



Thermosetting Resins 2018 - International conference, 25 - 27 September 2018, Berlin, Germany

Confirmed Lectures & Posters (in alphabetical order)

Confirmed Plenary Lectures

David Hatrick (Vice President Innovation at Huntsman Advanced Materials, University of Strathclyde, Spring, USA): *Trends in high performance thermosetting resins*

Torsten Gottschalk-Gaudig (Wacker Chemie AG, Burghausen, Germany): *Silicone Resins – an emerging class of binders for fiber reinforced composites?*

Filip Du Prez (Group Leader Polymer Chemistry Research Group, Department of Organic and Macromolecular Chemistry, Ghent University, Ghent, Belgium): *Vitrimers: Recyclable thermosets of the future?*

David Tilbrook (Hexcel Composites Limited, Duxford, Cambridge, United Kingdom): *Future challenges for aerospace fibre reinforced composites*

Tim Welter & Sascha Pöller (Henkel AG & Co. KGaA, Duesseldorf, Germany): *Developing and modeling thermosetting adhesives for composite and multi-material joints*

H. Henning Winter (Director Laboratory for Experimental Rheology University of Massachusetts Amherst, Amherst, USA): *The solidification rheology of amorphous polymers – Vitrification as compared to gelation*

Confirmed Invited Lectures

Miroslava Dušková-Smrčková (Professor, Institute of Macromolecular Chemistry, Czech Academy of Sciences, Prague, Czech Republic): *Ab initio design of binders architecture and optimization of curing conditions for cross-linked polyurethane/polyurea coatings*

Eike Langkabel (Manager Technical Marketing VESTAMIN, Evonik Resource Efficiency GmbH, Marl, Germany): *Uretidione – a versatile building block for outstanding new prepreg systems*

Rolf Mülhaupt (Professor and Director Institute for Macromolecular Chemistry and Executive Director of the Freiburg Materials Research Center FMF, University of Freiburg, Freiburg, Germany): *Isocyanate-free routes to multifunctional bio-based polyhydroxyurethane thermosets and composites*

Dennis Smith (Professor of Chemistry and Director, Advanced Composites Institute, Department of Chemistry, Mississippi State University, Mississippi, USA): *Advanced polymer networks from fluoroalkenes and enediynes*



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Ambrose Taylor (Reader in Materials Engineering, Faculty of Engineering, Department of Mechanical Engineering, Imperial College London, London, United Kingdom): *Toughening epoxies using nanoparticles*

Confirmed Lectures

Dirk Achten (Covestro Deutschland AG, Leverkusen, Germany): *New Isocyanate based thermoset composite matrix materials with extreme UV, chemical and weathering resistance*

Laurence Bailly (LGP - ENIT, L'école nationale d'ingénieurs de Tarbes, Equipe Interfaces et Matériaux Fonctionnels, Tarbes, France): *Study of the difference of behaviour between two cyanate ester resins at their initial state and after thermal aging*

Leïla Bonnaud (Materia Nova, Mons, Belgium): *Polybenzoxazine technology for lightweight and high-performance composites*

Josef Brandt (Leibniz-Institute for Polymers Dresden, Dresden, Germany): *Temperature dependent size exclusion chromatography for the in situ investigation of thermoreversibly bonding polymers*

Boris Bulgakov (Institute of New Carbon Carbon Materials and Technologies (INUMIT), Moscow, Russia): *Advanced phtalonitrile resins for out-of-autoclave composite manufacturing*

Angeliki Chanteli (University of Limerick, Irish Composites Centre (IComp), Limerick, Ireland): *3D woven and non-crimp thermoplastic composites with functional surface properties*

Jocelyn Clénet (Saint-Gobain, Aubervilliers, France): *Original route for tuning biobased polyesters structure as thermoset precursors*

Maarten Delahaye (Ghent University, Department of Organic and Macromolecular Chemistry, Ghent, Belgium): *Internally acid-catalysed covalent adaptable networks*

Jannick Duchet-Rumeau (University de Lyon – IMP, Villeurbanne, France): *Tailoring and multiscale characterization of functional interfaces in carbon fiber based composite materials*

