

The second international conference on eco-friendly flame retardant additives and materials (ECOFRAM)

Metz, 28-29th March 2018, France

Invited speakers:

- **Dr. Manfred Döring:** Fraunhofer Institute, Germany
- **Prof. Jean-Luc Gardette:** Institut de Chimie de Clermont Ferrand, France
- **Prof. Giulio Malucelli:** Giulio Malucelli : Politecnico di Torino, Italy
- **Dr. Anna Stec:** University of Central Lancashire, Preston, England



ECOFRAM 2018, Conference Agenda

Wednesday, March 28, 2018	
8:30 pm to 9:00 pm	Registration and Reception
9:00 am to 9:15 am	Opening ceremony
<i>Environmental aspects, fire toxicity and smoke</i>	
9:15 am to 9:50 am	Keynote: Anna Stec (University of Central Lancashire) Fire effluent toxicity: yields and effects from common materials under different fire conditions
9:50 am to 10:10 am	Rodolphe Sonnier (IMT Mines Ales): New Insights into the Investigation of Smoke Production Using a Cone Calorimeter
10:10 am to 10:30 am	Toussaint Barboni (Université de Corse): Smoke analysis from forest fuel and effects of toxicity on the organism of the personnel involved
10:30 am to 11:00 am	Break/Poster session
11:00 am to 11:20 am	Carine Chivas-Joly (Laboratoire nationale d'essai): Behavior and characterization of EVA nanocomposites after incineration process
11:20 am to 11:40 am	Ine De Vilder (Centexbel): FLAREX: Mitigation of environmental impact caused by flame retardant textile finishing chemicals
<i>Regulation, standardization and fire testing</i>	
11:40 am to 12:00 pm	Hans-W. Marx (Linseis Messgeräte GmbH): Thermal conductivity: measurement techniques
12:00 pm to 12:20 pm	Hakan Kanli (Etimine S.A.): Borates - How compliant they are with respect to European Chemicals Policy
12:20 pm to 2:00 pm	Lunch
<i>New and Sustainable flame retardant additives & Bio-based FR additives and polymers</i>	
2:00 pm to 2:35 pm	Keynote: Manfred Döring- (Fraunhofer Institute) Green Synthesis of Bio-based Flame Retardants
2:35 pm to 2:55 pm	Valeriia Karaseva (IMT Mines Ales) New biosourced flame retardant agents based on gallic and ellagic acids for epoxy resins
2:55 pm to 3:15 pm	Fouad Laoutid (MateriaNova): Tannic acid & Phytic acid as building blocks for development of new renewable Flame Retardant agent for Poly(lactic acid)
3:15 pm to 3:35 pm	Benjamin Chollet (IMT Mines Ales) : Lignin's size and functionalization effects on thermal properties and fire behavior of PLA
3:35 pm to 4:00 pm	Break/Poster session
4:00 pm to 4:20 pm	Séverine Bellayer (UMET-Université de Lille): Fire Retardant sol-gel coatings for flexible polyurethane foams

ECOFRAM 2018, Conference Agenda

Wednesday, March 28, 2018	
4:20 pm to 4:40 pm	Laia Haurie (Universitat Politècnica de Catalunya): Radiation grafting of flame retardant resin into wood samples
4:40 pm to 5:00 pm	Andy Goodwin (First Graphene Ltd.) Graphene composites toward development of new generation fire-retardant coatings
5:00 pm to 5:20 pm	Osman Emre Özkan (Kastamonu University): Leaching and Thermal Properties of Fire Retardants Treated Wood
8:00 pm	Gala Dinner

Thursday, March 29, 2018	
<i>Life cycle analysis of flame retardant products (ageing, recycling)</i>	
9:00 am to 9:35 am	Keynote: Jean Luc Gardette- (Institut de Chimie de Clermont Ferrand) Mutual influence of weathering and flame retardancy of polymers
9:35 am to 9:55 am	Rémy Mangin (Université de Lorraine): Impact of ageing on the fire behavior of flame-retarded formulations
9:55 am to 10:15 am	Marc Vanhoomissen (Veramtex): Fire and Ageing Resistant Biocomposite for Transportation industry
10:15 am to 10:35 am	Jonathan Crozier- Chris Thornton (CEFIC-PINFA): Flame retardants in the BioEconomy and the Circular Economy
10:35 am to 11:00 am	Break
<i>Industrial applications and markets for Eco-FR products</i>	
11:00 am to 11:20 am	Bansi L. Kaul (MCA Technologies GmbH) Fire retardancy beyond gas-phase and condense-phase principles
11:20 am to 11:40 am	José-Marie Lopez Cuesta (IMT Mines Ales) Flame-retarded PLA core-skin compositions through FDM additive manufacturing
11:40 am to 12:00 pm	Alexis Chopin (Eurostar Engineering Plastics) Industrial Radiation Crosslinkable Polyamide Compounds to Comply with Stringent Flammability Requirements and More
12:00 pm to 12:20 pm	Fredrik Westin (Deflamo AB): Apyrum in soft vinyl
12:20 pm to 1:50 pm	Lunch

ECOFRAM 2018, Conference Agenda

Thursday, March 29, 2018	
<i>Fire retardancy of fibers, textiles and composites</i>	
1:50 pm to 2:25 pm	Keynote: Giulio Malucelli- (Politecnico di Torino) Biomacromolecules as effective “green” flame retardants for textile substrates
2:25 pm to 2:45 pm	Sebastian Rabe (BAM-Bundesanstalt für Materialforschung): Rummaging through industrial waste: Natural fibers in flame retarded thermoplastic starch biocomposites
2:45 pm to 3:05 pm	Stéphane Giraud (ENSAIT-GEMTEX): Impact of lignin/zinc phosphinate introduced by melt spinning on the fire retardant properties of bio-source textile structure
3:05 pm to 3:25 pm	Roland El Hage (Lebanese University): A flame retarded chitosan binder for insulating miscanthus/recycled textile fibres reinforced biocomposites
3:25 pm to 3:45 pm	Maud Jimenez (UMET - Université de Lille) Eco-efficient flame retardant self-stratifying coatings for plastics
3:45 pm to 4:05 pm	Raymond Hajj (IMT Mines Ales): Phosphorus grafting on flax fabrics to improve their flame retardancy: a comparison between chemical modification and e-beam radiation
4:05 pm to 4:30 pm	Closing Ceremony