



18TH INTERNATIONAL CONFERENCE ON WETLAND SYSTEMS FOR WATER POLLUTION CONTROL

25 - 29 NOVEMBER 2024



EDITO

It is our great pleasure to welcome you to the 18th International Conference on Wetland Systems for Water Pollution Control to be held from November 24th to 29th, 2024 in Fort-de-France, Martinique. This conference is part of the IWA Specialist Group “Wetland Systems for Water Pollution Control” conference series, which is a bi-annual conference series that acts as a global forum for discussion and knowledge sharing on the state of the art in scientific and practical development and implementation of natural and constructed wetlands and other nature-based solutions for providing water quality improvement and other co-benefits and ecosystem services. Some of the main conference topics include i) wetlands in urban environments; ii) wetlands for water reuse; iii) wetlands and the circular economy, iv) wetlands for water pollution control, and v) wetland conservation, restoration, and climate change. Other up and coming topics such as wetland intensification, removal of emerging organic contaminants, wetland co-benefits, modelling, and monitoring and remote sensing.

We are delighted to welcome you to Martinique. The history of Martinique is closely linked to the colonial expansion of Europeans in the Caribbean. The first occupiers were the pre-Columbian cassava farmers who came from the Orinoco basin, around the fifth century BCE. Christopher Columbus discovered the island on June 15, 1502, and Martinique became French under Louis XIII, a colony attached to the French crown marked by an economic and social system based on slavery and framed by the publication of the Black Code in 1685. Martinique is a place steeped in history, as well as being rich in marine and terrestrial biodiversity. In order to protect this biodiversity, you will have the opportunity to learn more about the innovative actions that the Martinique Water Office (ODE) has been carrying out, particularly on Treatment wetland for the last 15 years. The organization team of INRAE, ODE and UFSC-HUPANAM will introduce you to the latest developments in research and implementation of wetland systems for water pollution control in the Caribbean and South America to accelerate the implementation of TW in the region.

Pascal Molle, Michela Adin, Pablo Sezerino and Ignatius Jean
ICWS2024 Conference Chairs



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Hirozumi Watanabe **Japan**
Kela Weber **Canada**

CONFERENCE TOPICS

- Topic 1** - Wetlands in Urban Environments: Treatment wetlands and other NBS (e.g., green walls, green roofs, bioswales) for urban water management, circular cities
- Topic 2** - Wetlands for Water Reuse and Resource Recovery: Treatment wetlands and their roles in circular economy, treatment wetlands for water reuse, treatment wetlands for agronomic resource recovery, wetlands for biomass production, wetlands in the bioeconomy
- Topic 3** - Intensified Wetlands: Aerated wetlands, hybrid wetlands, microbial fuel cell wetlands
- Topic 4** - Emerging Contaminants: Removal of persistent and emerging organic compounds, microplastics, metals and metalloids compounds including effects on wetlands, biodiversity, and humans.
- Topic 5** - Wetland Co-benefits and Multifunctionalities: Treatment wetlands and ecosystem services (biodiversity, carbon capture and sequestration), treatment wetlands and social awareness (landscape issues, public participation, education, policy, and planning).
- Topic 6** - Wetland Process Understanding and Modelling: New developments in wetland process understanding, microbiology, modelling, biogeochemistry of porous media, fluid flows, multi-phase interactions and reactions
- Topic 7** - Treatment Wetland Case Studies: Wetlands treating agriculture runoff, sludge, industrial wastewater, stormwater, combined sewer overflow, domestic wastewater
- Topic 8** - Monitoring and Remote Sensing of Wetlands: Implementation of sensors, real-time monitoring and online process control, data management, remote sensing, and spatial and temporal information
- Topic 9** - Wetland Conservation and Restoration: Natural and constructed wetlands for ecosystem conservation and restoration
- Topic 10** - Climate Adaptation: Design adaptations and implementation of treatment wetlands in tropical climates, arid climates, and cold climates

