EUROPEAN COATINGS SHOW 2023
conference

Europe’s leading Conference on Coatings, Adhesives, Sealants, Construction Chemicals

REGISTER NOW:
www.european-coatings-show.com/conference

BETTER TOGETHER
Finally in person again in Nuremberg, Germany | 27 – 28 MARCH 2023
After a special edition of the European Coatings Show Conference 2021 being held virtually, the coatings industry meeting point is back face-to-face in Nuremberg on 27-28 March 2023. The ECS Conference plus Adhesives, Sealants, Construction Chemicals is the leading scientific conference for the international coatings and paint industry every two years. As in the long history of this conference, the programme embraces all new technical developments in formulating, testing and applying coatings. International experts will present the latest innovations and disseminate new technologies and ideas. The programme provides 24 sessions and 5 pre-conference tutorials including all important coating related topics starting from hot topics just as sustainability to important acquaintances like polyurethanes or wood coatings, reaching up to topics of today with digitalisation and DoE, HTS and modelling. The parallel sessions are giving the choice of attending the presentations of the highest interest. On stage, the reputable coating industry meets research institutes and academia, no trend will be left out. The ECS Conference is the perfect place for networking. Meet the big names, the relevant players of today’s and tomorrow’s coatings world.

**KEY REASONS TO ATTEND**

> **DISCOVER:** Find out about the latest research results from academia and industry. Be among the first to know!

> **LEARN:** Learn from the brightest and best in coatings technology as they present their ideas and insights.

> **SHARE:** Exchange views in numerous networking opportunities on what moves or hinders you in your daily business.

> **EXPAND YOUR HORIZONS:** Attend the ECS Conference and embrace a world of new ideas and new technologies.

**LOCATION:**  
Nuremberg Exhibition and Convention Centre NCC Ost, Messezentrum, 90471 Nuremberg, Germany

**DATES:**  
Sunday, 26 March 2023  
Pre-conference tutorials & welcome get-together  
Monday, 27 – Tuesday, 28 March 2023  
ECS Conference

Please note that the pre-conference tutorials on Sunday and the main conference are two individual events. Pre-registration is required.
**SUNDAY 26 MARCH 2023**

13.00 h  
REGISTRATION COUNTER OPENS

**PRE-CONFERENCE TUTORIALS 15.00 – 18.30 h**

**TUTORIAL 1 > ROOM Oslo**  
Functional coatings  
*Dr Volkmar Stenzel, Fraunhofer IFAM*

**TUTORIAL 2 > ROOM Riga**  
Formulating adhesives and sealants  
*Dr Matthias Popp, Fraunhofer IFAM*

**TUTORIAL 3 > ROOM Stockholm**  
Understanding biocides and the latest regulations  
*Dr Annette Bitsch, Fraunhofer ITEM*

**TUTORIAL 4 > ROOM Budapest**  
Polyurethane coatings  
*Dr Ulrich Freudenberg, Consultant*

**TUTORIAL 5 > ROOM Prag**  
Dispersing pigments and fillers – theory to practice  
*Frank Kleinsteinberg, Evonik*

19.00 h  
NETWORKING  
Welcome get-together in the city centre

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**MONDAY 27 MARCH 2023**

7.00 h  
REGISTRATION COUNTER OPENS

**8.30 – 9.45 h**  
**WELCOME ADDRESS, CONFERENCE INTRODUCTION, EUROPEAN COATINGS AWARD, DELEGATES’ SURVEY, KEYNOTE PRESENTATION**  
> HALL Tokio

**PARALLEL SESSIONS 1 – 6 10.00 – 13.30 h**

- S1 PROJECT DECOAT > ROOM Seoul
- S2 FUNCTIONAL COATINGS > ROOM Shanghai
- S3 RADIATION CURING > ROOM Kopenhagen
- S4 WATER-BORNE COATINGS I > ROOM St. Petersburg
- S5 AUTOMOTIVE COATINGS > ROOM Istanbul
- S6 NOVEL MATERIALS I > ROOM Kiew

