AMERICAN COATINGS CONFERENCE

April 30-May 2, 2024

Indiana Convention Center | Indianapolis, IN

Program Subject to Change

PLENARY SESSION April 30, 2024 | 12:00 pm

Welcome Address and Conference Introduction

KEYNOTE ADDRESS

April 30, 2024 | 12:15 - 12:45 pm

Coatings Innovation in the Future: Sustainability and Performance Dr. Robert Roop, Senior Vice President and Chief Technology Officer, Axalta Coating Systems

PRESENTATION OF THE AMERICAN COATINGS AWARD

April 30, 2024 | 12:45 - 1:15 pm

SCHEDULE

April 30, 2024 | 1:30 - 5:00 pm

TUESDAY AFTERNOON

SESSION 1:

ROGRAM

Measurement & Testing

1:30 - 2:00 pm

1.1 Detecting the mass of pigment particles – toward a universal size standard Jörg Wieder, femtoG

2:00 - 2:30 pm

1.2 Transmittance technique for adjusting properties in the paint industry Ernani Paludo, RMATech

2:30 - 3:00 pm

1.3 Improving scratch resistance and durability of deep matte plastic coatings Jim Reader, Evonik

3:00 - 3:30 pm

3:30 - 4:00 pm

1.4 Weathering of Coatings – new developments in international standardization Oscar Cordo, Atlas Material Testing Technology

4:00 - 4:30 pm

1.5 Quantitative image analysis of roller application performance Sunny Wang, Dow

4:30 - 5:00 pm

1.6 Battery production: Automated quality assurance along the entire line Jörg Mülleneisen, Optisense

SESSION 2:

Epoxy Coatings

1:30 - 2:00 pm

2.1 Triaminononane and BHMT as curatives for high-performance epoxy coatings Karana Shah, Ascend Performance Materials

2:00 - 2:30 pm

2.2 Epoxy curing agents for superior chemical resistance in harsh environments Sudhir Ananthachar, Evonik

2:30 - 3:00 pm

2.3 Sustainable CNSL-based epoxy modifiers for high-performance coatings Hong Xu, Cardolite

SESSION 3:

Industrial Coatings 1

1:30 - 2:00 pm

3.1 Low-VOC, solvent-free resin development for UV/EB cured coil coatings Elaine Ruiz, Arkema

2:00 - 2:30 pm

3.2 Pathway toward self-healing latexes Mark Soucek, University of Akron

2:30 - 3:00 pm 3.3 Comparing metal-based driers

in the aerobic curing of alkyd-based coatings Martin Klussmann, Borchers

3.4 Waterborne silicone resin for

high temperature resistant coatings

Momentive Performance Materials

2:00 - 2:30 pm

SESSION 4:

Wood Coatings

4.1 Hydrophobic polymers for

highly durable wood coatings

Dan Vanaken, Hexion Research

1:30 - 2:00 pm

4.2 Low-VOC, TEA-free high solids PUDs for wood Israel Skoff, Lubrizol

2:30 - 3:00 pm

4.3 Design of new aqueous acrylic resins for coating and staining wood Christian Ruud, PPG

Coffee Break

3:30 - 4:00 pm

2.4 Novel fast reacting epoxy for industrial protective coatings application Yong Zhang, Huntsman

4:00 - 4:30 pm

2.5 Innovative system for UVresistance in epoxy coatings Sarah Dotzler, Cargill

4:30 - 5:00 pm

2.6 Coupling agent evolution: Heteroleptic cages Joseph Lichtenhan, Hybrid Plastics

4:00 - 4:30 pm

3:30 - 4:00 pm

Paula Cousino,

3.5 Novel formaldehyde-free and melamine-free resin for stoving coatings Robert Ober, BASF

4:30 - 5:00 pm

3.6 Novel resins and formulation approaches for challenging regulations Gautam Haldankar, allnex

3:30 - 4:00 pm

4.4 Hydrophobic wood coatings utilizing organic-inorganic hybrid technology Tahereh Hayeri, Eastern Michigan University

4:00 - 4:30 pm

4.5 Novel acrylic emulsion for matte coatings without matting agents Senthil Kumar Rengasamy, BASF

4:30 - 5:00 pm

4.6 New bio-based versatile binder for architectural coatings Latoska Price, Synthomer

TUESDAY EVENING April 30, 2024 | 5:00 - 6:30 pm

Networking Reception + Poster Session The ACC Poster Session will be held after presentations on the first day of the conference, during the ACC Reception.

