PROGRAM

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

Tuesday Afternoon

SCHEDULE

April 30, 2024 | 1:30 – 5:00 pm

	SESSION 1: Measurement & Testing	SESSION 2: Epoxy Coatings	SESSION 3: Industrial Coatings 1	SESSION 4: Wood Coatings
1:30 – 2:00 pm	1.1 Detecting the mass of pigment particles – toward a universal size standard Jörg Wieder, femtoG	2.1 Triaminononane and BHMT as curatives for high-performance epoxy coatings Karana Shah, Ascend Performance Materials	3.1 Low-VOC, solvent-free resin development for UV/EB cured coil coatings Elaine Ruiz, Arkema	4.1 Hydrophobic polymers for highly durable wood coatings Dan Vanaken, Hexion Research
2:00 – 2:30 pm	1.2 Transmittance technique for adjusting properties in the paint industry Ernani Paludo, RMA Tech	2.2 Epoxy curing agents for superior chemical resistance in harsh environments Sudhir Ananthachar, Evonik	3.2 Pathway toward self-healing latexes Mark Soucek, University of Akron	4.2 Low-VOC, TEA-free high solids PUDs for wood Israel Skoff, Lubrizol
2:30 – 3:00 pm	1.3 Improving scratch resistance and durability of deep matte plastic coatings Jim Reader, Evonik	2.3 Sustainable CNSL-based epoxy modifiers for high-performance coatings Hong Xu, Cardolite	3.3 Comparing metal-based driers in the aerobic curing of alkyd-based coatings Martin Klussmann, Borchers	4.3 Design of new aqueous acrylic resins for coating and staining wood Christian Ruud, PPG
3:00 – 3:30 pm	Coffee Break			
3:30 – 4:00 pm	1.4 Weathering of Coatings – new developments in international standardization Oscar Cordo, Atlas Material Testing Technology	2.4 Novel fast reacting epoxy for industrial protective coatings application Yong Zhang, Huntsman	3.4 Waterborne silicone resin for high temperature resistant coatings Paula Cousino, Momentive Performance Materials	4.4 Hydrophobic wood coatings utilizing organic-inorganic hybrid technology Tahereh Hayeri, Eastern Michigan University
4:00 – 4:30 pm	1.5 Quantitative image analysis of roller application performance Sunny Wang, Dow	2.5 Innovative system for UV-resistance in epoxy coatings Sarah Dotzler, Cargill	3.5 Novel formaldehyde-free and melamine-free resin for stoving coatings Robert Ober, BASF	4.5 Novel acrylic emulsion for matte coatings without matting agents Senthil Kumar Rengasamy, BASF
4:30 – 5:00 pm	1.6 Battery production: Automated quality assurance along the entire line Jörg Mülleneisen, Optisense	2.6 Coupling agent evolution: Heteroleptic cages Joseph Lichtenhan, Hybrid Plastics	3.6 Novel resins and formulation approaches for challenging regulations Gautam Haldankar, allnex	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.

FUNRUN

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

SCHEDULE

May 1, 2024 | 8:30 am – 12:30 pm

SESSION 5: Functional Coatings 1

8:30 – 9:00 am

5.1 Fluorine-free, dynamically oleophobic polymer coating
Marshall Ming, Georgia Southern University

9:00 – 9:30 am

5.2 Novel additives for abrasion resistance in polymer coatings
Ryan Khawarizmi, PPG

9:30 – 10:00 am

5.3 Fabrication of amphiphilic coatings for robust anti-icing surfaces
Tong Li, North Dakota State University

11:00 – 11:30 am

5.4 Novel hybrid polymer with multifunctional coating attributes
Tirthankar Jana, Berger Paints India

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)

12:00 – 12:30 pm

5.6 The anti-soiling coating for increasing energy efficiency in solar panels
Arezoo Assarian, Eninco Engineering

SESSION 6: Architectural Coatings 1

8:30 – 9:00 am

6.1 Effects of siloxane and silica additives on dirt pickup resistance
Meixi Chen, Evonik

9:00 – 9:30 am

6.2 1K permanent anti-graffiti coatings for architectural surfaces
Forough Zarean, Wacker Chemical

9:30 – 10:00 am

6.3 Advances in 1K PVDF/acrylic hybrid dispersion and its applications
Wei Wang, Arkema

11:00 – 11:30 am

6.4 Investigating the link between lab and real-world grain cracking of paints
Xin Li, BASF

11:30 am – 12:00 pm

6.5 Evaluating self-cleaning performance of exterior paints
Daniel Fonseca, Dow

12:00 – 12:30 pm

6.6 High performance UV stabilizer system for water-based coating
Ravi Ravichandran, Amindon

SESSION 7: Industrial Coatings 2

8:30 – 9:00 am

7.1 Painting with pollution: Polyols from waste CO_2 for use in PU-based coatings
Richard Stevenson, Econic Technologies

9:00 – 9:30 am

7.2 Functional additives for hot block and performance in waterborne coatings
Brian Vest, Syensqo

9:30 – 10:00 am

7.3 Novel polymeric dispersants for improved dispersion of polycyclic pigments
Anthony Gilbert, Lubrizol

11:00 – 11:30 am

7.4 Future trends of DOT state specs to include high-performance coatings
Don Lawson, AGC Chemicals Americas

11:30 am – 12:00 pm

7.5 Novel rheology booster for hydrophilic and hydrophobic fumed silica
Francisco Cortes Baledon, Evonik

12:00 – 12:30 pm

7.6 PU coating from palm olein/recycled PET polyol as inhibitor
Abbas Ahmad Adamu, Hussaini Adamu Federal Polytechnic

SESSION 8: Waterborne Coatings 1

8:30 – 9:00 am

8.1 Water resistance of polyacrylic films using polymerizable surfactant
Celine Burel, Synsqo

9:00 – 9:30 am

8.2 Balancing open time and rain resistance with diffusing wave spectroscopy and conventional application tests
Kaliappa Ragunathan, BASF

