



EUROPEAN

COATINGS SHOW 2019

conference

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

Nuremberg, Germany | **MARCH 18-19** | 2019



THE ESSENCE

OF INNOVATION



www.european-coatings-show.com/conference



VINCENTZ

19.00 h

WELCOME GET-TOGETHER

Join us for our Welcome get-together on Sunday, 17 March 2019. The reception will take place at the cult 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.



PRE-CONFERENCE TUTORIAL 6

15.00 – 18.30 h

DISPERSING PIGMENTS AND FILLERS – THEORY TO PRATICE

Frank Kleinsteinberg, Evonik Industries, DE

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.



PRE-CONFERENCE TUTORIAL 7

15.00 – 18.30 h

FUNCTIONAL COATINGS

Gesa Patzelt, Fraunhofer IFAM, DE

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



PRE-CONFERENCE TUTORIAL 8

15.00 – 18.30 h

RADIATION CURING

Prof. Georg Meichsner, University of Applied Sciences Esslingen, DE

UV curing systems are used in a variety of industrial applications and offer extremely short curing times and immediate further processing. This tutorial will provide you with a concise overview on the fundamentals of radiation curing coatings, their benefits and limitations. The basic chemistry involved, typical formulation characteristics, as well as common and new applications of UV curing and e-beam coatings will be explained.



PRE-CONFERENCE TUTORIAL 9

15.00 – 18.30 h

FUNDAMENTALS OF EPOXY COATINGS

Martin Gerlitz, Huntsman Advanced Materials, CH

The tutorial will provide an introduction to the chemistry of epoxy systems providing an overview on all established combinations in the industries (1K, 2K, room temperature cure, low temperature cure, heat cure). Options to adjust product performance (highly flexible coatings, high chemical resistance, excellent mechanical properties, etc.) will be discussed by explanation of interaction of epoxy resin part and the suitable curing agent. The tutorial will also highlight changes in the technology with respect to VOC legislation with emphasis on high solids systems, solvent-free systems and waterborne solutions especially in the field of high corrosion protection.



PRE-CONFERENCE TUTORIAL 10

15.00 – 18.30 h

ENVIRONMENTALLY BENIGN COATINGS

Prof. Mark D. Soucek, University of Akron, US

This short course is perfect for technicians or professionals who have recently entered the coatings field or need a primer to receive current knowledge in forecasting where benign coatings are headed. The three-hour short course will consist of the basics of environmentally benign coatings and technology which includes a comparison between waterborne, powder, and UV-curable coatings. These technologies will be compared to other types of coatings such as high solids and water-reducible coatings. There will be some comments on catalyst and pre-treatment replacements as well.

MONDAY

8.30 – 9.00 h CONFERENCE OPENING

WELCOME ADDRESS AND CONFERENCE INTRODUCTION

Dr Sonja Schulte, Editor-in-Chief of the European Coatings Journal will open the 2019 ECS Conference with a warm greeting and invite all attendees to take part in a quick survey about current industry market trends, with an immediate insight into the results.



9.00 – 9.30 h KEYNOTE PRESENTATION

MAKING COATINGS AND COATING CHEMICALS MORE SUSTAINABLE AND AFFORDABLE: BIOREFINERY APPROACHES TO MONOMERS, SOLVENTS AND POLYMERS

Prof. Markus Antonietti, Managing Director at the Max Planck Institute of Colloids and Interfaces, Germany will report on some modern approaches and processes to create monomers, solvents, plasticizers, and even complete curable oligomer systems from wood-like waste products:

- Health issues connected with polymer products ("microplastic", "endocrine disruption")
- Life cycle analysis of the sustainability of goods, bio-based monomers and polymers which are ideally less toxic, inert or even biodegradable
- How bioethanol, sugars, and lignin as a side product delivered by the biorefinery can be conveniently expanded to the needs of the coating industry, with a cost level usually below 1 €/kg for most products



9.30 – 9.45 h EUROPEAN COATINGS SHOW AWARD

PRESENTATION OF THE EUROPEAN COATINGS AWARD

At the European Coatings Show Conference the speaker who presents the best scientific and/or technical paper will be honoured. An independent jury will select the winner of the 11th European Coatings Award, decidedly a measure of excellence in coatings technology. It is sponsored by the European Coatings Journal and consists of 2.000 EUR prize money and an award.