MORE INFORMATION











Go to the website

icws2024.web-events.fr

<https://icws2024.web-events.fr>

PROGRAM

MONDAY 25 NOVEMBER 2024

8:00 a.m 8:40 a.m	Registration and Poster Installation 	
8:40 a.m 9:40 a.m	Room 6	Opening Ceremony 
9:40 a.m 10:20 a.m	Room 6	Keynote: Florentina ZURITA - Development of Constructed Wetlands in Latin America: Advances, challenges and opportunities <i>Chair. Maria Alejandra Maine</i>
10:20 a.m 11:00 a.m	Room 6	Keynote: Paula KEHOE - Director of Water Resources San Francisco Public Utilities Commission <i>Chair. Maria Alejandra Maine</i>
11:00 a.m 11:20 a.m	CARAIBES Coffee 	
	ROOM 6	Parallel session ROOM 2 
	<i>Urban drainage treatment - Chair. Fabio Masi</i>	<i>Wetland process modelling I - Chair. Ania Morvannou</i>
11:20 a.m	<ul style="list-style-type: none"> The efficiency of multi-stage treatment wetland for urban drainage treatment under variable pollutant loads. <i>Magdalena GAJEWSKA</i> 	<ul style="list-style-type: none"> Do we need trees for Treatment Wetland models? <i>Sophie GUILLAUME</i>
11:40 a.m	<ul style="list-style-type: none"> Intra-event variations of organic micropollutants in a stormwater biofilter treatment system. <i>Aji BERYANI</i> 	<ul style="list-style-type: none"> Advancing constructed wetlands modelling for simulation of emerging organic contaminants. <i>Huma ILYAS</i>
12:00 p.m	<ul style="list-style-type: none"> Treatment Wetland as decentralized unit to reduce pollutant in water runoff from an industrial area. WATERUN project. <i>Santiago GÓMEZ CUERVO</i> 	<ul style="list-style-type: none"> Flowing insights: Key discoveries, recommendations, and guidelines from the Life Cycle Assessment of NBSWT, with a focus on a constructed wetland case study. <i>Karine DUFOSSE</i>
12:20 p.m	<ul style="list-style-type: none"> European stakeholders' visions and needs for the role of Nature-based Solutions for stormwater treatment in future urban drainage systems. <i>Katharina TONDERA</i> 	<ul style="list-style-type: none"> Comprehensive evaluation of domestic wastewater treatment systems based on constructed wetlands in the Dominican Republic. <i>Ulises JAUREGUI-HAZA</i>
12:40 p.m 02:20 p.m	CARAIBES Lunch 	
	ROOM 6	Parallel session ROOM 2 
	<i>CSO treatment - Chair. Dirk Esser</i>	<i>Wetland process modelling II - Chair. Guenter Langergraber</i>
02:20 p.m	<ul style="list-style-type: none"> Nitrogen Removal in an aerated Vertical Flow Treatment Wetland for Combined Sewer Overflow - <i>Daniella PORTELA</i> 	<ul style="list-style-type: none"> Automatically optimizing the sizing of unsaturated/saturated vertical flow treatment wetland - <i>Zoé LEGEAI</i>
02:40 p.m	<ul style="list-style-type: none"> Implementation of an experimental vertical flow treatment wetland for combined sewer overflow in the south of Chile: preliminary results - <i>Ismael L. VERA-PUERTO</i> 	<ul style="list-style-type: none"> Performance evaluation and numerical simulation for vertical flow wetlands using HYDRUS - <i>Srikanth MUTNURI</i>
03:00 p.m	<ul style="list-style-type: none"> Large-scale and onsite treatment wetlands at real-scale and medium-term of operation in southern Brazil - <i>Fernando MAGALHÃES FILHO</i> 	<ul style="list-style-type: none"> Development of a surrogate model for the design of VF wetlands using numerical experiments - <i>Bernhard PUCHER</i>
03:20 p.m	<ul style="list-style-type: none"> Aerated wetland for combined sewer overflow upstream the WWTP: results from 2 years of monitoring at Merone (IT) - <i>Riccardo BRESCIANI</i> 	<ul style="list-style-type: none"> Long-term hydraulic modelling of a variably saturated treatment wetland for urban stormwater treatment to ensure resilient operation - <i>Ania MORVANNOU</i>
03:40 p.m	<ul style="list-style-type: none"> Water quality modelling of Free Water Surface Tancat de la Pipa Wetland for urban runoff mitigation optimization - <i>Adrián Martínez-Biosca</i> 	<ul style="list-style-type: none"> Evolution of the arsenic concentration in horizontal subsurface flow constructed wetlands: process-based modelling - <i>Diego BRAVO-RIQUELME</i>
04:00 p.m 05:00 p.m	CARAIBES Coffee break and Poster session 	
	ROOM 6	Parallel session ROOM 2 
	<i>Sludge and sediments - Chair. Christoph Platzer</i>	<i>Micropollutants I - Chair. Magdalena Gajewska</i>
05:00 p.m	<ul style="list-style-type: none"> Small constructed wetlands in Norwegian agricultural catchments – understanding sediment retention processes in catchment with clay-reach soils - <i>Anne-Grete BUSETH BLANKENBERG</i> 	<ul style="list-style-type: none"> Micropollutant Removal in a Cold Climate Two-Stage Vertical Flow Treatment Wetland - <i>Lura JOHNSON</i>
05:20 p.m	<ul style="list-style-type: none"> The First Operating and Desludging Cycle of a Combined Reed Bed / Freezing Bed System Treating Septage - <i>Christopher KINSLEY</i> 	<ul style="list-style-type: none"> Nature based solution for quaternary treatment of WWTP effluent for micropollutants and ARGs reduction - <i>Fanny GRITTEN</i>
05:40 p.m	<ul style="list-style-type: none"> A pilot-scale study on Sludge Treatment Reed Beds: first year results - <i>Alexandros STEFANAKIS</i> 	<ul style="list-style-type: none"> Nutrients and pesticides removal from floriculture drainage water by a hybrid constructed wetland: a two and a half year long journey of fine-tuning - <i>Fior LOUAGE</i>
06:00 p.m	<ul style="list-style-type: none"> Long-term Performance of Sludge Treatment Wetlands: Insights from a Five-Year Monitoring Study in Parana, Brazil - <i>Heike HOFFMANN</i> 	<ul style="list-style-type: none"> Removing emerging contaminants from stream water using riparian constructed wetlands - <i>Josephine JENSEN</i>
06:00 p.m 07:00 p.m	Room 6 Specialist Group meeting	

