



EUROPEAN

COATINGS SHOW 2023

conference

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

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BETTER TOGETHER

Finally in person again in Nuremberg, Germany | 27 - 28 MARCH 2023

Conference partners



VINCENTZ



Dr Katrin Vogt,
Editor, European Coatings

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 9 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
Functional coatings
Dr Volkmar Stenzel, Fraunhofer IFAM

TUTORIAL 2
Formulating adhesives & sealants
Dr Matthias Popp, Fraunhofer IFAM

TUTORIAL 3
Understanding biocides and the latest regulations
Dr Annette Bitsch, Fraunhofer ITEM

TUTORIAL 4
Polyurethane coatings
Dr Ulrich Freudenberg, Consultant

TUTORIAL 5
Dispersing pigments and fillers – theory to practice
Frank Kleinsteinberg, Evonik

TUTORIAL 6
Basics of architectural coatings
Markus Vogel, Byk

TUTORIAL 7
Fundamentals of colour and appearance
Colin Wakeford, X-Rite

TUTORIAL 8
Application processes in coatings
Dr Oliver Tiedje, Fraunhofer IPA

TUTORIAL 9
Basics of anti-corrosive coatings
Adil Bilici, Byk

19.00 h
NETWORKING
Welcome get-together in the city centre

MONDAY 27 MARCH 2023

7.00 h
REGISTRATION COUNTER OPENS

8.30 – 9.45 h

PLENARY SESSION

WELCOME ADDRESS,
CONFERENCE INTRODUCTION,
EUROPEAN COATINGS AWARD,
DELEGATES' SURVEY,
KEYNOTE PRESENTATION

PARALLEL SESSIONS 1 – 6 10.00 – 13.30 h

- S1 PROJECT DECOAT >ROOM Seoul
- S2 FUNCTIONAL COATINGS >ROOM Shanghai 
- S3 RADIATION CURING >ROOM Copenhagen
- 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
Lunch break & refreshments 

PARALLEL SESSIONS 7 – 12 14.30 – 18.00 h



- S7 DOE, HTE AND MODELLING >ROOM Seoul
- S8 WOOD COATINGS >ROOM Shanghai 
- S9 PRINTING INKS >ROOM Copenhagen
- S10 WATER-BORNE COATINGS II >ROOM St. Petersburg 
- S11 NOVEL MATERIALS II >ROOM Istanbul 
- S12 NANOTECHNOLOGY >ROOM Kiew

18.00 – 19.30 h
NETWORKING:
After work reception

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 Copenhagen
- 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
Lunch break & refreshments 

PARALLEL SESSIONS 19 – 24 13.30 – 17.00 h

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

 LIVE-STREAM





TUTORIAL 1 **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 nano-materials. An outlook of special performance enhancements of functionalities for the coatings industry is included.



TUTORIAL 2 **Formulating adhesives & 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 **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 **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 **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.



TUTORIAL 6 **Basics of architectural coatings**

Markus Vogel, Byk

Weatherability is a big issue for outdoor coatings. Corrosion resistance, UV resistance and other performance requests will be discussed in this tutorial. Different substrates, like metals, wood and concrete make the world of architectural coatings a diverse one. The basics of each surface will be explained, as well as the different testing methods. Future developments in architectural coatings are also included.



TUTORIAL 7 **Fundamentals of colour and appearance**

Colin Wakeford, X-Rite

As consumers become ever more colour-aware, more and more manufacturers away from traditional users of colour measurement equipment have to control their products to set tolerances. The challenge from the colour measurement perspective is how to

measure many of these samples, which are no longer flat paint panels, woven fabric swatches or plastic chips. Instead, we are faced with curved automotive parts, molded plastic components, cosmetics and natural products such as wood and marble, fruit juice, and even alcohol. In order to meet these challenges, there need to be both colour measuring devices, which offer different practical measurement solutions and the ability of the applications engineer to be creative in finding ways to successfully, and accurately, measure such samples.



TUTORIAL 8 **Application processes in coatings**

Dr Oliver Tiedje, Fraunhofer IPA

The tutorial will cover the topic of application technology of coatings with a focus on spray painting of liquid coatings. The various atomization methods (pneumatic, hydraulic, high rotation) will be presented and their advantages and disadvantages discussed. In particular, the use of electrostatics in high rotation will also be covered, including new research results in the field. The interplay between the properties of the coating material and the application technique plays an important role. The avoidance of paint defects (e.g. pinholes) and the production of high quality (e.g. appearance) will also be discussed. An outlook on innovative, overspray-free coating processes is given.



