

KEYNOTE SPEAKERS

(K1) N. Esmaeili: On the differing mechanisms of action of the flame-retardant synergists zinc stannate and antimony trioxide in combination with poly(pentabromobenzyl acrylate) in polyamide 6,6

(K2) G. Fontaine: Understanding the thermal degradation and fire behavior of High Performance Polymers

(K3) M. Zammarano: Reduced-scale test to assess the effect of fire barriers on the combustion behavior of core flammable materials: an upholstery-material composites case study

(K4) S. Gaan: Challenges of commercializing new phosphorus flame retardants: Academic perspective

(K5) A. Morgan: Phosphorus hydrazides as flame retardants for epoxies

(K6) M. Nazir: Alkyl sulfone bridged phosphorus flame retardants for polypropylene and flexible polyurethane foams

(K7) C. Rawas: Flame retardants in furniture: The Eniflamme research project (2018-2020) - Evaluation of emissions due to exposition of flame retardant upholstered furniture and bedding

(K8) R. Kraemer: On the role of material properties in the ignition of polymers by small flames

(K9) M. Batistella: Selective laser sintering of polyamide 12/flame retardant compositions

(K10) X. Lin: Weathering resistance of halogen-free flame retardance in E&E polymeric materials

(K11) P. Moio: Managing fire safety on a Newbuilding based on facts and not on assumptions

(K12) T. Tirri: Refining sulfenamide radical generators for different polymer compositions

(K13) J. Lenz: Novel phosphonates as flame retardants for polymers

(K14) X. Wang: Synthesis of cardanol derived flame retardants and their application in epoxy composites

- (K15) J. Vasiljević:** Flame retardant effectiveness of nanodispersed organophosphorus-derivative in polyamide 6 textile filament yarns
- (K16) F. Carosio:** Controlling the reaction and resistance to fire of polyurethane foams by single step deposition of nanostructured coatings
- (K17) S. Duquesne:** Design of flame retardant self-stratifying coatings for plastics
- (K18) A.-L. Davesne:** Thin infrared-reflective coatings to enhance the fire performance of polymers
- (K19) A. Toldy:** The effect of manufacturing technologies on the flame retardancy of carbon fibre reinforced epoxy resin composites
- (K20) D.-Y. Wang:** Nano-hybrid as nano flame retardant to polymers: Opportunities and challenges
- (K21) L. Greiner:** Tailor-made phosphorus containing flame retardants for carbon fiber reinforced epoxy resin composites preventing the formation of respirable fiber fragments
- (K22) J. Swann:** Characterization of pyrolysis and combustion of polycarbonate using two-dimensional modeling: An application to relate thermal transport and the physical structure of the intumescent char
- (K23) L. Speitel:** Effect of fuel/oxygen ratio and combustion temperature on polymer combustion products measured in the microscale combustion calorimeter
- (K24) Y. Ding:** Flammability model development for a polymeric material containing multiple reactive flame retardants: Relationship between material composition and heat release rate
- (K25) Y. Liu:** The effect of alginate fibers on the flame retardancy of cotton/alginate blended fabrics
- (K26) R. Mosurkal:** Bio-based flame retardant coating for nylon-cotton fabric utilizing synergistic effect of tannic acid and phytic acid
- (K27) L. Ferry:** Biophenolic compounds from chestnut as flame retardant in epoxy resin
- (K28) S. Zhang:** Recent advancement on the application of chitosan derivatives in flame retardant polyurethane composites

- (K29) G. Labat:** New bio-based fire retardant for wood-based insulation boards
- (K30) G. Peck:** Flammability and Smoke Toxicity of Modern Building Façades
- (K31) M. Beach:** Assessing the stability of Bluedge Flame retardant in polystyrene foams
- (K32) L. Tange:** Creating a circular economy for bromine-containing flame retardant plastics by the use of innovative and sustainable recycling technologies
- (K33) B. Weclawski:** Sustainable Flame Retardant Application to Nylon Textiles by Novel Atmospheric Plasma Surface Activation
- (K34) E. Metzsch-Zilligen:** Halogen-free flame retarded plastics: A demanding challenge in recyclability?
- (K35) S. Eibl:** Chemical analysis for failure analysis related to flame retardants