

Lille  
29 June - 03 July 2021



# I2SM

International Symposium on Sediment  
Management  
7<sup>th</sup> edition

**Free access to the conference**



# I2SM PROGRAM

29<sup>th</sup> June

AM 10:00	<b>WELCOME SESSION</b> <b>Marc EISMA (SedNet - President of Sednet) - Alain SCHMITT (I2SM - President of IMTLD) - 20 minutes</b>	
	N.E. ABRIAK (I2SM) xxxxx (BRGM) B.LEMIERE (SedNet) - 30 minutes	
10:50 11:00	<b>PLENARY SESSION</b> Guest speaker 1 : <b>W. COULET (Exo Environmental director)</b> - "Exploring opportunities and challenges during 10 years of sediment management" - 35 minutes Guest speaker 2 : <b>Emmanuelle Maire, European Commission, DG Environment, Circular Economy</b> - 35 minutes	
12:10	<b>LUNCH BREAK</b>	
PM 2:00	<b>WELCOM SESSION OF I2SM - 15 minutes</b> <b>N.E ABRIAK - M. BENZERZROUR - R. ZENTAR</b>	
	<b>Chairmen : M. BENZERZOUR, J. KLEIB, M. AMAR</b>	<b>Chairmen : R. ZENTAR , W. MAHERZI, D. RANGEARD</b>
	<b>CARACTERISATION OF POLLUTION IN SEDIMENTS</b>	<b>VALORISATION OF SEDIMENT AS AGGREGATES</b>
02:20	PROSPECTIVE STUDY ON MACROPLASTICS AND MICROPLASTICS WITHIN DREDGING SEDIMENTS <b>Mel Constant</b> , Claire Alary, David Dumoulin, Myriam Moreau, Isabelle De Waelez, Noémie Breton, Gabriel Billon LGCgE IMT Lille Douai France - LASIRE University of Lille France	HYBRID NATURE BASED SOLUTIONS DELIVERED THROUGH SEDIMENT STABILISATION AND SURFACE TEXTURES TO "GREEN" TRADITIONAL GREY INFRASTRUCTURE <b>William Coulet</b> , David Miko, Jack Davis, Izaak Reeder Exo Environmental Ltd, United Kinadom
02:40	A WIRELESS SOLAR-POWERED PORE PRESSURE SENSOR FOR MONITORING OF HYDRAULICALLY DREDGED SEDIMENTS USED IN LAND RECLAMATIONS <b>Thomas Vergote</b> National University of Singapore	EFFECT OF INCORPORATING FINE SEDIMENTS, AS FILLER, ON THE CONCRETE PROPERTIES <b>Hamza Beddaa</b> , Amor Ben Fraj, Francis Lavergne, Jean Michel Torrenti Cerema France - Clamens France - University of Gustave Eiffel IFSTTAR France