13.30 – 14.30 h  
NETWORKING > HALL Sydney  
Lunch break & refreshments

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**TUESDAY 28 MARCH 2023**

8.00 h  
REGISTRATION COUNTER OPENS

**PARALLEL SESSIONS 13 – 18 9.00 – 12.30 h**

- S13 ADHESIVES & SEALANTS > ROOM Seoul
- S14 CONSTRUCTION CHEMICALS I > ROOM Kopenhagen
- S15 POLYURETHANES I > ROOM St. Petersburg
- S16 PROTECTIVE COATINGS I > ROOM Istanbul
- S17 TESTING & MEASURING I > ROOM Kiew
- S18 ARCHITECTURAL COATINGS > ROOM Shanghai

12.30 – 13.30 h  
NETWORKING > HALL Sydney  
Lunch break & refreshments

**PARALLEL SESSIONS 19 – 24 13.30 – 17.00 h**

- S19 BIO-BASED COATINGS > ROOM St. Petersburg
- S20 CONSTRUCTION CHEMICALS II > ROOM Kopenhagen
- S21 POLYURETHANES II > ROOM Shanghai
- S22 PROTECTIVE COATINGS II > ROOM Kiew
- S23 TESTING & MEASURING II > ROOM Seoul
- S24 DIGITALISATION > ROOM Istanbul

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18.00 – 19.30 h  
NETWORKING: After work reception
**PRE-CONFERENCE TUTORIALS | SUNDAY 26 MARCH 2023 | 15.00 – 18.30 h**

**TUTORIAL 1 >ROOM Oslo**  
**Functional coatings**  
*Dr Volkmar Stenzel, Fraunhofer IFAM*

Anti-scratch, easy to clean and many other possible add-ons for coatings will be presented in this tutorial. The technological details of the different specialties of the best known chemistries will be explained, like the fundamentals of nanomaterials. An outlook of special performance enhancements of functionalities for the coatings industry is included.

**TUTORIAL 2 >ROOM Riga**  
**Formulating adhesives and sealants**  
*Dr Matthias Popp, Fraunhofer IFAM*

Bonding – it is part and parcel of everyday life. There is hardly another field as chemically and technically diverse as that of adhesives and sealants. This tutorial will familiarise you with the most important types, focusing on the composition and ingredients of the different kinds of adhesive with their chemical structures and functional groups, so that you will be able to clearly deduce the resulting properties. Using practical formulation tips, you will analyse guide recipes and patent examples and learn to calculate key recipe parameters step by step. At the end of the tutorial, you will be able to formulate confidently and competently!

**TUTORIAL 3 >ROOM Stockholm**  
**Understanding biocides and the latest regulations**  
*Dr Annette Bitsch, Fraunhofer ITEM*

Inadequate preservation of paints and surface coatings leads to visual contamination. In-can bacterial contamination can lead to undesired liquefaction, odors, gassing and discoloration. The use of biocides is indispensable to avoid this process. This tutorial covers all you need to know about the use of biocides. Additionally, you will learn about the current changes that have to be made to the Biocides Directive in Europe.

**TUTORIAL 4 >ROOM Budapest**  
**Polyurethane coatings**  
*Dr Ulrich Freudenberg, Consultant*

This tutorial investigates the coatings-relevant standard polyisocyanates and their characteristic properties, the characteristic features of polyol components in use for coatings applications and how these components influence the coatings performance. Which combinations are suitable for which applications? Why, and what are the specific characteristics in the binder chemistry of 1K and 2K solventborne PUR coatings, 1K and 2K waterborne PUR coating, UV curing PUR coatings, PUR powder coatings and dual cure systems?

**TUTORIAL 5 >ROOM Prag**  
**Dispersing pigments and fillers – theory to practice**  
*Frank Kleinsteinberg, Evonik*

There is no disputing that paint making hinges on the dispersing process, which is the most important and most complex aspect of the process. An optimal dispersion is essential for a high quality paint offering optimum gloss and high tinting strength. The success of dispersing depends on many factors. This tutorial offers an overview of all interrelated factors and shows how they can be manipulated to yield perfect results.

Please note that the pre-conference tutorials and the main conference are two individual events. Pre-registration is required.

