



**INTERNATIONAL  
SYMPOSIUM ON  
SEDIMENT  
MANAGEMENT  
I2SM TANGIER 2024  
PROGAM**

# INTERNATIONAL SYMPOSIUM ON SEDIMENT MANAGEMENT I2SM TANGER 2024 PROGRAM

DAY 1 : TUESDAY, 09 July 2024

13h-17h00	Early registration 08 July 2024
08h-09h00	Registration 09 July 2024
<b>Opening Ceremony</b>	
09h00-09h05	Holy Quran
09h05-11h00	Welcome and Brief Introduction to the conference
	I2SM General Chair. Deputy Director of the Civil Engineering and Geo-Environment Laboratory at IMT Lille-Douai <b>Prof. Nor-Edine Abriak</b>
	Officiel Maroc: Dean of the Faculty of Science and Technology in Tangier, University Abdelmalek Essaâdi <b>Prof. DIANI Mustapha</b>
	Director of IMT Nord Europe <b>Mr. Alain-Louis Schmitt</b>
	Organizer from FSTT: Professor at the Faculty of Science and Technology. Research Team of Materials, Environment and Sustainable Development, FSTT, Abdelmalek Essaadi University, Tetouan <b>Prof. Mohammed Ammari</b>
	Organizer from IMT: IMT Nord Europe - Douai site CERI Materials & Processes Laboratory - Civil Engineering Team <b>Prof. Mahfoud Benzerzour</b>
11h00-11h30	Coffee Break
11h30-12h00	Chairman: Deputy Director of the Center for Education, Research, and Innovation in Materials and Processes, Scientific Leader of the Thematic Group: Organic Sediment Management <b>Prof. Rachid Zentar</b>
	Chairwomen: Professor at the Faculty of Science and Technology. Research Team of Materials, Environment and Sustainable Development, FSTT, Abdelmalek Essaadi University, Tetouan <b>Prof. BEN ALLAL Laïla</b>
	Key note speaker: European Commission Belgium <b>Prof. Vincent Basuyau</b>
12h00-12h30	Key note speaker: Founder and Managing Director of Exo-engineering <b>Prof. William Coulette</b>
12h30-13h00	Key note speaker: Bhabha Atomic Research Center <b>Prof. Rakesh Kumar Singhal</b>
13h00-14h30	Lunch Break
14h30-15h00	Chairman: Lecturer-Researcher – PhD in Mechanics of Materials from the University of Lille (2007) - IMT Nord Europe - CERI Materials and Processes <b>Prof. Frédéric Becquart</b>
	Chairman: Professor at the Faculty of Science and Technology. Research Team of Materials, Environment and Sustainable Development, FSTT, Abdelmalek Essaadi University, Tetouan <b>Prof. RABIE Fath Allah</b>
	Key note speaker: Professor of civil engineering at the Université de Lorraine <b>Prof. MAHDIA HATTAB</b>
<b>Communications</b>	
15h00-15h10	Alexis Buisson, The Benefits of Using Polymers in Dredging Illustrated by Two Recent Projects, SNCF
15h15-15h25	Christophe Priez, Christian Raynaud: A Dunkerque, Large-Scale Valorization of Marine Sediments, Colas
15h30-15h40	Amine Kadiri, Benjamin Constant and Christophe Deboffe: Circular Economy Engineering, Neo Eco
15h45-15h55	Alary Claire, Constant Mel and Billon Gabriel: Prospective Study on Plastic Waste in The Sediments of The Scheldt Canal
16h00-16h30	Coffee Break
16h30-16h40	HANAFI Zakaria : Founder of the Moroccan Center for Geopolitical Analysis and Anticipation : Geopolitics of Water

