

VII International Baekeland Symposium

October 15-18, 2019 - Tarragona - Spain

The background of the entire page is a photograph of the Roman ruins of Tarragona, Spain. The image shows a large, multi-tiered stone structure, likely an amphitheater or a similar public building, built from reddish-brown stone blocks. The structure is partially ruined, with some sections missing. In the foreground, there are more stone walls and a paved area. In the background, the blue sea is visible under a clear sky, with several small sailboats on the water.

Program

Tuesday, October, 15th - Afternoon

Location:	
Ciutat de Tarragona Hotel	
15:00 - 18:00	Participants Accreditation
Location:	
Opening Session "Auditori Diputació" Theatre	
18:00 - 20:00	Open Ceremony -Short welcome speeches by: The Rector of University Rovira i Virgili The Spokesman of the chemical business association of Tarragona The Honorary Chairman of Baekeland 2019 The Chair of Baekeland 2019 - All things Bakelite: The age of plastics" movie screening This film, directed by John Maher, creates a joyous and provocative story about the "father of modern plastics" Leo Hendrik Baekeland and his discovery: the Bakelite. The film will be presented by Mr. Hugh Karraker, great grandson of Dr. Leo Baekeland.
20:00 - 22:00	Welcome cocktail

Wednesday, October, 16th - Morning

08:00 - 09:00	Participants Accreditation
Session 1	Chairman: Filip Du Prez Topic: 1
09:00 - 09:30	IL-01 Yusuf Yagci BENZOXAZINE CHEMISTRY: A VERSATILE TOOL BOX FOR SMART MATERIAL SYNTHESIS
09:30 - 09:50	OC-01 Roi Meizoso Loureiro LIQUID EPOXY PREPOLYMERS BASED ON LIGNIN (FROM ULEX EUROPEAUS)
09:50 - 10:10	OC-02 René Saint-Loup ISOSORBIDE AND ITS DERIVATIVES IN THERMOSETTING RESINS
10:10 - 10:30	OC-03 Canan Durukan AMIDE LINKAGE CONTAINING POLYBENZOXAZINE PRECURSORS
10:30 - 10:50	OC-04 Louis Pilato LIGNIN: SOURCE OF PHENOL MONOMER AND PHENOLIC RESINS
11:00 - 11:30	Coffee Break / Poster Discussion
Session 2	Chairman: Yusuf Yagci Topic: 1 and 3
11:30 - 11:50	OC-05 Kamer Bayram MODIFICATION OF POLYBENZOXAZINES FOR ADVANCED MATERIALS BY KINDLER REACTION
11:50 - 12:10	OC-06 Vicens Muns NOVOLAC RESINS AND THEIR INFLUENCE OVER FINAL BEHAVIOUR IN THE LAMINATES IN PCB INDUSTRY
12:10 - 12:30	OC-07 Michael Schwab LIGNIN- A BIO-BASED RAW MATERIAL FOR THE SYNTHESIS OF PHENOLIC RESINS
12:30 - 12:50	OC-08 Michel Delmas LEELIGNIN™: A NEW GREEN PHENOLIC OLIGOMER FOR INDUSTRIAL PRODUCTION OF PHENOLIC, EPOXY RESINS AND POLYURETHANS
12:50 - 13:10	OC-09 Sylvain Caillo GETTING RID OF FORMALDEHYDE AND PHENOL IN PHENOLIC THERMOSETS: NEW WAYS FOR THE INTRODUCTION OF BIOSOURCED STARTING MATERIALS
13:10 - 13:30	OC-10 Paul Ashford DEALING WITH RESINS UNDER REACH (EC 1907/2006)
13.30 - 15:00	Lunch

