Tuesday Afternoon

**SESSION 1:**
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, RMA Tech

2:30 – 3:00 pm
1.3 Improving scratch resistance and durability of deep matte plastic coatings
   Jim Reader, Evonik

3:30 – 4:00 pm
1.4 Weathering of Coatings – new developments in international standardization
   Oscar Cordo, Atlas Material Testing Technology

**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

3:30 – 4:00 pm
2.4 Novel fast reacting epoxy for industrial protective coatings application
   Yong Zhang, Huntsman

3:30 – 4:00 pm
2.5 Innovative system for UV-resistance in epoxy coatings
   Sarah Dotzler, Cargill

3:30 – 4:00 pm
2.6 Coupling agent evolution: Heteroleptic cages
   Joseph Lichtenhan, Hybrid Plastics

**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

3:30 – 4:00 pm
3.4 Waterborne silicone resin for high temperature resistant coatings
   Paula Cousino, Momentive Performance Materials

3:30 – 4:00 pm
3.5 Novel formaldehyde-free and melamine-free resin for stoving coatings
   Robert Ober, BASF

3:30 – 4:00 pm
3.6 Novel resins and formulation approaches for challenging regulations
   Gautam Haldankar, alnnex

**SESSION 4:**
Wood Coatings
1:30 – 2:00 pm
4.1 Hydrophobic polymers for highly durable wood coatings
   Dan Vanaken, Hexion Research

2:00 – 2:30 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

3:30 – 4:00 pm
4.4 Hydrophobic wood coatings utilizing organic-inorganic hybrid technology
   Tahereh Hayeri, Eastern Michigan University

3:30 – 4:00 pm
4.5 Novel acrylic emulsion for matte coatings without matting agents
   Senthil Kumar Rengasamy, BASF

3:30 – 4:00 pm
4.6 New bio-based versatile binder for architectural coatings
   Latoska Price, Synthomer

Coffee Break
### 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

### 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

### SESSION 7: Industrial Coatings 2

**8:30 – 9:00 am**

7.1 Painting with pollution: Polylols from waste CO2 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, Synsqqo

**9:30 – 10:00 am**

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

### SESSION 8: Waterborne Coatings 1

**8:30 – 9:00 am**

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

**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

### Wednesday Evening

**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.

**Tuesday Evening**

April 30, 2024 | 5:00 – 6:30 pm

**Wednesday Morning**

May 1, 2024 | 8:30 am – 12:30 pm

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Fabricio Pereira, Indorama Ventures

**10:00 – 11:00 am**

Coffee Break

**11:00 – 11:30 am**

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

**11:00 – 11:30 am**

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

**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**

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**

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

**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**

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

**12:00 – 12:30 pm**

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

**12:00 – 12:30 pm**

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

**12:00 – 12:30 pm**

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

**12:30 – 2:30 pm**

Networking Lunch on the Show Floor
|--------------|---------------------------------|-------------------------------------|----------------------------------|----------------------------------|
| 2:30 – 3:00 pm | 9.1 Trends to go for sustainable coatings  
Andre van Linden, AkzoNobel | 10.1 Development of hygienic paint to meet EPA's residual efficacy requirement  
Chun Liu, Arxada | 11.1 Comparison of amphiphilic zwitterionic polymers for fouling-release coatings  
Joseph Dahlgren, North Dakota State University | 12.1 Zero-VOC coalescing agents and their impact on paint surface properties  
Michael Praw, Indorama Ventures |
| 3:00 – 3:30 pm | 9.2 Antibacterial and antifungal coatings and sealants  
Emma Wrigglesworth, Inhibit Coatings | 10.2 Dispersants for silicate and high-pH paints  
Catherine Vitale, Münzing | 11.2 Hydrophobic polymers for silane curing, isocyanate-free protective topcoats  
Denis Heymans, Hexion Research | 12.2 Low-VOC water-based formulations: How to improve the abrasion resistance  
Stephanie Vanslambrouck, EMCO-Inotech |
| 3:30 – 4:00 pm | 9.3 An investigation of solar reflectivity of exterior architectural coatings  
Ray Fernando, California Polytechnic State University | 10.3 Innovative calcium carbonate for TiO2 extension  
Dino Papagianidis, Omya | 11.3 Improving the sustainability of high-performance water-based DTM coatings  
Jeffrey Arendt, Arkema | 12.3 Solvent-borne to waterborne: A new hydroxyl functional resin for topcoats  
Chandra Pandy, Lubrizol |
| 4:00 – 5:00 pm |  |  |  | Coffee Break |
| 5:00 – 5:30 pm | 9.4 3D printing high-performance polymers and coatings  
Eugene Caldona (for Rigoberto Advincula), University of Tennessee and ORNL | 10.4 Building performance exterior acrylics to master regulatory challenges  
Mary Chervenak, Arkema | 11.4 Innovative calcium silicate anticorrosion pigment for protective coatings  
Bin Cao, Evonik | 12.4 New developments in emulsion & dispersion stability analysis and shelf-life  
Daniel Scholz, DataPhysics Instruments |
| 5:30 – 6:00 pm | 9.5 Vinyl esters-based intumescent paints: Enhancing performance and properties  
Christophe Steinbrecher, Hexion Research | 10.5 Novel Bi-Modal, High Solid Polymer Dispersions for Architectural Coatings  
Michael Krayzer, BASF | 11.5 Si-based binders: transforming the market for industrial thermal insulation  
Jenafer Duley, Dow | 12.5 Polycaprolactone polyols designed for polyurethane dispersions  
Chuck Jones, Ingevity |
| 6:00 – 6:30 pm | 9.6 Energy-curable solutions for low VOC dielectric EV-battery coatings  
Saeid Biria, Arkema-Sartomer BU | 10.6 Incorporation of nonionic reactive surfactants and emulsion stability  
Bruno Dario, Indorama Ventures | 11.6 UV-curable sol-gel hybrid coatings for advanced and sustainable applications  
Vjaykumar Mannani, Eastern Michigan University | 12.6 Fibrillated cellulose improves physical property and rheology of roof coating  
Qi Wang, Sappi |
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

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

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
Raghu Govindan Karunakaran, Evonik

9:30 – 10:00 am
15.3 Bio-based high solids polyamide polyols for polyurethane coatings
Milena Garay-Tovar, Lubrizol

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

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