03:00	VERIFICATION OF THE THERMAL CONDUCTIVITY OF BIOSOURCED MATERIALS FOR THE IMPROVEMENT OF THE ENVIRONMENTAL QUALITY OF THE BUILDING. CASE OF DREDGED BRICK <b>Messaoud Moudjari</b> , H. Marouf, W. Maherzi, M. Benzerzour, F. Messaoudi PSATP. Alzeria - University Belhadi Bouchaib Alzeria - LGCgE IMT Lille Douai France - Faculty of Technology. University of Blida Alzeria	BENEFICIAL REUSE OF CONTINENTAL SEDIMENT AS ALTERNATIVE MATERIAL FOR CONCRETE MANUFACTURING <b>Coryse Coudray</b> , Marion Delplanque EDF R&D France - VNF, Lille, France
03:20 03:40	<b>BREAK</b>	
04:00	THE ENVIRONMENTAL IMPACT OF TWO TECHNIQUES FOR RECOVERING URBAN SEWAGE SLUDGE: A COMPARATIVE STUDY <b>Khawla Moulato</b> , Houda El Ayadi, Mohammed Ammari, Laïla Ben Allal MEDD - Faculty of Sciences and Techniques of Tangier Morocco	REUSE OF FLUVIAL SEDIMENTS AS PARTIAL REPLACEMENT OF SAND IN MORTARS : DESIGN AND STRENGTH DEVELOPMENT <b>Morgan Chabannes</b> , Johan Trigallez, Frédéric Becquart, Claire Alary, Jacques-Rémy Minane, Mathieu Henry, Laurence Hauouche LGCgE IMT Lille Douai France - CTP Belgique - ISSeP Belgique
04:20	LEACHABILITY OF TRACE METAL ELEMENTS FROM CONCRETE INCLUDING SSA-CEMENT <b>Sara-Fès Naamane</b> , Z. Rais, M. Taleb, N.H. Mtarfi, F.Z. Bouaich, W. Maherzi, M. Benzerzour, N. Edine Abriak Faculty of Sciences Dhar El Mehraz Morocco - LGCgE IMT Lille Douai France	INTEGRATED APPROACH TO HYBRIDIZING INNOVATIVE MATERIALS "RENEWAL OF THE CHEMICAL COMPOSITION OF THE DREDGED MUD <b>Marouf Hafida</b> , Walid Maherzi, Abdelaziz Semcha, Messaoud Moudjari, Farih Messaoudi University Belhadj Bouchaib Algeria - LGCgE IMT Lille Douai France - PSATP Algeria - Faculty of Science and Technology Ahmed Draya Algeria - Faculty of Technology University of Blida 1 Algeria
04:20	EVALUATION OF THE ENVIRONMENTAL IMPACT OF DREDGED SEDIMENTS TREATED BY GRANULAR RECOMPOSITION <b>Zeinab Mkahal</b> , Yannick Mamindy-Pajany, Nor-Edine Abriak, Walid Maherzi LGCgE IMT Lille Douai France	LIGHTWEIGHT AGGREGATES FROM CANAL DREDGING SEDIMENTS: FEASIBILITY AND PROCESS TEMPERATURE <b>Arne Peys</b> , Hadi Kazemi-Kamyab, Mathieu Henry, Ruben Snellings Sustainable Materials Management, VITO Belgium - CTP Belgium