TUESDAY 26 NOVEMBER 2024

ROOM 6		Parallel session	ROOM 2
<i>TW intensification: aeration - Chair. Bernhard Pucher</i>			<i>Microbial Fuel Cells - Chair. Fernando Jorge Corrêa Magalhães Filho</i>
08:40 a.m	<ul style="list-style-type: none"> Phytoparking – Aerated Unplanted Hybrid Wetland – on an off-grid campsite tested for physico-chemical parameters, pathogens and organic micropollutants - Mireille MARTENS 		<ul style="list-style-type: none"> Designing a new MFC biosensor for clogging detection in treatment wetlands - Ana Carla SORGATO
09:00 a.m	<ul style="list-style-type: none"> Wasserij Tony: aerated wetland treating laundry waste water Dion VAN OIRSCHOT 		<ul style="list-style-type: none"> Establishment of plants in experimental Floating Treatment Wetlands integrated with Microbial Fuel Cells - Karolina MATEJ-LUKOWICZ
09:20 a.m	<ul style="list-style-type: none"> Rhizosph'Air®: 8 years return on experience about single stage French systems treating Total Nitrogen - Alain PETITJEAN 		<ul style="list-style-type: none"> Bioenergy production and wastewater treatment efficiency in mesoscale Floating Treatment Wetlands integrated with Microbial Fuel Cells: effects of OLR and plant species - Ewa WOJCIECHOWSKA
09:40 a.m	<ul style="list-style-type: none"> Optimization of total nitrogen removal in a hybrid aerated treatment wetland - Caroline Kimie MIYAZAKI 		<ul style="list-style-type: none"> Emerging microcontaminant removal in microbial electrochemical technology intensified treatment wetlands (METland) Chiara SARTI
10:00 a.m	<ul style="list-style-type: none"> Treatment of high-load anaerobic digestate using a vertical flow aerated wetland - Jhon LOPEZ 		<ul style="list-style-type: none"> Nanobubble technology-triggered innovation of constructed wetlands for wastewater treatment - Tao LYU
10:20 a.m	<ul style="list-style-type: none"> Assessing nanobubble aeration capacity to enhance wastewater treatment in engineered constructed wetlands - Carlos ARIAS 		<ul style="list-style-type: none"> Exploring the structural and functional microbial community dynamics in an MFC-Based Biosensor for clogging monitoring in French Vertical Flow Treatment Wetlands - Ana Carla SORGATO
10:40 a.m 11:00 a.m	CARAIBES		Coffee
ROOM 6		Parallel session	ROOM 2
<i>Micropollutants II - Chair. Alexandros Stefanakis</i>			<i>Microbial communities - Chair. Kela Weber</i>
11:00 a.m	<ul style="list-style-type: none"> Nutrient and Surfactant Removal in Constructed Wetlands for Greywater Treatment - Carlo MORANDI 		<ul style="list-style-type: none"> Microbial insights in a hybrid aerated treatment wetland for total nitrogen removal - Daniele D SILVEIRA
11:20 a.m	<ul style="list-style-type: none"> Innovative Multistage Hybrid Constructed Wetlands for the treatment of Industrial Wastewater - Othman ALMASHAQBEH 		<ul style="list-style-type: none"> Improving wastewater treatment performance through modification strategy in Vertical Flow Constructed Wetland - Pablo SEZERINO
11:40 a.m	<ul style="list-style-type: none"> A hybrid aerated treatment wetland for removal of water contaminants and micropollutants - Vaidotas KISIELIUS 		<ul style="list-style-type: none"> Mitigating cyanobacterial blooms: conclusions of an interdisciplinary mesocosm study, application remarks, and future perspectives Alba MARTINEZ I QUER
