



EUROPEAN

# COATINGS SHOW 2021

conference

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

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INNOVATION

NEVER STANDS STILL.

Nuremberg, Germany | 13 - 14 SEPTEMBER 2021

Conference partners



VINCENTZ

**JOIN IN PERSON**  
**OR VIA LIVESTREAM**



Extraordinary times call for extraordinary measures: for the first time, the ECS Conference is being held in a hybrid format, with international coatings experts brought together on a digital platform as well as face-to-face in Nuremberg, Germany.

120 presentations in 20 sessions, 5 short courses and countless networking possibilities! In just two-and-a-half days, the European Coatings Show Conference serves up everything you need to be able to thrive in the fiercely contested coatings market: current developments in raw materials, the latest results from scientific institutes and universities, and contacts with leading international experts – in person and online. Enthusiasts from around the world will be gathering at the hybrid ECS Conference to hear about the latest developments in coatings technology and to forge invaluable contacts. Don't miss out on the latest trends!

### KEY REASONS TO ATTEND

- Find out about the latest research results from academia and industry. Be among the first to know!
- Keep up with ALL the latest technology trends in the coatings industry.
- Learn from the brightest and best in coatings technology as they present their ideas and insights.
- Let your peers know what you are doing, not doing, contemplating, and committing to.
- Select the topics that matter from a programme created by coatings experts.
- Attend the ECS Conference and embrace a world of new ideas and new technologies.

## SUNDAY 12 SEPTEMBER 2021

Each course: 15:00 – 18:30 h

**PRE-CONFERENCE TUTORIAL 1\*** | Room: München 1

### POLYURETHANE COATINGS

*Dr Ulrich Freudenberg, former Covestro*

**PRE-CONFERENCE TUTORIAL 2\*** | Room: München 2

### FORMULATING ADHESIVES AND SEALANTS

*Dr Matthias Popp, Fraunhofer IFAM*

**PRE-CONFERENCE TUTORIAL 3\*** | Room: Athen

### UNDERSTANDING BIOCIDES AND THE LATEST REGULATIONS

*Dr Annette Bitsch, Fraunhofer ITEM*

**PRE-CONFERENCE TUTORIAL 4\*** | Room: Mailand

### DISPERSING PIGMENTS AND FILLERS – THEORY TO PRACTICE

*Frank Kleinsteinberg, Evonik*

**PRE-CONFERENCE TUTORIAL 5\*** | Room: Brüssel 2

### FUNCTIONAL COATINGS

*Dr Gesa Patzelt, Fraunhofer IFAM*

**LOCATION:**  
Exhibition and Convention Centre Nürnberg  
Messezentrum  
90471 Nuremberg, DE  
or via livestream

**DATE:**  
13 – 14 September 2021  
**Pre-conference programme:**  
12 September 2021

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



**PLENARY SESSION**

**CONFERENCE OPENING**  
8:30 – 9:45 h

## KEYNOTE

### LIVING IN CHALLENGING AND INTERESTING TIMES AS PAINT CHEMISTS – HOW SDG'S AND TRUE VALUE IMPACT REPORTING GIVE GUIDANCE

*Joost Broeders, Baril Coatings*

#### SESSION 1 | Room: Brüssel 2

##### PROJECT DECOAT

*Guy Buyle, Centexbel*

**10:00 – 10:30 h**

Recycling of coated and painted materials: introduction and link with textile recycling

*Guy Buyle, Centexbel*

**10:30 – 11:00 h**

Removal of coatings from textile substrates

*Dr Ine DeVilder, Centexbel*

**11:00 – 11:30 h**

Removal of coatings from plastic substrates

*Vicente Martinez, Aimplas*

**12:00 – 12:30 h**

Recycling of coated materials with a solvent-based recycling process

*Katharina Kaiser, Fraunhofer IVV*

**12:30 – 13:00 h**

Easy dismantling of bonded joints and time efficient stripping of coatings

*Dr Maxime Olive, Rescoll*

**13:00 – 13:30 h**

Mechanical properties of recycled plastic from coated parts

*Vanessa Ventosinos, CTAG*

#### SESSION 2 | Room: München 1

##### PIGMENTS AND FILLERS

*Dr Anabelle Elton-Legrix, Imerys*

**10:00 – 10:30 h**

Dispersion state of TiO<sub>2</sub> pigment particles in wet coating formulation and during drying studied by X-ray scattering