Wednesday, October, 16th - Afternoon

Session 3	
Chairman: Marco Sangermano	
Topic: 7	
15:00 - 15:30	IL-02 Rigoberto Advincula 3D PRINTING HIGH PERFORMANCE NANOCOMPOSITES AND THERMOSETS
15:30 - 15:50	OC-11 Leila Bonnaud BENZOXAZINE BASED PREPREGS AS ADVANCED MATERIAL FOR THERMAL AND FIRE PROTECTION OF ORGANIC COMPOSITES
15:50 - 16:10	OC-12 Willem van der Graaff FRAGRANCE ENCAPSULATION BY SUSPENSION POLYMERIZATION OF METHACRYLATE-FUNCTIONALIZED OLAS
16:10 - 16:30	OC-13 Andrzej Rybak METHODS OF THERMAL CONDUCTIVITY ENHANCEMENT OF EPOXY COMPOSITES USED AS ELECTRICAL INSULATION IN INDUSTRIAL APPLICATIONS
16:30 - 16:50	OC-14 Sébastien Pruvost EPOXY-IONIC LIQUID THERMOSETS: RELATIONSHIPS BETWEEN THE NETWORK AND THE ELECTRICAL PROPERTIES
17:00 - 17:30	Coffee Break / Poster Discussion
17:30 - 18:00	Free Time
18:00 - 20:00	Roman Tarragona guided tour
20:00 - 22:00	Cocktail in Ancient Seminary

Thursday, October, 17th - Morning

Session 4	
Chairman: Rigoberto Advincula	
Topic: 1	
08:30 - 09:00	IL-03 Brigitte Voit HYPERBRANCHED POLYMERS IN HIGH-PERFORMANCE COATINGS AND RESINS
09:00 - 09:20	OC-15 Zeynep Deliballi SULFUR AS A FEEDSTOCK FOR ADVANCED MATERIALS
09:20 - 09:40	OC-16 Sebastien Livi FROM IONIC LIQUID EPOXY MONOMER TO NEW EPOXY-AMINE NETWORKS WITH ANTIBACTERIAL PROPERTIES
09:40 - 10:00	OC-17 Monika Jedrzejczyk RENEWABLE THIOL-YNE 'CLICK' NETWORKS BASED ON MODIFIED LIGNIN FOR RESINS APPLICATIONS
10:00 - 10:20	OC-18 Jin Yan Wang NOVEL PHTHALAZINONE-BEARING TETRA-FUNCTIONAL EPOXY: SYNTHESIS, CHARACTERIZATION, AND THEIR TOUGHENING APPLICATION FOR TGDDM SYSTEM
10:20 - 10:40	OC-19 Igor Sirotin SYNTHESIS AND PROPERTIES OF BISPHENOL A BASED PHOSPHAZENE-CONTAINING BENZOXAZINES
10:40 - 11:00	OC-20 Denis W. Smith SEMI-FLUORINATED RESINS AND POLYNAPHTHALENE NETWORKS FROM FLUOROALKENES AND ENEDIYNES
11:00 - 11:30	Coffee Break / Poster Discussion
Session 5	
Chairman: Brigitte Voit	
Topic: 1, 4, 5 and 7	
11:30 - 12:00	IL-04 Roberto Williams AN OVERVIEW OF EPOXY VITRIMERS
12:00 - 12:20	OC-21 Xavier Fernández-Francos DUAL-CURING THERMOSETS FOR ADVANCED APPLICATIONS
12:20 - 12:40	OC-22 Osman Konuray DUAL-CURING THERMOSETS BASED ON EPOXY-AMINE CHEMISTRY
12:40 - 13:00	OC-23 Gerhard Maier S-PAN FOR LITHIUM-SULFUR BATTERIES: SCALE-UP AND SYNTHESIS IN REFLUXING SULFUR
13:00 - 13:20	OC-24 Quentin Ruiz BIOMASS-DERIVED PHENYLPROPENES AS PRECURSORS OF THERMOSETTING EPOXY RESINS: FROM SYNTHESIS TO MATERIALS
13.30 - 15:00	Lunch