SESSION 1 Room: St. Petersburg

SCIENCE TODAY –
COATINGS TOMORROW

Chair: Prof. Dr Claus D. Eisenbach, DE

ALSO AVAILABLE AS
LIVE-STREAM

- 1.1 **10.00 – 10.30 h**
A trojan horse approach for biopolymer based barrier paper coatings
Prof. Markus Biesalski,
Technical University Darmstadt, DE
- 1.2 **10.30 – 11.00 h**
New bio-based polycarbonates as novel coating materials
Prof. Andreas Greiner,
University of Bayreuth, DE
- 1.3 **11.00 – 11.30 h**
How to make molecular fishing nets with macroscopic lateral extension?
Prof. A. Dieter Schlüter,
ETH Zurich, CH

SESSION 2 Room: Istanbul

PIGMENTS

Chair: Dr Steve Ashdown,
Venator Materials, GB

- 2.1 **10.00 – 10.30 h**
Optics and modeling of advanced interference effect pigments
Dr Steven Jones,
BASF Colors & Effects, US
- 2.2 **10.30 – 11.00 h**
Complete appearance control for effect paint systems from design to application
Matthew Adby,
X-Rite, GB
- 2.3 **11.00 – 11.30 h**
Three-dimensional microscopy on the nanoscale for the analysis of pigments in coatings
Prof. Thomas Höche,
Fraunhofer IMWS, DE

SESSION 3 Room: Hongkong

POWDER COATINGS

Chair: Dr Steve Ryley,
PRA, GB

- 3.1 **10.30 – 11.00 h**
Additive dosing and dispersing system in the powder coating industry
Fabian Mertens,
Neuman & Esser Grinding and Classifying Systems, DE
- 3.2 **10.00 – 10.30 h**
Plasma - plastics - UV-cured powder coatings
Michael Knoblauch,
Keyland Polymer Material Sciences, US
- 3.3 **11.00 – 11.30 h**
Empirical study of the impact of TiO₂ on the weathering processes of durable powdercoat
Dr Johan Rommens,
Chemours, BE

11.30 – 12.00 h Networking

REFRESHMENTS & COFFEE BREAK

- 1.4 **12.00 – 12.30 h**
Mass producing molecular precision: Prospects for self-assembly in functional films and coatings
Prof. Richard A. L. Jones,
University of Sheffield, GB
- 1.5 **12.30 – 13.00 h**
New hybrid materials based on poly(ethylene oxide), polystyrene, or polydienes and octafunctional silsesquioxanes
Prof. Pierre J. Lutz,
University of Strasbourg and Institute Charles Sadron and CNRS, FR
- 1.6 **13.00 – 13.30 h**
Supramolecular assembly at the interface of life and materials sciences: New opportunities for functional nanostructured coatings
Prof. Ilja Voets,
Institute for Complex Molecular Systems and Eindhoven University of Technology, NL

- 2.4 **12.00 – 12.30 h**
Looking into the red/orange colour space - a new inorganic pigment class to fill the gap
Dr Thomas Sowade,
Heubach, DE
- 2.5 **12.30 – 13.00 h**
Ultra-high performance pigments for lead chromate replacement: Uses and results
Mark Ryan,
Shepherd Color, US
- 2.6 **13.00 – 13.30 h**
New ultra-thin effect pigments
Dr Adalbert Huber,
Schlenk, DE

- 3.4 **12.00 – 12.30 h**
Smart infrared curing for compact powder precoatng-lines
Markus Cudazzo,
Fraunhofer IPA, DE
- 3.5 **12.30 – 13.00 h**
Greener evolution of powder coating resins technology
Dietmar Fink,
Allnex, DE
- 3.6 **13.00 – 13.30 h**
Matte powder coatings in one shot application
Jan Pieter Drijfhout,
DSM Coating Resins, NL

13.30 – 14.30 h Networking

LUNCH BREAK



Monday, 18 March 2019

SESSION 4 – 6

SESSION 4 *Room: Shanghai*

WATER-BORNE COATINGS

Chair: Dr Guillermo Perez-Lorenzo,
Organik Kimya, TR

4.1 10.00 – 10.30 h

The influence of coalescing solvents on stability and performance of water-borne coatings