16h45-16h55	TESSIER Caroline, SAREMI Sina, CHIRON Thomas, SEDRATI Mouncef, GROSDÉMANGE Didier <sup>5</sup> : The Dour Glaz Project: Hydrosediment 3D Modelling of One Year Dumping Operations in Lorient Coastal Waters and Optimisation to Reduce Impact on Sensitive Habitats
17h00-17h10	Tristan DEBUIGNE <sup>2</sup> , Delphine HARDY <sup>2</sup> , Ilyas ENNAHAL <sup>2</sup> , Sami LALLAHEM <sup>2</sup> , Keith TORRANCE <sup>1</sup> , Richard LORD <sup>1</sup> A Mobile & Continuous Sediment Dehydration and Sand Extraction Pilot to Improve Sediment Reuse Strategies. Case Studies & Results Interpretation, IXANE
17h15-17h25	Mathieu Pillet, Romain Lochu: Biomimetisme Et Chimie Verte: Vers Des Projets De Valorisation Et Depollution Neutre En Carbone, Edaphos Engineering Sa, Suisse Et Valorsites
17h30-17h40	SEDRATI Mouncef, CHIRON Thomas, TESSIER Caroline, GROSDÉMANGE Didier, BULOT Glen, METGE Noé, DALOUR Laura and LE GALL Romain <sup>1</sup> (Sedrafi monsif) The Dour Glaz Project: Detecting Turbid Plumes of Dredged Sediment by Structure-From-Motion (Sfm) Photogrammetry and In-Situ Measurements
17h45-17h50	Naima BELAYACHI and Brahim ISMAIL: Mechanical and Thermal Behaviour of Lime Straw Biocomposite: Effect of Aggregate Treatment
End of the first day	

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DAY 2 : WEDNESDAY, 10 July 2024

08h00-09h00	Welcome and registration
09h00-10h00	Chairman: Professor at the Faculty of Science and Technology. Research Team of Materials, Environment and Sustainable Development, FSTT, Abdelmalek Essaadi University, Tetouan <b>Prof. SFAIRA Mouhcine</b>
	Key note speaker: PhD Engineer, Circular Economy Consultant at CD2E and Bringing together stakeholders in sediment valorization <b>Mr. Cyril Scribot</b>
	Key note speaker: Univ. Bordeaux, CNRS, Bordeaux INP, I2M, UMR 5295, F-33400, Talence, France <b>Prof. NADIA SAYOURI</b>
10h00-11h00	Chairman: Professor at the Faculty of Science and Technology. Research Team of Materials, Environment and Sustainable Development, FSTT, Abdelmalek Essaadi University, Tetouan <b>Prof. BRIGUI Jamal</b>
	Key note speaker: Department of Civil and Building Engineering, Université de Sherbrooke <b>Prof. Patrice Rivard</b>
	Key note speaker: Professor at CY Cergy Paris University <b>Prof. Elhem GHORBEL</b>
11h00-11h30	Coffee Break
20h30	Gala diner

## I2SM TANGIER 2024

SUSTAINABLE SEDIMENT MANAGEMENT  
/SEDIMENT AND WATER/ DREDGING,  
TREATMENTS AND REMEDIATION

### PARALLEL SESSION 1 :

ROOM 1 11H30 -18H		10-07-2024 Chairman/Chairwomen: BROWNING Simon, EL MERZGIOUI Mhamed
Corresponding Author	Title	
1	Said Essenni	Template Assisted Hydrothermal Synthesis of Bismuth Vanadate for Rhodamine B Photodegradation
2	Saadia Elhajjami	Study Of Copper and Lead Metal Contamination In The Sediments Of The Moulouya River, Oum Er Rbia, And Sebou, Morocco
3	Amani Abdallah	Stratégie De Simulation Numérique De Prédiction Du Comportement Des Mortiers Avec Sédiments
4	Omar Alaoui	Remblais A La Mer & Teneur En Fines Golfe Arabique
5	Hamza Beddaa	Assessing The Reuse Potential Of Dam Sediment In Self-Consolidating Concrete Production
6	Mouhamadou Amar	Investigating The Efficiency Of The Flash Calcination Method For The Clay Treatment
7	Thair Mahmood Altaiee	Success Possibility Of Sediment Flushing Processes In Mosul Dam Reservoir, Iraq
8	Bouhassane fatima zohra	Efficient Removal of yellow quinoleine Dye from Aqueous Solutions Using modified biomass: Kinetics and Isotherms Modeling Water
9	Elhajjami Saadia	Study of copper and lead metal contamination in the sediments of the moulouya river, oum er rbia, and sebou, Morocco
10	Rguibi Amina	Efficient Removal of Anionic Azo Dyes from Aqueous Solution Using Polyaniline@Coacervat Composite
11	Zarrik basma	Study of Heavy Metal Cd (II) Adsorption by a Graphene Oxide Based Composite
12	Essekri Abdelilah	The use of raw and modified acacia leaves for adsorptive removal of crystal violet from water

