



EUROPEAN

# COATINGS SHOW 2021

conference

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

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INNOVATION

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ECS Conference 2021 held in digital format | 13 - 14 SEPTEMBER 2021

Conference partners



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Extraordinary times call for extraordinary measures: For the first time, the ECS Conference is being held in a digital format, with international coatings experts brought together on a virtual platform. The conference can be attended by anyone, regardless of their travel budget or location.

120 presentations in 20 sessions offer you a huge input of concentrated coatings knowledge! In just two 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. Enthusiasts from around the world will be gathering at the digital 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!
- > Learn from the brightest and best in coatings technology as they present their ideas and insights.
- > Ask your personal questions to all presenting coatings experts.
- > Exchange views in numerous discussion groups on what moves or hinders you in your daily business.
- > Intelligent match-making tools support you in connecting with your peers.
- > Attend the ECS Conference and embrace a world of new ideas and new technologies.

**PLENARY SESSION**

**CONFERENCE OPENING**  
9:00 – 10:00 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*



# **MONDAY 13 SEPTEMBER 2021 | SESSIONS 1 – 5**

## **SESSION 1**

**PRESENTED BY GDB INTERNATIONAL**

### **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 De Vilder, Centexbel*

**11:00 – 11:30 h**

Removal of coatings from plastic substrates

*Vicent Martinez, Aimplas*

**11:30 – 12:00 h**

*Content powered by GDB International*

**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**

**PRESENTED BY CLARIANT**

### **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*

**11:30 – 12:00 h**

*Content powered by Clariant*

**12:00 – 12:30 h**

Highly transparent water-based wood clear coats with engineered perlite

*Emmanuelle Giraud, Imerys*

**12:30 – 13:00 h**

Graphene nanotubes: A sustainable conductive additive for your industrial coatings

*Andrew Dubrovskiy, Ocsial*

**13:00 – 13:30 h**

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

*Dr Tim Boebel, Stepan*

## **SESSION 3**

### **POWDER COATINGS**

*Nina Musche, Shamrock Technologies*

**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 Halbhuber, Evonik*

**12:00 – 12:30 h**

Novel superdurable flexible powder coating

*Jan Bongaerts, Covestro*

**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**

### **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

*Catarina Nobre, 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**

Thermal comfort improvement in new artificial leather materials

*Dânia Menezes, Centi*

## **SESSION 5**

**PRESENTED BY CHEMSPEED**

### **DIGITIZATION**

*Jan Gesthuizen, Vincentz Network*

**10:00 – 10:30 h**

TBA

**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*

**11:30 – 12:00 h**

*Content powered by Chemspeed*

**12:00 – 12:30 h**

Formulating via web-apps based on predictive sciences

*Sander van Loon, VLCl*

**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*



# MONDAY 13 SEPTEMBER 2021 | SESSIONS 6 – 10

## SESSION 6

PRESENTED BY BÜHLER

### 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*

**16:00 – 16:30 h**

Content powered by Bühler

**16:30 – 17:00 h**

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

*Dr. Frank Tabellion, 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

### 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, Chalmers University of Technology*

## SESSION 8

### 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

PRESENTED BY OMYA INTERNATIONAL

### 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

*Julia Zaug, Stepan*

**16:00 – 16:30 h**

Content powered by Omya International

**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

### 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, Cidotec*

**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*



## SESSION 11

### CONSTRUCTION CHEMICALS

Ferdinand Leopolder, Drymix.info  
Prof. Andreas Gerdes, KIT

**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  
Jeffrey Sobczak, Dow

**10:00 – 10:30 h**  
Superplasticizers for calcined clay  
blended cements  
Dr Lei Lei, Technical University of Munich

**11:00 – 11:30 h**  
Micro-encapsulated integral  
water repellent for cementitious  
materials: Reaction of the silica  
shell in the cement matrix.  
Dr Jean-Paul Lecomte, Dow

**11:30 – 12:00 h**  
Ceramic tiles with improved  
performance and smart  
functionalities  
David Ramada, Centi

**12:00 – 12:30 h**  
U-Technology: opening the way to  
leaner drymix formulation design  
Dr Alexandre Franceschini, Imerys

**12:30 – 13:00 h**  
Utilisation of alkali-sensitive  
aggregates for concrete pavements  
by internal hydrophobisation  
Dr Frank Weise/Michael Fladt,  
Federal Institute for Materials Research  
and Testing

## SESSION 12

### 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, Covestro

**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, PP Polymer

**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

### 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**  
UV-Photopolymerization of functional  
materials via up-conversion of  
nanoparticles with NIR-Laser  
Dennis Oprych, Niederrhein University of  
Applied Sciences

**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**  
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

## SESSION 14

PRESENTED BY EVONIK

### WATER-BORNE COATINGS

Dr Ad Overbeek, Covestro

**9:00 – 9:30 h**  
A breakthrough in water-borne  
crosslinking  
Dr Ad Overbeek, Covestro

**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

**10:30 – 11:00 h**  
Content powered by Evonik

**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

### PROTECTIVE COATINGS I

Andre van Linden, Akzonobel

**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**  
Benchmarking antisoiling coatings  
for solar applications under real  
conditions in Saudi Arabia  
Mark Mirza, Fraunhofer ISC

**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, Leitat

**12:00 – 12:30 h**  
Graphene: Challenging the  
boundaries of corrosion prevention  
Lynn Chikosha, Applied Graphene Materials

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IN DIGITAL FORMAT





## SESSION 16

PRESENTED BY ALLNEX

### BIO-BASED COATINGS

*Patrick van Waes, 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

*Jens Buller, Fraunhofer IAP*

**15:00 – 15:30 h**

*Content powered by Allnex*

**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

*Michel Tielemans, Allnex*

**16:30 – 17:00 h**

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

*Dr Paul Doll, Dow*

## SESSION 17

PRESENTED BY COVESTRO

### 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*

**15:00 – 15:30 h**

*Content powered by Covestro*

**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

PRESENTED BY CHEMOURS

### 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*

**15:00 – 15:30 h**

*Content powered by Chemours*

**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

### NOVEL MATERIALS

*Kurt Wood, Arkema*

**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

*Marco Heuer, 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

### 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, IMCO*

**14:00 – 14:30 h**

TBA

**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

*Gürkan Tonta, Dow*

**16:30 – 17:00 h**

Application of organofunctional silanes in polyaspartic coating systems

*Dr Dmitry Chernyshov, Momentive*



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