



3rd International Conference on ECO-friendly Flame Retardant Additives and Materials

17 – 18 May 2022, Alès (France)



Program

Tuesday May 17		
	8:00-8:30	Registration
	8:30-8:45	Conference opening
		Session 1 : Sustainable flame retardant solutions
1	8:45-9:20	GAAN Sabyasachi (EMPA, St Gallen, Switzerland) « <i>Flame Retardation of Polyamide 6 via Reactive Extrusion Process</i> »
2	9:20-9:40	MEUNIER Louis (UMET, Univ. Lille, France) « <i>Flame-retardancy of a PBT vitrimer matrix</i> »
3	9:40-10:00	SHABANIAN Meisam (IPFDD, Dresden, Germany) « <i>New intumescent flame retardant for PLA/PHA blends</i> »
4	10:00-10:20	MAREK Aleksandra (PCC Rotika, Brzeg Dolny, Poland) « <i>New halogen free flame retardant tailored for the flexible polyurethane foam market requirement</i> »
5	10:20-10:40	BATTENBERG Christian (Clariant, Sulzbach am Taunus, Germany) « <i>Sustainable retardants for engineering plastics</i> »
	10:40-11:00	Coffee break
	11:00-11:15	Flash talk posters
6	11:15-11:35	ROSSIGNOL Sylvie (IRCER, Univ. Limoges, France) « <i>Geopolymer formulations as flame retardant materials</i> »
7	11:35-11:55	DE SCHRYVER Daniel (Albemarle, Louvain-la-Neuve, Belgium) « <i>Sustainable Fire Safety Solutions for a Wide Variety of Applications</i> »
8	11:55-12:15	HOULDER James (PCL, Durham, UK) « <i>Flame Retardants: A Changing Landscape</i> »
9	12:15-12:35	IBANEZ BRUGUES Carles (ICL, Barcelona, Spain) « <i>Sustainability of Polymeric Brominated Flame Retardants</i> »
	12:35-14:00	Lunch break

		Session 2 : Flame retardant coatings
10	14:00-14:35	GRUNLAN Jaime (Texas A&M Univ., College Station, USA) « <i>Water-Based, Environmentally-Benign, Polyelectrolyte-Based Flame Retardant Treatments</i> »
11	14:35-14:55	JIMENEZ Maude (UMET, Univ.Lille, France) « <i>Bio-based flame retardant self-stratifying coatings</i> »
12	14:55-15:15	DENIS Maxinne (ICGM, Univ. Montpellier, France) « <i>Phosphorus modified cardanol: a greener route to reduce volatile organic compounds and bring flame retardant properties to alkyd resins coatings</i> »
13	15:15-15:35	BELLAYER Séverine (UMET, Univ.Lille, France) « <i>Transparent fire protective sol-gel coatings for wood panels</i> »
14	15:35-15:55	SAMYN Fabienne (UMET, Univ.Lille, France) « <i>Efficiency of polyelectrolyte complex for wood protection</i> »
	15:55-16:15	Posters + coffee break
		Session 3 : Biobased flame retardants materials
15	16:15-16:35	LORENZETTI Jean-Valère (SPE, Univ. Corse, France) « <i>New plant-based additives as passive fire protection for wood materials : bench-scale data analysis for the development of natural intumescent coatings</i> »
16	16:35-16:55	EL HAGE Roland (LCPM, Lebanese Univ. Lebanon) « <i>Flame retardancy of Phytic acid/Urea grafted steam-exploded miscanthus-based materials</i> »
17	16:55-17:15	XIANG Annan (IMRI, Univ. Bolton, UK) « <i>The role of chemically modified lignin as a bio-based flame retardant in polymers</i> »
18	17:15-17:35	DE SMET David (Centexbel, Gent, Belgium) « <i>Bio-based FR for textile application</i> »
19	17:35-17:55	SONNIER Rodolphe (PCH, IMT Mines Alès, France) « <i>Fire behaviour of alginate foam</i> »
	19:30-23:00	Gala Dinner
	Wednesday May 18	
		Session 4 : Flame retardant natural fibres materials and textiles
20	8:30-9:05	KANDOLA Baljinder (IMRI, Univ. Bolton, UK) « <i>Biodegradable Natural Fibre Composites: Developments and new trends in flame retardancy</i> »
21	9:05-9:25	NGUYEN THANH Thuy Tien (DOCT, Budapest Univ. Tech. Eco., Hungary) « <i>Flame retardancy study on PBS composites</i> »
22	9:25-9:45	ANTOUN Karina (LCPM, Lebanese Univ. Lebanon) « <i>Renewable Phosphorous-Based Flame Retardant For Lignocellulosic Materials</i> »
23	9:45-10:05	DEBORDE Lily (LGCGM, Univ. Rennes, France) « <i>Characterization of hemp fiber fire reaction</i> »
24	10:05-10:25	VAHABI Henri (LMOPS, Univ. Lorraine, France) « <i>Flame-retardant natural textiles</i> »

	10:25-10:45	Posters + coffee break
		Session 5 : Flame retardancy and Ageing
25	10:45-11:20	THERIAS Sandrine (ICCF, Univ. Clermont-Auvergne, France) « <i>Photodegradation of Fire-Retarded Polymers</i> »
26	11:20-11:40	FERRY Laurent (PCH, IMT Mines Alès, France) « <i>Impact of hygrothermal ageing on the fire behavior of flame retarded epoxy/flax composites</i> »
		Session 6 : Regulation and performance
27	11:40-12:00	THORNTON Christopher (PINFA) « <i>Drivers and challenges for environmentally friendly flame retardants</i> »
28	12:00-12:20	SALLE Jonathan (CREPIM, Bruay la Buissière, France) « <i>E-Mobility and qualification of battery safety performance</i> »
	12:20-13:50	Lunch break
		Session 7 : Incineration and valorization of wastes
29	13:50-14:25	POURCHEZ Jérémie (SAINBIOSE, Mines St Etienne, France) « <i>End-of-life incineration of nanocomposites: new insights on nanofillers partitioning into by-products and biological outcomes of airborne emission and residual ash</i> »
30	14:25-14:45	LAMANDE Adèle (CSTB, Champs sur Marne, France) « <i>Study of the burning behavior and gases emissions of Cross-Laminated Timber (CLT) in a Controlled-Atmosphere Cone Calorimeter (CACC)</i> »
31	14:45-15:05	FALKENHAGEN Sandra (BAM, Berlin, Germany) « <i>Black as hell, strong as death and sweet as love - Pyrolyzed waste materials and cyclodextrins as effective filler in flame retarded epoxy composites</i> »
	15:05-15:20	coffee break
32	15:20-15:40	PETLITCKAIA Svetlana (SPE, Univ. Corse, France) « <i>Elaboration of composites based on polypropylene and cork wastes</i> »
33	15:40-16:00	LAOUTID Fouad (Materia Nova, Mons, Belgium) « <i>Towards the valorization of brominated plastic waste from WEEE</i> »
34	16:00-16:20	LOPEZ CUESTA José-Marie (PCH, IMT Mines Alès, France) « <i>Use of lignin and nanoparticles in flame retarded PLA processed through 3D printing</i> »
	16:20-16:30	Conference closing

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