Dr Peter Berce,
Helios Tblus, SI

4.2 10.30 – 11.00 h

Next generation spacer technology for paints and coatings

Dr Michael Steiner,
Nanosaar, DE

4.3 11.00 – 11.30 h

Silicone water repellents and acrylic dispersions for the protection of construction materials

Dr Jean Paul Lecomte,
Dow Silicones, BE

SESSION 5 *Room: Kiev*

ROOF & FACADE PAINTS

Chair: Jitte Flapper,
Akzo Nobel, NL

5.1 10.00 – 10.30 h

Novel polymer technology for maintaining reflectance efficiency in bitumen cool roofs

Massimo Longoni, EPS, NL

5.2 10.30 – 11.00 h

Modified colloidal silica as performance enhancer of acrylic elastomeric cool roof coatings

Dr Peter Greenwood,
Nouryon, SE

5.3 11.00 – 11.30 h

On the effects of hollow microspheres in elastomeric cool roof coatings

Dr Jan Nordin, Akzo Nobel Pulp and
Performance Chemicals, SE

SESSION 6 *Room: Seoul*

PRINTING INKS

Chair: Wolfgang Köhner,
Kronos, DE

6.1 10.00 – 10.30 h

Analog meets digital

Bernd Braun,
Newsocialtime, DE

6.2 10.30 – 11.00 h

High shear rate viscosity measurements of inks by visual microfluidic

Thanina Amiar,
Formulation, FR

6.3 11.00 – 11.30 h

Carbon colloidal dispersions for electrical-conductive and lubrication applications

Dr Pascual Garcia-Perez,
Imerys Graphite & Carbon, CH

11.30 – 12.00 h Networking

REFRESHMENTS & COFFEE BREAK

4.4 12.00 – 12.30 h

Silicone-free developments in low-foaming nonionic wetting agents for aqueous coatings

Dr Chitra Jeurkar,
Elementis, US

4.5 12.30 – 13.00 h

Adding functionality and film property enhancement through optimized combinations of silicone additives and acrylic binders

Dr Alain Matta,
Dow Coating Materials, AE

4.6 13.00 – 13.30 h

Novel RT curable silicone resin emulsions for high temperature coatings

Dr Xavier Mollat du Jourdin,
Dow Silicones, BE

5.4 12.00 – 12.30 h

Comprehensive approach to prevent leaching of paints

Dr Dorothee Gabel,
Clariant Produkte, DE

5.5 12.30 – 13.00 h

Silicone hybrids - universal talents for facade hydrophobization

Dr Matthias Koch,
CHT, DE

5.6 13.00 – 13.30 h

Towards best practice in a snail trail free exterior architectural paint

Pierre Leger,
Dow Silicones, BE

6.4 12.00 – 12.30 h

Impact of extenders in TiO₂ reduction and curing efficiency in UV cured flexo ink

Amandine Briand,
Imerys, GB

6.5 12.30 – 13.00 h

UV inks - properly cured

Dr Carina Sötebier,
Hubergroup, DE

6.6 13.00 – 13.30 h

Product development driven by compliance

Dr Peter Groß,
Eckart, DE

13.30 – 14.30 h Networking

LUNCH BREAK

Monday, 18 March 2019
SESSION 7 – 9



SESSION 7 Room: Kiew

DISPERSING TECHNOLOGY

Chair: Dr Hans-Joachim Jakob,
Ystral, DE

7.1 **14.30 – 15.00 h**
Paint it Black: Designing the ultimate dispersant for high-jetness coatings

Andrew Shooter,
Lubrizol, DE

7.2 **15.00 – 15.30 h**
Novel high performance polymeric dispersants for VOC-free colorants

Dr Carolina Rojas,
Stepan Company, US

7.3 **15.30 – 16.00 h**
Additives for the next generation of slurries - no more sedimentation

Ellen Reuter,
Evonik Resource Efficiency, DE

SESSION 8 Room: Hongkong

WOOD COATINGS

Chair: Dr Michel Tielemans,
Allnex, BE

8.1 **14.30 – 15.00 h**
Novel di block copolymers for water resitant wood coatings

Simon Waddington,
Interface Polymers, GB

8.2 **15.00 – 15.30 h**
Foam based wood stains

Anthonie Stuiver,
Akzo Nobel, NL

8.3 **15.30 – 16.00 h**
Development of novel, clear, water-borne, fire-retardant coating system for wood substrates