Jean-Francois Gerard (University de Lyon, IMP UMR CNRS 5223, Villeurbanne, France): *High Tg thermoplastic-modified bismaleimide matrices and related composite materials - fracture mechanics*

Lerys Granado (ENSCM, ICGM, Université de Montpellier, Montpellier, France): *Substitution of formaldehyde in phenolic resins with innovative and bio-based vanillin derived compounds*



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Corinna Grosse (Berliner Nanotest and Design GmbH, Berlin, Germany): *A novel sensor platform for thermal property measurements of thermosetting resins using the three-omega method*

Michael Jaeger (Ashland Technologies GmbH, Kehl, Germany): *High temperature resins and their use in hot fluegas applications*

Katharina Koschek (Fraunhofer IFAM, Bremen, Germany): *Synthetic approaches to mouldable and recyclable thermosetting lightweight materials*

Nora Lardies (Aimplas, Valencia, Spain): *Development of an innovative manufacturing process for the in-LINE COating of pultruded composites (COALINE project)*

Reinhard Lorenz (University of Applied Sciences Muenster, Department of Chemical Engineering, Steinfurt, Germany): *A new class of fast curing high performance UP-resins yielding thermosets with significantly improved thermal properties*

Songqi Ma (Chinese Academy of Sciences, Ningbo Institute of Materials Technology and Engineering, Ningbo, China): *High performance recyclable thermosets from lignin derivative vanillin*

Eleonore Mathis (CNRS and Solvay, St. Fons, France): *High performance thermoset composites modified with thermoplastics. Controlling the morphology, impact on mechanical properties*

Jarlath McHugh (BMW Group, Landshut, Germany): *Characterization of release agents used in resin transfer moulding (RTM) and liquid compression moulding (LCM) processes*

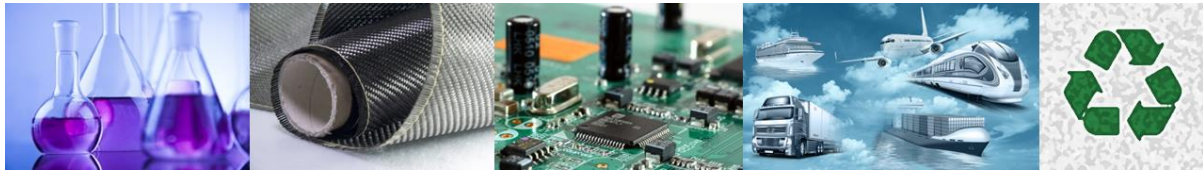
Suzanne Morsch (University of Manchester, School of Materials, Manchester, UK): *AFM-IR insights into epoxy resin nanostructures*

Uwe Mueller (Kompetenzzentrum Holz GmbH, Linz, Austria): *Inline cure monitoring in engineered wood with paper sensors - Inspiration for carbon prepregs*

Niamh Nash (University of Limerick, Irish Composites Centre (IComp), Limerick, Ireland): *Bio-based epoxy resin systems as potential drop-in replacements for petroleum-based epoxy matrices in marine fibre-reinforced polymer (FRP) composites*

Antonia Neels (Empa - Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland): *X-ray analytical methods to understand polymer functionality*

Frank Osterod (Cariant Plastics & Coatings, Deutschland GmbH, Hürth, Germany): *Managing flame retardant performance in modern thermoset resin applications*



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Sebastien Pruvost (INSA Lyon, University of Lyon, IMP, Villeurbanne, France): *Epoxy-Boron nitride composites for high voltage application*

Roderick Ramsdale-Capper (The University of Sheffield, Materials Science and Engineering, Sheffield, UK): *Influence of phenyl ring substitution position on amine cured EP resin properties*

Björn Thorge Riecken (Hamburg University of Technology, Institute of Polymers and Composites, Hamburg, Germany): *Influence of the polymer network structure on the thermal stability, the thermal and mechanical properties of epoxy*

Bethany Russell (University of Bristol, Bristol Composites Institute (ACCIS), Bristol, UK): *The processing of a novel polymer matrix for use in composite wind turbine blades*

Shamil Saiev (University of Mons, Mons, Belgium): *Modeling polymer nanocomposites of bio-sourced thermoset resins and carbon nanotubes*