# I2SM PROGRAM

30<sup>th</sup> June

	Chairmen : M. BENZERZOUR, A. ZAMBON, W. MAHERZI	Chairmen : R. ZENTAR, Y. MAMINDY PAJANY, L. BEN ALLAL
AM	MANAGEMENT OF DREDGED SEDIMENTS	VALORISATION OF SEDIMENT IN CEMENT AND BRICK INDUSTRY
09:30	ARE DREDGING SEDIMENTS ECOLOGICALLY EQUIVALENT TO A SOIL? <u>Florian Liénard</u> , Laurence Hauouche <i>ISSEP Belgium</i>	HYGROMETRY OF A COMPRESSED EARTH BLOCK BASED ON DAM SEDIMENT <u>Boumediene Serbah</u> , N.Abou-Bekr, S.Taibi <i>FSA University of Tiaret Algérie - LEOE University of Tlemcen Algérie - LOMC University of Le Havre Normandie France</i>
09:50	NESSIE® ROBOT AN INNOVATIVE ECOLOGICAL AND ECONOMICAL SEDIMENT DREDGING SOLUTION Stéphane CAFFO, <u>Raphael Gaillard</u> , Frédéric GAUCH <i>EDF France - Watertracks France</i>	VALORISATION OF DREDGED SEDIMENTS IN THE MANUFACTURE OF COMPRESSED EARTH BRICK SATBILIZED BY GEOPOLYMER BINDERS <u>Mohamedou Brahim</u> , Khadim Ndiaye, Salima Aggoun, Fouad Belayali, Walid Maherzi, Mahfoud Benzerzour <i>Cergy Paris University LMCEM France - LGCgE IMT Lille Douai France</i>
10:10	ETUDE DE L'EROSION HYDRIQUE DES SOLS ET SES FACTEURS CAUSAUX DANS LE BASSIN VERSANT ALLAL AL FASSI (MOYEN ATLAS, MOROCCO) <u>Touria El Kamej</u> , A. Baali, A. Couscous, O. Hakam <i>LGEDD Université Sidi Mohamad Ben Abdallah Morocco</i>	FIRED BRICKS MADE OF MARINE DREDGED SEDIMENTS : ENVIRONMENTAL AVAILABILITY OF SOME METALLIC ELEMENT <u>Fabienne Baraud</u> , Lydia Leleyter <i>University of Caen Normandy - UNICAEN France</i>
10:30	IMPROVEMENT OF THE MANAGEMENT OF WATER RESOURCES BY VALORIZATION OF SEDIMENTS OF DAMS BY USING THEM AS CONSTRUCTION MATERIALS FOR WEIRS AND DIKS WITH ROLLER COMPACTED CONCRETE RCC <u>Ali Kerdad</u> , Latifa.Mouhir,Nor-Edine Abriak <i>Faculty of Sciences and Techniques of Mohammedia-Hassan II University of Casablanca Morocco - LGCgE IMT Lille Douai</i>	FORMULATION OF CONCRETE MADE OF DREDGED SEDIMENTS AND ECO-FRIENDLY TERNARY BINDERS <u>Ahmed Zeraoui</u> , Walid Maherzi, Mahfoud Benzerzour, Nor-Edine Abriak <i>LGCgE IMT Lille Douai France</i>
10:50	BREAK	BREAK
11:10	CASE STUDY OF THE BOKSBURG LAKE IN SOUTH AFRICA: SEDIMENTATION AND MITIGATION MEASURES TO IMPROVE WATER QUALITY <u>Gerrit Basson</u> , Eddie Bosman, Hanief Ally <i>Department of Civil Engineering University of Stellenbosch, South Africa</i>	DAM FINE-GRAINED SEDIMENT RECOVERY IN CEMENT PRODUCTION <u>Antoine Faure</u> , Coryse Coudray, Isabelle Moulin, <i>SETEC LERM, France - EDF R&amp;D France</i>
11:30	END-OF-WASTE: A REAL OPPORTUNITY FOR RIVER DREDGED SEDIMENTS? <u>Emmanuel Branche</u> <i>EDF HYDRO France</i>	VALORISATION OF CALCINED SEDIMENT FROM SCOTLAND IN MANUFACTURING ECO-MORTARS <u>Rachid Hadj Sadok</u> , Mahfoud Benzerzour, Walid Maherzi, Agnès Zambon, Nor-Edine Abriak <i>LGCgE IMT Lille Douai France</i>
11:50	INCORPORATION OF DREDGED SEDIMENTS IN BUILDING MATERIALS: ENVIRONMENTAL AND SOCIETAL CONSIDERATIONS <u>Valérie Cappuyns</u> <i>KU Leuven Belgium</i>	VALORISATION DES SEDIMENTS DE DRAGAGE DU PORT DE TENES DANS L'INDUSTRIE CIMENTAIRE <u>Kamal Ouhba</u> , Lakhdar Benamara, Siham Cheich, Abdelkader Arabi <i>Department of Hydraulic, University of Sciences and Technology Med .Boudiaf, Algérie - Holcim Oggaz, Algérie</i>
