster presentations will be required to submit the final paper for publication in the Conference Proceedings by **30th of June 2010**.

The manuscripts will be reviewed and selected papers will be submitted for publication to related journals. Instructions for Authors will be available in due time at the website [www.wetland2010.org](http://www.wetland2010.org). At least one of the Authors must be registered at the Conference.



## Technical Visits

At the moment we are proposing two different technical trips.

### **Trip 1: Agriculture and Nature**

**(1) Integrated system of controlled drainage and wetland to reduce agricultural water pollution:** extended over a surface of about 6 ha, it reproduces, on scale, the feature of a typical agricultural basin of the Italian lowlands. The experiment is running since 1996; **(2) Buffer strips to control agricultural water pollution:** this experiment, running since 1988, is the oldest monitored buffer strip system in Italy; **(3) Multifunctional surface wetlands in an agricultural farm located at Cà di Mezzo:** the system, composed by 7 basins of about 12 ha treating Dese river water, is an astonishing example of multi-functionality of wetland systems located in a spectacular site in the Venice lagoon.



### **Trip 2: Industrial Wastewater**

**(1) Fusina CW tertiary treatment, Mestre (Venice):** the Fusina Integrated Project upgrades a large wastewater treatment plant treating municipal and industrial wastewater from an extensively populated area and a large industrial complex on the edge of the Venice lagoon. The CW, with a final surface of 110 ha will be one of, if not the largest, in Europe. **(2) Rovigo Province Landfill Site Leachates CW Treatment, Villadose:** a natural treatment system for leachates produced in a landfill site, made by a multistage plant with a total area of about 0.6 ha. **(3) Villesse-Gorizia Highway stormwater treatment by delocalised CW systems:** a natural treatment technologies was adopted as appropriate methods to minimize the highway runoff impact, to set environmental mitigation zones and to improve infrastructures landscaped insertion: the treatments, in total nearly 60 sites for 17 km of highway, consist in different types of CWs for stormwater treatment. **(4) Municipality of Preganziol (Venice):** a new social housing settlement (240 PE) includes innovative water systems for buildings, like as water saving, grey water reuse, rain water harvesting. Greywater and rainwater are treated by CW systems.





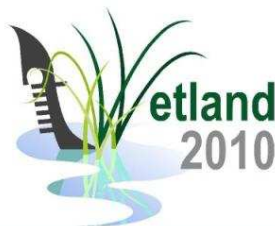
## Conference Venue

**Venice** is one of the most fascinating cities in Italy and in the whole world, and certainly will offer a good location to celebrate a wetland conference. **San Servolo** is one of the many Venice's islands, only 10 minutes away from **Piazza San Marco** or from the famous **Lido of Venice**, and well connected by a frequent ferry boat service. The island of San Servolo can host conferences and training courses which concern research, study, and training in scientific and cultural fields. The conference centre has 11 conference rooms offering space up to 600 delegates. San Servolo Servizi offers a reception service exclusively for activities related to conferences or study, research and training; for this it does not offer a hotel service. The reception and welcome service is available every day of the year. The residential and study centre is divided in six buildings situated in the park offering 193 bedrooms for a total of 319 beds.

*An early booking will give you the chance to be guest directly in the San Servolo guesthouse.*



On behalf of the Scientific and Steering Committees, we are delighted to invite you to the **12th IWA Specialist Conference on Wetland Systems for Water Pollution Control**, in the city of Venice, Italy, from 4 to 9 October 2010. We are looking forward to meeting you in October 2010, 24 years later the first specialist conference held in Chattanooga in 1988, with 32 years of history full of successful events in amazing and pleasant locations, offering **Venice as one of the most fascinating spots of our country and a perfect environment for the wetlands specialist group.**



## TECHNICAL SECRETARIAT

*Information, registrations, authors, sponsorships:*

**IRIDRA S.r.l. Constructed Wetlands and Sustainable Integrated Water Management**

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*Logistics, travel and hotel booking assistance:*

**PAN s.r.l. Piante, Acqua, Natura**

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