



Alès, France, October 16th – 17th, 2018

Towards flame retardant biopolymers and biocomposites: current research strategies, scientific barriers and perspective applications

Chairs: Prof. L. Ferry and Dr. R. Sonnier

Final program

Tuesday 16th

9h00 Reception and registration

9h30 Welcome speech (P. Perdiguier for IMT-Mines Alès, A. Bergeret for C2MA and P. Navard for EPNOE)

10h00 Laurent Ferry (C2MA, Ecole des Mines d'Alès, France) *Flame retardancy of polymers: How bioresources can help firefighting*

10h50 Coffee break

11h20 Stefan Gebke (Technische Universität Dresden, Germany) *Flame retardants based on plant raw materials*

11h45 Begona Galindo (AIMPLAS, Spain) *Next-Generation Halogen Free Flame Retardants Based on Renewable Resources*

12h10 Benjamin Chollet (C2MA, France) *Thermal and flame retardant properties of polylactide containing lignin micro- and nano-particles*

12h35 Lunch

14h00 Claire Negrell (Institut Charles Gerhardt, Montpellier, UMR CNRS 5253, Ecole Nationale Supérieure de Chimie de Montpellier, France) *Reactive biobased phosphorylated flame retardants*

14h25 Camille François (Institut de Chimie Moléculaire de l'Université de Bourgogne, UMR CNRS 6302, Université de Bourgogne Franche-Comté, Dijon, France) *Improving the flame retardant properties of biobased epoxy thermosets - A copolymerization approach*

14h50 Valeriia Karaseva (C2MA, France) *Biosourced phenolic compounds from chestnut wood used as fire retardant agents in epoxy resins*

15h15 Clement Lacoste (C2MA, France) *Flame retardancy of woods by radiation-curing of phosphorus-based resins*

15h40 Coffee break and Poster session

16h40 Nicolas Brosse (LERMAB, France) *Fiberproof cottonized hemp fibers*

17h05 Mohammad Rajaei (Centre for Advanced Composite Materials, University of Auckland, New Zealand) *A Comparative Study of Thermal and Mechanical Behaviour between Flax and Glass Fibre Reinforced Composites*

17h30 Abdelghani Laachachi (LIST, Luxembourg) *Improvement of flame retardant properties of continuous flax fiber-reinforced acrylic composite*

17h55 Laia Haurie (Universitat Politècnica de Catalunya, Espagne) *Fire behaviour of bio-based insulation boards*

20h00 Gala Dinner

Wednesday 17th

8h30 Reception

9h00 Federico Carosio (Politecnico di Torino, Alessandria, Italy) *Invited conference – High Performing Flame Retardant Materials from Surface or Bulk Nanostructuring of Biobased Components*

9h50 Anna Svedberg (MoRe Research Örnköldsvik AB, Sweden) *Formation of MFC Based Dimensional Structures: Up-scaling Using Traditional Paper Making Approach*

10h15 Rodolphe Sonnier (C2MA, France), *Flame retardancy of cellulose using ionic liquids*

10h40 Coffee break

11h10 Jens Buller (Fraunhofer Institute for Applied Polymer Research, Potsdam, Germany) *Flame retardant bioplastic – conventional systems and novel green concepts for extended applications of biopolymers*

11h35 Jean-Jacques Flat (Arkema, France) *Development of new self-extinguishing bio-based polyamides*

12h00 Aurélie Taguet (IMT Mines Alès, France) *Phosphorus-modified Halloysite nanotubes as flame retardant for polyamide11 polymers*

12h25 Lunch

14h00 C2MA lab visit (with fire tests demonstration)