**REUSE, RECOVERY, AND LCA / CIRCULAR  
ECONOMY STRATEGIES /  
CHARACTERIZATION AND MONITORING OF  
PARAMETERS**

**PARALLEL SESSION 2 :**

11H30 -18H ROOM 2		10-07-2024
Corresponding Author		Title
13	Bader Bouzar	Stabilization of soils containing fluorine using hydroxyapatite synthesized from mineral waste
14	Ilyace korodowou	Industrial Ecology in Morocco: Wet Laying Composite Filter Membrane Based on Cottonized Sisal Fibers And Recycled Non-Woven Supermarket Bag
15	Bader Bouzar	Accelerated Carbonation (NaHCO <sub>3</sub> ) of fly ash from paper mill sludge for the stabilization of Ba and Pb
16	Bader Bouzar	Manufacturing and Characterization of Carbonated Lightweight Aggregates from fly ash of paper mill sludge
17	Elie Mahfoud	Development Of One-Part-Geopolymer Comprised Sediment And Fly Ash Mix Under Different Curing Temperature
18	Khadija Bazhar	Comparative Study of Heavy Metal Adsorption by Two Moroccan Natural Clays: Trials Aimed at Valorization for Wastewater Treatment
19	Mohammed Soutana	Valorization of agri-food by-products: extraction and characterization of bioactive molecules
20	Omar Bougrine	The Effect of Organic Matter Presence on The Performance Of A Geopolymer Mortar
21	Imane Houmia	Removal of Heavy Metals Co, Zn, Cu from Water by Adsorption on Natural Clay: Application of the Experimental Design Methodology
22	O. Elkhoundafi	Development And Testing Of Dedicated Cooling Systems For Photovoltaic Panels
23	Oussama El Ghali	Synthesis Characterization and Highly Protective Efficiency of Epoxy Prepolymer as a Potential Corrosion Inhibitor for Mild Steel in 1 M HCl
24	Yassine Hassani	Synergistic Behaviour Of Lead (A+ B) -Brass And Lead-Free A-Brass During Erosion-Corrosion Test At Various Impingement Angle In Simulated Drinking Water
25	Sarra Sellak	Adsorption of Methylene Blue Dye on Two Clays Modeling with DFT, MD, and MC Simulations
26	Hassina Kada	Mechanical and thermo-physical characterization of mortars with uncontaminated marine sediments
27	Jaouad Bensalah	Corrosion inhibition performance of Amberlite TMIRC-200 extract resin polymeric as a mild steel in 1.0 M HCl: Electrochemical/surface studies (DFT+MC/MD)
28	BOUZIANE houda	Sludge Characterization of Anaerobic Ponds in the IMZOUREN Waste Stabilization Pond (Province of al Hoceima; Mediterranean Moroccan Coast)
29	EL FELLAH Imad	The effect of chromium on the chemical and physical properties of industrial sludge based geopolymer
30	EL OIHABI Maryem	Environmental benefits of a Moroccan plant: A Comparative analysis between worldwide and Moroccan studies
31	Simou Ayoub	Assessing the Environmental and Ecological Consequences of the Wastewater Discharge on Marqala Beach Sediments: Implications for Sustainable Coastal Development
32	BAHLOUL Kaoutar	Electrochemical Exploration of Vanadate Glasses For Corrosion Prevention
33	Ben kaddour Yousra	Assessing olive oil byproduct for prospective reuse and value addition
34	Moulato Khawla	Environmental impact assessment of sewage sludge use in the production of ceramic bricks based on life cycle analysis
35	EL MANSOURI Nabila	The feasibility of integrating biomaterials and natural residues into food packaging
36	Haj mohand abdellah	Exploring innovative approaches for the processing of natural fibers aimed at enhanced utilization