12:10	<b>LUNCH BREAK</b>	
	Chairmen : M. BENZERZOUR, A. ZAMBON, W. MAHERZI	Chairmen : R. ZENTAR, C. ALARY, M. AMAR, N-E. ABRIAK
PM	PHYSICAL AND GEOTECHNICAL CHARACTERISATION OF SEDIMENTS	ECOSÉD - SEDIMATERIAUX
02:00	PHYSICO-CHEMICAL STUDY OF DAM'S SEDIMENTS FOR DREDGING AND VALORIZATION: CASE STUDY AL-KHATTABI DAM-MOROCCO <u>Ali Kerdad</u> , L. Mouhir, Nor-Edine Abriak <i>University of Casablanca Morocco - LGCgE IMT Lille Douai France</i>	LA DEMARCHE SEDIMATERIAUX: RETOUR SUR 10 ANS D'EXPERIMENTATION <u>Cyril Scribot</u> , Yannick Mamindy Pajany, Nor-Edine Abriak, Patrice Maurel <i>CD2E France - LGCgE IMT Lille Douai France - Conseil Région Hauts-de-France</i>
02:20	PROPERTIES OF GEOPOLYMER CEMENT PREPARED FROM AN INDUSTRIAL SLUDGE AND METAKAOLIN: A COMPARATIVE STUDY <u>Noureddine Belmokhtar</u> , Houda El Ayadi, Mohammed Ammari, Laïla Ben Allal <i>MEDD - Faculty of Sciences and Techniques of Tangier Morocco</i>	RECYCLING OF DREDGED SEDIMENTS AS A RAW MATERIAL FOR PORTLAND CEMENT PRODUCTION <u>Chu Duc Chinh</u> , Joelle Kleib, Mouhamadou Amar, Mahfoud Benzerzour, Nor-Edine Abriak, Jaouad Nadah, Nathalie Gineys. <i>LGCgE IMT Lille Douai France</i>
02:40	GEOTECHNICAL CHARACTERISTICS OF THE DREDGED SEDIMENTS OF THE BOUHANIFIA DAM <u>Bounouara Zohra</u> , Mekerta Belkacem, Benaïssa Abdelatif <i>LMST University of Sciences and Technology of Oran Algeria - University of Adrar Ahmed Draïa, Algeria.</i>	ENVIRONMENTAL ACCEPTABILITY OF DREDGED SEDIMENTS IN ROAD ENGINEERING: COMPARATIVE WASTE AND PRODUCT APPROACHES <u>Tristan Lecomte</u> , Yannick Mamindy-Pajany, Christine Lors, Nor-Edine Abriak <i>LGCgE IMT Lille Douai France</i>
03:00	WATER CONTENT DETERMINATION OF DREDGED SEDIMENTS AND THE TEMPERATURE EFFECT BETWEEN 40 C° AND 105 C° ON ORGANIC MATTER CONTENT <u>Fatima Ouendi</u> , Rachid Zentar <i>LGCgE IMT Lille Douai France</i>	VALORISATION DES SEDIMENTS DE DRAGAGE NON-IMMERGEABLES : AVANCEES TECHNOLOGIQUES DANS LE DOMAINE DE LA CONSTRUCTION ROUTIERE <u>Christophe Priez</u> , Yannick Mamindy-Pajany, Jaouad Nadah, <i>COLAS Nord-Est France - LGCgE IMT Lille Douai France - EOIOM France</i>
03:20	BREAK	BREAK
03:40	EFFECT OF SLUDGE ASH OF WASTEWATER TREATMENT PLANTS ON THE RHEO-MECHANICAL CHARACTERISTICS OF CEMENTITIOUS MATERIALS <u>Driss Djafari</u> , Rachid Zentar <i>University of Adrar Algeria - LGCgE IMT Lille Douai France</i>	VALORISATION OF SEDIMENT IN THE FORMULATION OF AIR-FOAM CONCRETE <u>Hanza Elmoueden</u> , Mouhamadou Amar, Agnès Zambon, Mahfoud Benzerzour, Nor-Edine Abriak <i>LGCgE IMT Lille Douai France</i>
04:00	LEACHING OF INORGANIC CONTAMINANTS FROM POLYMER MATRIX INCLUDING DREDGED SEDIMENTS BY USING THE DYNAMIC MONOLITH LEACHING TEST <u>Ilyas Ennahal</u> , Yannick Mamindy Pajany, Nor-Edine Abriak <i>LGCgE IMT Lille Douai France</i>	BIO-TREATMENT OF SEDIMENTS <u>Bonamy Gilles</u> , Nor-Edine Abriak, Mahfoud Benzerzour, Marie-Ange Feneuil <i>Biosynergie France - LGCgE IMT Lille-Douai France - Département du Nord, France</i>