Thursday, October, 17th - Afternoon

Session 6	Chairman: Xavier Fernández Francos Topic: 4 and 1
15:00 - 15:30	IL-05 Filip Du Prez INTERNALLY CATALYSED COVALENT ADAPTABLE NETWORKS
15:30 - 15:50	OC-25 Yann Spiesschaert INFLUENCE OF THE POLYMER MATRIX ON THE VISCO-ELASTIC PROPERTIES OF VINYLOGOUS URETHANE VITRIMERS
15:50 - 16:10	OC-26 Guy Van Assche SELF-HEALING THERMOREVERSIBLE COVALENT NETWORKS – FROM MATERIAL DESIGN TO SOFT ROBOTICS
16:10 - 16:30	OC-27 Niels Van Herck DEVELOPMENT OF COVALENT ADAPTABLE NETWORKS BASED ON DYNAMIC THIOACETAL CHEMISTRY
16:30 - 16:50	OC-28 Silvia De la Flor POLY(THIOURETHANES) BASED VITRIMERS WITH ENHANCED FUNCTIONAL PROPERTIES
17:00 - 17:30	Coffee Break / Poster Discussion
Session 7	Chairman: Roberto Williams Topic: 4 and 1
17:30 - 17:50	OC-29 Katharina Koschek HOW COVALENT ADAPTABLE NETWORKS ALLOW FOR MOULDABLE AND RECYCLABLE THERMOSETTING LIGHTWEIGHT MATERIALS
17:50 - 18:10	OC-30 Álvaro Gómez CURING PROCESS AND ADHESIVE PROPERTIES OF SUSTAINABLE HYBRID NON-ISOCYANATES POLYURETHANES
18:10 - 18:30	OC-31 John Torkelson REPROCESSABLE POLYMER NETWORKS EXHIBITING FULL CROSSLINK DENSITY AFTER RECYCLING: THREE ALTERNATIVES TO CONVENTIONAL THERMOSETS BASED ON DYNAMIC COVALENT BONDS
18:30 - 18:50	OC-32 Baptiste Clement SYNTHESIS OF THERMOSET NETWORKS VIA THE AZA-MICHAEL ADDITION
19:00 - 21:00	Free Time
21:00 - 00:00	Gala Dinner in "Casa Miret" Palace

Friday, October, 18th - Morning

Session 8	
Chairman: Jean-François Gérard	
Topic: 6	
09:00 - 09:30	IL-06 Christopher N. Bowman SMART, RESPONSIVE POLYMERS BASED ON COVALENT ADAPTABLE NETWORKS: PHOTOSWITCHABLE STATES OF MATTER
09:30 - 09:50	OC-33 Haruyuki Okamura ANALYSIS OF NETWORK STRUCTURES IN THIOL-ENE UV CURING SYSTEM USING REWORKABLE RESINS
09:50 - 10:10	OC-34 Marco Sangermano UV-ACTIVATED FRONTAL POLYMERIZATION OF EPOXY COMPOSITES
10:10 - 10:30	OC-35 Agathe Bouvet-Marchand A PLATFORM OF BIO-RENEWABLE MONOMERS FOR CATIONIC PHOTO-POLYMERIZATION
10:30 - 10:50	OC-36 Zhiquan Li NEAR INFRARED LIGHT-INDUCED PHOTOPOLYMERIZATION OF THICK MATERIALS BASED ON UPCONVERSION PHOTOCHEMISTRY
11:00 - 11:30	Coffee Break / Poster Discussion
Session 9	
Chairman: Christopher Bowman	
Topic: 4 and 6	
11:30 - 12:00	IL-07 Jean-François Gérard POLYMER NETWORKS AT FIBER/MATRIX INTERFACES-INTERPHASES IN FIBER-BASED COMPOSITE MATERIALS: FROM MOLECULAR SCALE TO MICROMECHANICS
12:00 - 12:20	OC-37 José Luis Vilas Vilela INFLUENCE OF THE ALCOHOL-TERMINATED ACRYLATES ON THE MECHANICAL PROPERTIES OF A NEW SERIES OF UV CURABLE POLYURETHANE ACRYLATED RESINS
12:20 - 12:40	OC-38 Sasan Moradi THE EFFECT OF CURE CONDITIONS ON THE THERMAL CONDUCTIVITY AND CURE KINETICS OF EPOXY-BORON NITRIDE COMPOSITES
12:40 - 13:00	OC-39 Alberto Jiménez-Suárez MULTIFUNCTIONAL EPOXY/PCL BLENDS WITH SELF-SENSING AND SELF-HEALING CAPABILITIES
13:00 - 13:20	OC-40 Humaira Masood Siddiqi HIGH PERFORMANCE EPOXY-GO COMPOSITES WITH IMPROVED THERMAL AND MECHANICAL PROPERTIES
13:30 - 14:00	Closure Ceremony
14:00 - 15:30	Lunch