*Grethe Vestergaard Jensen, Danish Technological Institute*

**10:30 – 11:00 h**

Two different types of white pigments – similar optical reaction

*Werner Rudolf Cramer, Cramer*

**11:00 – 11:30 h**

Expanding the colour spaces using hiding interference pigments

*Dr Adalbert Huber, Schlenk*

**12:00 – 12:30 h**

Highly transparent water-based wood clear coats with engineered perlite

*Emmanuelle Giraud, Imerys*

**12:30 – 13:00 h**

A unique, discrete, ultrafine calcium carbonate and its performance in clear coats, wood coatings and high pvc paints

*Jorma Viitanen, FP-Pigments*

**13:00 – 13:30 h**

High performance polymeric dispersant for carbon black in water-borne systems

*Dr Tim Boebel, Stepan*

#### SESSION 3 | Room: München 2

##### POWDER COATINGS

*Nina Musche, Vincentz Network*

**10:00 – 10:30 h**

Nanoparticle-modified powder coatings for polymer substrates

*Dr Felipe Wolff-Fabris, European Centre for Dispersion technologies*

**10:30 – 11:00 h**

Titanium dioxide reduction system for powdered mixtures

*Marc Giersemehl, Neuman & Esser Process Technology*

**11:00 – 11:30 h**

Novel synthetic silica to matte powder coatings

*Dr Annett Halbhüner, Evonik*

**12:00 – 12:30 h**

Novel superdurable flexible powder coating

*Jan Bongaerts, DSM*

**12:30 – 13:00 h**

Mineral extenders for improved opacity and anti-corrosion properties in powder coatings

*Lieven Verstuyft, Imerys*

**13:00 – 13:30 h**

New generation reactive matting additive for epoxy and hybrid powder coatings

*Atman Fozdar, Fozdar Dynamics*

#### SESSION 4 | Room: Mailand

##### AUTOMOTIVE COATINGS

*Dr Michael Hilt, Fraunhofer IPA*

**10:00 – 10:30 h**

Meeting Auto OEM clear coat specifications with 2K systems despite extended cure window requirements for electric vehicles

*Jens Duereth, Eastman*

**10:30 – 11:00 h**

UV stable electrocoats for corrosion protection and structural bonding

*Dr Rolf Nothhelfer-Richter, Fraunhofer IPA*

**11:00 – 11:30 h**

Surface properties of coatings on automotive thermoformable films for easy-cleaning and anti-staining applications

*Maria Joao Lopes, Centi*

**12:00 – 12:30 h**

Resistant anti-friction coatings applicable for coil coating process

*Dr Peter Ohlendorf, Dupont*

**12:30 – 13:00 h**

Effect of surface coatings on compression load deflection behaviour of vehicle door seal

*Elif Uzun, Standard Profil Automotive*

**13:00 – 13:30 h**

Reactable, non-migrating, and non-basic hindered amine light stabilizer for coatings

*Dr Ramanathan Ravichandran, Rianlon*

#### SESSION 5 | Room: Athen

##### DIGITIZATION

*Jan Gesthuizen, Vincentz Network*

**10:00 – 10:30 h**

Batch orchestration in modular automation

*Andreas Brülls, Proleit*

**10:30 – 11:00 h**

Last mile of coatings

*Martin Madle, Deso*

**11:00 – 11:30 h**

Design of (optical) sensors for quality IOT projects in coating applications

*Georg Nelke, Optisense*

**12:00 – 12:30 h**

Formulating via web-apps based on predictive sciences

*Sander van Loon, VLCI*

**12:30 – 13:00 h**

Novel formulation optimization using Big Data, modeling, and predictive tools

*Dr Partha Majumdar, Dow Chemical*

**13:00 – 13:30 h**

Optimizing colour harmony with a user-centered colourimetric quality control platform

*Dr Christoph Schulte, BASF Coatings*



## SESSION 6 | Room: Mailand

### PRINTING INKS

*Yasmin Sayed-Sweet, Lamberti*

**14:30 – 15:00 h**

Waterbased PLA dispersions for inks & coatings

*Brecht Demedts, Centexbel*

**15:00 – 15:30 h**

Advances in the overspray-free digital application of polyurethane based coatings and adhesives