**WELCOME GET-TOGETHER 19.00 h**

Join us for our Welcome get-together on Sunday, 26 March 2023. The reception will take place at the iconic restaurant „Bratwurst Röslein“, serving regional foods and drinks. Shuttle busses for all tutorial delegates will be available for pick-up at the exhibition ground and drop-off at the restaurant.
MONDAY 27 MARCH 2023 | SESSIONS 1 – 4

**SESSION 1**

**ROOM Seoul**

**PROJECT DECOAT**

Guy Buyle, Centexbel

10.00 – 10.30 h
1.1 Decoat – recycling of coated and painted textile and plastic
Guy Buyle, Centexbel

10.30 – 11.00 h
1.2 Debonding primer for easy separation and circularity of multimaterials
Maxime Olive, Rescoll

11.00 – 11.30 h
1.3 Mechanical recycling of plastic coated parts using debonding Vicent Martinez Sanz, Aimplas

12.00 – 12.30 h
1.4 Removal of coatings from textile substrates
Ine De Vilder, Centexbel

12.30 – 13.00 h
1.5 Decoat - eco-design tool
Brienne Wiersema, Ecomatters

**SESSION 2**

**ROOM Shanghai**

**FUNCTIONAL COATINGS**

Markus Hallack, Evonik

10.00 – 10.30 h
2.1 Elastomeric self-cleaning PUD based water proofing (cool roof) coatings
Dr Peter Greenwood, Nouryon

10.30 – 11.00 h
2.2 Development of transparent, multifunctional coating developments for hybrid ice protection systems
Nadine Rehfeld, Fraunhofer IFAM

11.00 – 11.30 h
2.3 Titanium dioxide based nanotechnology for smart and functional coatings
Arno Schut, Accentive

12.00 – 12.30 h
2.4 Functional coatings in a sustainable world
Andre van Linden, AkzoNobel

12.30 – 13.00 h
2.5 Drag reduction for ships by compliant coatings - dolphin skin
Dr Volkmar Stenzel, Fraunhofer IFAM

13.00 – 13.30 h
2.6 High-performance TiO2-free roof coatings via novel hollow plastic microspheres
Eduardo De Luna, Coadtech

**SESSION 3**

**ROOM Kopenhagen**

**RADIATION CURING**

David Engberg, Perstorp

10.00 – 10.30 h
3.1 Strategies for the design of sustainable photocatalysts for radiation curing
Prof. Bernd Strehmel, Niederrhein University of Applied Sciences

10.30 – 11.00 h
3.2 New surface additives for radiation-curable systems – challenges and breakthroughs
Dr Marc Eberhardt, Byk

11.00 – 11.30 h
3.3 Photocuring of aqueous and solvent free coating comprising nanoparticles with new photonic technique of polymerization
Quying Wang, Niederrhein University of Applied Sciences

12.00 – 12.30 h
3.4 New technology from the LIFE-WB BioPaint project yields water-borne biorenewable short oil alkyd resins for wood coatings
Dr Marcello Vitale, IVM Chemicals

12.30 – 13.00 h
3.5 Reactive bio-based pigment dispersant
Dr Willem van Gerresheim, Addapt Chemicals

13.00 – 13.30 h
3.6 More sustainable UV solutions with reduced hazard and reduced migration potential
Dr Richard Plenderleith, Arkema

**SESSION 4**

**ROOM St. Petersburg**

**WATER-BORNE COATINGS I**

Dr Dirk Mestach, Allnex

10.00 – 10.30 h
4.1 Evaluation of non-stick fluorinated coatings through performance tests
Jabir Ismaeii, Kanat Boya

10.30 – 11.00 h
4.2 Understanding and improving the water resistance of water-borne binders
Fatoumata Camara, Arkema

11.00 – 11.30 h
4.3 High efficiency acrylic polyol dispersions for 2K water-borne polyurethane systems for glossy industrial coatings
Dr Chintankumar Patel, BASF

12.00 – 12.30 h
4.4 Controlling the gloss of coatings without compromising performance
Dr Jurgen Scheerder, Covestro

12.30 – 13.00 h
4.5 Use of alkanolamine additives during the pigment grinding, and impact on performance of WB coatings systems
Dr Romain Severac, Angus Chemie

13.00 – 13.30 h
4.6 Novel bio-based additives exhibit novel synergies in water-based formulations
Harrison Gallantree-Smith, Borregaard