Posters will be on display on the show floor.



WEDNESDAY MORNING May 1, 2024 | 7:15 - 8:15 am

The Fun Run is an opportunity for attendees to start the day with an energizing run or walk before attending sessions. It also offers networking opportunities during a relaxed, yet spirited activity. Proceeds from the Fun Run fund student participation at future conferences.

Wednesday Morning

S C H E D U L E May 1, 2024 | 8:30 am - 12:30 pm

SESSION 5:	SESSION 6:	SESSION 7:	SESSION 8:
Functional Coatings 1	Architectural Coatings 1	Industrial Coatings 2	Waterborne Coatings 1
8:30 - 9:00 am	8:30 - 9:00 am	8:30 - 9:00 am	8:30 - 9:00 am
5.1 Fluorine-free, dynamically oleophobic polymer coating Marshall Ming, Georgia Southern University	6.1 Effects of siloxane and silica additives on dirt pickup resistance Meixi Chen, Evonik	7.1 Painting with pollution: Polyols from waste CO ₂ for use in PU-based coatings Richard Stevenson, EconicTechnologies	8.1 Water resistance of polyacrylic films using polymerizable surfactant Celine Burel, Synsqo
9:00 - 9:30 am	9:00 - 9:30 am	9:00 - 9:30 am	9:00 - 9:30 am
5.2 Novel additives for abrasion resistance in polymer coatings Ryan Khawarizmi, PPG	6.2 1K permanent anti-graffiti coatings for architectural surfaces Forough Zarean, Wacker Chemical	7.2 Functional Additives for Hot Block and Performance in Waterborne Coatings Brian Vest, Syensqo	8.2 Balancing Open Time and Rain Resistance with Diffusing Wave Spectroscopy and Conventional Application Tests Kaliappa Ragunathan, BASF
9:30 - 10:00 am	9:30 - 10:00 am	9:30 - 10:00 am	9:30 - 10:00 am
5.3 Fabrication of amphiphilic coatings for robust anti-icing surfaces Tong Li, North Dakota State University	6.3 Advances in 1K PVDF/acrylic hybrid dispersion and its applications Wei Wang, Arkema	7.3 Novel polymeric dispersants for improved dispersion of polycyclic pigments Anthony Gilbert, Lubrizol	8.3 Improving water resistance of acrylic emulsions using reactive surfactants Fabricio Pereira, Indorama Ventures
10:00 - 11:00 am	Coffee	Break	
11:00 - 11:30 am	11:00 - 11:30 am	11:00 - 11:30 am	11:00 - 11:30 am
5.4 Novel hybrid polymer with multifunctional coating attributes Tirthankar Jana, Berger Paints India	6.4 Investigating the link between lab and real-world grain cracking of paints Xin Li, BASF	7.4 Future trends of DOT state specs to include high-performance coatings Don Lawson,	8.4 Waterborne, energy curable soft-feel coatings Jonathan Shaw, allnex USA
		AGC Chemicals Americas	
11:30 am - 12:00 pm	11:30 am - 12:00 pm	11:30 am - 12:00 pm	11:30 am - 12:00 pm
11:30 am - 12:00 pm 5.5 Eco-friendly, formaldehyde and solvent-free flame retardant for direct application Kiehnel Michael, Pyrex Industries GmbH (BCH North America)	11:30 am - 12:00 pm 6.5 Evaluating self-cleaning performance of exterior paints Daniel Fonseca, Dow		11:30 am - 12:00 pm 8.5 Why is MFFT not the coating formation temperature of latex paints? Artur Palasz, Spektrochem
5.5 Eco-friendly, formaldehyde and solvent-free flame retardant for direct application Kiehnel Michael, Pyrex Industries GmbH	6.5 Evaluating self-cleaning performance of exterior paints	11:30 am - 12:00 pm 7.5 Novel rheology booster for hydro- philic and hydrophobic fumed silica	8.5 Why is MFFT not the coating formation temperature of latex paints?