12:00 p.m	<ul style="list-style-type: none"> Harnessing Nature Based Solutions for the Treatment of Wastewater Contaminated with Per- and Polyfluoroalkyl Substances Magdalena GAJEWSKA 		<ul style="list-style-type: none"> Spatial pattern of N2O and N2 fluxes supported by nitrogen cycle microbiome diversity in sediments of a surface flow treatment wetland treating nitrate-contaminated agricultural runoff - Ülo MANDER
12:20 p.m 02:00 p.m	CARAIBES		Lunch
ROOM 6		Parallel session	ROOM 2
<i>Emerging contaminants: mechanisms - Chair. Pedro Carvalho</i>			<i>Agricultural pollution - Chair. Ulo Mander</i>
02:00 p.m	<ul style="list-style-type: none"> Transformation and degradation of tebuconazole and its metabolites in vertical flow constructed wetlands with the colonization of arbuscular mycorrhizal fungi - Zhongbing CHEN 		<ul style="list-style-type: none"> Enhancing Agricultural Soil Fertility and Improving Crop Yield: The Impact of Treatment Wetland Sediment - Margit KÖIV-VAINIK
02:20 p.m	<ul style="list-style-type: none"> Fate and effect of per- and polyfluoroalkyl substances in treatment wetland mesocosms - Kela WEBER 		<ul style="list-style-type: none"> Seasonal and Annual Variations in Nutrient Removal from Agricultural Drainage with Constructed Pond – Wetland: A Multi-Year Field Study in Canada - Chris KINSLEY
02:40 p.m	<ul style="list-style-type: none"> Unraveling micropollutant removal in a tidal-flow constructed wetland with enhanced sorption substrate: Transformation products and microbial community composition - Thomas WAGNER 		<ul style="list-style-type: none"> Removal of nitrogen from agricultural drainage in constructed wetlands – ten years experience in the Czech Republic - Jan VYMAZAL
03:00 p.m	<ul style="list-style-type: none"> Investigating the effectiveness of microplastic removal and the relationship between microplastics, bacterial communities, and nitrogen cycling in the natural treatment systems at the Arcata Wastewater Treatment Facility - Fiona CONNOR 		<ul style="list-style-type: none"> Mitigating Agricultural Diffuse Pollution: A Long-Term Assessment of Treatment Wetland Efficiency - Margit KÖIV-VAINIK
03:20 p.m	<ul style="list-style-type: none"> Influence of system geometry and substrate on the removal of linalool and geraniol in zero-liquid discharge unplanted-NBS Paula LOUREIRO 		<ul style="list-style-type: none"> Saturated buffer zones as cost-efficient edge of field technology in Europe - Dominik ZAK
03:40 p.m	<ul style="list-style-type: none"> Role of Plants on Triclosan Removal and the Impact of its Exposure on Treatment Wetland Ecosystem - Laurianne BÉDARD 		<ul style="list-style-type: none"> Hydrology and removal efficiency of a full-scale farm (constructed) wetland in Italy for agricultural water management during significant rain events - Stevo LAVRNIC
04:00 p.m 05:00 p.m	CARAIBES		Coffee break and Poster session
05:00 p.m 06:00 p.m	Room 6	Young Water Professional Event	
06:00 p.m 08:00 p.m			Cocktail COTRAM - CARAIBES