**NETWORKING OPPORTUNITIES**

The 13th European Coatings Show Conference offers you numerous and varied networking opportunities finally in person again to help you expand, cultivate and get the most of your personal ECS Conference network.
### Session 5 > Room Istanbul

**Automotive Coatings**

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/Company</th>
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<tbody>
<tr>
<td>10.00 – 10.30 h</td>
<td>5.1 All-in approach for color management in the automotive industry</td>
<td>Dr Carlos Vignolo, BASF Coatings</td>
</tr>
<tr>
<td>10.30 – 11.00 h</td>
<td>5.2 Temperature management in automotive industry</td>
<td>Marcelo Oliveira, Centi</td>
</tr>
<tr>
<td>11.00 – 11.30 h</td>
<td>5.3 Optimisation of coating layers with TeraHertz measurements</td>
<td>Dr Phil F. Taday, TeraView</td>
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<tr>
<td>12.00 – 12.30 h</td>
<td>5.4 Novel water-borne acrylic technology for sustainable basecoat formulations</td>
<td>Dr Wouter Kloosterman, Alinanex</td>
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<td>12.30 – 13.00 h</td>
<td>5.5 Surfaces with self-healing properties</td>
<td>Dr Juliana Oliveira, Centi</td>
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<tr>
<td>13.00 – 13.30 h</td>
<td>5.6 Advantages of high functional allophanate-based polyisocyanates in comparison to isocyanurate trimers</td>
<td>Dr Michael Ludewig, Covestro</td>
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### Session 6 > Room Kiew

**Novel Materials I**

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<th>Time</th>
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<tbody>
<tr>
<td>10.00 – 10.30 h</td>
<td>6.1 The influence of driers on crosslinking, kinetics, and the performance of alkyd coatings</td>
<td>Neil Simpson, Borchers</td>
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<tr>
<td>10.30 – 11.00 h</td>
<td>6.2 Antimicrobials: A key pillar for sustainable coatings</td>
<td>James Rapley, Microban International</td>
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<tr>
<td>11.00 – 11.30 h</td>
<td>6.3 Fully bio-based versatile binder for architectural coatings</td>
<td>Christophe Baude, Synthomer</td>
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<tr>
<td>12.00 – 12.30 h</td>
<td>6.4 Novel high activity drier, free from cobalt and VOC, that works efficiently without the addition of auxiliary driers</td>
<td>Hiroaki Nakano, DIC Corporation</td>
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<tr>
<td>12.30 – 13.00 h</td>
<td>6.5 Increasing IR reflectivity in TiO₂ pigments for cool coatings</td>
<td>Brett Hester, Chemours</td>
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<tr>
<td>13.00 – 13.30 h</td>
<td>6.6 A new iron-based, light-activated alkyd drier</td>
<td>Dr Jitte Flapper, AkzoNobel</td>
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### Session 7 > Room Seoul

**Doe, Hte and Modelling**

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<th>Time</th>
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<tr>
<td>14.30 – 15.00 h</td>
<td>7.1 Optimization of blocking performance of trim paint formulations using modeling and predictive tools</td>
<td>Partha Majumdar, Dow Chemical Company</td>
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<tr>
<td>15.00 – 15.30 h</td>
<td>7.2 A bio-based coalescent for improving latex film quality and paint performance</td>
<td>Alann Bragatto, Indorama</td>
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<tr>
<td>15.30 – 16.00 h</td>
<td>7.3 Ecological design of wood coatings by leveraging Life Cycle Assessment and the Pickering technology</td>
<td>Olivier Choulet, Ecoat</td>
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<tr>
<td>16.30 – 17.00 h</td>
<td>7.4 Modulating film-forming and open-time with additives. A quantitative approach for complexity reduction in wb systems</td>
<td>Jörg Rüger, Clariant</td>
</tr>
<tr>
<td>17.00 – 17.30 h</td>
<td>7.5 Novel formulation toolkits to enable biocide-free water-borne architectural coatings at traditional pH</td>
<td>Tara Conley, Dow Chemical Company</td>
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### Session 8 > Room Shanghai