TUTORIAL 9 **Basics of anti-corrosive coatings**

Adil Bilici, Byk

„Every year we spend millions on anti-corrosive coatings to protect metallic structures. To avoid these damages, effective anti-corrosive coatings protect these structures. The performance of anti-corrosive coatings can be predicted by a variety of different testing methods. This tutorial delivers information on the most important corrosion testing methods and their usefulness. Additionally you will receive a short introduction into the basics of corrosion.“

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.

PLENARY SESSION

CONFERENCE OPENING 8.30 – 9.45 h



KEYNOTE PRESENTATION THE ROLE OF PAINTS AND COATINGS IN A SUSTAINABLE FUTURE

Wijnand Bruinsma, AkzoNobel

+ LIVE-STREAM



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

+ LIVE-STREAM

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 Facing the ice-issue through hybrid functional coatings

Carolina Acosta, Aimplas

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 Copenhagen

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

Qunying 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

+ LIVE-STREAM

10.00 – 10.30 h

4.1 Evaluation of non-stick fluorinated coatings through performance tests

Jabir Ismaelli, Kanat Boya

10.30 – 11.00 h

4.2 Combination of mineral and lightweight fillers/ microspheres leading to energy savings in high reflective coatings

David Gonzalez, Omya International

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 SE

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 New APEO free non-ionic wetting additive for water based coatings

Abhisar Jain, Dow Chemical Company



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

Irene Latorre, Covestro

+ LIVE-STREAM

10.00 – 10.30 h

5.1 All-in approach for color management in the automotive industry

Dr Carlos Vignolo, BASF Coatings

10.30 – 11.00 h

5.2 Temperature management in automotive industry

Marcelo Oliveira, Centi

11.00 – 11.30 h

5.3 Optimisation of coating layers with TeraHertz measurements

Dr Rob May, TeraView

12.00 – 12.30 h

5.4 Novel water-borne acrylic technology for sustainable basecoat formulations

Dr Wouter Kloosterman, Allnex

12.30 – 13.00 h

5.5 Surfaces with self-healing properties

Dr Juliana Oliveira, Centi

13.00 – 13.30 h

5.6 Advantages of high functional allophanate-based polyisocyanates in comparison to isocyanurate trimers

Dr Michael Ludewig, Covestro

SESSION 6 >ROOM Kiew

NOVEL MATERIALS I

Dr Katrin Vogt, Vincentz Network

10.00 – 10.30 h

6.1 Enhancing hardness and performance in alkyd coatings via new more sustainable vanadium catalysts

Dr Joshua Halstead, Borchers

10.30 – 11.00 h

6.2 Antimicrobials: A key pillar for sustainable coatings

James Rapley, Microban International

11.00 – 11.30 h

6.3 Fully bio-based versatile binder for architectural coatings

Christophe Baude, Synthomer

12.00 – 12.30 h

6.4 Novel high activity drier, free from cobalt and VOC, that works efficiently without the addition of auxiliary driers

Hiroaki Nakano, DIC Corporation

12.30 – 13.00 h

6.5 Three-dimensionally printed poly(lactic acid) scaffolds with contact-active antimicrobial activity

Dr Figen Aynali, Kanat Paint and Coatings

13.00 – 13.30 h

6.6 A new iron-based, light-activated alkyd drier

Dr Jitte Flapper, AkzoNobel

SESSION 7 >ROOM Seoul

DOE, HTE AND MODELLING

Detlef Gysau, Chemspeed

14.30 – 15.00 h

7.1 Optimization of blocking performance of trim paint formulations using modeling and predictive tools

Partha Majumdar, Dow Chemical Company

15.00 – 15.30 h

7.2 A bio-based coalescent for improving latex film quality and paint performance

Alann Bragatto, Oxiteno

15.30 – 16.00 h

7.3 Ecological design of wood coatings by leveraging Life Cycle Assessment and the Pickering technology

Olivier Choulet, Ecoat

16.30 – 17.00 h

7.4 Modulating film-forming and open-time with additives. A quantitative approach for complexity reduction in wb systems

Jörg Rüger, Clariant

17.00 – 17.30 h

7.5 Novel formulation toolkits to enable biocide-free water-borne architectural coatings at traditional pH

Tara Conley, Dow Chemical Company

17.30 – 18.00 h

7.6 Accelerating functional minerals development for architectural coatings using High Throughput Experimentation approach