WEDNESDAY 27 NOVEMBER 2024

	ROOM 6	Parallel session	ROOM 2
	<i>Treated wastewater reuse - Chair. Pablo Sezerino</i>		<i>Vertical Flow Applications - Chair. Otto Stein</i>
08:40 a.m	<ul style="list-style-type: none"> Water Recirculation Technology in Animal Facilities: Initial Water Assessment and Implications for Subsurface Flow Treatment Wetlands Design - Cinthia PADILLA 	<ul style="list-style-type: none"> Instrumentation of a two-layer planted filter to monitor hydraulic performance and optimize operation of the RFB in wet weather - Fanny GRITEN 	
09:00 a.m	<ul style="list-style-type: none"> Towards Sustainable Sanitation: The Contribution of Treatment Wetlands to Wastewater Reuse in Senegal - Antonina TORRENS 	<ul style="list-style-type: none"> A full-scale hybrid constructed wetland for the treatment of water basin with a dense seabird population at the Beauval Zoo - Joelle PAING 	
09:20 a.m	<ul style="list-style-type: none"> RUR'EAUX: Demonstration platform for water reuse in rural areas - Stephane TROESCH 	<ul style="list-style-type: none"> French Systems Wetlands in cities on the upper Negro River, Amazonas – case studies in São Gabriel da Cachoeira, Barcelos and Novo Airão: in search of universal sewage sanitation in Brazil - Vera LUZ 	
09:40 a.m	<ul style="list-style-type: none"> Heterotrophic biofilm control in constructed wetlands and drip-irrigation devices as a key factor in the reuse capacity of water in Occitanie - Magali GERINO 	<ul style="list-style-type: none"> A Comparative Analysis of Native Macrophytes in French Vertical Flow Wetlands, Treating Municipal Wastewater in Western Australia - Marco WARMT-MURRAY 	
10:00 a.m	<ul style="list-style-type: none"> Demonstration and performance analysis of on-beach public toilet with a decentralised modified French-vertical flow constructed wetland and ex-situ electro chlorination integrated treatment system- Srikanth MUTNURI 	<ul style="list-style-type: none"> Multilayer partially saturated vertical flow wetlands for small community wastewater treatment - Sukhjit Pal SINGH 	
10:20 a.m	<ul style="list-style-type: none"> Unraveling the Influence of Upper Filter Characteristics on Single-Stage French Wetland Performance in Warm Climates: Oriented Toward Reuse - Heike HOFFMANN 	<ul style="list-style-type: none"> Two-Step Hybrid Wetlands as the Low-Maintenance Wastewater Treatment Solution for Communities in Cold Climates - Anton SKOROBOGATOV 	