John Hughes,
Armstrong World Industries, US

SESSION 9 Room: Istanbul

FOULPROTECT

Chair: Sascha Buchbach,
Fraunhofer IFAM, DE

9.1 **14.30 – 15.00 h**
Advances in the development of additives and raw materials for maritime fouling-release coating solutions

Dr Thorsten Felder,
Momentive Performance Materials, DE

9.2 **15.00 – 15.30 h**
Manipulated separation processes – ways for new antifouling coatings

Deniz Dogan, Simon Ruthmann,
University of Paderborn, DE

9.3 **15.30 – 16.00 h**
Self-structuring materials based on thiol PDMS PEG acrylates as fouling release coatings

Andreas Brinkmann,
Fraunhofer IFAM, DE

16.00 – 16.30 h Networking

REFRESHMENTS & COFFEE BREAK

7.4 **16.30 – 17.00 h**
New W&D additives for water-borne coatings – no pain with rain and stain anymore

Dr Joerg Hinnerwisch,
Byk, DE

7.5 **17.00 – 17.30 h**
New water-borne polymeric dispersants for industrial coatings

Carlos Feito,
Elementis, US

7.6 **17.30 – 18.00 h**
Enhance aqueous coating performance utilizing a novel polymeric dispersant

Sheila Belding,
Troy, US

8.4 **16.30 – 17.00 h**
Effect of TiO₂ on tannin migration in water-borne wood coatings

Dr Steven De Backer,
Chemours, BE

8.5 **17.00 – 17.30 h**
New polymer compositions for advanced exterior paints

Dr Guillermo Perez-Lorenzo,
Organik Kimya, TR

8.6 **17.30 – 18.00 h**
New binder for weather and surface tolerant wood trim paints

Maurille Sécher,
Omnova, FR

9.4 **16.30 – 17.00 h**
Polyzwitterionic hydrogel or amphiphilic domain-like antifouling coatings

Prof. Mathias Ulbricht,
University of Duisburg/Essen, DE

9.5 **17.00 – 17.30 h**
Independent efficacy testing of anti-fouling coatings

Bernd Daehne,
Brill + Partner, DE

9.6 **17.30 – 18.00 h**
Drag reduction and fouling release properties of a riblet-textured marine coating

Dr Dorothea Stübing,
Fraunhofer IFAM, DE

18.00 – 19.30 h Networking

AFTER WORK RECEPTION

We cordially invite all conference delegates, chairmen and speakers to meet in a relaxed atmosphere at the end of the first conference day. Reflect on the talks and presentations, meet old and new peers and colleagues to renew and strengthen contacts and enjoy an after work drink and light snacks.



Monday, 18 March 2019

SESSION 10 – 12

SESSION 10 Room: St. Petersburg

2K INDUSTRIAL COATINGS

Chair: Andre van Linden,
Akzo Nobel, NL

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LIVE-STREAM

- 10.1 **14.30 – 15.00 h**
Film microstructure and kinetics of 2K WB coatings based on quaternary ammonium formation
Dr Bohorquez Silfredo Javier,
Allnex, NL
- 10.2 **15.00 – 15.30 h**
Non-isocyanate crosslinking approaches for poly(vinylidene fluoride) topcoats
Dr Kurt Wood,
Arkema, US
- 10.3 **15.30 – 16.00 h**
A new class of permanent high thermo-resistant elastomeric coating for industrial applications
Dr Stefan Haubenreisser,
Institute for Polyurethane Technology, DE

SESSION 11 Room: Shanghai

MICROBIAL PROTECTION

Chair: Dr Frank Cangelosi,
Troy, US

- 11.1 **14.30 – 15.00 h**
Boosters - the only viable answer to your biocide labelling issues?
Paul Wood,
AM Solutions, PL
- 11.2 **15.00 – 15.30 h**
New preservation option for coatings formulations
Scott Brown,
Lonza, US
- 11.3 **15.30 – 16.00 h**
Functional coatings with next-gen N-halamines: Beyond traditional anti-microbial applications
Zachary Wolff,
Exigence Technologies, CA