Dr Thomas Lys, Omya International

SESSION 8 >ROOM Shanghai

WOOD COATINGS

Dr Claudia Schirp, Wki Fraunhofer

+ LIVE-STREAM

14.30 – 15.00 h

8.1 Investigations on the applicability of cationic curing oil coatings on exterior wood surfaces

Dr Christiane Swaboda, Institut für Holztechnologie Dresden

15.00 – 15.30 h

8.2 Sustainable repair: A novel healable polyurethane wood coating

Dr Gabor Erdodi, Lubrizol Advanced Materials

15.30 – 16.00 h

8.3 Si-Polyols as flame retardants for polyurethane clear coatings

Dr Andreas Fischer, Institut für Holztechnologie Dresden

16.30 – 17.00 h

8.4 Studies of colloidal microcrystalline cellulose in water-borne coating formulations using rheology and accelerated stabil

Dr Hui Yang, IFF

17.00 – 17.30 h

8.5 Plant based technology for high performance protective wood coatings

Dr Anthony D. Pajerski, Lubrizol Advanced Materials

17.30 – 18.00 h

8.6 Advances in UV protection of both high performance and water-borne coatings

Dr George Mauer, Chitec Technology





SESSION 9 >ROOM Copenhagen

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

17.00 – 17.30 h

9.5 Novel bio-based polymeric dispersants for inkjet applications

Dr Francisco Rodríguez, UBE Corporation Europe

17.30 – 18.00 h

9.6 Digital regulatory tool for accelerating packaging inks innovation

Gerald Albrecht, Evonik Operations

SESSION 10 >ROOM St. Petersburg

WATER-BORNE COATINGS II

Dr Jörg Alfred Vogelsang, Sika

+ LIVE-STREAM

14.30 – 15.00 h

10.1 Versatile additives for water-borne coatings

Dr Charlotte Marie Herstad, Dynea

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 Silicones 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 SE

17.00 – 17.30 h

10.5 Understanding and improving the water resistance of water-borne binders

Fatoumata Camara, Arkema

17.30 – 18.00 h

10.6 Water-borne one-component self-crosslinking polymer dispersions with high chemical resistance properties meeting Ikea R2

Dr Dirk Mestach, Allnex

SESSION 11 >ROOM Istanbul

NOVEL MATERIALS II

Andre van Linden, AkzoNobel

+ LIVE-STREAM

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, Dynea

16.30 – 17.00 h

11.4 Bio-organic silicone additives: Non-petroleum based alternative raw materials

Dr Robert Ruckle, Siltech

17.00 – 17.30 h

11.5 Unique & highly compatible additive for sustainable PU-based coatings

Dr Nikolai Grebenovsky, Shin-Etsu Silicones Europe

17.30 – 18.00 h

11.6 Bio-MPA: The missing link for renewable coating resins

Roger Blokland, Relement

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

Dr Matthew Sharp, Applied Graphene Materials

15.00 – 15.30 h

12.2 Preparation and characterization of hydrophobic rGO/FEVE nanocomposite coatings

Kubra Kaya, Hacettepe University

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, Formulacion

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
Lunch Break: 13.30 – 14.30 h | Refreshments & Coffee break: 16.00 – 16.30 h
After Work Reception: 18.00 – 19.30 h**



SESSION 13 >ROOM Seoul

ADHESIVES & SEALANTS

Stephan Hinterwaldner,
Hinterwaldner Consulting

9.00 – 9.30 h

13.1 Carbon dioxide – making adhesives out of it

Prof. Andreas Hartwig, Fraunhofer IFAM

9.30 – 10.00 h

13.2 Insight into the chemical adhesive-surface interaction in epoxy-aluminium joints

Dr Melanie Schumann, Technische Universität Kaiserslautern

10.00 – 10.30 h

13.3 Fuel cells based on bio-based raw materials – what is feasible so far?

Elisabeth Stammen, Technische Universität Braunschweig

11.00 – 11.30 h

13.4 Mineral oil compatibility with hydroxyl terminated polybutadiene based polyurethane

Anna Eriksson, Nynas

11.30 – 12.00 h

13.5 Water-borne and bio-based – polyurethane adhesives for high demanding applications

Markus Dimmers, Alberdingk Boley

12.00 – 12.30 h

13.6 Improving water resistance of water-borne formulations using polymerizable surfactants

Dr Lichang Zhou, Solvay

SESSION 14 >ROOM Copenhagen

CONSTRUCTION CHEMICALS I

Ferdinand Leopolder, Drymix

9.00 – 9.30 h

14.1 The use of metal organic frameworks (MOF) to formulate the properties of gypsum compounds

Dr Tawheed Hashem,
Karlsruhe Institut für Technologie (KIT)