**Wood Coatings**

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<tr>
<td>14.30 – 15.00 h</td>
<td>8.1 Post-Covid consumer insights in wood furniture</td>
<td>Erin West, Eastman</td>
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<td>15.00 – 15.30 h</td>
<td>8.2 Sustainable repair: A novel healable polyurethane wood coating</td>
<td>Dr Chandra Pandey, Lubrizol Advanced Materials</td>
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<tr>
<td>15.30 – 16.00 h</td>
<td>8.3 Si-Polyols as flame retardants for polyurethane clear coatings</td>
<td>Dr Andreas Fischer, Institut für Holztechnologie Dresden</td>
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<tr>
<td>16.30 – 17.00 h</td>
<td>8.4 Rheology and stability studies of colloidal MCC stabilised waterborne formulations</td>
<td>Dr Hui Yang, IFF</td>
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<tr>
<td>17.00 – 17.30 h</td>
<td>8.5 Reduced complexity in waterborne formulations: inherently matte acrylcs and cationic functionality without compatibility issues</td>
<td>Dr Fabian Gyger, Zschimmer &amp; Schwarz</td>
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Subject to change
SESSION 9 | ROOM Kopenhagen

PRINTING INKS
Susanne Struck, Evonik

14.30 – 15.00 h
9.1 Creating a path forward without PTFE in coatings and inks – regulatory compliance while maintaining performance
Dr Gehan Eltanany, Lubrizol

15.00 – 15.30 h
9.2 NIR Absorber – functional nano-additives for inks and coatings
Dr Dieter Guhl, Keeling & Walker

15.30 – 16.00 h
9.3 New biocompatible conductive ink for sensing bone regeneration
Dr Ana Maria Escobar, Leitat

16.30 – 17.00 h
9.4 Siloxane-based additives in radiation-curing systems – benefits and limitations
Dr Susanne Ruppel, Evonik Operations

SESSION 10 | ROOM St. Petersburg

WATER-BORNE COATINGS II
Dr Jörg Alfred Vogelsang, Sika

14.30 – 15.00 h
10.1 Versatile additives for water-borne coatings
Dr Charlotte Marie Herstad, Dyna

15.00 – 15.30 h
10.2 Novel RT curable silicone resin emulsions for high temperature coatings – toward improved durability and EHS profile
Michal Hrebicik, Dow Silicons Belgium

15.30 – 16.00 h
10.3 A step forward in reaching your sustainability company goals – Powder thickener
Carlos Feito Fraile, Elementis

16.30 – 17.00 h
10.4 Novel silicone-free star surfactants for wb DTM coatings with broad design space for optimized wetting/foam behavior
Dr Ralf Knischka, BASF

SESSION 11 | ROOM Istanbul

NOVEL MATERIALS II
Andre van Linden, AkzoNobel

14.30 – 15.00 h
11.1 Ultra-low temperature curing powder coating via real Michael addition
Dr Pengcheng (Simon) Yang, Allnex

15.00 – 15.30 h
11.2 Air permeable antimicrobial powder coating for filter materials
Andreas Schneider, European Centre for Dispersion Technologies

15.30 – 16.00 h
11.3 Bio-based additives for coil coatings
Dr Vladimir Levchenko, Dyna

16.30 – 17.00 h
11.4 Bio-organic silicone additives: Non-petroleum based alternative raw materials
Dr Robert Ruckle, Siltech

SESSION 12 | ROOM Kiew

NANOTeCHNOLOGY
Arno Schut, Axcentive

14.30 – 15.00 h
12.1 Beyond the performance of traditional corrosion protective pigments: A comparative study
Lynn Chirkosha, Applied Graphene Materials

15.00 – 15.30 h
12.2 Anti-abrasive graphene- enhanced architectural paint - The future of graphene’s role in the paint industry
Stefano Minder, Endre Communications

15.30 – 16.00 h
12.3 Development of scratch resistant functional coatings augmented by composite silica-borate nanoparticles
Esin Gokmen, Denge Kimya

16.30 – 17.00 h
12.4 Enhance formulation & optimize curing process
Dr Yassine Nagazi, Formulaction

17.00 – 17.30 h
12.5 Nanostructured coatings for anti-reflective and anti-fogging functionalities
Ana Sampaio, Centi

