



UNIVERSITÉ  
PARIS XII  
VAL de  
MARNE



# 5th WORLD WIDE WORKSHOP FOR YOUNG ENVIRONMENTAL SCIENTISTS WWW-YES 2006

9 - 12 May 2006  
Domaine de Chérioux  
Vitry sur Seine – France

## Urban waters: Resource or Risk?

PROCEEDINGS

L'UNIVERSITÉ DE L'EAU  
Conseil Général du Val-de-Marne  
Université Paris 12

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2 QUAL	<b>BIANCHI CALERA</b>	Beatriz	National Institute of Hydraulics Resources & Havana Metropolitan Park <b>CUBA</b>	Water quality control in Almendares river; a challenge in watershed management.
3 QUAL	<b>HOLGUIN</b>	Javier	CINARA Univalle Cali <b>COLOMBIA</b>	Environmental impact modelling of discharged urban water in aquatic ecosystems receivers. Case study: City Cali & the Cauca River.
4 QUAL	<b>BOLUWADE</b>	Alaba	Département d'Ingénierie Civile, Université de NEW South Wales, <b>AUSTRALIA</b>	Modelling Opeki river flow for sustainable development in Oyo state Nigeria
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7 QUAL	<b>ODOULAMI</b>	Léocadie	Université d'Abomey-Calavi, Laboratoire : LECREDE <b>BENIN</b>	Water quality and sanitary consequences on the population of Cotonou (Benin)
8 QUAL	<b>NGOUTANE PARE</b>	Marie-Madeleine	University of Yaoundé I, Department of plant Biology and Physiology. Wastewater Research Unit Faculty of Science, University of YaoundeI- <b>CAMEROON</b>	Vulnerability of urban wetland aquatic flora communities to pollution: the case of messa wetlands (Yaoundé – Cameroon)
1 SOCIO	<b>SORS</b>	Eduard	Ecole d'Architecture de Paris Belleville Laboratoire IPRAUS-LIAIDE (CNRS) <b>FRANCE</b>	Urban hydrological shifts in time and space: from hydrophobe to hydrophage interactions and behaviours
2 SOCIO	<b>MAGNIANT (Ziba) R.</b>	Katia	Université de Reims - Champagne-Ardenne <b>FRANCE</b>	Year 2025, drinkable water for all in Ouagadougou : a difficult undertaking.
3 SOCIO	<b>MENDOZA BOHNE,</b>	Lourdes Sofia	International Graduate Social Studies, University of Bielefeld <b>GERMANY</b> Centro Universitario de Ciencias Sociales y humanidades, Universidad de Guadalajara <b>MEXICO</b>	The culture of the use of the water in everyday life. A social study case of two neighbourhoods in Guadalajara, México
4 SOCIO	<b>BELBEOCH</b>	Anne	ENPC Cereve <b>FRANCE</b>	Overview on a sociologic approach to meet the complexity of water supply in the process of decentralization in West Africa, more particularly in the small centres

Session	Speaker			Subject
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6 SOCIO	<b>ABRAHAM</b>	Ernest Mensah	International Water Management Institute <b>GHANA</b>	Maximizing the benefits of urban water resources for improved livelihood of city dwellers in Accra, Ghana
1 WWT	<b>HERNÁNDEZ BERNAL</b>	Norma Angélica	Minas Gerais Federal University, Sanitation and Environmental Engineering Department <b>BRESIL</b>	Rainwater harvesting as an alternative to diminish environmental and social vulnerability in the semiarid region of Minas Gerais State, Brazil
2 WWT	<b>MOURA</b>	Priscilla	INSA de Lyon - Unité de Recherche en Génie Civil <b>FRANCE</b>	Multicriteria procedure for the design and the management of infiltration systems
3 WWT	<b>PRANDINI</b>	Fausta	CeTamb, University of Brescia <b>ITALY</b>	CeTamb's experiences: drinking water management in India and wastewater treatments for agricultural applications in Senegal
4 WWT	<b>MORALES CAMPOS</b>	Cristian	Technical University of Havana & Havana Metropolitan Park <b>CUBA</b>	Urban constructed wetlands for domestics wastewater treatment in Havana.
5 WWT	<b>RASOANAND RASANA</b>	Emilienne	University of Reunion, Department of physique, LRGE2 <b>MADAGASCAR</b>	Contribution in the study of waste domestical and industrial water of Mahajanga: application in the management and méthanisation of the vinasse-distillery of the sugar industry and the slaughterhouse effluents
6 WWT	<b>UGARELLI</b>	Rita Maria	Bologna University, <b>ITALY</b> & NTNU, <b>NORWAY</b>	The decision support system CARE-S: pros and cons of the project after one year of application.
7 WWT	<b>VEERALADI NNE</b>	Nirmala	S.K. University, Anantapur (A.P), <b>INDIA</b>	Application of low-cost Agricultural wastes/by-products in the treatment of water and wastewater
8 WWT	<b>OPARAJI</b>	Bartholomew Udochukwu	Federal University of Technology, Owerri, <b>NIGERIA</b>	Evaluation of an integrated bio-coagulant-sand filter for domestic water treatment in Nigeria urban cities

# PROGRAMME

**Tuesday, 9 May 2006**

**09h00 Opening of the workshop**

**First session: Water quality**

**09h30** Indicators and standards for assessing and managing water quality.

ALEGUE FEUGO Jean Duclos

*Brandenburg University of Technology, Cottbus, GERMANY*

**10h00** Water quality control in Almendares river; a challenge in watershed management.

BIANCHI CALERA Beatriz

*National Institute of Hydraulics Resources & Havana Metropolitan Park CUBA*

**10h30 Coffee break**

**10h45** Environmental impact modelling of discharged urban water in aquatic ecosystems receivers. Case of study: Cali city and the Cauca River.