# I2SM PROGRAM

2<sup>nd</sup> July

AM	<b>Chairmen : M. BENZERZOUR, F. BECQUART</b>	<b>Chairmen : R. ZENTAR, A. ZAMBON, P. GREGOIRE</b>
	<b>TREATMENT OF SEDIMENTS</b>	<b>VALORISATION OF SEDIMENT IN AGRICULTURE AND OTHERS</b>
09:30	RESULTS OF LONG-TERM MONITORING OF A RIVER SEDIMENT REUSE AND PHYTO-STABILISATION TRIAL USING REED CANARYGRASS <b>Richard Lord</b> , Richard Green, Keith Torrance, Ben Nunn <i>Faculty of Engineering, University of Strathclyde, Scotland - Independent, United Kingdom</i>	DETERMINATION OF THE MECHANICAL PROPERTIES OF CEMENTITIOUS MIXTURES WITH SEDIMENTS: EXPERIMENTAL AND NUMERICAL APPROACHES <b>Amani Abdallah</b> , Hassina Kada, Ghislain Louis, Toufik Kanit, Abdelwaheb Amrouche <i>LGCaE - University of Artois France - LGCaE IMT Lille-Douai France - University of Lille UML France</i>
09:50	THE APPLICATION OF MOBILE & CONTINUOUS DEHYDRATION EQUIPMENT TO EVALUATE SEDIMENT REUSE STRATEGIES - INTERREG NWE SURICATES PROJECT CASE STUDIES & RESULTS INTERPRETATION <b>Tristan Debuigne</b> , Delphine Hardy, Mohammed Boumahdi <i>Ixsane France</i>	SEDIMENTS FOR AGRICULTURE: INTERESTING PERSPECTIVES FOR SOILS IN France <b>Emmanuel Branche</b> , David Julien, Claire Mangeant <i>EDF HYDRO France - Chambre d'Agriculture Charente-Maritime La Rochelle France - VNF Bethune France</i>
10:10	MECHANICAL BEHAVIOR OF TREATED SEDIMENT WITH CALCIUM SULFOALUMINATE CEMENT FOR ROAD MATERIALS VALORISATION <b>Hongwei Wang</b> , Rachid Zentar, Dongxing Wang <i>LGCGE IMT Lille Douai France - School of Civil Engineering University of Wuhan, China</i>	WASTEWATER TREATMENT BY ENERGY SOLAR AND PHOSPHATE DOPED WITH TITANIUM OXIDE <b>Abdeslam Lamiri</b> , Jamal Naja <i>University Hassan I, Morocco</i>
10:30	THE BENEFITS OF USING POLYMERS IN DREDGING ILLUSTRATED BY TWO PROJECTS <b>Alexis Boisson</b> <i>SNF France</i>	LA VALORISATION EN AMENDEMENT AGRICOLE DES SÉDIMENTS D'ENVASEMENT DU BARRAGE DJORF-TORBA (Wilaya de BÉCHAR) <b>Fateh Belaout</b> , Belkacem Mekerta, Rachid Zentar, Slimane Kalloum <i>LLDI Faculty Sciences and Technology, University Ahmed Draia-Adrar, Algeria - IMT Lille Douai France - University of Ahmed Draia Adrar Algeria</i>
10:50	BREAK	BREAK
	<b>Chairmen : M. BENZERZOUR, W. MAHERZI, M. AMAR</b>	<b>Chairmen : R. ZENTAR, A. ZAMBON, P. GREGOIRE</b>
