



Final programme

EUROMAGH INTERNATIONAL CONFERENCE

Sustainability and Biobased Materials:

On the road of the bioeconomy

Rouen, Oct 19-20 2020

CONFERENCE PROGRAMME EUROMAGH 2020

Sustainability and Biobased Materials: On the road of bioeconomy

Monday 19-10-2020 (Morning session)				
8h30-9h00	Conference Opening: Marie Lummerzheim, Dean, UniLaSalle-Rouen; Karine LAVAL: R&D Director, UniLaSalle-Rouen, Nathalie LEBLANC: Deputy Head of T&A Unit, UniLaSalle-Rouen Rezak AYAD: Professor URCA & Coordinator Euromagh Network Mohamed RAGOUBI: Associate professor & Conference Manager, UniLaSalle-Rouen			
9h00-9h35	Plenary Conference : Michael Carus, Bioeconomy and Bio-based Products – markets and trends, Founder and Director Manager Nova Institute, Germany,			
9h35-10h10	Plenary Conference : Anne Daubresse, PARNATUR, Responsable pole prospectives methodes et formulation, Parex Group, Genesis of an innovative bio-based coating as part of a collaborative project, France			
10h10-10h25	Break			
10h25-12h45	Topic 1 : Agrosources, fibers, nanofibers and nanoparticles reinforcements, Morphology, Physiology-Properties,	TOPIC 2: Biocomposites and Nano biocomposites, Processing, Properties and Sustainability	TOPIC 3: Rheology, Bioprocess and Modeling	TOPIC 4: Plant aggregates, vegetal concrete and Industrial valorisation: Characterization - Formulation - Multiphysics Properties and Eco-conception,
	Chairman : Pr Rezak AYAD, Co-Chairman: Frederic BECQUART,	Chairman : Pr Patrick MARTIN, Co-Chairman: Dr Riadh ZOUARI,	Chairman : Pr Nore-edine ABRIAK, Co-Chairman: Dr Richard GATTIN,	Chairman : Pr Zakia RAIS, Co-Chairman: Dr Fouad LOUATID,
10h25-10h40	Adhesion of Bio-sourced Sporopollenin Microcapsules on Textile Structures: Perspective for Water Depolluting Textiles, Nabil BOUAZIZI <i>et al</i> ,	Are there similarities between quasi-static indentation and low velocity impact tests for flax-fibre composites?, Adélaïde LEROY <i>et al</i> ,	Sensitivity analysis of a coupled hygrothermal transfer model using Morris method: application to unfibred adobe materials, Tchiotso JUNIOR <i>et al</i> ,	Characterization of Earth Hemp for green building thermal insulation by taking into account the variability of locally available resources, Théo VINCESLAS <i>et al</i> ,
10h40-10h55	Analysis of the relationships between the morphology, microstructure and tensile behaviour of flax fibre bundles, Komlavi GOGOLI <i>et al</i> ,	Damage evolution of cross-ply flax fibre reinforced epoxy composites subjected to repeated impact, Youcef hadj mihoub SIDI MOUSSA <i>et al</i> ,	Thermo-mechanical behaviour of flax/green epoxy composites: Evaluation of thermal expansion coefficients and application to internal stress calculation El Hadi SAIDANE <i>et al</i> ,	Development of Bio-Based Panels with Posidonia Oceanica's Waste for Building Thermal Insulation, Melek AYADI <i>et al</i> ,
10h55-11h10	Biosynthesis of silver nanoparticles by Rosmarinus officinalis: Evaluation of their antibacterial and nitroarenes hydrogenation catalytic activities. Abderrahmane NABGUI <i>et al</i> ,	Effects of electron beam irradiation on 4D-printed biopolymers for bone tissue engineering, Conrad MASTALERZ <i>et al</i> ,	Numerical modelling of dynamic properties of porous nonwoven bio composites using a 2.5D finite element model, Hajer HADIJI <i>et al</i> ,	Effects of porosity and hydration heat on the mechanical behaviour of foam concrete incorporating hemp shives, Abdelrahman MOHAMAD <i>et al</i> ,
11h10-11h25	Characterization and Manufacturing of 3D Warp Interlock Fabrics With Moroccan Sisal Yarns, Zineb SAMOUH <i>et al</i> ,	Introduction to a new method for analysing the fibre orientation distribution in plant fibre composite preforms, Victor GAGER <i>et al</i> ,	Low-density insulation blocks and hardboards from amaranth (Amaranthus cruentus) stems, a new perspective for building applications Philippe EVON <i>et al</i> ,	Hydrothermal treatment of hemp shives: influence on the physical and chemical properties, Reine KARAM <i>et al</i> ,
11h25-11h35	Break			
11h35-11h50	Chemical composition of plant particles by physical and chemical approaches, Maya-Sétan DIAKITÉ <i>et al</i> ,	MECHANICAL CHARACTERIZATION OF NEEDLE PUNCHED NON WOVEN NATURAL FIBERS REINFORCED THERMOPLASTIC COMPOSITE, Meriem KHALIFA <i>et al</i> ,	The effect of micromechanics models, 2D and 3D numerical modeling on mechanical property predictions for PP/Alfa short fiber composites, Fatima-Ezzahra EL ABBASSI <i>et al</i> ,	Production of waste fibre-reinforced raw earth specimens by controlled compaction, Mazhar HUSSAIN <i>et al</i> ,
11h50-12h05	Hemp shiv: how retting process influences their physicochemical properties? Santiago ARUFE <i>et al</i> ,	Investigation on PLA/PHBHHx blends: Morphological, thermal and mechanical characterization Mustapha KACI <i>et al</i> ,	New process for the upcycling of cow horn by uniaxial thermocompression, Margaux JUMEAUX <i>et al</i> ,	Thermal conductivity of insulation material based on straw aggregates and a bio-binder extracted from straw menus and sunflower pith, Naima BELAYCHI <i>et al</i> .
12h05-12h20	Mechanical tensile behaviour of tropical waste fibres, Léo SAOUTI <i>et al</i> ,	Physico-mechanical performances of flax fiber biobased composites: Retting and process effects, Morgan Lecoublet <i>et al</i> ,	Robust non-destructive method for the identification of surface weight fibres orientation based on image processing, Ahmad BAKLOUTI <i>et al</i> ,	Multiphysics properties of fired clay bricks incorporating deinking paper sludge, Hajer MAKNI <i>et al</i> ,
12h20-12h45	Poster Session (Chairman: Cesar SEGOVIA, Co-chairman: Dr Sebastien ALIX)			
	Poster 1: Effect of Natural Weather on the Structure and Properties of PA11/Sepiolite Nanocomposites, Kahina IGGUI <i>et al</i> ,			
	Poster 2: Enhancing hydrophoby of flax woven fabric using eco-friendly plasma jet technology, Fatma Zahra SASSI <i>et al</i> ,			
	Poster 3: Industrial demonstrator to valorize agro-residues in ecoconstruction and bio renovation, Hafida ZMAMOU <i>et al</i> ,			
	Poster 4: Conception of Cellulose Films Reinforced with Clay: Mechanical Properties, Thermal Stability and Hydrophobicity, Wilfried KANGBODE <i>et al</i> ,			
	Poster 5: Towards bio-based PLA/TPS composites as a host matrix for embedding and release of particulate biochar fillers: exploring phase compatibility and microstructural variations, Tom HAELDERMANS <i>et al</i> ,			
	Poster 6: Biocomposites based on cellulose nanofibers /unsaturated polyester resins, Rihab MUSTAPHA <i>et al</i> ,			

