

CONFERENCE PROGRAMME

Sunday, September 2

16:00 - 19:00	Registration & Welcome Buffet
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Monday, September 3

08:00- 09:00	Registration	
09:00 - 09:10	Opening Jan Pilař, František Rypáček, Jean-Luc Gardette	
	Chairperson: Jean-Luc Gardette	
09:10 - 09:50	Rudolf Pfaendner PL_1 (Photo)oxidative degradation and stabilization of flame retarded polymers	
09:50 - 10:20	Coffee Break	
	Room A Chairperson: Graeme George	Room B Chairperson: James Lewicki
10:20 - 10:50	Agnes Rivaton KL_1 Photochemical stability of materials for organic photovoltaics	Constantine Papispyrides KL_2 Mechanistic aspects of solid state polyamidation processes
10:50 - 11:10	Roberto Benavides OC_001 Stability of gamma irradiated PVC formulations with crosslinking density enhancement by using transfer agents	Boris Gorelik OC_006 Toughening of unsaturated polyester resins by reacting additives
11:10 - 11:30	Luigi Costa OC_002 Post-irradiation oxidation of polypropylene	Sophie Peeterbroeck OC_007 Natural sepiolite network in SBR nanocomposites
11:30 - 11:50	Pierre Bussiere OC_003 Light-induced degradation of polysaccharides: from the modification of the chemical structure to those of the nanomechanical properties	Adriana Souza OC_008 Recycled PET/PP-EP blends: influence of compatibilizer and/or montmorillonite clay addition
11:50 - 12:10	Steve Collin OC_004 Physicochemical and mechanical impacts of accelerated photo-ageing on polycarbonate CD-R substrates	Samuel Toffoli OC_009 Properties of polyamide 6.6 composites containing recycled glass particles

12:10 - 12:30	Nadka Tz. Dintcheva OC_005 Natural anti-oxidant additives for bio-degradable polymers	Onsy Dimitry OC_010 Preparation and properties of plasticized poly (vinyl chloride) / organically modified montmorillonite nanocomposites
12:30 - 13:40	Lunch	
	Room A Chairperson: Mathew Celina	Room B Chairperson: Constantine Papaspyrides
13:40 - 14:00	Ivana Šeděnková OC_011 Influence of additives on polyolefins' degradation studied by infrared spectroscopy	Hynek Beneš OC_062 Chemical decomposition of plastics in microwave field – new way how to recycle plastic waste
14:00 - 14:20	John Colwell OC_012 Field-deployable FTIR for paint degradation analysis	Stephane Bruzaud OC_016 Durability of polylactide-based nanocomposites in different environments
14:20 - 14:40	Graeme George OC_013 Sensitive luminescence techniques to assess polymer degradation	Regina Jeziorska OC_017 Wood-filled LLDPE composites with improved biocidal properties
14:40 - 15:00	Geoffrey Bouvet OC_014 Study of ratcheting phenomenon and internal stresses in a high-density polyethylene thanks to fluorescence spectroscopy	Hideki Abe OC_018 Nano-structure and properties of biosynthesized medium-chain-length poly(3-hydroxyalkanoate)s
15:00 - 15:30	Coffee Break	
	Room A Chairperson: Roberto Benavides	Room B Chairperson: Constantine Papaspyrides
15:30 - 15:50	Bruno Fayolle OC_019 Chemical degradation of polyethylene in contact with chlorine, diffusion limited oxidation aspects	Alain Bourmaud OC_022 Recycling of vegetal fibers reinforced polymers
15:50 - 16:10	Karin Jacobson OC_020 Corrosion of plastic pipes after long term use of chlorine dioxide disinfection	Mathilde Casetta OC_023 Effect of paint contaminant on the recycling of automotive bumpers

16:10 - 16:30	Pierre Quennehen OC_021 Physicochemical behaviour of aged PVC insulated cables	Alberto D'Amore OC_108 Modeling the fatigue behavior of glass fiber reinforced thermoplastic and thermosetting matrices
16:30 - 17:50	Poster Session I.	