9.30 – 10.00 h

14.2 Synthesis and characterization of iron and aluminum-containing AFm-phases

Aurora Lechevallier, ParexLanko

10.00 – 10.30 h

14.3 Possibilities and challenges of adding ground granulated blast furnace slag to calcium aluminate cement

Alma-Dina Bašić, University of Zagreb

11.00 – 11.30 h

14.4 The role of particle's surface on TiO₂ performance

Dr Nika Veronovski, Cinkarna Celje

11.30 – 12.00 h

14.5 New aspects on the reduction of chromates – increase in shelf life for finished products

Dr Enver Akin, MIG Material Innovative Gesellschaft

12.00 – 12.30 h

14.6 Fluorescence microscopy investigations on the delaying effect of superplasticizers in cementitious systems

Dr Alexander Wetzel, Universität Kassel

SESSION 15 >ROOM St. Petersburg

POLYURETHANES I

Dr Rolf Klucker, Vencorex

+ LIVE-STREAM

9.00 – 9.30 h

15.1 New silicone additives for high-performance antigraffiti polyurethane applications

Dr Dmitry Chernyshov,
Momentive Performance Materials

9.30 – 10.00 h

15.2 Synergistic bismuth complexes improve catalytic performance in polyurethane formulations

Dr Michael Washington, Reaxis

10.00 – 10.30 h

15.3 Novel high-performing water-borne polyurethane dispersions based on polycarbonate diol for durable digital decoration

Dr Francisco Rodríguez, UBE Corporation Europe

11.00 – 11.30 h

15.4 Sustainable coating solutions for packaging industry

Dr Deepak Patil, Cosmo Speciality Chemicals Private Limited

11.30 – 12.00 h

15.5 Efficient drying and crosslinking of water-borne PUAD-dispersions with near infrared radiation in one step

Lukas Appelhoff, Niederrhein University of Applied Sciences

12.00 – 12.30 h

15.6 Advancing sustainability in crosslinkable polyurethane dispersions

Dr Gabor Erdodi, Lubrizol Advanced Materials

SESSION 16 >ROOM Istanbul

PROTECTIVE COATINGS I

Nina Musche, Shamrock

+ LIVE-STREAM

9.00 – 9.30 h

16.1 Polymer degradation due to UV aining and its effect on the strength of polyurethane coating for leading edge protection

Sascha Buchbach, Fraunhofer IFAM

9.30 – 10.00 h

16.2 Novel polyester-based resins as a viable alternative to currently available fluoropolymer technologies

Erwin Bauters, Eastman Chemical Company

10.00 – 10.30 h

16.3 New anti-corrosion fluoropolymer coating system for steel infrastructure in extreme environments

Dr Wei Wang, Arkema

11.00 – 11.30 h

16.4 Silane modified colloidal silica in water-borne pud coatings for galvanized steel

Dr Peter Greenwood, Nouryon

11.30 – 12.00 h

16.5 Flexible – bendable – versatile – tough: A new epoxy resin

Dr Hubert Theil, CTP Advanced Materials

12.00 – 12.30 h

16.6 Pursue greener – novel sustainable CNSL-based diluent designed for high-performance low VOC protective coatings

Dr Hong Xu, Cardolite Corporation

NETWORKING ON TUESDAY | Refreshments & Coffee break: 10.30 – 11.00 h
Lunch Break: 12.30 – 13.30 h | Refreshments & Coffee break: 15.00 – 15.30 h



SESSION 17 >ROOM Kiew

TESTING & MEASURING I

Dr Florian Feil, Ametek

9.00 – 9.30 h

17.1 Use of Transmission technique to adjust the tinting strength and its influence on the variability of the final color(ΔE)

Ernani Paludo, RMA Tech

9.30 – 10.00 h

17.2 Investigation of multi-tasking redispersible powder coating

Mustafa Kuru, Kalekim Construction Chemicals

10.00 – 10.30 h

17.3 Optimize and evaluate formulations performances by identifying the true rheological behavior using microfluidic rheomete

Thanina Amiar, Formulacion

11.00 – 11.30 h

17.4 Bio-based, solvent-free and low-viscosity polyester polyol for 2K PUR systems

Prof. Miha Steinbücher, Helios Tblus

11.30 – 12.00 h

17.5 Design of bio-based binders and mapping of the formulation space for premium architectural paints

Tamara Dikic, Dow

12.00 – 12.30 h

17.6 Diffusing wave spectroscopy as an innovative tool to study gelation of bulk materials

Matthias Lesti, Formulacion

SESSION 18 >ROOM Shanghai

ARCHITECTURAL COATINGS

Christophe Baude, Synthomer

+ LIVE-STREAM

9.00 – 9.30 h

18.1 Novel raw material concept to improve key properties of water-based paint & coating films

Juergen Bender, Kronos International

9.30 – 10.00 h

18.2 PVDF-based dispersions for improving performance of low VOC architectural coatings

Dr Kelly Lutz, Arkema

10.00 – 10.30 h

18.3 Advanced modification of liquid acrylic roof membranes with rheological additives in the entire area of shear forces

