

New functions & sustainability

The European Technical Coatings Congress' programme at a glance

The European Technical Coatings Congress (ETCC) will take place from 3 – 5 September 2014 at the Gürzenich in Cologne, Germany. The congress is co-organised by the Division of Paint Chemistry of the GDCh (German Chemical Society) and the VILF (Association of Coating Engineers). The patronage of the ETCC is done by FATIPEC (Federation of Associations of Technicians for Industry of Paints in European Countries). On the following pages you will find the complete conference programme including all 86 presentations from international speakers.

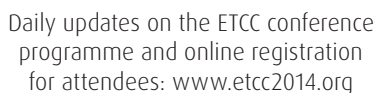
Wednesday, 3 September

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| <p>9:00 Congress opening
Michael Hilt und Jozef Koziel</p> <p>9:30 Smart and functional materials
Jamil Baghdachi, Eastern Michigan University</p> <p>10:10 Strategies for a more sustainable coatings industry
Keith Watson, Dow Chemical</p> <p>10:50 Coffee break</p> <p>Conference room: Großer Saal
Functional coatings</p> <p>11:20 Ordered liquids from molecular mess: Self assembly of novel bola-amphiphiles
Horst Hintze-Bruening, BASF Coatings</p> <p>11:50 Ionic liquids as conductivity promoters in coatings applications
Andreas Eichfelder, BASF SE</p> <p>12:20 Ionic liquids as innovative materials for the stabilization of multifunctional nanofluids
Thomas Schubert, Ionic Liquids Technologies</p> <p>12:50 Lunch break</p> <p>13:50 Nanofibrillated cellulose in wood coatings – a feasibility study
Tina Künninger, Empa</p> <p>14:20 The use of functionalized nanoparticles for surface properties enhancement of coatings for wind energy and aerospace
Geraldine Durand, TWI Ltd</p> <p>14:50 <i>Coffee break</i></p> | <p>15:20 Controlled synthesis and application of silver nanoparticles in coatings for inhibition of microbial growth and biofouling formation
Tamás Szabo, Hungarian Academy of Sciences</p> <p>15:50 Towards more reliable sol-gel-coatings by combined extrinsic and intrinsic healing
Mina Abdollah Zadeh, Delft University of Technology</p> <p>16:20 Scratch resistant and outdoor weatherable coatings – applied nanotechnology and functional properties
Christoph Hilgers, Momentive</p> <p>17:00 General Meeting VILF</p> <p>Conference room: Kleiner Saal
Corrosion protection</p> <p>11:20 In-situ analytical and electrochemical evaluation of interfacial bonding and performance of corrosion protective coatings
Arjan Mol, Delft University of Technology</p> <p>11:50 New Substrates influencing the pretreatment process
Peter Kuhm, Henkel</p> <p>12:20 What happens during the swelling of a coating?
Michael Dornbusch, Niederrhein University of Applied Sciences</p> <p>12:50 <i>Mittagspause</i></p> | <p>13:50 New aspects in corrosion protection with polymer dispersions
Ulrich Christ, Fraunhofer IPA</p> <p>14:20 New 2-layer epoxy coating system achieving excellent corrosion protection and UV-stability
Martin Gerlitz, Huntsman</p> <p>14:50 <i>Coffee break</i></p> <p>15:20 Effective sol-gel derived protective coatings prevent the corrosion of steel in marine environment
S. Pfeifer, Freiberg</p> <p>15:50 A wishing well – DTM coatings with anticorrosive pigments
Lars Kirmaier, Heubach</p> <p>16:20 Electrochemical stability of the metal/paint interface: A combined impedance spectroscopy and scanning Kelvin probe study
Patrick Keil, BASF Coatings</p> <p>17:00 General Meeting Fachgruppe Lackchemie</p> <p>Conference room: Isabellensaal
Sustainability/Biobased coatings</p> <p>11:20 Feedstock in transition – a manufacturer's view on petrochemical trends and the downstream impact to the coatings market
Klaus Kohlhammer, Wacker Chemie AG</p> |
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Conference room: Großer Saal
functional coatings