SESSION 12 Room: Seoul

RADIATION CURING

Chair: Prof. Bernd Strehmel,
Niederrhein University
of Applied Science, DE

- 12.1 **14.30 – 15.00 h**
Latest photoinitiator developments
Dr Patrick Knaack,
TU Wien, AT
- 12.2 **15.00 – 15.30 h**
Dual cure technology boosting performance of thermoformable coatings
Dr Steven Cappelle,
Allnex, BE
- 12.3 **15.30 – 16.00 h**
Photonic baking and radiation-curing with near infrared radiation for fast laser or LED activation coating processes
Dr Christian Schmitz,
Niederrhein University of Applied Sciences,
DE

16.00 – 16.30 h Networking

REFRESHMENTS & COFFEE BREAK

- 10.4 **16.30 – 17.00 h**
Novel silicone materials provide a secondary cure for energy-cured silicone acrylates
Dr Robert Ruckle,
Siltech, CA
- 10.5 **17.00 – 17.30 h**
A novel multifunctional etheramine additive for water-borne applications
Dr Jordan Quinn,
Angus Chemical, US
- 10.6 **17.30 – 18.00 h**
Protective resin systems creates coatings that protect
Cicely Pan,
Eastman Chemical, CN

- 11.4 **16.30 – 17.00 h**
Wollastonites, perfect fillers for label-free, very low biocide-containing aqueous wall paints
Lieven Verstuylt,
Imerys, BE
- 11.5 **17.00 – 17.30 h**
Toward biocide-free water-borne coatings at traditional pH via innovative binders and additives
Dr Jessica Levin,
Dow Chemical, US
- 11.6 **17.30 – 18.00 h**
How can we handle microbial growth in paints in light of upcoming biocide legislation in Europe
Dr Anders Larsson,
Research Institutes of Sweden, SE

- 12.4 **16.30 – 17.00 h**
Durable superhydrophobic coating by radiation curing
Prof. Samuel Kenig,
Nanto Cleantech, US
- 12.5 **17.00 – 17.30 h**
New soft touch, high performance UV/EB curable resins for plastic and industrial wood applications
Dr Robert Potzmann,
Allnex, BE
- 12.6 **17.30 – 18.00 h**
Photoinitiated radical and cationic curing with new NIR-LED device
Yulian Pang,
Niederrhein University of Applied Sciences,
DE

18.00 – 19.30 H NETWORKING
AFTER WORK RECEPTION





SESSION 13 Room: Seoul

ADHESIVES & SEALANTS

Chair: *Stephan Hinterwaldner, Hinterwaldner Consulting, DE*

13.1

9.00 – 9.30 h

New bio-based polyols for the improvement of structural adhesives based on epoxidized natural oils

Prof. Andreas Hartwig, Fraunhofer IFAM, DE

13.2

9.30 – 10.00 h

The reactive AAEM-modified PMMA adhesive with improved heat resistance

Dr Ali Salimi, Iran Polymer and Petrochemical Institute, IR

13.3

10.00 – 10.30 h

Introducing a new hotmelt adhesive technology matching the performance of PU dispersions

Dr Jörg Tillack, Covestro, DE

SESSION 14 Room: Hongkong

CONSTRUCTION CHEMICALS I

Chair: *Ferdinand Leopolder, drymix.info, DE*

14.1

9.00 – 9.30 h

A new type of calcium aluminate cement for self-leveling compounds (SLC)

Alexandra Gerz, Calucem, DE

14.2

9.30 – 10.00 h

Molecular mechanisms of mechanical and chemical corrosion on cement-bound materials

Dr Peter Thissen, Karlsruhe Institute of Technology, DE

14.3

10.00 – 10.30 h

Influence of organic and inorganic accelerators on the portland cement hydration and their applicability in 3D printing

Tobias Dorn, TU Berlin, DE

10.30 – 11.00 h Networking

REFRESHMENTS & COFFEE BREAK

13.4

11.00 – 11.30 h

Challenging the impossible: Extending the shelf-life of polyester-based PU dispersions

Dr Chen Jin, Covestro, CN

13.5

11.30 – 12.00 h

Use of high molecular-weight polyvinyl alcohol in vinyl acetate type of emulsions

Dr Samuel Michel, Kuraray Europe, DE

13.6

12.00 – 12.30 h

Bio-based and sustainable polyurethane multi-material adhesive solutions

Dr Angela Smits, Croda, NL

14.4

11.00 – 11.30 h

Calcium sulfate hydrate varied Portland cements for 3D printing

Tamino Hirsch, TU Berlin, DE

14.5

11.30 – 12.00 h

Reactive transport in porous mineral systems – experiments and numerical analytics