EUROMAGH 2020

Autumn School Programme



Mardi 20-10-2020	
8h30-8h45	Ouverture de l'école d'automne
	1st workshop : Biobased Materials for Building application,
9h00-9h20	Dynamique COP21 Rouen-Normandie, Emergence d'une coalition bas carbone pour la construction durable, Frederic Charrier, Direction Energie & Environnement, Metropole Rouen Normandie, France
9h20-9h40	Bioéconomie, une nouvelle vision du vivant, où en est on en Normandie; Sophie Rabeaux, Responsable Projet AgroMatériaux Nov&Tech, CRAN Normandie, France
9h40-10h00	Frederic Becquart (IMT): Cure hydrothermale : une des solutions d'avenir pour le développement des bétons végétaux, Frederic Becquart, Enseignant Chercheur, IMT Lille-Douai, France
10h00-10h15	Session Questions,
10h15-10h30	Pause
10h30-11h50	Enjeux stratégiques pour le développement de matériaux biosourcés: de la filière agricole aux réglementation environnementales et de construction; Boubker Laidoudi & Guillaume Delannoy, Ingenieur R&D, CODEM, France
10h50-11h10	Démarche de création d'un écoproduit : exemple d'un plastique à partir de matière première secondaire locale (sédiments de dragage), Julien Raynal, Ingénieur produit, NEOECO, France
11h10-11h30	Valorisation de fibres naturelles pou l'isolation thermique et sonore de bâtiments; Cesar Ségovia, Responsable Innovation, Cetelor & Zouari Riadh, Enseignant Chercheur, ISET kSAR Hlel, Monastir, Tunisie,
11h30-11h50	Produits biosourcés : évaluation environnementale et labels; Yves Hustache, Co-founder Karibati, France
11h50-12h30	Table ronde & Débats & Réactions
12h30-14h00	Repas
	2nd workshop : Biobased Materials and Industrial Valorisation
14h00-14h20	The sustainability group of Aachen-Maastricht institute for biobased materials (AMBIM) Dr Pouya SAMANI, Senior Lecturer, Maastricht University, Netherlands
14h20-14h40	Ahmed: Fabrication et caractérisation des biocomposites à base de polymères thermoplastiques et de fibres de bois, Professeur Ahmed Koubaa, Laboratoire Bomatériaux, UQAT, Québec, Canada
14h40-15h00	From natural polysaccharides to bio-based materials - Cellulose and Starch-based additives, plastics and composites, Nicolas Joly, Professeur, Univ Artois, France
15h00-15h15	Session Questions,
15h15-15h30	Pause
15h30-15h50	CP: Christophe Baley, 1910 - 2020. Évolution des arguments justifiant l'usage des fibres végétales comme renfort, Professeur Christophe Baley, IRDL, Univ Bretagne Sud, France
15h50-16h10	Fouad:Valorisation de la biomasse comme source pour le développement d'agents retardateurs de flamme pour biopolymères, Dr Fouad Loautid, R&D Manager, Centre MateriaNova, Belgique
16h10-16h30	SUR une Méthodologie de modélisation compotementale de composites biosourcés, Professeur Rezak Ayad, Univ URCA, France
16h30-17h30	Table ronde & Débats & Réactions & Bilan de la journée
17h30	Fin de la journée

For any request or information, please contact : euro.magh2020@unilasalle.fr
 For the organization Committee
 Conference Manager
 Dr Mohamed RAGOUBI