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| 14:30 | Photochemical attachment of water-absorbing hydrogel coatings topolystyrene to avoid turbidity in cold environments
Svenja Grube,
Zurich University
of Applied Sciences |
| 15:00 | Development and characterisation of functional coatings with dedicated thermo-optical properties for solar energy-related applications
Tim Aerts,
Coatings Research Institute |
| 15:30 | <i>Coffee break</i> |
| Polymers, pigments and other raw materials | |
| 16:00 | Sustainable developments in the pigment industry
Christof Kujat, BASF SE |
| 16:30 | Impact of new EU-regulation on the usage of biocides
Helmut Peters,
Lonza Cologne GmbH |
| 17:00 | Application of ionic liquids in synthesis of polymeric binders for coatings
Veronika Strehmel,
Niederrhein University of
Applied Sciences |
| 17:30 | Morphological and electrical properties of multiwall carbon nanotube filled conductive polymer composites
Ildikó Jurácsik-Kék, Budapest |

8:30 Surface modification of mesoporous silica for improvement of compatibility with anti-corrosion coatings
Jorge Caneiro, University of Aveiro



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Advances in coatings and inks sciences/ Crosslinking and hardening

- 9:00** Carbon fibre reinforced plastics – a challenge for surface treatment and painting
Volkmar Stenzel, Fraunhofer IFAM
- 9:30** Some surface phenomena at formation of coatings
Eugene Indeikin,
Yaroslavl State Technical University
- 10:00** Innovative technologies and techniques for enhancing the application of architectural coatings
Tara Conley,
Dow Chemical
- 10:30 Coffee break*
- 11:00** Silicone ceramizable rubbers: New solution for the emerging coatings
Maria Zielecka,
Industrial Chemistry Research Institute
- 11:30** Sustainable UV-protection of coating layers using nanoscale organic and inorganic components
Heinz Werner Greisiger,
Fraunhofer IPA
- 12:00** Automotive application processes: A focus on molecular migration
Audrée Andersen, BASF Coatings
- 12:30 Lunch break and poster session*
- 14:00** Advanced rheology for water-borne paints, the key to good flow and application properties
Jaap Akkerman, Nuplex Resins
- 14:30** Influence of matting on the properties of powder epoxy-polyester coatings
Daria Kotova,
Yaroslavl State Technical University
- 15:00** Hyper-branched structures for new functional additives
Petra Lenz, Byk-Chemie

15:30 Coffee break

- 16:00** Photoinitiated Cationic Polymerization: Current developments and future prospects for coatings
James V. Crivello,
Rensselaer Polytechnic Institute
- 16:30** Efficiency of NIR curable coating systems via radical photopolymerization
Christian Schmitz,
Niederrhein University of Applied Sciences
- 17:00** Tuning the mechanical performance of polyurethane UV cured coatings: Modifying the composition of reactive diluents
Irina Zvonkina,
Yaroslavl
- 17:30** Improving the efficiency of photocatalysts
Heinz-Christian Krempels,
Kronos International

Conference room: Isabellensaal Progress in production, application and processes

- 8:30** Extensional rheology as related to paint atomization
Michael Koerner,
Axalta Coating Systems
- 9:00** Process optimization and-simulation in the coatings industry
Martin Bruecker, Phase 17
- 9:30** Selective and overspray free painting technology
Oliver Tiedje, Fraunhofer IPA
- 10:00** Air entrapment in droplets impacting the surface
Qiaoyan Ye, Fraunhofer IPA
- 10:30 Coffee break*
- 11:00** Improving efficiency and quality by high throughput technologies in development of coatings
Thomas Brinz, Robert Bosch GmbH