Tuesday, September 4

	Chairperson: Norman Billingham	
09:00 - 09:40	<p align="center">Mathew Celina PL_2 Polymer oxidation and its impact on materials performance and lifetime prediction: An overview</p>	
09:40 - 10:10	<p align="center">Coffee Break</p>	
	<p>Room A Chairperson: Rudolf Pfaendner</p>	<p>Room B Chairperson: Boris Gorelik</p>
10:10 - 10:40	<p>Giovanni Camino KL_3 Advances in fire retardant polymer materials</p>	<p>Sahar Al-Malaika KL_4 Polymer nanocomposites: Influence of processing on product stability</p>
10:40 - 11:00	<p>Daniela Enescu OC_024 Investigation on flame retardancy and antidripping of novel intumescent flame retardant towards a traditional one on polypropylene</p>	<p>Ivan Fortelný OC_029 Prediction of the polymer blend morphology using concept of effective shear flow</p>
11:00 - 11:20	<p>Beata Szolnoki OC_025 Development of flame retarded natural-fibre- reinforced epoxy resin composites</p>	<p>Alexandre Francois-Heude OC_030 Kinetic modeling of a polymer blend thermal ageing</p>
11:20 - 11:40	<p>Marcos Antonio Batistella OC_026 Fire behavior of Ethylene Vinyl Acetate/kaolinite composites</p>	<p>Katja Klimke OC_031 Impact modification of poly-4-methyl-pentene-1 and polypropylene by conventional and non-conventional elastomers</p>
11:40 - 12:00	<p>Jenny Alongi OC_027 Layer by layer assembly of nanoarchitectures for enhancing the flame retardancy of cotton, PET and PET-cotton fabrics</p>	<p>James Lewicki OC_032 Structure-property relationships in end-linked model PDMS networks – linking network architecture to degradation behavior and materials performance</p>
12:00 - 12:20	<p>Katalin Bordacsne Bocz OC_028 New factor in mechanism of fire retardancy: synergism of fibres with intumescent flame retardants</p>	<p>Marco Morreale OC_033 On the photo-oxidation behaviour of nano- filled polypropylene: role of the filler type and compatibilizer</p>
12:20 - 13:40	<p align="center">Lunch</p>	

	Room A Chairperson: Luigi Costa	Room B Chairperson: Gabriela Botelho
13:40 - 14:00	Amin Shabani OC_034 Radiochemical aging of ATH filled EPDM	Gyorgy Marosi OC_037 Polymer modifications for pharmaceutical extrusion
14:00 - 14:20	Anthony Perthue OC_36 Photodegradation of luminescent ethylene-vinyl acetate/inorganic phosphor composites for application as multifunctional coating of organic solar cells	Luigi Botta OC_038 Effect of cold drawing on the antimicrobial and physical properties of PCL/CHX monofilaments
14:20 - 14:40	André de Almeida OC_059 EPDM compounds degradation under γ irradiation: influence of copolymer composition and fillers	Ulrike Braun OC_039 Structure changes of polymers for medical application during their life cycle
14:40 - 16:10	Coffee Break (14:40 - 15:10) & Poster Session II. (14:40 - 16:10)	

Wednesday, September 5

	Room A Chairperson: Giovanni Camino	Room B Chairperson: Sahar Al-Malaika
09:00 - 09:10	Sven Brehme OC_040 Phosphorus polyesters as halogen-free polymeric flame retardants in poly(butylene terephthalate) – Influence of the chemical structure	Sandrine Therias KL_5 Influence of functional nanoparticles on the photostability of polymer materials: recent progress and further applications
09:10 - 09:20		
09:20 - 09:30	Dorota Kijowska OC_041 New hybrid halogen free flame retardants	Gordon Nelson OC_045 Polymer-inorganic nanocomposites: Investigation of thermal degradation and flame retardant mechanisms
09:30 - 09:40		
09:40 - 09:50	Sophie Duquesne OC_042 Phosphinic acid functionalized PolyEthylene Imine (HPEI) – a novel flame retardant agent for glass reinforced Polybutylene Terephthalate	Mogon Patel OC_046 Volatile outgassing investigations of EVA based materials in support of system level ageing model development
09:50 - 10:00		
10:00 - 10:10	Giulio Malucelli OC_043 SOL-GEL treatments for enhancing flame retardancy of cotton	Benoit Ruelle OC_047 Functionalization of carbon nanotubes via plasma post-discharge surface treatment: Implication as nanofiller in polymeric matrices
10:10 - 10:20		
10:20 - 10:30	Erika Nakashima OC_044 Effect of polymer matrix structures on its degradation and flammability	
10:30 - 10:40		
10:40 - 11:10	Coffee Break	
	Room A Chairperson: Emmanuel Richaud	Room B Chairperson: Jonas Enebros
11:10 - 11:30	Jianwei Hao OC_048 Study on the thermal degradation of a mixture of a novel caged bicyclic phosphate and ammonium polyphosphate	Stephen Bigger OC_052 Biodegradation of expanded polystyrene modified with a novel polymer additive
11:30 - 11:50		
11:30 - 11:50	Guilhermino Fechine OC_049 Study of thermo-stabilization of biodegradable polymers during extrusion process	Emilie Gauthier OC_053 Is the soil type influencing the above-ground degradation of oxo-degradable polyethylene thin films?