17.30 – 18.00 h
12.6 Use of graphene nanoplatelets to enhance chemical resistance
Adam Bell, Applied Graphene Materials

NETWORKING ON MONDAY |
Refreshments & Coffee break: 11.30 – 12.00 h > Foyer St. Petersburg & Foyer Seoul/Shanghai |
Lunch Break: 13.30 – 14.30 h > HALL Sydney |
Refreshments & Coffee break: 16.00 – 16.30 h > Foyer St. Petersburg & Foyer Seoul/Shanghai |
After Work Reception: 18.00 – 19.30 h

Subject to change
### SESSION 13 > ROOM Seoul

**ADHESIVES & SEALANTS**
Stephan Hinterwaldner, Hinterwaldner Consulting

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<th>Session 13.2</th>
<th>Session 13.3</th>
<th>Session 13.4</th>
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</table>
| 9.00 – 9.30 h | Carbon dioxide – making adhesives out of it  
Prof. Andreas Hartwig, Fraunhofer IFAM | Insight into the chemical adhesive-surface interaction in epoxy-aluminium joints  
Dr Melanie Schumann, Technische Universität Kaiserslautern | Fuel cells based on bio-based raw materials – what is feasible so far?  
Elisabeth Stammen, Technische Universität Braunschweig | Mineral oil compatibility with hydroxyl terminated polybutadiene based polyurethane  
Anna Eriksson, Nynas |
| 10.00 – 10.30 h | 13.2 | 13.3 | 13.4 | 13.5 |
| 11.00 – 11.30 h | 13.6 | 13.7 | 13.8 | 13.9 |

### SESSION 14 > ROOM Copenhagen

**CONSTRUCTION CHEMICALS I**
Ferdinand Leopolder, Drymix

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<th>Session 14.4</th>
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</table>
| 9.00 – 9.30 h | The use of metal organic frameworks (MOF) to formulate the properties of gypsum compounds  
Dr Tawheed Hashem, Karlsruhe Institut für Technologie (KIT) | Synthesis and characterization of iron and aluminum-containing AFm-phases  
Aurore Lechevallier, ParexLanko | Possibilities and challenges of adding ground granulated blast furnace slag to calcium aluminate cement  
Alma-Dina Bašić, University of Zagreb | The role of particle’s surface on TiO₂ performance  
Dr Nika Veronovski, Cinkarna Celje |
| 10.00 – 10.30 h | 14.3 | 14.4 | 14.5 | 14.6 |
| 11.00 – 11.30 h | 14.7 | 14.8 | 14.9 | 15.0 |

### SESSION 15 > ROOM St. Petersburg

**POLYURETHANES I**
Remi Martinez, Vencorex

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</table>
| 9.00 – 9.30 h | New silicone additives for high-performance antigraffiti polyurethane applications  
Dr Dmitry Chernyshov, Momentive Performance Materials | Unique & highly compatible additive for sustainable PU-based coatings  
Dr Nikolai Grebenovsky, Shin-Etsu Silicones Europe | Novel high-performing water-borne polyurethane dispersions based on polycarbonate diol for durable digital decoration  
Dr Francisco Rodríguez, UBE Corporation Europe | Silane modified colloidal silica in water-borne PUD coatings for galvanized steel  
Dr Peter Greenwood, Hexion |
| 10.00 – 10.30 h | 15.1 | 15.2 | 15.3 | 15.4 |
| 11.00 – 11.30 h | 15.5 | 15.6 | 15.7 | 15.8 |

### SESSION 16 > ROOM Istanbul

**PROTECTIVE COATINGS I**
Nina Musche, Shamrock

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<th>Time</th>
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</table>
| 9.00 – 9.30 h | Polymer degradation due to UV ageing and its effect on the strength of polyurethane coating for leading edge protection  
Sascha Buchbach, Fraunhofer IFAM | Novel polyester-based resins as a viable alternative to currently available fluoropolymer technologies  
Erwin Bauters, Eastman Chemical Company | New anti-corrosion fluoropolymer coating system for steel infrastructure in extreme environments  
Anna Sanchez-Fischer, Arkema | Flexible – bendable – versatile – tough: A new epoxy resin  
Dr Hubert Theil, CTP Advanced Materials |
| 10.00 – 10.30 h | 16.1 | 16.2 | 16.3 | 16.4 |
| 11.00 – 11.30 h | 16.5 | 16.6 | 16.7 | 16.8 |