Measuring and testing/ New optical properties in coatings

- 11:30** Towards a durable, water-based coating for wood-based composites
Cornelia Bellmann,
Leibniz-Institut für Polymerforschung Dresden e.V.
- 12:00** Early recognition of weathering defects: Evaluation of two newly elaborated methods for detecting coating degradation
Matthias Wanner, Fraunhofer IPA
- 12:30 Lunch break and poster session*
- 14:00** Film formation and subsequent environmental degradation of crosslinking polymers: Exploration using computer simulations
Stuart Croll,
North Dakota State University
- 14:30** A multi-method approach for the prediction of weather-related ageing of wood coatings
Lars Passauer,
Institute for Wood Technology Dresden gGmbH
- 15:00** Measuring an optimization of the efficiency of titanium dioxide in paint
Johan Rommens,
DuPont
- 15:30 Coffee break*
- 16:00** Simulation of temperatures on surfaces exposed to solar radiation
Artur Schönlein, Atlas MTT GmbH
- 16:30** Water in coatings
Henk Hunink,
Eindhoven University of Technology
- 17:00** Seeing clearly through the mist
Bernd Neumann, iLF e.V.
- 17:30** Effects of different nano-sized TiO₂ additives on their UV protective performance in transparent polymer coatings
Eszter Drotare,
Hungarian Academy of Sciences
- 19:00 Social Evening
„River Dream Party“*



Friday, 5 September

Conference room: Großer Saal Polymers, pigments and other raw materials

- 8:30** Hyperbranched polyesterols in coating applications
Harald Schäfer, BASF SE
- 9:00** Rational design of new pigment dispersants by understanding polymer-pigment interactions
Matthias Maier, BASF SE
- 9:30** Outstanding advantages of ultra-low viscosity hydrophobic poly-isocyanate: Duranate™ TUL-100
M. Yamauchi, Kawasaki
- 10:00** *Coffee break*
- 10:30** UV-crosslinkable polymer coatings
Zbigniew Czech, West Pomeranian University of Technology
- 11:00** Chrome-like appearance and optical properties of polymer layers incl. vacuum metallized pigments, VMPs
Frank J. Maile, Schlenk Metallic Pigments GmbH
- 11:30** Thermal resistance of silicone-based coating systems
David Pierre, Dow Corning Europe

Conference room: Kleiner Saal Advances in coatings and inks sciences/ Crosslinking and hardening

- 8:30** Iodonium salts comprising different cations and anions: Effect of solubility in coatings, reactivity in NIR-photopolymers and toxicological aspects
Thomas Brömme, Niederrhein University of Applied Sciences
- 9:00** New catalyst developments and their significance for polyurethane coatings
Michael Grahl, Bayer MaterialScience
- 9:30** Cross-linking systems using cyclic-carbonate for coatings application
Camara Fatoumata, Ecole nationale supérieure de Chimie de Montpellier
- 10:00** *Coffee break*
- 10:30** Antistatic coatings for wood-floorings by imidazolium salt-based ionic liquids
Albert Rössler, Adler-Werk Lack fabrik
Johann Berghofer
- 11:00** Bringing polyaspartic technology to the next level: Low viscous solvent-free floor coatings
Matthias Wintermantel, Bayer MaterialScience
- 11:30** Sustainable solutions for coatings and the role of renewable raw materials
Gesa Behnken, Bayer MaterialScience

Konferenzraum: Isabellensaal Measuring and testing/ New optical properties in coatings

- 8:30** The effect of coating thickness on pendulum hardness
Martin Bosma, Nuplex
- 9:00** Limit values for VOC emissions from decorative products around the globe
Reinhard C. Oppl, Eurofins Product Testing A/S
- Polymers, pigments and other raw materials**
- 9:30** Novel high efficient NISAT thickeners
Carlos Feito Fraile, Elementis Specialties
- 10:00** *Coffee break*
- 10:30** „Socal“ UP: an innovative high performance precipitated calcium carbonate to reduce TiO₂ content in emulsion paints
Olivia Persyn, Solvay
- 11:00** Next generation silicone antifoams: structure property relationships in low VOC binder systems
Juan Carlos Corcuera, Dow Corning Europe
- 11:30** Live after pyrrolidones – achieving hard coatings without increasing VOCs
Craig Evans, Incorez
- 12:00** *Break*
- 12:15** Awards and goodbye
- 13:00** End of conference

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