CARAIBES **Coffee** 

	ROOM 6	Parallel session	ROOM 2
	<i>Emerging contaminants: antimicrobial resistance - Chair. Jaime Nivala</i>		<i>Reactive and alternative media - Chair. Carlos Arias</i>
11:00 a.m	<ul style="list-style-type: none"> Removal of antimicrobial resistance (AMR) in surface flow constructed wetlands with different upstream treatment flowsheets - Milena DROPA 	<ul style="list-style-type: none"> Reactive media filled treatment wetlands for Phosphorus removal from wastewater - Andy FREEMAN 	
11:20 a.m	<ul style="list-style-type: none"> Treatment wetland for domestic wastewater: antibiotics, pharmaceuticals, antibiotic resistance and microbial communities - Vaidotas KISIELIUS 	<ul style="list-style-type: none"> Long time performance of two woodchips based subsurface flow constructed wetlands - Carl HOFFMANN 	
11:40 a.m	<ul style="list-style-type: none"> Seasonal microbial community, pharmaceutical and antimicrobial resistance dynamics in a full-scale surface flow polishing constructed wetland - Jannis WENK 	<ul style="list-style-type: none"> Study on substrates characterization and their performance for personal care products removal from light greywater in vertical-flow constructed wetlands - Fernanda Cristina MUNIZ SACCO 	
12:00 p.m	<ul style="list-style-type: none"> Antimicrobial resistance genes in constructed wetlands - A critical review, research gaps and future recommendations - Jannis WENK 	<ul style="list-style-type: none"> Preventing nutrients leaching from fields limited by Miscanthus × giganteus plantation on marginal areas in riparian zones: single rotation experiment with biochar amendment into soil and alternative fertiliser - Nicole NAWROT 	

CARAIBES **Lunch** 

	ROOM 6	Parallel session	ROOM 2
	<i>Wetlands in Urban Environments - Chair. Diederik Rousseau</i>		<i>Wetland Co-benefits and Multifunctionalities - Chair. Miguel Martin Moneris</i>
02:00 p.m	<ul style="list-style-type: none"> Occurrence, concentration and pathways of emerging, contemporary and legacy contaminants in horizontal and vertical flow wetlands for stormwater treatment - Godecke BLECKEN 	<ul style="list-style-type: none"> Public and private business models for innovative treatment wetland technologies in urban areas: Results of three multi-factor co-creation cases - Marco HARTL 	
02:20 p.m	<ul style="list-style-type: none"> Design of vertical-flow wetlands for improved urban stormwater hydrology - Utsav ADHIKARI 	<ul style="list-style-type: none"> Enhancing urban resilience in Mediterranean regions: A systemic approach on nature-based solutions potential for addressing sustainability challenges - Laura FLORES ROSELL 	
02:40 p.m	<ul style="list-style-type: none"> Treatment capacity provided by rain gardens in urban areas - Magda KASPRZYK 	<ul style="list-style-type: none"> How does a constructed wetland vegetation evolve after 15 years from establishment? A case study from Veneto Region - Vittoria GIANNINI 	
03:00 p.m	<ul style="list-style-type: none"> Living walls for greywater treatment and reuse: preliminary experience from Mediterranean installations - Fabio MASI 	<ul style="list-style-type: none"> The Effect of Salinity and Sulfate on Greenhouse Gas (GHG) Emissions in Saline Constructed Wetlands - Lei YANG 	
03:20 p.m	<ul style="list-style-type: none"> GRETA™ vertical green wall system for grey- and rainwater treatment with on-site reuse for toilet flushing - Marco HARTL 	<ul style="list-style-type: none"> Role of helophytes in methane and nitrous oxide emissions in treatment wetlands - Mikk ESPENBERG 	
03:40 p.m	<ul style="list-style-type: none"> Removal of persistence mobile and toxic contaminants from greywater in a phytoremediation experiment for sustainable reuse. - Henry BERAL 	<ul style="list-style-type: none"> Do it big: large constructed wetland case studies from Latin America to Middle East - Alexandros STEFANAKIS 	
04:00 p.m		<ul style="list-style-type: none"> Valorization of vegetation in constructed wetlands: Exploring its utilization potential for sustainable biogas production - Giuseppe MANCUSO 	