HOLGUIN Javier

*CINARA Univalle Cali COLOMBIA*

**11H15** Modelling Opeki river flow for sustainable development.in oyo state Nigeria

BOLUWADE Alaba

*Département d'Ingénierie Civile, Université de NEW South Wales, AUSTRALIA*

**12H00 Lunch**

**13H30** Study and elaboration of surface water ressource maps in Tafna river's basin in the West of Algeria"

DJEDIAI Houria

*University of Science and Technology Mohamed Boudiaf ORAN, ALGERIA*

**14H** The impact of roofing materials on metal runoff in urban stormwater

ROBERT Pauline

*ENPC Cereve FRANCE*

**14H30** Water quality and sanitary consequences on the population of Cotonou (Benin)

ODOULAMI Léocadie

*Université d'Abomey-Calavi, Laboratoire : LECREDE BENIN*

**15H00 Coffee break**

**15H15** Vulnerability of urban wetland aquatic flora communities to pollution: the case of messa wetlands (Yaoundé – Cameroon)

NGOUTANE PARE Marie-Madeleine

*University of Yaoundé I, Department of plant Biology and Physiology. Wastewater Research Unit Faculty of Science, University of YaoundeI- CAMEROON*

**Second session: Socio cultural aspects of water use**

**15H45** Urban hydrological shifts in time and space: from hydrophobe to hydrophage interactions and behaviours

SORS Eduard

*Ecole d'Architecture de Paris Belleville Laboratoire IPRAUS-LAIADE (CNRS)FRANCE*

**16H15** Year 2025, drinkable water for all in Ouagadougou: a difficult undertaking.

MAGNIANT (Ziba) R. Katia

*Université de Reims - Champagne-Ardenne FRANCE*

**16H45** The culture of the use of the water in everyday life. A social study case of two neighbourhoods in Guadalajara, Mexico

MENDOZA BOHNE Lourdes Sofia

*International Graduate Social Studies, University of Bielefeld GERMANY Centro Universitario de Ciencias Sociales y humanidades, Universidad de Guadalajara MEXICO*

**17H15** Overview on a sociologic approach to meet the complexity of water supply in the process of decentralization in West Africa, more particularly in the small centres

BELBEOCH Anne

*ENPC Cereve FRANCE*

**Wednesday, 10 May 2006**

**09h00** Water's question in urban area of Algiers : Vulnerability factors and resilience capacity of Algerian urban areas towards hydro climatic risks

AROUA Najet

*Ecole Polytechnique d'Architecture et d'urbanisme. Algiers. Research Unit on "Architecture and Environment" ALGERIA*

**10h30** Maximizing the benefits of urban water resources for improved livelihood of city dwellers in Accra, Ghana

ABRAHAM Ernest Mensah

*International Water Management Institute GHANA*

**10h00** **Coffee break**

**Third session: Water treatment systems**

**10h15** Rainwater harvesting as an alternative to diminish environmental and social vulnerability in the semiarid region of Minas Gerais State, Brazil

HERNÁNDEZ BERNAL Norma Angélica

*Minas Gerais Federal University, Sanitation and Environmental Engineering Department, Hydric Resources BRESIL*

**10H45** Multicriteria procedure for the design and the management of infiltration systems

MOURA Priscilla

*INSA de Lyon - Unité de Recherche en Génie Civil FRANCE*

**11H15** CeTAmb's experiences: drinking water management in India and wastewater treatments for agricultural applications in Senegal

PRANDINI Fausta

University of Brescia ITALY CeTAmb,

**12H00** **Lunch**

**13h30-17h30** **Technical Visit WWTP Valenton (SIAAP)**

<b>Thursday, 11 May 2006</b>
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**09h00** Urban constructed wetlands for domestic wastewater treatment in Havana.

MORALES CAMPOS Cristian

*Technical University of Havana & Havana Metropolitan Park CUBA*

**10h30** Contribution in the study of waste domestical and industrial water of Mahajanga: application in the management and méthanisation of the vinasse-distillery of the sugar industry and the slaughterhouse effluents

RASOANANDRASANA Emilienne

*University of Reunion, Department of physique, LRGE2 MADAGASCAR*

- 10h00**      **Coffee break**
- 10h15**      The decision support system CARE-S: pros and cons of the project after one year of application.  
UGARELLI Rita Maria  
*Bologna University, ITALY & NTNU, NORWAY*
- 10H45**      VEERALADINNE Nirmala  
Application of low-cost Agricultural wastes/by-products in the treatment of water and wastewater  
*S.K University, Anantapur (A.P), INDIA*
- 11H15**      Evaluation of an integrated bio-coagulant-sand filter for domestic water treatment in Nigeria urban cities  
OPARAJI Bartholomew Udochukwu  
*Federal University Of Technology, Owerri, NIGERIA*
- 12H00**      **Lunch**
- 14h00-17h30**      **International collaborative project design**  
During this afternoon the workshop participants will work together within small groups and prepare several collaborative research project. These projects aim at improving South-North collaboration on water management

<b>Friday, 12 May 2006</b>
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- 09h00-12h00**      **International collaborative project design**  
During this morning the workshop participants will finalize their collaborative research project
- 12H00**      **Lunch**
- 14h00-17h00**      **International collaborative project design Project presentation**  
During this afternoon the workshop participants will present their projects to a panel of experts in order to further develop them and set-up scientific exchanges and collaboration
- Drink**