Anne Lebbardt, Karlsruhe Institute of Technology, DE

14.6

12.00 – 12.30 h

Evolution of skin properties on adhesive mortars evaluated by MRI and interfacial rheology

Alessandra Lie Fujii Yamagata, ENS Paris Sarclay, FR

SESSION 15 Room: St. Petersburg

POLYURETHANES I

Chair: *Dr Henning Vogt, Hexion, DE*

**ALSO AVAILABLE AS
LIVE-STREAM**

15.1

9.00 – 9.30 h

New elastomeric polyurethane coating made with polycarbonate diol with intrinsic self-healing

Dr Manuel Colera, UBE Corporation Europe, ES

15.2

9.30 – 10.00 h

Safe use of polyurethane-based coatings

Dr Joachim Petzoldt, Covestro, DE

15.3

10.00 – 10.30 h

Proposed restriction on diisocyanates under REACH

Jörg Palmersheim, Isopa, Belgium

15.4

11.00 – 11.30 h

Pushing boundaries - lifting polyurethane chemistry to the next level

Dr Florian Golling, Covestro, DE

15.5

11.30 – 12.00 h

Novel low viscosity polyester polyols for reduced VOC 2K polyurethane coatings

Jeffrey Janos, Stepan Company, US

15.6

12.00 – 12.30 h

Novel bio-based energy-curable PU dispersions

Dr Michel Tielemans, Allnex, BE

12.30 – 13.30 h Networking

LUNCH BREAK



Tuesday, 19 March 2019

SESSION 16 – 18

SESSION 16 Room: Shanghai

PROTECTIVE COATINGS I

Chair: Heiko Juckel,
Byk, DE

16.1

9.00 – 9.30 h

Third generation polysiloxane technology for CUI mitigation

James Reynolds,
Performance Polymers, NL

16.2

9.30 – 10.00 h

Graphene composite inks and coatings for fuel cell applications

Dr Sivasambu Bohm,
Talga Technologies, GB

16.3

10.00 – 10.30 h

New very high solid acrylic polyol binders for low VOC direct-to-metal two components system

Dr Gregory Delmas,
Arkema, FR

SESSION 17 Room: Kiew

TESTING & MEASURING I

Chair: Dr Ravi Ravichandran,
King industries, US

17.1

9.00 – 9.30 h

Phase-stepped deflectometry as a powerful tool to determine the appearance of paints and coatings

Dr Martin Bosma,
Allnex, NL

17.2

9.30 – 10.00 h

Gamification of coatings R&D

Dr Rolf Gülller,
Chemspeed Technologies, CH

17.3

10.00 – 10.30 h

Water delivery in accelerated weathering testing of coatings for improved outdoor correlation

Dr Andy Francis,
Q-Lab, US

SESSION 18 Room: Istanbul

ARCHITECTURAL COATINGS

Chair: David Sykes,
Bankside Consultancy, GB

18.1

9.00 – 9.30 h

Sustainable innovation for architectural paints

Glaucia Buchmann,
University of Sao Paulo, BR

18.2

9.30 – 10.00 h

All weather rheology modifiers - consistent properties under varying application temperatures

Dr Stewart Williams,
Dow Chemical, US

18.3

10.00 – 10.30 h

Structure/activity relationships of water-borne stain-blocking binder technologies

Dr Andreas Steiner,
Allnex, AT

10.30 – 11.00 h Networking

REFRESHMENTS & COFFEE BREAK

16.4

11.00 – 11.30 h

New CNSL-based water-borne curing agents for low VOC Zn-rich primer and protective epoxy primer

Dr Hong Xu,
Cardolite, US

16.5

11.30 – 12.00 h

A novel moisture curable silylated resin for protective coating applications

Dean Kondos,
Momentive Performance Materials, US

16.6

12.00 – 12.30 h

Polyamide-based polyurethane water-borne dispersions for direct-to-metal applications

Dr Gabor Erdodi,
Lubrizol, DE

17.4

11.00 – 11.30 h

Microscopic dynamics characterization of coating at high temperature

Dr Yassine Nagazi,
Formulaction, FR

17.5

11.30 – 12.00 h

Assessment of the photodegradation tendency of coatings and components by ESR spectroscopy