11:10	POSTER SESSION (A)*	POSTER SESSION (B)**
12:10	<b>LUNCH BREAK</b>	
PM	<b>Chairmen : M. BENZERZOUR, M. AMAR, J. KLEIB</b>	<b>Chairmen : R. ZENTAR, F. BECQUART, H. MAROUF</b>
	<b>MANAGMENT OF SEDIMENTS</b>	<b>VALORISATION OF SEDIMENT IN ROAD CONSTRUCTION</b>
02:00	REMEDATION OF RIVER SEDIMENT BY ELECTROKINETIC METHOD <b>Mathilde Betremieux</b> , Yannick Mamindy-Pajany <i>IMT Lille Douai France</i>	STUDY OF THE POSSIBILITIES OF BENEFICIAL REUSE THE ARCACHON SEDIMENT, IN ROADS CONSTRUCTION FIELD <b>Abriak Yassine</b> , Walid Maherzi, Ahmed Zeraoui, Mahfoud Benzerzour, Patrice Rivard <i>LGCGE IMT Lille Douai France</i>
02:20	LIFE CYCLE ASSESSMENT OF DREDGED SEDIMENTS USAGE AS A PAVEMENT BASE MATERIAL (PROSPECTIVE STUDY) <b>Mohammad Almokdad</b> , Rachid Zentar <i>LGCGE IMT Lille Douai France</i>	THE PARTICLE SIZE EFFECT ON THE COMPRESSIVE STRENGTH OF ROADS MATERIALS. ALGERIAN ARID REGION CASE STUDY <b>Moulay Omar Hassan</b> , Rachid Zentar, Mustapha Akacem, Abbou Mohamed, Mekerta Belkacem <i>Faculty of Technologies University Ahmed Draia Adrar, Algeria - LGCGE IMT Lille Douai, France</i>
02:40	INTEGRATED COASTAL MANAGEMENT OF THE GRAND PORT MARITIME DE DUNKERQUE (GPMD) BY THE BENEFICIAL USE OF DREDGING SEDIMENTS IN THE CONTEXT OF CIRCULAR ECONOMY <b>Pascal Grégoire</b> , Samira Brakni <i>Grand Port Maritime de Dunkerque France - ToGreW Expertise France</i>	ROAD USE OF LYVET SEDIMENTS <b>Fall Magatte</b> , Rengeard Damien, Djellani Abdoukhadre <i>Ecole supérieure de Dakar Senegal</i>
03:00	DRY FAVA BEANS PEEL: A NEW ADSORBENT FOR THE REMOVAL OF CATIONIC POLLUTANTS FROM WASTEWATER <b>Loubna Nahali</b> , Ouissal Assila, Hanane Souhassou, Youssef Miyah, Abdelhak Kherbeche, Farid Zerrouq <i>Laboratoire Matériaux, Procédés, Catalyse et Environnement, Ecole Supérieure de Technologie, Université Sidi Mahamed Ben Abdallah et non Université Hassan II.</i>	VALORISATION OF SANDS OF DUNES MIXED WITH TUFF IN SAHARAN ROAD CONSTRUCTION. AN ALGERIAN CASE STUDY <b>Akacem Mustapha</b> , Rachid Zentar, Belkacem Mekerta, Omar Hassen Moulay, Driss Djafari <i>Faculty of Technologies, University Ahmed Draia Adrar, Algeria - LGCGE IMT Lille Douai, France</i>
03:20	<b>SYMPOSIUM CLOSURE</b> Organizing committee	