WEDNESDAY AFTERNOON

SESSION 9:

Functional Coatings 2

2:30 - 3:00 pm

9.1 Trends to go for sustainable coatings Andre van Linden, AkzoNobel

3:00 - 3:30 pm

9.2 Antibacterial and antifungal coatings and sealants Emma Wrigglesworth, Inhibit Coatings

3:30 - 4:00 pm

9.3 An investigation of solar reflectivity of exterior architectural coatings Ray Fernando, California Polytechnic State University

4:00 - 5:00 pm

5:00 - 5:30 pm

9.4 3D printing high-performance polymers and coatings Eugene Caldona (for Rigoberto Advincula), University of Tennessee and ORNL

5:30 - 6:00 pm

9.5 Vinyl esters-based intumescent paints: Enhancing performance and properties Christophe Steinbrecher, Hexion Research

6:00 - 6:30 pm

9.6 Energy-curable solutions for low-VOC dielectric EV-battery coatings Saeid Biria, Arkema-Sartomer BU

SESSION 10: Architectural Coatings 2

2:30 - 3:00 pm

10.1 Development of hygienic paint to meet EPA's residual efficacy requirement Chun Liu, Arxada

3:00 - 3:30 pm 10.2 Dispersants for silicate and high-pH paints Catherine Vitale, Münzing

3:30 - 4:00 pm 10.3 Innovative calcium carbonate for TiO₂ extension Dino Papagianidis, Omya

SCHEDULE

May 1, 2024 | 2:30 - 6:30 pm

SESSION 12:

Waterborne Coatings 2

2:30 - 3:00 pm

12.1 Zero-VOC coalescing agents and their impact on paint surface properties Michael Praw, Indorama Ventures

3:00 - 3:30 pm

12.2 Low-VOC water-based formulations: How to improve the abrasion resistance Stephanie Vanslambrouck, EMCO-Inortech

3:30 - 4:00 pm

12.3 Solvent-borne to waterborne: A new hydroxyl functional resin for topcoats Chandra Pandy, Lubrizol

Coffee Break

10.4 Building performance exterior acrylics to master regulatory challenges Mary Chervenak, Arkema

5:30 - 6:00 pm

5:00 - 5:30 pm

10.5 Novel Bi-Modal, High Solid Polymer Dispersions for Architectural Coatings Michael Krayer, BASF

6:00 - 6:30 pm

10.6 Incorporation of nonionic reactive surfactants and emulsion stability Bruno Dario, Indorama Ventures

5:00 - 5:30 pm

SESSION 11:

2:30 - 3:00 pm

release coatings

Joseph Dahlgren,

3:00 - 3:30 pm

3:30 - 4:00 pm

Jeffrey Arendt, Arkema

coatings

Protective Coatings 1

11.1 Comparison of amphiphilic

zwitterionic polymers for fouling-

North Dakota State University

11.2 Hydrophobic polymers for

Denis Heymans, Hexion Research

11.3 Improving the sustainability of

high-performance water-based DTM

silane curing, isocyanate-free protective topcoats

11.4 Innovative calcium silicate anticorrosion pigment for protective coatings Bin Cao, Evonik

5:30 - 6:00 pm

11.5 Si-based binders: transforming the market for industrial thermal insulation Jenafer Duley, Dow

6:00 - 6:30 pm

11.6 UV-curable sol-gel hybrid coatings for advanced and sustainable applications Vjaykumar Mannari, Eastern Michigan University