Dr Matthias Wanner,
Fraunhofer IPA, DE

17.6

12.00 – 12.30 h

Determination of suspension redispersion quality with static multiple light scattering

Dr Christelle Tisserand,
Formulaction, FR

18.4

11.00 – 11.30 h

Quantifying, understanding and optimizing the applied hiding power of a coating

Dr Steven De Backer,
Chemours, BE

18.5

11.30 – 12.00 h

Durable matte: Film-forming binder technology to drive performance in low sheen paints

Dr Partha Majumdar,
Dow Chemical, US

18.6

12.00 – 12.30 h

Effect of wall brightness on room illumination

Dr Michael Diebold,
Chemours, US

12.30 – 13.30 h Networking

LUNCH BREAK



SESSION 19 Room: Seoul

EPOXY COATINGS

Chair: Dr Hong Yu,
Cardolite, US

- 19.1 **13.30 – 14.00 h**
Progress in the application of organosilicones in heavy-duty water-based epoxy coating systems
Dr Dmitry Chernyshov,
Momentive Performance Materials, DE
- 19.2 **14.00 – 14.30 h**
A case study: Novel low VOC, low viscosity epoxy, enabling high solids systems
Marie-Josée Dery-Chauvette,
Olin Epoxy, DE
- 19.3 **14.30 – 15.00 h**
Advances in water-borne acrylic-epoxy hybrid rechnology for industrial coating applications
Dr Bingquan Li,
Dow Chemical, US

SESSION 20 Room: Hongkong

CONSTRUCTION CHEMICALS II

Chair: Prof. Andreas Gerdes,
Karlsruhe Institute of Technology,
DE

- 20.1 **13.30 – 14.00 h**
Biopolymers as novel accelerator in alumina cement
Alexander Engbert,
TU Munich, DE
- 20.2 **14.00 – 14.30 h**
Lithium carbonate alternatives for fast curing dry mix applications
Dr Olaf Hetche,
IMCD, DE
- 20.3 **14.30 – 15.00 h**
Effects of oleochemical hydrophobing agents on plasters - results of a long-term field study
Gabriel Kehren,
Peter Greven, DE

SESSION 21 Room: Istanbul

POLYURETHANES II

Chair: Nina Musche,
Vincentz Network, DE

- 21.1 **13.30 – 14.00 h**
The influence of molecular interactions on the viscosity of aliphatic polyisocyanate precursor
Piet Driest,
Covestro, DE
- 21.2 **14.00 – 14.30 h**
Novel hybrid hydrophilic hardener that allows 2K WB PU to dry as fast as aromatic 2K SB PU
Dr Eva Tejada Rosales,
Covestro, ES
- 21.3 **14.30 – 15.00 h**
Isocyanate-free polyhydroxy urethanes for water-borne coating applications
Dr Michael Schmitt,
Niederrhein University of Applied Sciences, DE

15.00 – 15.30 h Networking

REFRESHMENTS & COFFEE BREAK

- 19.4 **15.30 – 16.00 h**
The age of aqueous - taking water-borne epoxies all the way
Dr Henning Vogt,
Hexion, DE
- 19.5 **16.00 – 16.30 h**
Driving higher performance emission compliant epoxy systems for long-term asset protection
Dr Michael Cook,
Evonik, US
- 19.6 **16.30 – 17.00 h**
Frontal polymerization: An innovative technology for efficient curing of epoxy resins
Christoph Schnoell,
TU Wien, AT

- 20.4 **15.30 – 16.00 h**
New water-borne roof water-proofing coatings meeting CE marking certification requirements
Dr Jouko Vyörykkä,
Dow Europe, CH
- 20.5 **16.00 – 16.30 h**
Sodium aluminate to reduce the content of lithium salts in building chemistry applications
Andreas Eisenreich,
Imerys, FR
- 20.6 **16.30 – 17.00 h**
Influence of different types of cellulose ethers and cements on cement-based tile adhesives
Melike Sucu,
Cimsa, TR

- 21.4 **15.30 – 16.00 h**
NISO goes water
Dr Armin Temel,
Allnex, AT
- 21.5 **16.00 – 16.30 h**
One of a kind in the polyurethane toolbox
Philippe Olier,
Vencorex, FR
- 21.6 **16.30 – 17.00 h**
Approaches to tin(IV)- free catalysis in PU
Kai Klockemann,
Nitroil Performance Chemicals, DE