*Dr Fabian Schuster, Covestro*

**15:30 – 16:00 h**

Lithographic offset printing ink system of very low aromatic content

*Anna Eriksson, Nynas*

**16:30 – 17:00 h**

Energy and cost-efficient production processes for high-value coatings and inks for a sustainable future

*Marco Lemmenmeier, Bühler*

**17:00 – 17:30 h**

Explosion risk in hybrid mixtures - A serious problem in lacquer, paint and printing ink production

*Dr Hans-Joachim Jacob, Ystral*

**17:30 – 18:00 h**

How regulatory trends are driving innovation

*Susanne Struck, Evonik*

## SESSION 7 | Room: Brüssel 1

### FUNCTIONAL AND SMART COATINGS

*Dr Volkmar Stenzel, Fraunhofer IFAM*

**14:30 – 15:00 h**

Self-healing materials: A novel solution for extended product lifetime

*Thomas Blundell, Croda*

**15:00 – 15:30 h**

More efficiency for foul-release marine coatings

*Julia Foth, Evonik*

**15:30 – 16:00 h**

Smart technology providing permanent antistatic properties to substrates

*Erwin Honcoop, Croda*

**16:30 – 17:00 h**

Durable omniphobic coatings for optical devices

*Dr Ana Maria Escobar, Leitat*

**17:00 – 17:30 h**

Innovative and functional coatings

*Ana Sampaio, Centi*

**17:30 – 18:00 h**

Microcapsules for immediate UV-light triggered release

*Prof Lars Evenäs, Rise IVF*

## SESSION 8 | Room: Athen

### ADHESIVES & SEALANTS

*Stephan Hinterwaldner, Hinterwaldner Consulting*

**14:30 – 15:00 h**

Class approved bracket system for coated and uncoated surfaces using adhesives

*Dr Andreas Momber, Muehlhan*

**15:00 – 15:30 h**

High molecular weight polyurethane hot-melts

*Dr Ann-Christin Bijlard-Jung, Covestro*

**15:30 – 16:00 h**

Rheological characterization of water-based adhesives & sealants

*Dr Catherine Corfias-Zucalli, Coatex*

**16:30 – 17:00 h**

Upcycling: From post-consumer PU scrap to virgin PU coatings, adhesives, sealants and elastomers

*Kai Klockemann, Nitroil Performance Chemicals*

**17:00 – 17:30 h**

Alternative catalysts for silane-terminated polymers

*Dr Stefan Haubenreisser, Institute for Polyurethane Technology*

**17:30 – 18:00 h**

Water soluble EVOH for adhesives and coatings

*Dr Samuel Michel, Kuraray*

## SESSION 9 | Room: Brüssel 2

### ARCHITECTURAL COATINGS

*Dr Michael Diebold, Chemours*

**14:30 – 15:00 h**

Recycling options for leftover consumer paints – potential and challenges

*Dr Jitte Flapper, Akzonobel*

**15:00 – 15:30 h**

Siliconized acrylic dispersion binder extending the aesthetics & durability of façade coatings

*Dr Jouko Vyörykkä, Dow*

**15:30 – 16:00 h**

Novel reactive surfactants for latex emulsion polymerization

*Dr Tim Boebel, Stepan*

**16:30 – 17:00 h**

Protecting your walls – novel solutions for interior & exterior wall paints

*Oliver Peters, Evonik*

**17:00 – 17:30 h**

New binder for water-borne consolidating primers for masonry

*Christophe Baude, Synthomer*

**17:30 – 18:00 h**

Novel fluoro-free and silicone-free blocking resistance additives for water-borne coatings

*Dr Susan Dong, Stepan*

## SESSION 10 | Room: München 1

### CHOPIN AND ANTISOIL

*Dr Daniel Kraiter, Chemours*

**14:30 – 15:00 h**

Development of anticontamination coatings for aircraft industry: introduction to CHOPIN and STELLAR CLEANSKY projects