11:50 - 12:10	Romuald Herbinet OC_050 Limiting Poly(Lactic Acid) degradation during processing by using reactive extrusion	Tadahisa Iwata OC_054 Synthesis and characterization of xylan and glucomannan ester derivatives and their crystallization effects for poly(lactic acid)
12:10 - 12:30	Pierre Yves Le Gac OC_051 Relationship between chemical and mechanical modification during oxidation of chloroprene rubber	Ana Machado OC_055 Synthesis of biodegradable copolymers of ethyl vinyl acetate and poly(ϵ -caprolactone)
12:30 - 13:40	Lunch	
	Room A Chairperson: Francesco Paolo La Mantia	Room B Chairperson: Baltus C. Bonse
13:40 - 14:00	Jose Carlos Pinto OC_056 Production of polymers based on furanic dicarboxylic acid through polycondensation reactions—effects of polymerization conditions on polymer stability	Peter Niedermann OC_060 Natural fiber reinforced bio-based epoxy resin composites developed for aeronautical applications
14:00 - 14:20	Emmanuel Richaud OC_057 Polymer oxidation at glassy state	Carine Chivas-Joly OC_061 Nanomaterials incineration and particles release
14:20 - 14:40	Meryll Smith OC_058 Ageing studies of natural rubbers used in space application	Stamatina Vouyiouka OC_015 Solid state polymerization of poly(lactic acid): Critical process parameters
14:40 - 15:00		Pavel Kucharczyk OC_063 Synthesis of PLA-PEG copolymer and its chain extending with di-isocyanate compounds. Structure, properties, degradation and potential utilization
15:00 - 15:30	Coffee Break	
	Room A Chairperson: Rui Yang	Room B Chairperson: Hynek Beneš
15:30 - 15:50	Simone Ribeiro OC_064 Clays d-spacings effect on the fire retardance of polymer nanocomposites with an intumescent formulation	Marta Chylinska OC_068 Synthesis of novel biocidal polymer based on poly(hydantoin-methyl-p-styrene) and characteristics of its properties

15:50 - 16:10	Rongjie Yang OC_065 Blowing-out effect of epoxy composites flame-retarded by DOPO-POSS and its correlation with amide curing agents	Nathalie Dendele OC_069 Synthesis of functionally modified polyetherimides by reduction using sodium borohydride
16:10 - 16:30	You Zhou OC_066 Influence of zinc borate on fire protection and thermal degradation of intumescent coating containing a novel caged bicyclic phosphate	Gabriel Gedler OC_070 Influence of graphene nanoparticles on the thermal stability of polycarbonate nanocomposite foams
16:30 - 16:50	Cristian Dragos Varganici OC_067 Thermal decomposition study of some polymeric multicomponent systems based on aromatic polyurethane and epoxy resin network	Sebastien Berthumeyrie OC_071 Photo- and thermal degradation mechanism of polylactide / ZnO nanocomposites : evolution of thermal and mechanical properties
16:50 - 17:50	MoDeSt Meeting	