37	Hajar JENIAH	Influence of Partial Substitution of Sand with PET Particles on the Performance of a geopolymer mortar
38	Ouigua rochdi	Synergistic Effects of Iodide ion (I <sup>-</sup> ) and Acacia Raddiana Savi Gum on the Corrosion Inhibition of Mild Steel in 1M Sulfuric Acid Solution
39	EL FELLAH Imad	Solidification/Stabilization mechanism of Cd (II) in industrial waste-based geopolymers
40	Belarbi Oumaima	Synthesis, characterization and applications for Removing of organic pollutants mb from aqueous Solution
41	Bouaich Fatima-zahra	New durable material for refractory bricks: study of physico-mechanical properties

## I2SM TANGIER 2024

ENVIRONMENTAL IMPACTS AND REGULATIONS /  
MARINE POLLUTION AND CLIMATE CHANGE /  
OPERATIONAL DECISION SUPPORT, MULTI-  
CRITERIA AND ARTIFICIAL INTELLIGENCE

### PARALLEL SESSION 3 :

11H30 -18H ROOM 3		10-07-2024
Corresponding Author		Title
42	Bouchikhi Abdelhadi	Artificial intelligence (AI) in the circular economy
43	Oussama Boussalem	Green inhibition of mild steel corrosion in 0.5 M H <sub>2</sub> SO <sub>4</sub> using methanolic extract of « pelargonium graveolens »
44	Ghizlane Doumane	Performance of a green inhibitor against the corrosion of mild steel in 1.0 M HCl. Application to an extract of colocynth seeds rich in alkaloids: extraction, characterization, and electrochemical studies
45	Ghizlane Doumane	Corrosion Inhibition Performance Of Citrullus Colocynthis Seed Oil Extract On Mild Steel In 1,0 M Hcl Acid Using Various Solvants Such As Petroleum Ether (Csop) And Cyclohexan (Csoc) Polymeric
46	A. EL AMRI	Experimental Study And Control Of The Corrosion Of A Quinazoline Derivative On Mild Steel In Hydrochloric Acid: Mechanisms And Implications
47	Yousra RGHIF	Seasonal Tracking Of The Moroccan Mediterranean Coastal Risks In Sidi Kankouch Beach
48	Ayoub El barraa	Analysis And Prediction Of Climate Forecasts: Based On The Comparison Of Decisionregressor Models Using Python Software In Northern Morocco
49	Amine Bouhadi	Integration Of Remote Sensing And Machine Learning For Coastal Inundation Risk Assessment
50	BAKKALI Imane	Monitoring heavy metal contamination in marine fish species
51	CHRIATT Mohammed	Drought Assessment in Northern Morocco using SPI and SPEI: Insights from GPM (IMERG) Data
52	Bouhadi Amine	Integration of remote sensing and machine learning for coastal inundation risk assessment
53	MEHDI Imane	Integration of Life Cycle Assessment with Artificial Intelligence (ANN) for Predicting the Produced Energy and Environmental Impacts of Sugar Beet Cultivation
54	MEHDI Imane	Determination and Modeling of Energy Consumption in Sugar Cane Production Using ANN
55	BEN MOUSSA Sabira	The impact of climate change on dam filling rates in northern Morocco
56	ZAYANI Inass	Soil Organic Carbon Storage in Agroforestry Systems of Morocco

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DAY 3 : THURSDAY, 11 July 2024

09h00-13h00	Visit to the Tangerang Med port (limited places)
18h00	Tanger city tour bus (limited places)