Dr Artur Palasz, Spektrochem Technical Center of Raw Materials for Architectural Paints

11.00 – 11.30 h

18.4 Novel defoamers for architectural systems – how to optimize structures for an ideal efficiency / compatibility profile

Oliver Peters, Evonik Operations

11.30 – 12.00 h

18.5 Examining the efficiency of TiO₂ in matt paints & methods of obtaining optimal dry opacity without sacrificing wet hideals

Paul Dietz, FP-Pigments

12.00 – 12.30 h

18.6 New silicone additives for anti-scuff/ scuff proof coatings

Yogesh Marathe, Momentive Performance Material

SESSION 19 >ROOM St. Petersburg

BIO-BASED COATINGS

Alann Bragatto, Oxiteno

+ LIVE-STREAM

13.30 – 14.00 h

19.1 Water-borne alkyd coatings based on TOFA: A modern perspective

Dr Michael Bulanov, Kraton Chemical

14.00 – 14.30 h

19.2 Bio-based or sustainable coatings – or both?

Teemu Piesanen, CH-Polymers

14.30 – 15.00 h

19.3 Designing products to deliver a sustainable market transformation in the coatings industry

Dr Tijs Nabuurs, Covestro Coating Resins

15.30 – 16.00 h

19.4 Green transformation for dispersing agents: Solvent and catalyst free synthesis of star shaped polymer dispersing agents

Dr Umit Hakan Yildiz, Denge Kimya

16.00 – 16.30 h

19.5 Bio-based epoxides and methacrylates for coating manufacturing

Prof. Veronika Strehmel, Niederrhein University of Applied Sciences

16.30 – 17.00 h

19.6 Biogenic coatings and films for transportation protection

Franz Balluff, Fraunhofer IPA

SESSION 20 >ROOM Copenhagen

CONSTRUCTION CHEMICALS II

Prof. Andreas Gerdes, Karlsruhe Institute of Technology

13.30 – 14.00 h

20.1 Sustainable construction in actions

Dr Alexandre Franceschini, Imerys

14.00 – 14.30 h

20.2 PCE superplastizers for low carbon binders

Dr Lei Lei, Technical University of Munich TUM

14.30 – 15.00 h

20.3 On the efficient defoaming in polyurethane flooring applications

Edward Rushworth, Blackburn Chemicals Limited

15.30 – 16.00 h

20.4 Amorphous flash calcined alumina – effect on shrinkage and set of portland cement

Ludo van nes Blessing, Caltra Nederland bv

16.00 – 16.30 h

20.5 Exterior durability of liquid applied roof waterproofing membranes

Dr John Collinson, Dow Chemical Company

16.30 – 17.00 h

20.6 Alkylalkoxysilanes and -siloxanes for water repellent treatments: New ways for investigations for the understanding of complex reactions

Dr Julia Süßmuth, Ionys





SESSION 21 >ROOM Shanghai

POLYURETHANES II

Lukas Appelhoff,
Niederrhein University of Applied Sciences

+ LIVE-STREAM

13.30 – 14.00 h

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 prepolymers 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 Optimizing the corrosion resistance of water-borne polyurethane coatings for bare steel, phosphatized steel and untreated

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 Knischka, 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 prepolymers: A new coating technology

Irene Latorre, Covestro

15.30 – 16.00 h

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

16.30 – 17.00 h

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

13.30 – 14.00 h

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

22.2 High-irradiance laboratory weathering testing of coatings

Dr Andy Francis, Q-Lab

14.30 – 15.00 h

22.3 Characterization of surface roughness with optical measurement techniques

Dr Özgür Tan, Polytec

15.30 – 16.00 h

22.4 Weathering testing of coatings: Recent developments in international standardization

Dr Florian Feil, Atlas MTS

16.00 – 16.30 h

22.5 The novel 3D-contact angle method to control pretreatments

Dr Thomas Willers, Krüss

16.30 – 17.00 h

22.6 High shear viscosity measurement to predict processability

Thanina Amiar, Formulaction

SESSION 24 >ROOM Istanbul

DIGITALISATION

Tara Conley, Dow

+ LIVE-STREAM

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 SE

16.30 – 17.00 h

24.6 AI, the next frontier for formulating in CASE

Sasha Novakovich, Alchemy Cloud



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