9:30 – 10:00 am

8.3 Improving water resistance of acrylic emulsions using reactive surfactants
Fabricio Pereira, Indorama Ventures

11:00 – 11:30 am

8.4 Waterborne, energy curable soft-feel coatings
Jonathan Shaw, allnex USA

11:30 am – 12:00 pm

8.5 Why is MFFT not the coating formation temperature of latex paints?
Artur Palasz, Spektrochem

12:00 – 12:30 pm

8.6 Low-MFFT acrylic copolymer for removable floor finishes and enhanced durability
Jena Johngrass, Synthomer

10:00 – 11:00 am Coffee Break

12:30 – 2:30 pm Networking Lunch on the Show Floor

Wednesday Afternoon

SCHEDULE
May 1, 2024 | 2:30 – 6:30 pm

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

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 TiO_2 extension
Dino Papagianidis, Omya

5:00 – 5:30 pm
10.4 Building performance exterior acrylics to master regulatory challenges
Mary Chervenak, Arkema

5:30 – 6:00 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

SESSION 11: Protective Coatings 1

2:30 – 3:00 pm
11.1 Comparison of amphiphilic zwitterionic polymers for fouling-release coatings
Joseph Dahlgren, North Dakota State University

3:00 – 3:30 pm
11.2 Hydrophobic polymers for silane curing, isocyanate-free protective topcoats
Denis Heymans, Hexion Research

3:30 – 4:00 pm
11.3 Improving the sustainability of high-performance water-based DTM coatings
Jeffrey Arendt, Arkema

5:00 – 5:30 pm
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

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

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

4:00 – 5:00 pm Coffee Break

Thursday Morning

SCHEDULE

May 2, 2024 | 8:30 am – 12:30 pm

SESSION 13:

Bio-based Materials

8:30 – 9:00 am

13.1 Synthesis of novel bisphenol-A-free sustainable epoxy resins for coatings

Ayowale Soyemi, Eastern Michigan University

9:00 – 9:30 am

13.2 Enhancing 2k PU coating formulations using bio-based polyols

Wolfgang Geuking, Cargill

9:30 – 10:00 am

13.3 Sustainable revolution in paints: Bio-based surfactants as high-performance additives

Laura Benavides, Integrity Biochem

11:00 – 11:30 am

13.4 Impacts of rosin in alkyds from vegetable oil fatty acids

Eric Kiturkes, Ingevity

11:30 am – 12:00 pm

13.5 Formulating bio-based polyols for low-VOC, solvent-borne protective coatings

Kyle Flack, BASF

12:00 – 12:30 pm

13.6 Alkyd/acrylic hybrid latexes for use in waterborne wood coatings

Richard Flecksteiner, Synthomer

SESSION 14:

Service-Life Prediction and Durability

8:30 – 9:00 am

14.1 Hierarchical service-life prediction models for the design of new coatings

Erik Sapper, California Polytechnic State University

9:00 – 9:30 am

14.2 Damage accumulation and combined stressor matching in accelerated UV testing

Cameron Causey, California Polytechnic State University

9:30 – 10:00 am

14.3 Exploring graphene and related nanomaterials as multifunctional additives

Lynn Chikosha, Universal Matter

11:00 – 11:30 am

14.4 Novel polyester-based resin shows extreme weatherability for asset protection

James Horne, Eastman

11:30 am – 12:00 pm

14.5 Long-term UV exposure testing & aesthetics of powder coating topcoats

Connie Przeslawski, AGC Chemicals Americas

12:00 – 12:30 pm

14.6 Superhydrophobic coatings and filters: High durability and nanocompsites

Eugene Caldona (for Rigoberto Advincula), University of Tennessee and ORNL

SESSION 15:

Protective Coatings 2

8:30 – 9:00 am

15.1 Graphene-filled abrasion-resistant coatings and their characterization

Louis Sudeep, North Dakota State University

9:00 – 9:30 am

15.2 ULE epoxy protective coatings – A perfect cure for adverse conditions

Raghuraman Govindan Karunakaran, Evonik

9:30 – 10:00 am

15.3 Bio-based high-solids polyamide polyols for protective coatings

Milena Garay-Tovar, Lubrizol

11:00 – 11:30 am

15.4 Co-blending for reduced carbon burden anti-corrosion coatings

Patrick Dodds, Hexigone Inhibitors

11:30 am – 12:00 pm

15.5 Silane modified colloidal silica in waterborne PUD coatings for steel

Peter Greenwood, Nouryon

12:00 – 12:30 pm

15.6 Waterborne silicone copolymer binders for industrial coatings

Amithabha Mitra, Wacker Chemicals

SESSION 16:

Digitalization and Big Data

8:30 – 9:00 am

16.1 Exterior exposure performance investigation through the lens of big data

Yujie Lu, Dow

9:00 – 9:30 am

16.2 From visual to digital: Color release for pearlescent pigments

Thomas Rentschler, EMD Electronics

9:30 – 10:00 am

16.3 Digital testing and measurement technologies for coating application

Ludger Wahlers, Erichsen

11:00 – 11:30 am

16.4 Accelerating new additive development through the use of automation

Ingrid Meier, Evonik

11:30 am – 12:00 pm

16.5 Digital transformation in the coatings industry

Sam Lim, Dow

12:00 – 12:30 pm

16.6 Artificial intelligence in paint production

Ralph J. Woerheide, Metromation

10:00 – 11:00 am Coffee Break

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

12:30 pm End of Conference