Tuesday, 19 March 2019

SESSION 22 – 24

SESSION 22 Room: Kiew

PROTECTIVE COATINGS II

Chair: Dr Thomas Sowade,
Heubach, DE

- 22.1 **13.30 – 14.00 h**
Coating performance on corroded steel substrates
Dr Niek Hijnen,
Akzo Nobel, GB
- 22.2 **14.00 – 14.30 h**
Novel erosion and temperature resistant overlay coating systems for turbomachinery
Dr Mark Perpall,
Praxair Surface Technologies, US
- 22.3 **14.30 – 15.00 h**
Novel 1- and 2K moisture curing vinyl alkoxy silanes alternative to 2K polyurethane topcoats
Denis Heymans,
Hexion, BE

SESSION 23 Room: Shanghai

TESTING & MEASURING II

Chair: Dr Steward Williams,
Dow Chemical, US

- 23.1 **13.30 – 14.00 h**
Developing a deeper understanding of the effect of latex design parameters on final coatings
Dr Chris Miller,
Arkema, US
- 23.2 **14.00 – 14.30 h**
Investigation of the relationship between measured paint properties and leveling
Dr Oliver Tiedje,
Fraunhofer IPA, DE
- 23.3 **14.30 – 15.00 h**
Advanced instrumentation methodologies to quantify dry film appearance and visual hiding
Kent Maghacut, Ashland, US

SESSION 24 Room: St. Petersburg

TiO₂ & OPACIFICATION

Chair: Jan Gesthuizen,
Vincentz Network, DE

**ALSO AVAILABLE AS
LIVE-STREAM**

- 24.1 **13.30 – 14.00 h**
Hidden properties of titanium dioxide pigments in coating formulations
Dr Steve Ashdown,
Venator Materials, GB
- 24.2 **14.00 – 14.30 h**
Colour change in exterior wall paints
Wolfgang Könnner,
Kronos, DE
- 24.3 **14.30 – 15.00 h**
A theoretical study into the hiding power of white TiO₂-free coatings
Dr Jitte Flapper,
Akzo Nobel, NL

15.00 – 15.30 h Networking

REFRESHMENTS & COFFEE BREAK

- 22.4 **15.30 – 16.00 h**
Novel, non-metal graphene nanoplatelet hybrid anti-corrosive system
Lynn Chikosha,
Applied Graphene Materials, GB
- 22.5 **16.00 – 16.30 h**
One step closer to replacement of solvent-borne coatings for 1K corrosion protection
Christophe Baude,
Omnova, FR
- 22.6 **16.30 – 17.00 h**
New generation corrosion control coating technology with high XLD and nano-reactive materials
Atman Fozdar,
Chemical Dynamics, US

- 23.4 **15.30 – 16.00 h**
Digitizing R&D: Reforming the formulation process
Bojan Buinac,
Bens Consulting, SI
- 23.5 **16.00 – 16.30 h**
Rheological investigations on the drying behaviour of polymer dispersions and paint films
Dr Klaus Oldörp,
Thermo Fisher Scientific, DE
- 23.6 **16.30 – 17.00 h**
Modern measurement of effect pigments - useful and useless geometries
Werner Rudolf Cramer,
Cramer, DE

- 24.4 **15.30 – 16.00 h**
Opening new ways to formulate matt coatings
Dr Janine Siekman,
Kronos, DE
- 24.5 **16.00 – 16.30 h**
Optimisation of light scattering with engineered high performance minerals in decorative paint
Helen Dollani,
Imerys, GB
- 24.6 **16.30 – 17.00 h**
Optimum TiO₂ particle size by combining regular dispersing agents and alkanolamines
Dr Romain Severac,
Angus Chemical, FR

NO TIME TO TRAVEL?

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GENERAL INFORMATION



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TOP MARKS - THE CONFERENCE IN FIGURES

848 COATING ENTHUSIASTS FROM
50 COUNTRIES
144 PRESENTATIONS IN
24 SESSIONS
10 SHORT COURSES



90% OF THE DELEGATES WOULD RECOMMEND THE CONFERENCE TO COLLEAGUES.

87% OF THE DELEGATES PRAISED THE QUALITY OF THE CONFERENCE PROGRAMME.



88% OF THE DELEGATES WERE FULLY SATISFIED WITH THE NETWORKING ELEMENTS.

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