# POSTERS

Poster Session A*	Poster Session B**
<p>ADSORPTION OPTIMIZATION USING BOX-BEHNKEN RSM OF RHODALISTA - MINE B OVER NATURAL BENTONITE CLAY  <b>Othmane Lamrani</b>, K. Tanji, O. Assila, A. Arrahli, A. Boushaba, F. Zerrouq, A. Kherbeche  <i>LISTA - University of Sidi Mohamed Ben Abdellah Morocco - LCMEST University of Sidi Mohammed Abdellah Fez Morocco</i></p>	<p>COMPORTEMENT MÉCANIQUE D'UN BLOC EN TERRE NON CUITE STABILISÉE À LA CHAUX  <b>Tahar Nouioua</b>, M.K.Guedouda, I.Goua, Quéneudec-T'Kint Michèle  <i>Faculté de Genie Civil et d'Architecture, University of Amar Teljij, Laghouat, Algeria - Université de Picardie Jules Verne. Amiens, France</i></p>
<p>INVESTIGATION OF BRICK WASTE ON WORKABILITY AND COMPRESSIVE STRENGTH OF SELF-COMPACTING CONCRETE  <b>Messaoudi Farih</b>, Hafida Marouf, Maherzi Walid, Moudjari Messaoud  <i>University of Blida I Algeria - University Belhadj Bouchaib, Ain Temouchent, Algeria - IMT Lille Douai France - Polytechnic School of Architecture and Town Planning, Algiers, Algeria</i></p>	<p>VALORISATION DE NOYAUX DES DATTES COMME ADSORBANTS POTENTIELS DANS LE TRAITEMENT DES EAUX USEES  <b>Thiam Abdoulaye</b>, Rabia Bouslamti, Ahmed Obeid, Abdelhak kherbeche  <i>University Hassan II of Casablanca Morocco</i></p>
<p>EVALUATION DE LA DEGRADATION DES ROCHES SCHISTEUSES SOUS L'EFFET DES CHANGEMENTS CLIMATIQUES A L'AIDE DE LA NOTION DE DIMENSION FRACTALE  <b>Bachir Melbouci</b>, Ait Malek Abderrahim  <i>LGEA - University of Tizi-Ouzou Algeria</i></p>	<p>EFFECT OF DIFFERENT TYPES OF SAND ON THE PHYSICAL AND MECHANICAL PROPERTIES OF CONCRETE (EXPERIMENTAL STUDY)  <b>Ahmed Attia</b>, Salim Guettala and Michèle Quéneudec T'kint, Hadji Tarek, Taha Hocine Douara  <i>Science and Technology, University of Mohamed Khider in Biskra Algeria - Science and Technology, University of Ziane Achour in Djelfa, Algeria - EPROAD, University of Picardy Jules Verne in Amiens, France</i></p>
<p>CU- NI EFFECT ON THE BENTONITE CLAY SYNTHESIZED VIA IMPREGNATION METHOD DURING CWPO OF METHYL GREEN  <b>Assila Ouissal</b>, Karim Tanji, Loubna Nahali, Youssef Miyah, Farid Zerrouq, Abdelhak Kherbeche  <i>LCME - University Sidi Mohammed Ben Abdellah Fez Morocco</i></p>	<p>RECYCLING OF INDUSTRIAL LIQUID EFFLUENTS RICH IN COBALT IN A CLAY-BASED CERAMIC MATRIX: CHEMICAL EVALUATION.  <b>Elmoustafa Iboustaten</b>, Roberta Bertani, Mohamed Ez-Zejjari, Abdelhak Kherbeche  <i>LMPCE University Sidi Mohamed Ben Abdellah Morocco - Department of Industrial Engineering (DII), University of Padova, Italy - Higher school of technology of FES, Morocco</i></p>