Thursday, September 6

	Room A Chairperson: Sophie Duquesne	Room B Chairperson: Sandrine Therias
09:00 - 09:20	Rodolphe Sonnier OC_072 Use of PCFC to predict the flammability parameters of polymers from their chemical structure	Jiří Kotek OC_077 Biodegradable polyester nanocomposites: the effect of structure on mechanical and degradation behavior
09:20 - 09:40	Hossein Vahabi OC_073 Nanocomposites of polypropylene/polyamide blends based on three different nanoclays: thermal stability and fire retardancy	Ewa Wierzbicka OC_078 Structural, thermal and mechanical characteristic of the polyamide 6/modified halloysite composites
09:40 - 10:00	Marco Zanetti OC_074 Flame retardancy in polyethylene/CNT and polyethylene/silica nanocomposites	Fouad Laoutid OC_079 Effect of silica nanoparticles on morphology and properties of injection molded immiscible polymer blends
10:00 - 10:20	Amandine Viretto OC_075 Influence of micro magnesium dihydroxide on thermal degradation and fire behavior of polyesters	Lidia Tokarz OC_080 Polyoxymethylene/nanosilica nanocomposites
10:20 - 10:40	Jozef Rychlý OC_076 Cone calorimeter in the research of burning of thermally thin polymers	Olivier Penseigne OC_081 Tailoring of co-continuous polymer blends morphology: joint action of nanoclays and compatibilizers
10:40 - 11:10	Coffee Break	
	Room A Chairperson: Rongjie Yang	Room B Chairperson: Stephen Bigger
11:10 - 11:30	Yahya Zahra OC_082 Thermal degradation mechanisms of nuclear Epoxy coatings	Junkal Gutierrez OC_086 Feasible pathway to developed multifunctional hybrid low-cost materials based on bacterial cellulose
11:30 - 11:50	James Hochrein OC_102 Identification of low-molecular weight volatile thermal-oxidative nylon 6.6 degradation products using selective isotopic labeling and cryo-GC/MS	Shahla Shekariz OC_087 Kawabata analysis and X-ray photoelectron spectroscopy analysis plasma treated cotton

11:50 - 12:10	Wieslaw W. Sulkowski OC_084 The influence of preliminary preparation of raw material on yield of the installations of polyolefin waste thermodestruction	Jonas Enebro OC_088 Effects of reprocessing of oxobiodegradable and non-degradable polyethylene on the durability of recycled materials
12:10 - 12:30	Imene Boughattas OC_085 Thermal decomposition of irradiated poly(vinyl chloride)	Baltus C. Bonse OC_089 Effect of reprocessing on bamboo fiber reinforced polypropylene composite properties
12:30 - 13:40	Lunch	
	Room A Chairperson: Bela Pukánszky	Room B Chairperson: Gyorgy Marosi
13:40 - 14:00	Francesco Paolo La Mantia OC_090 Photooxidation of polymer systems under stress. A new apparatus.	Roberto Benavides OC_095 Styrene/acrylic acid copolymers modified by crosslinking and sulfonation reactions for their use as membranes in fuel cells
14:00 - 14:20	Artur Schoenlein OC_091 System for deterministic acceleration of laboratory weathering	Vincent Mareau OC_096 Impact of operating conditions and membrane degradation on performances of PEMFC
14:20 - 14:40	Rui Yang OC_092 Oxidative degradation products analysis by pyrolysis gas chromatography-mass spectroscopy	Laurent Gonon OC_097 Chemical stabilization of polymer electrolytes used in PEMFC
14:40 - 15:00	Olga Trhlíková OC_093 SEC/DAD and ¹ H NMR study of molecular weight and configurational stability of high-cis poly(phenylacetylene) and poly[(2,4-difluorophenyl)acetylene]	Gabriela Botelho OC_098 Physical properties of cross-linked chitosan electrospun fiber mats
15:00 - 15:20	Carlos Barreto OC_094 Novel organic solvent-free purification of poly(propylene carbonate): Tailoring the composition and thermal properties	Piotr Jankowski OC_099 Water-thinnable unsaturated polyester resins with hydrophilic sulfonate groups for coating applications
15:20 - 15:50	Coffee Break	

	Room A Chairperson: Artur Schoenlein	Room B Chairperson: Jiří Kotek
15:50 - 16:10	Dan Nguyen Dang OC_100 Effect of external mechanical stresses on the hydrothermal ageing of DGEBA/TETA epoxy resin	Pierre J. Carreau OC_104 Control of thermal degradation of PET/clay nanocomposites by chain extension reaction
16:10 - 16:30	Bela Pukanszky OC_101 Natural antioxidants – Study of the processing stabilizing efficiency and mechanism of curcumin in polyethylene	Agnieszka Tercjak OC_105 Nanostructured thermosetting systems designed using block copolymers as template for thermo-, photo- and electro-responsive materials
16:30 - 16:50	Robert Bernstein OC_083 Leveraging isotopic labels to elucidate the thermal-oxidative degradation mechanisms of Nylon 6.6	Denis Hrelja OC_106 Synthesis of nanocomposite polyurethane foams based on organic and inorganic phosphinates
16:50 - 17:10	Michael Davies OC_103 Phosphites in process stabilization of PVC and Polyolefins	Mohammad Reza Moghbeli OC_107 Unsaturated polyester-based hybrid nanocomposite
17:10 -	Closing Remarks & Farewell	