Poster
Session

16th - 18th October

P-01	BENZOXAZINES: LOWERING OF POLYMERIZATION TEMPERATURES. LIGHT AND CATALYSTS INFLUENCE	Kevin	Reyes
P-02	BIOBASED THIOL-EPOXY POLYMERS OF LINSEED OIL	Sigita	Kasetaite
P-03	HIGH-PERFORMANCE BIO-BASED BENZOXAZINES FROM ENZYMATIC SYNTHESIS OF DIPHENOLS	Leila	Bonnaud
P-04	TAILOR-MADE INNOVATIVE THERMOSET RESINS TO ADDRESS CURRENT SCIENTIFIC AND INDUSTRIAL CHALLENGES	Agathe	Bouvet-Marchand
P-05	FTIR SPECTROSCOPY AS SUITABLE METHOD FOR MONITORING THE CROSS-LINKING REACTION OF MELAMINE-FORMALDEHYDE RESINS	Stephanie	Weiss
P-06	INCORPORATION OF FLAME RETARDANTS IN BENZOXAZINE MONOMER BY THE USE OF RENEWABLE PHENOLIC DERIVATIVES	Thorben	Haubold
P-07	COMBINING BENZOXAZINE AND SULFUR CHEMISTRIES FOR ADVANCED MATERIALS	Ozan	Bayram
P-08	ELECTROACTIVE HETEROCYCLIC BASED MULTIPURPOSE POLYIMIDES	Humaira Masood	Siddiqi
P-09	LIGHT CURING REACTIONS ANALYZED BY TEMPERATURE MODULATED DSC	Francesc	Català
P-10	RENEWABLE EPOXY THERMOSETS DERIVED FROM PHLOROGLUCINOL PREPARED BY THIOL-CLICK REACTION	Dailyn	Guzmán
P-11	NEW EPOXY THERMOSETS DERIVED FROM CLOVE OIL PREPARED BY EPOXY-AMINE CURING	David	Santiago
P-12	RARE-EARTH TRIFLATES AS LEWIS ACID CATALYST IN THE PREPARATION OF POLY(THIOURETHANE) THERMOSETS	Federico	Guerrero
P-13	VISCOELASTICITY PROPERTIES OF VEGETABLE OIL BASED ACRYLATE POLYMERS WITH DIFFERENT CROSSLINKING DEGREES	Anda	Barkane
P-14	UV-LIGHT CURING OF BIO-BASED POLYMERS AND BIOCOMPOSITES FOR ADDITIVE MANUFACTURING APPLICATIONS	Sergejs	Gaidukovs
P-16	TOWARDS NOVEL ELECTROINDUCED HEALING OF POLYBENZOXAZINES	Carolina	Gascó
P-17	SHAPE MEMORY MATERIALS FROM PCL/EPOXY BLENDS	Alvaro	Iregui
P-18	THERMAL CONDUCTIVITY OF EPOXY-THIOL COMPOSITE FILLED OF BORON NITRIDE WITH DIFFERENTE SIZE, SHAPE AND HYBRIDS	Frida	Román
P-19	THE EFFECT OF PARTICLE SHAPE ON THE THERMAL CONDUCTIVITY OF EPOXY-BORON NITRIDE COMPOSITES	Sasan	Moradi
P-20	THE EFFECT OF PRESSURE DURING CURE ON THE THERMAL CONDUCTIVITY OF COMPOSITES OF EPOXY AND BORON NITRIDE	Frida	Román
P-21	CURING FEATURES AND PERFORMANCE OF BISPHENOL A BASED EPOXY RESINS MODIFIED WITH EPOXYPHOSPHAZENES	Igor	Sirotin
P-22	NEW THERMALLY CONDUCTIVE EPOXY THERMOSETS WITH EXPANDED GRAPHITE AND VARIOUS CERAMIC FILLERS	Isaac	Isarn
P-23	INFLUENCE OF CERAMIC NANO REINFORCEMENTS IN THE HYGROTHERMIC AGING OF EPOXY RESIN	Isaac	Lorero
P-24	EFFECT OF THE ISOCYANATE STRUCTURE ON THE VITRIMERIC BEHAVIOUR OF POLY(THIOURETHANE) NETWORKS	Francesco	Gamardella
P-25	IONIC LIQUIDS AS DISPERSING AND CURING AGENTS IN EPOXY/NANOFILLER AND EPOXY/PCL/NANOFILLER SYSTEMS	Lidia	Orduña Velasco
P-26	SEQUENTIAL DUAL-CURING BY COMBINATION OF ISOCYANATE-EPOXY AND THIOL CLICK REACTIONS	Valentina	Sabatini
P-27	DUAL-CURABLE STEREO LITHOGRAPHY RESINS FOR SUPERIOR THERMOMECHANICAL PROPERTIES	Xavier	Ramis
P-28	TIME-TEMPERATURE-TRANSFORMATION DIAGRAM OF DUAL-CURABLE EPOXY THERMOSETS OBTAINED VIA TWO SEQUENTIAL EPOXY-AMINE CONDENSATIONS	Xavier	Ramis