*Dr Mireille Poelman, Materia Nova*

**15:00 – 15:30 h**

Self-healing polyurethane coating with slippery properties

*Dr Tangi Sénéchal, Materia Nova*

**15:30 – 16:00 h**

Ceramic-like coatings by sol gel: High performance and durable cleanability

*Dr Marie-Eve Druart, Materia Nova*

**16:30 – 17:00 h**

Ionogel-like omniphobic coatings

*Dr Ana Viñuales, Cidetec*

**17:00 – 17:30 h**

Novel transparent antisoiling systems over flexible polymeric films

*Ignacio Brea Faílde, Leitat*

**17:30 – 18:00 h**

Durability under maintenance operations of antisoiling coatings

*Aina Cabrer Palomés, Leitat*

*Subject to change*

**AFTER WORK RECEPTION  
ALL PARTICIPANTS ARE INVITED**

## NETWORKING ON MONDAY

Refreshments & Coffeebreak: **11:30 – 12:00 h** | Lunch Break: **13:30 – 14:30** | Refreshments & Coffeebreak: **16:00 – 16:30 h** | After Work Reception: **18:00 – 19:30 h**



## SESSION 11 | Room: Athen

### CONSTRUCTION CHEMICALS

*Ferdinand Leopolder, Drymix.info*

**9:00 – 9:30 h**

**Anti carbonation render coating**

*Glenn Melvin, Walltransform*

**9:30 – 10:00 h**

**Accelerated aging methods to study color retention of organic renders**

*Dr Debora Ressnig, Dow*

**10:00 – 10:30 h**

**Micro-encapsulated integral water repellent for cementitious materials: Reaction of the silica shell in the cement matrix.**

*Dr Jean-Paul Lecomte, Dow*

**11:00 – 11:30 h**

**Ceramic tiles with improved performance and smart functionalities**

*Ana Sampaio, Centi*

**11:30 – 12:00 h**

**U-Technology: opening the way to leaner drymix formulation design**

*Dr Alexandre Franceschini, Imerys*

**12:00 – 12:30 h**

**Utilisation of alkali-sensitive aggregates for concrete pavements by internal hydrophobisation**

*Matthias Fladt, Federal Institute for Materials Research and Testing*

**12:30 – 13:00 h**

**Superplasticizers for calcined clay blended cements**

*Dr Lei Lei, Technical University of Munich*

## SESSION 12 | Room: Brüssel 2

### WOOD COATINGS

*Dr Steffen Romanski, Byk*

**9:00 – 9:30 h**

**Enhanced coating performance by overcoming the dilemma between coalescent demand and coating performance**

*Dr Jurgen Scheerder, DSM*

**9:30 – 10:00 h**

**Water based wood coatings - novel learnings pushing performance higher**

*Heike Semmler, Evonik*

**10:00 – 10:30 h**

**Sustainable anti-UV coating to protect wooden façades, using bio-carbon as UV-stabilizer**

*Dr Laetitia Marrot, Innorenew*

**11:00 – 11:30 h**

**Influence of wooden flooring on indoor air quality**

*Dr Swaraj Paul, Swaraj Paul*

**11:30 – 12:00 h**

**Measuring raised grain on wood - A path to solving water-based coatings' biggest challenge**

*Dr Morten Bormann Nielsen, Danish Technological Institute*

**12:00 – 12:30 h**

**Are water-borne wood coating systems really more sustainable than solvent-borne systems?**

*Dr Berta Vega Sánchez, Covestro*

## SESSION 13 | Room: Mailand

### RADIATION CURING

*Marcello Vitale, IVM Chemicals*

**9:00 – 9:30 h**

**Silane-modified silicas as versatile additives in radiation-cured formulations**

*Dr Daniel Clingerman, PPG*

**9:30 – 10:00 h**

**Novel sulfur functional silicon-based Q resin materials are energy cured for coatings and 3D printing.**

*Dr Robert Ruckle, Siltech*

**10:00 – 10:30 h**

**Influence of photoinitiator content on phase separation and microstructure of free-radical/cationic hybrid system and its application for low-gloss UV-curable coatings.**

*Ingrid Calvez, Michigan State University*

**11:00 – 11:30 h**

**Carbon nanodots for initiation of free radical polymerization and controlled radical polymerization for uses in coatings**