<p>CORRELATION BETWEEN EXPERIMENTAL STUDIES OF Z-SCHEME VISIBLE-LIGHT CU-TIO2/AG3PO4 HETEROGENEOUS PHOTOCATALYST AND DFT CALCULATIONS  <b>Oumaima Mertah</b>, Kenza El Hajjaji Abdelhak Kherbeche  <i>LCME - University of Sidi Mohamed Ben Abdellah Morocco - CBS Mohammed VI Polytechnic University, BenGeurir, Morocco</i></p>	<p>COPPER NICKEL CO-IMPREGNATION OF MOROCCAN YELLOW CLAY AS PROMISING CATALYSTS FOR THE CATALYTIC WET PEROXIDE OXIDATION OF CAFFEINE  <b>Ouissal Assila</b>, K. Tanji, M. Zouheir, L. Loubna, f. Zerrouq, A. Kherbeche  <i>LMPCE University Sidi Mohamed Ben Abdellah Morocco</i></p>
<p>THE ROLE OF COBALT AND COPPER ON ZNO SURFACE DURING THE PHOTODEGRADATION OF RHODAMINE B (RHB)  <b>Karim Tanji</b>, M. Zouheir, Y. Fahoul, J. Naja, H. Hassoune, A. Chaqroune, A. Kherbeche  <i>LMCE - Higher School of Technology Morocco - LACES, Settati, Morocco - Université Mohamed VI Polytechnique, Ben Guérir, Morocco - USMBA Morocco</i></p>	<p>REMAZOL BRILLIANT BLUE R ADSORPTION STUDIES AND MODELING ON A POWDERED NATURAL BIO-ADSORBENT MATERIAL SURFACE  <b>Mohammed Benjelloun</b>, Youssef Miyah, Abdelhakim El Ouali Lalami, Yassine Ez zoubi, Sanae Lairini, Rabia Bouslamti  <i>LMPCE University Sidi Mohamed Ben Abdellah Morocco - INPHT Regional Health Directorate, EL Ghassani Hospital, Fez, Morocco - BETVBR Department of Biology, Faculty of Science and Technology University, Tetouan, Morocco</i></p>
<p>THE EFFECT OF CHROMIUM HEXAVALENT ON THE MECHANICAL PROPERTIES OF AN ECO-CONSTRUCTION MATERIAL  <b>Imad El fellah</b>, Asmaa Fakh Lanjri, Mohammed Ammari, Laïla Ben Allal  <i>MEDD - Faculty of Sciences and Techniques of Tangier Morocco</i></p>	<p>PYROPHYLLITE CLAY AS LOW-COST CATALYST SUPPORT: APPLICATION IN PHENOL UV-PHOTODEGRADATION  <b>Abdelali El Gaidoumi</b>, Amal Loqman, Abdellah Arrahli, Brahim El Bali, Abdelhak Kherbeche  <i>LMPCE University Sidi Mohamed Ben Abdellah Morocco - University of Sultan Moulay Slimane Morocco - CRE IISAEM Université Euro-Méditerranéenne Morocco - Independent Scientist Morocco</i></p>
<p>DEVELOPMENT OF A NEW PLASTIC WASTE VALORISATION PROCESS  <b>Hajar Jeniah</b>, Houda El Ayadi, Mohammed Ammari, Laïla Ben Allal  <i>MEDD - Faculty of Sciences and Techniques of Tangier Morocco</i></p>	<p>COAL WASTE-ROCKS RECYCLING FROM JERADA ABANDONED MINE TO BE REUSED IN THE ROADWORK SECTOR AS AN AGREGGATES  <b>Imad Sfa</b>, OM. El Adnani, K. Abdessamad, R. Argane  <i>Mohammed V University Rabat Morocco - National School of Mines of Rabat Morocco - RT ILABO laboratory Morocco</i></p>
<p>THREE-DIMENSIONAL PRINTING OF A GREEN CONSTRUCTION MATERIAL: AN EXPERIMENTAL STUDY  <b>Lina Mouden</b>, Noureddine Belmokhtar, Mohammed Ammari, Laïla Ben Allal  <i>MEDD - Faculty of Sciences and Techniques of Tangier Morocco</i></p>	<p>" Morocco USE OF GEOGRAPHIC INFORMATION SYSTEMS FOR THE ASSESSMENT OF GROUNDWATER QUALITY IN THE PLAIN OF BERRECHID, MOROCCO  <b>Mohammed Moukhless</b>, Taleb Abdeslam, Samir Hobaizi, Ali El bilali  <i>Faculty of Science and Technology of Mohammedia, University Hassan II of Casablanca, Morocco - River Basin Agency of Bouregerg and Chaouia,</i></p>
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