**NETWORKING ON TUESDAY**
Refreshments & Coffee break: 10.30 – 11.00 h > Foyer St. Petersburg & Foyer Seoul/Shanghai  
Lunch Break: 12.30 – 13.30 h > HALL Sydney  
Refreshments & Coffee break: 15.00 – 15.30 h > Foyer St. Petersburg & Foyer Seoul/Shanghai

Subject to change
### TESTING & MEASURING I

**Dr Florian Feil, Ametek**

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<tr>
<td>9.00 – 9.30 h</td>
<td>17.1</td>
<td>Ernani Paludo, RMA Tech</td>
<td>Use of Transmission technique to adjust the tinting strength and its influence on the variability of the final color($\Delta E$)</td>
</tr>
<tr>
<td>9.30 – 10.00 h</td>
<td>17.2</td>
<td>Mustafa Kuru, Kalekim Construction Chemicals</td>
<td>Investigation of multi-tasking redispersible powder coating</td>
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<tr>
<td>10.00 – 10.30 h</td>
<td>17.3</td>
<td>Thanina Amiar, Formulaction</td>
<td>Optimizes and evaluates formulations performances by identifying the true rheological behavior using microfluidic rheometer</td>
</tr>
<tr>
<td>11.00 – 11.30 h</td>
<td>17.4</td>
<td>Prof. Miha Steinbücher, Helios Tblus</td>
<td>Bio-based, solvent-free and low-viscosity polyester polyol for 2K PUR systems</td>
</tr>
<tr>
<td>11.30 – 12.00 h</td>
<td>17.5</td>
<td>Tamara Dikic, Dow</td>
<td>Design of bio-based binders and mapping of the formulation space for premium architectural paints</td>
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<tr>
<td>12.00 – 12.30 h</td>
<td>17.6</td>
<td>Matthias Lesti, Formulation</td>
<td>Diffusing wave spectroscopy as an innovative tool to study gelation of bulk materials</td>
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### ARCHITECTURAL COATINGS

**Christophe Baude, Synthomer**

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<td>18.1</td>
<td>Juergen Bender, Kronos International</td>
<td>Novel raw material concept to improve key properties of water-based paint &amp; coating films</td>
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<td>18.2</td>
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<td>18.3</td>
<td>Dr Artur Palasz, Spektochem Technical Center of Raw Materials for Architectural Paints</td>
<td>Advanced modification of liquid acrylic roof membranes with rheological additives in the entire area of shear forces</td>
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<td>Oliver Peters, Evonik Operations</td>
<td>Novel defoamers for architectural systems – how to optimize structures for an ideal efficiency / compatibility profile</td>
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<td>11.30 – 12.00 h</td>
<td>18.5</td>
<td>Paul Dietz, FP-Pigments</td>
<td>Examining the efficiency of TiO$_2$ in matt paints &amp; methods of obtaining optimal dry opacity without sacrificing wet hides</td>
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<td>12.00 – 12.30 h</td>
<td>18.6</td>
<td>Yogesh Marathe, Momentive Performance Material</td>
<td>New silicone additives for anti-scratch / scuff proof coatings</td>
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### BIO-BASED COATINGS

**Alann Bragatto, Oxiteno**

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<td>Teemu Piesanen, CH-Polymers</td>
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<td>19.3</td>
<td>Jonathan Lane, GFBiochemicals</td>
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<td>Dr Umit Hakan Yildiz, Denge Kimya</td>
<td>Green transformation for dispersing agents: Solvent and catalyst free synthesis of star shaped polymer dispersing agents</td>
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<td>16.00 – 16.30 h</td>
<td>19.5</td>
<td>Prof. Veronika Strehmel, Niederrhein University of Applied Sciences</td>
<td>Bio-based epoxides and methacrylates for coating manufacturing</td>
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### CONSTRUCTION CHEMICALS II