CARAIBES **Coffee break and Poster session** 

Waterun session
Details on the next page

Cardimed session
Details on the next page

WEDNESDAY 27 NOVEMBER 2024

05:00 p.m
06:20 p.m

Waterun session
ROOM 6

Cardimed session
ROOM 2

ROOM 6 - WATERUN Session:

WATERUN Approach to the co-creative development of new Water Sensitive Urban Design (WSUD) tools. Following presentations will be held: Treatment Wetland as Decentralized Unit to Reduce Pollutant in Water Runoff from an Industrial Area ; Pollutant Removal in Bioswales – Insights from Aarhus University (AU); Simplified Block-Based Hydraulic Modelling Approach for Nature-Based Solutions of Urban Runoff Management; Decision Support System for Stormwater Reuse Based on Risk Assessment Developed in the WATERUN Project. Following these presentations, attendees will engage in an interactive “co-creative” format designed to gather feedback and foster collaboration among experts facilitated.

ROOM 2 - CARDIMED Session:

Interactive workshop to explore the replicability of nature-based solutions for water treatment and reuse, and stormwater management, tailored to tropical climates. This session will cover key insights from ongoing projects, emphasizing the NEXUS and climate change adaptation approaches and focusing on real-world applications in Martinique. Participants will engage in a practical exercise to develop strategies for overcoming local challenges for NBS implementation.

06:20 p.m
08:00 p.m

Cocktail WATERUN and CARDIMED - CARAIBES



08:20 a.m
06:20 a.m

TECHNICAL TOUR

On Thursday 28 November, two fieldtrips will be organized for the conference participants to share the experience related to treatment wetlands in tropical climate for different type of wastewater. One of the field trip will propose as well a natural wetland. Each tour will be divided into two subgroups with alternating visits but a common lunch.

For technical tour, remember to wear appropriate clothing to cope with the sun and possible rains, as well as shoes suitable for short walks.

Shuttle schedules :

Departure from Gare Pointe-Simon : 08h30

Back to Karibea Squash Hotel 16h30 - Back to Gare Pointe-Simon 16h40



TOUR 1

- Industrial wastewater treatment plant: "denel factory" (fruits processing)
- Municipal wastewater treatment plant with forced aeration: "la chapelle" (rhizosph'air©)
- Domestic wastewater treatment plant: "les bords de l'etang" residence

MORE INFORMATIONS

<https://icws2024.web-events.fr/technicaltours1>



TOUR 2

- Natural wetland: "o'mullan" mangrove
- Domestic wastewater treatment: "taupiniere" site
- Industrial wastewater treatment plant: "la mauny" rum distillery

MORE INFORMATIONS

<https://icws2024.web-events.fr/technicaltours2>







07:00 p.m
01:00 a.m

GALA DINNER at "La Villa FL"