*Prof Bernd Strehmel, Niederrhein University of Applied Sciences*

**11:30 – 12:00 h**

**Photocuring of nanoparticle-based coatings via near-infrared sensitized free radical and cationic photopolymerization**

*Qunying Wang, Niederrhein University of Applied Sciences*

**12:00 – 12:30 h**

**UV-Photopolymerization of functional materials via up-conversion of nanoparticles with NIR-Laser**

*Dennis Oprych, Niederrhein University of Applied Sciences*

## SESSION 14 | Room: Brüssel 1

### WATER-BORNE COATINGS

*Dr Kurt Wood, Arkema*

**9:00 – 9:30 h**

**A breakthrough in water-borne crosslinking**

*Dr Ad Overbeek, DSM*

**9:30 – 10:00 h**

**Inventive routes for the preparation of water-borne acrylic polyols for 2K PU protective topcoats**

*Nathalie Havaux, Hexion*

**10:00 – 10:30 h**

**Multi-tasking water-borne epoxy binder system: Going beyond protection**

*Dr Henning Vogt, Hexion*

**11:00 – 11:30 h**

**Tall oil fatty acid as 100% bio-based building block for alkyd emulsions**

*Patrick van Waes, Kraton*

**11:30 – 12:00 h**

**Sustainable flame retardants for clear water-based wood coatings**

*Dr Meyrav Abecassis-Wolfovich, ICL-IP*

**12:00 – 12:30 h**

**Preserving coatings formulations and coatings ingredients in an isothiazolinone free future**

*Scott Brown, Lonza*

## SESSION 15 | Room: München 1

### PROTECTIVE COATINGS I

*Dr Rolf Nothhelfer-Richter, Fraunhofer IPA*

**9:00 – 9:30 h**

**Novel biobased corrosion inhibitor & building blocks based on sugar beet pulp**

*Robert Lazeroms, Royal Cosun*

**9:30 – 10:00 h**

**Novel ethoxy-based silane-terminated prepolymers for protective coatings**

*Dr Anne Kutz, Covestro*

**10:00 – 10:30 h**

**New activated low zinc epoxy primers**

*Alex Yagüe, Pinturas Hempel*

**11:00 – 11:30 h**

**The application of biocide-encapsulated microcapsules in underwater antifouling paint validation testing**

*Ching-Wen Fan, NCSIST*

**11:30 – 12:00 h**

**Antimicrobial and anti-biofilm coatings for fuel tanks**

*Dr Lorenzo Bautista, Leitac*

**12:00 – 12:30 h**

**Surface soluble salts impact on protective coating performance**

*Allison Musto, Borchers*

*Subject to change*

**ECS CONFERENCE IN HYBRID FORMAT**

**DIGITAL & FACE-TO-FACE  
IN NUREMBERG, GERMANY**



## SESSION 16 | Room: München 1

### BIO-BASED COATINGS

*Patrick van Waas, Kraton*

**13:30 – 14:00 h**

**Novel CNSL-based low viscosity epoxy curing agents for solvent-free high-performance protective coatings**

*Dr Hong Xu, Cardolite*

**14:00 – 14:30 h**

**Green monomers for coating manufacturing**

*Prof Veronika Strehmel, University of Applied Sciences*

**14:30 – 15:00 h**

**From native starch to bio-based coatings**

*Dr Christina Gabriel Liebs, Fraunhofer IAP*

**15:30 – 16:00 h**

**New biobased and sustainable UV-cured coatings from the LIFE-Biopaint project**

*Dr Marcello Vitale, IVM Chemicals*

**16:00 – 16:30 h**

**Sustainable bio-based energy-curable polyurethanes in the spotlight**

*Jan Devroede, Allnex*

**16:30 – 17:00 h**

**Biobased polymers – optimization for performance, sustainability, and value dilemma**

*Dr Paul Doll, Dow*

## NETWORKING ON TUESDAY

**Refreshments & Coffeebreak: 10:30 – 11:00 h | Lunch Break: 13:30 – 14:30 | Refreshments & Coffeebreak: 15:00 – 15:30 h**

