



EUROPEAN

COATINGS SHOW 2021 conference

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

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INNOVATION

NEVER STANDS STILL.

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

Johannes Schneider, 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-Legriz, Imerys

10:00 – 10:30 h

Dispersion state of TiO₂ 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

Withdrawn

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

Withdrawn

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

Withdrawn

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

Withdrawn

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, Université Laval

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, Formulaction

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, IMCD

14:00 – 14:30 h

Withdrawn

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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