5:00 - 5:30 pm

12.4 New developments in emulsion & dispersion stability analysis and shelf-life Daniel Scholz, DataPhysics Instruments

5:30 - 6:00 pm

12.5 Polycaprolactone polyols designed for polyurethane dispersions Chuck Jones, Ingevity

6:00 - 6:30 pm

12.6 Fibrillated cellulose improves physical property and rheology of roof coating Qi Wang, Sappi



SESSION 13:	SESSION 14:	SESSION 15:	SESSION 16:
Bio-based Materials	Service-Life Prediction and Durability	Protective Coatings 2	Digitalization and Big Data
8:30 - 9:00 am	8:30 - 9:00 am	8:30 - 9:00 am	8:30 - 9:00 am
13.1 Synthesis of novel bisphenol-A-free sustainable epoxy resins for coatings Ayowale Soyemi, Eastern Michigan University	14.1 Hierarchical service-life prediction models for the design of new coatings Erik Sapper, California Polytechnic State University	15.1 Graphene-filled abrasion- resistant coatings and their characterization Xiaoning Qi, North Dakota State University	16.1 Exterior exposure performance investigation through the lens of big data Yujie Lu, Dow
9:00 - 9:30 am	9:00 - 9:30 am	9:00 - 9:30 am	9:00 - 9:30 am
13.2 Enhancing 2k PU coating formulations using bio-based polyols Wolfgang Geuking, Cargill	14.2 Damage accumulation and combined stressor matching in accelerated UV testing Cameron Causey, California Polytechnic State University	15.2 ULE epoxy protective coatings – A perfect cure for adverse conditions Raghuraman Govindan Karunakaran, Evonik	16.2 From visual to digital: Color release for pearlescent pigments Thomas Rentschler, EMD Electronics
9:30 - 10:00 am	9:30 - 10:00 am	9:30 - 10:00 am	9:30 - 10:00 am
13.3 Sustainable revolution in paints: Bio-based surfactants as high-performance additives Laura Benavides, Integrity Biochem	14.3 Exploring graphene and related nanomaterials as multifunctional additives Lynn Chikosha, Universal Matter	15.3 Bio-based high-solids polyamide polyols for protective coatings Milena Garay-Tovar, Lubrizol	16.3 Digital testing and measurement technologies for coating application Ludger Wahlers, Erichsen

10:00 - 11:00 am	Coffee Break			
11:00 - 11:30 am	11:00 - 11:30 am	11:00 - 11:30 am	11:00 - 11:30 am	
13.4 Impacts of rosin in alkyds from vegetable oil fatty acids Eric Kiturkes, Ingevity	14.4 Novel polyester-based resin shows extreme weatherability for asset protection	15.4 Co-blending for reduced carbon burden anti-corrosion coatings	16.4 Accelerating new additive development through the use of automation	
	James Horne, Eastman	Patrick Dodds, Hexigone Inhibitors	Ingrid Meier, Evonik	
11:30 am - 12:00 pm	11:30 am - 12:00 pm	11:30 am - 12:00 pm	11:30 am - 12:00 pm	
13.5 Formulating bio-based polyols for low-VOC, solvent-borne protective coatings Kyle Flack, BASF	14.5 Long-term UV exposure testing & aesthetics of powder coating topcoats Connie Przeslawski, AGC Chemicals Americas	15.5 Silane modified colloidal silica in waterborne PUD coatings for steel Peter Greenwood, Nouryon	16.5 Digital transformation in the coatings industry Sam Lim, Dow	
12:00 - 12:30 pm	12:00 - 12:30 pm	12:00 - 12:30 pm	12:00 - 12:30 pm	
13.6 Alkyd/acrylic hybrid latexes for use in waterborne wood coatings Richard Flecksteiner, Synthomer	14.6 Superhydrophobic coatings and filters: High durability and nanocompsites	15.6 Waterborne silicone copolymer binders for industrial coatings Amithophe Mitre	16.6 Artificial intelligence in paint production Ralph J. Woerheide, Metromation	

For the most up-to-date information about the ACC 2024 program, visit www.american-coatings-show.com.

End of Conference

Eugene Caldona (for Rigoberto Advincula),

University of Tennessee and ORNL

Amithabha Mitra,

Wacker Chemicals