## SESSION 17 | Room: Brüssel 1

### POLYURETHANES

*Dr Berta Vega Sánchez, Covestro*

**13:30 – 14:00 h**

**New coating possibility using silicon-based blocked isocyanates and related materials**

*Dr Kohei Masuda, Shin-Etsu Silicones*

**14:00 – 14:30 h**

**Polyurethane dispersions with low impact on interior emissions**

*Dr Jan Weikard, Covestro*

**14:30 – 15:00 h**

**Robust hydrophobic water-borne polyurethane dispersions (PUDs) based on novel structural design**

*Chung-Hsuan Chen, Anderson*

**15:30 – 16:00 h**

**New isocyanate for high performance polyurethane coatings**

*Philippe Olier, Vencorex*

**16:00 – 16:30 h**

**Polyisocyanate penetration project for OEM 3wet integrated system**

*Satoshi Takeno, Asahi Kasei*

**16:30 – 17:00 h**

**Novel solventborne silicone organic hybrid for high performance isocyanate-free DTM and topcoat in PC and ACE Applications**

*Dr Erin Vogel, Dow*

## SESSION 18 | Room: Mailand

### TESTING & MEASURING

*Grethe Vestergaard Jensen, Danish Technological Institute*

**13:30 – 14:00 h**

**Online particle size measurement of pigment dispersions during the milling process using dynamic light scattering**

*Andre Nogowski, European Centre for Dispersion technologies*

**14:00 – 14:30 h**

**A novel method for coatings characterization at high temperature**

*Dr Yassine Nagazi, Formulation*

**14:30 – 15:00 h**

**1-k and 2-k PVDF hybrid dispersions for protective coating system topcoats**

*Dr Kurt Wood, Arkema*

**15:30 – 16:00 h**

**How to prevent embolism in medical devices**

*Dr Daniel Frese, Krüss*

**16:00 – 16:30 h**

**Effect of graphene surface properties on the corrosion performance**

*Dr Karanveer Aneja, Talga Group*

**16:30 – 17:00 h**

**Novel approach to the evaluation of dirt pickup resistance**

*Dr Daniel Kraiter, Chemours*

## SESSION 19 | Room: Brüssel 2

### NOVEL MATERIALS

*Ad Overbeek, DSM*

**13:30 – 14:00 h**

**Development of high activity cobalt-free driers using theoretical studies of the polymerization of alkyd resins catalyzed by metal complexes**

*Hiroaki Nakano, Dic*

**14:00 – 14:30 h**

**Enhancement of the long-term storage stability of one-part epoxy systems through the microencapsulation of thermal latent accelerators**

*Martin Muehlbach, European Centre for Dispersion technologies*

**14:30 – 15:00 h**

**New hardener for ambient curing high heat resistant coatings**

*Markus Hallack, Evonik*

**15:30 – 16:00 h**

**Novel high performance oxidatively cured catalyst to maintain coating performance in low-VOC formulations**

*Allison Musto, Borchers*

**16:00 – 16:30 h**

**Iron catalyst in ppm scale: a novel NIR sensitized photoinduced ATRP**

*Nicolai Meckbach, Niederrhein University of Applied Sciences*

**16:30 – 17:00 h**

**Sustainable bio-based emulsifiers for alkyd resin emulsions**

*Dr Christian Weidl, BASF*

## SESSION 20 | Room: München 2

### PROTECTIVE COATINGS II

*Dr Henning Vogt, Hexion*

**13:30 – 14:00 h**

**New applications for silane modified polymers in metal, wood and glass coatings**

*Dr Joerg Schmitz, IMCD*

**14:00 – 14:30 h**

**Graphene: Challenging the boundaries of corrosion prevention**

*Lynn Chikosha, Applied Graphene Materials*

**14:30 – 15:00 h**

**Decontamination using advanced temporary coatings**

*Daisy Clough, Dstl*

**15:30 – 16:00 h**

**Dispersing agents to enhance corrosion resistance: Achieve uncompromised performance for metal coatings**

*Dr Cathy Cooper, Lubrizol*

**16:00 – 16:30 h**

**New waterborne UV durable acrylic-epoxy hybrid coatings without the need of topcoat for metal protection**

*Xavier Bricout, Dow*

**16:30 – 17:00 h**

**Application of organofunctional silanes in polyaspartic coating systems**

*Dr Dmitry Chernyshov, Momentive*

*Subject to change*