**Prof. Andreas Gerdes, Karlsruher Institute of Technology**

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<td>Alkylalkoxysilanes and -siloxanes for water repellent treatments: New ways for investigations for the understanding of complex reactions</td>
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POLYURETHANES II
Lukas Appelhoff, Niederrhein University of Applied Sciences

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21.1 The influence of reactive diluents on the properties of isocyanate based 2K formulations
   Dr Rolf Klucker, Vencorex

14.00 – 14.30 h
21.2 Advances in low free monomer urethane prepolymer for 2K UV stable, high performance protective coatings
   Christopher Woodcock, Lanxess

14.30 – 15.00 h
21.3 New insights on the use of high performance polyurethane coatings
   Emre Kudug, Dyo Boya

15.30 – 16.00 h
21.4 A corrosion diary by EIS: Life span of solvent-free polyurethane coating
   Dr Merve Demirkurt, Kanat Paint and Coatings

16.00 – 16.30 h
21.5 Optimising the corrosion resistance of water-borne PUDs for bare and phosphatised steel substrates
   Dr Tony Gichuhi, ICL Halox

16.30 – 17.00 h
21.6 Exploration into the benefits achieved when using polycaprolactone based polyols in 2K polyurethane coatings
   Amanda Tosh, Ingevity

SESSION 22 > ROOM Kiew

PROTECTIVE COATINGS II
Ralf Knirschka, BASF

13.30 – 14.00 h
22.1 The use of monofunctional polyetheramines in water-borne epoxy resins
   Steven Buvens, Huntsman Performance Products

14.00 – 14.30 h
22.2 Materials for erosion protection – elastomeric coatings for leading edge protection
   Dr Claus Schreiner, Fraunhofer IFAM

14.30 – 15.00 h
22.3 Polyoxazolidinone prepolymer: A new coating technology
   Irene Latorre, Covestro

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22.4 Novel epoxy systems for protective coatings with ultra-low VOC content
   Dr Henning Vogt, Westlake Epoxy

16.00 – 16.30 h
22.5 Flame retardant coatings for fiber reinforced composites in rail transportation
   Dr Felipe Wolff Fabris, SKZ – KFE

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22.6 Organic modification of layered silicates as barrier pigments in coating systems
   Joshua Lommes, Fraunhofer IFAM

SESSION 23 > ROOM Seoul

TESTING & MEASURING II
Dr Enver Akin, MIG Material Innovative Gesellschaft

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23.1 The corrosion behavior of zinc-rich coatings on metallic substrates
   Dr Yekta Arya Ölçer Altınsoy, Kanat Paint and Coatings

14.00 – 14.30 h
23.2 High-irradiance laboratory weathering testing of coatings
   Dr Andy Francis, Q-Lab

14.30 – 15.00 h
23.3 Synthesis and Characterization of Insulation Resins Based on Unsaturated Polyesters
   Dr Kaan Aksoy, Betek Boya

15.30 – 16.00 h
23.4 Weathering testing of coatings: Recent developments in international standardization
   Dr Florian Feil, Atlas MTS

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23.5 The novel 3D-contact angle method to control pretreatments
   Dr Thomas Willers, Krüss

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23.6 High shear viscosity measurement to predict processability
   Thanina Amiar, Formulaction

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DIGITALISATION
Tara Conley, Dow

13.30 – 14.00 h
24.1 How to quantify coating defects by using advanced image recognition methods
   Dr Philipp Isken, Evonik

14.00 – 14.30 h
24.2 What’s more important to enable efficient cyber-physical systems – digital twins or the degree of automation in R&D labs
   Detlef Gysau, Chemspeed Technologies

14.30 – 15.00 h
24.3 Advanced CFD simulation for mixing processes using LES turbulence model
   Efraim Riess-Gonzalez, Invent Umwelt und Verfahrenstechnik

15.30 – 16.00 h
24.4 Five elements of a cloud-based color solution that improve efficiency and enable personalized customer experience
   Rik Mertens, Datacolor

16.00 – 16.30 h
24.5 Innovative resin development through digital material profiling
   Dr Priya Anand, BASF

16.30 – 17.00 h
24.6 AI, the next frontier for formulating in CASE
   Sasha Novakovich, Alchemy Cloud
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