René Saint-Loup (Roquette, Lestrem, France): *Isosorbide as a building block for thermosetting resins*

Jean-Pierre Schneider (Schill + Seilacher "Struktol" GmbH, Hamburg, Germany): *Amphiphilic block copolymers based on chain-extended polyester – Role of compatibility and reactive groups*

Agnieszka Tercjak (University of the Basque Country, San Sebastian, Spain): *Nanostructured thermosetting systems with thermo and electro-responsive*

Christoph Uhlig (Fraunhofer Institute for Applied Polymer Research IAP, Research Division Polymeric Materials and Composites PYCO, Teltow, Germany): *The relationship between thermoset resin compressive yielding behavior and toughness in addition curing resins*

Alexandre Vermogen (Arkema France, Pierre Benite, France): *Latest innovation in core/shell toughening agents for thermosets and composites*

Brigitte Voit (Leibniz Institute of Polymer Research Dresden (IPF), Dresden, Germany): *Hyperbranched polymers as important components in coatings and resins*

Annika Wagner (Profactor GmbH, Steyr-Gleink, Austria): *Development of novel high-temperature polyimide-like inks for PolyJet 3D printing – Curing kinetics and properties of printed material*



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Confirmed Poster Presentations

Vladislav Aleshkevich (Institute of New Carbon Carbon Materials and Technologies (INUMIT), Moscow, Russia): *C/C composites developed from phthalonitrile based composites*

Vivien André (University of Lyon, IMP INSA Lyon, Villeurbanne, France): *Core-shell particles with improved dispersibility into epoxy networks*

Maarten Delahaye (Ghent University, Department of Organic and Macromolecular Chemistry, Ghent, Belgium): *Internally carboxylic acid-catalysed CANS*

Christian Dreyer (Fraunhofer Institute for Applied Polymer Research IAP, Research Division Polymeric Materials and Composites PYCO, Teltow, Germany): *UV-LED curable thermosetting resins and composites thereof - Applications from micrometer to meter scale*

Andrea Glawe (KROENERT GmbH & Co. KG, Hamburg, Germany): *Requirements and performance of high functional coating technologies for the production of prepregs*

Marco Grahneis (University of Applied Sciences Muenster, Department of Chemical Engineering, Steinfurt, Germany): *New unsaturated polyesteramides for thermosets with high heat resistance*

Lutz Hartmann (Fraunhofer Institute for Applied Polymer Research IAP, Research Division Polymeric Materials and Composites PYCO, Teltow, Germany): *Microwave-assisted Curing of Reactive Resins - Simulation and Experiment*

Jeremy Horion (UCL, Lovain-la-Neuve, Belgium): *Using zinc oxide nanoparticles to improve the thermal stability of high performance benzoxazine resins*

Valentina Iodice (ITT Motion Technologies, Barge, Italy): *A Thermo-Mechanical and Rheological Approach for Phenolic Resins characterization in automotive friction materials*

Helene Jeske (Thünen Institute of Agricultural Technology, Braunschweig, Germany): *Biobased epoxides as binders for coating electrodes in lithium-ion-batteries*

Tolga Kapti (Polisan Kimya, Kocaeli, Turkey): *Use of condensate generated during kiln-drying step of wood as a natural formaldehyde scavenger for urea- and melamine-formaldehyde resins*

Thoralf Krahl (Humboldt-University of Berlin, Institute of Chemistry, Berlin, Germany): *Modified magnesium fluoride nanoparticles for transparent composites with low refractive index*



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Oleg Morozov (Institute of New Carbon Carbon Materials and Technologies (INUMIT), Moscow, Russia): *Dual-Curing phthalonitril-propargyl ether resins for CFRP*

Thomas Richter (University of Applied Sciences Muenster, Department of Chemical Engineering, Steinfurt, Germany): *Dual curing hybrid resin*

Harald Stecher (Siemens Gamesa Renewable Energy A/S, Aalborg, Denmark): *How to qualify a resin for Siemens Gamesa Renewable Energy Integral Blade*

Emma Wood (The University of Sheffield, Department of Physics and Astronomy, Sheffield, UK): *Predicting phase separation in polymer blends that contain branched molecules*

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