P-29	THIOL-ACRYLATE-EPOXY DUAL CURING THERMOSETS WITH ENHANCED THERMOMECHANICAL PROPERTIES FOR MECHANICAL ACTUATORS	Russo	Claudio
P-30	PHOTOINITIATOR FREE RESINS COMPOSED OF PLANT-DERIVED MONOMERS FOR OPTICAL μ -3D PRINTING OF THERMOSETS	Migle	Lebedevaite
P-31	VANILLIN-BASED PHOTOCROSS-LINKED POLYMERS FOR OPTICAL 3D PRINTING	Auksė	Navaruckienė
P-32	PHOTOCROSS-LINKED POLYMERS OF EPOXIDIZED VANILLIN	Jolita	Ostrauskaite
P-33	MANUFACTURING OF MECHANICAL SUPPORTING FOAMED SHEETS BY PROCESSING FREE FLOWING PHENOLIC MOLDING COMPOUNDS VIA FOAM EXTRUSION	Daniel	Methe
P-34	FOAM INJECTION MOLDING OF PHENOLIC RESINS	Martin	Bayer
P-35	BLOCKED-ISOCYANATE POLYURETHANE DISPERSIONS FOR TEXTILE APPLICATIONS	Maite	Guillem Parra
P-36	ADVANCED PHTHALONITRILE RESIN SYSTEMS FOR VACUUM PROCESSING	Boris	Bulgakov
P-37	PREPARATION AND CHARACTERIZATION OF UV-CURABLE ACRYLIC MEMBRANES EMBEDDING ANTIOXIDANTS	Bartek	Tylkowski

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