Lot. les Hauts de Californie, Le Lamentin 97232, Martinique



FRIDAY 29 NOVEMBER 2024

08:40 a.m 09:40 a.m	Room 6	NBS and Modelling workgroups session	
09:40 a.m 10:00 a.m	CARAIBES	Coffee	
10:00 a.m 10:40 a.m	Room 6	Keynote: Pedro CARVALHO - Trace organic contaminants in nature-based solutions: challenges and oportunities	Chair. Jan Vymazal
10:40 a.m 11:20 a.m	Room 6	Keynote: Rafael VAZQUEZ-BURNEY - Treatment Wetlands' Role in Managing Regional Water Resources for Long-Term Resilience and Reliability	Chair. Jan Vymazal
11:20 a.m 12:20 p.m	Room 6	Closing ceremony	
12:20 p.m 02:00 p.m	CARAIBES	Lunch	

POSTERS

Ulises Javier JAUREGUI HAZA

Promoters and Challenges of Constructed Wetlands in the Developing World

Aday Amirbekov

Biofilm Dynamics in Constructed Wetlands: Diatom Responses to Hexachlorocyclohexane Pollution

Maurizio Borin

Knowing *Ludwigia* spp. in wetland environment to outline sustainable control strategies

Andrea Critto

Climate change multi-hazard impacts on water quality in transitional ecosystems and the mitigation role of nature-based solutions

Maria Alejandra MAINE

Hybrid constructed wetland with construction waste as substrate: performance for landfill leachate treatment.

Miguel Martín

Integrating circular economy and biodiversity in sustainable wastewater treatments based on constructed wetlands.

Alexandre Lacou

Earthworm's enhancement potential of constructed wetland for wastewater treatment

Tao Lyu

Greenhouse gas emission and carbon sequestration in microbial electrochemical technology intensified treatment wetlands (METland)

Paola SEPULVEDA RUIZ

Seasonal variation of the effectiveness of horizontal flow constructed wetlands to reduce some emerging organic micropollutants. Preliminary results from Verdú WWTP (Catalonia, Spain)

Antonina Torrens

Decentralised Sanitation in Arid Climates: Subsurface Flow Constructed Wetlands for Greywater Treatment and Reuse in Gandiol, Senegal

Enmanuel Vargas

Design, construction, and evaluation of a system for domestic wastewater treatment based on a subsurface flow constructed wetland in El Dorado, Jarabacoa, Dominican Republic

PRACTICAL INFORMATIONS

Conference venue

The conference will be held at **Madiana cinema**
(**Avenue Du Petit Florentin Schoelcher, 97233, Martinique**).

Cinéma Madiana in Schoelcher, Martinique, offers a modern and comfortable movie-going experience with state-of-the-art screens and sound systems. Located close to the sea, it combines a wide selection of films, from local Caribbean productions to international blockbusters, with amenities like a gourmet snack bar and comfortable seating.






Shuttle schedules

Shuttles will be scheduled from the Gare Pointe-Simon

	Departure from Gare Pointe-Simon	Stop at Karibea Squash hotel	Back to Gare Pointe-Simon
Monday (2 buses)	07.45 am	08.00 am / 07.15 pm	06.20 pm / 07.00 pm
Tuesday (2 buses)	07.45 am / 08.15 am	08.00 am / 08.45 pm	08.30 pm
Wednesday (2 buses)	07.45 am / 08.15 am	08.00 am / 07.00 pm - 08.30 pm	06.45 pm / 08.15 pm
Thursday Technical Tour	08.30 am	08.15 am / 04.30/45 pm	05.00 pm
Thursday Gala	06.30 pm	06.45 pm	11.30 pm (1st departure) 00.00pm (2nd departure)
Friday (1 bus)	07.45 am	08.00 am / 02.15 pm	02.00 pm

Your contact

Organisation/ Registration :

 Ludovic CARINI
 ludovic@aleou.fr
 07.83.23.18.19

Taxi numbers

Taxi Martinique: +596 696 28 24 94
Madinina Taxi: +596 596 70 40 10
Rhumz: +596 696 68 57 10
VTC Martinique: +596 696 48 63 07

NOTES



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