## 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

### 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

### Coffee Break
3:00 – 3:30 pm

### 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

### SESSION 4: Wood Coatings
1:30 – 2:00 pm
4.1 Hydrophobic polymers for highly durable wood coatings
   Denis Heymans, Hexion Research

2:00 – 2:30 pm
4.2 Low-VOC, TEA-free high solids PUDs for wood
   Hellena Dranitsin, Lubrizol

2:30 – 3:00 pm
4.3 Effect of UV light stabilizers on coating properties and weatherability
   Christian Ruud, PPG
### 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: Polyols from waste CO₂ for use in PU-based coatings
Richard Stevenson, Econic Technologies

9:00 – 9:30 am

7.2 Moving toward PFAS alternatives in coatings
Gozde Karabiyik, Wacker Chemical

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, Solvay

9:00 – 9:30 am

8.2 Improving scuff, mar and scratch resistance in architectural coatings
Victoria Diez, BASF

9:30 – 10:00 am

8.3 Improving water resistance of acrylic emulsions using reactive surfactants
Juliane Santos, Indorama Ventures

### Session 5: Functional Coatings 1

10:00 – 11:00 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
Phil Hagerty, AGC Chemicals Americas

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

11:30 am – 12:00 pm

5.5 Lead-free piezoelectric smart coatings for energy harvesting applications
Kabir Baidya, Indian Institute of Engineering Science and Technology

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

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

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

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

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

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

### Wednesday Morning Schedule

8:30 am – 12:30 pm

12:30 – 2:30 pm

Networking Lunch on the Show Floor
### Functional Coatings 2

**SESSION 9:**

2:30 – 3:00 pm

9.1 Trends 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

### Architectural Coatings 2

**SESSION 10:**

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

4:00 – 5:00 pm

Coffee Break

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 Balancing open time and rain resistance with DWS and application test
- Kaliappa Ragunathan, BASF

6:00 – 6:30 pm

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

### Protective Coatings 1

**SESSION 11:**

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
- Jenifer Duley, Dow

6:00 – 6:30 pm

11.6 The effect of precursor chemistry on the performance of OIH coatings
- Fatemeh Fallah, Eastern Michigan University

### Waterborne Coatings 2

**SESSION 12:**

2:30 – 3:00 pm

12.1 Zero-VOC coalescing agents and their impact on paint surface properties
- Alann de O. P. Bragatto, Indorama Ventures

3:00 – 3:30 pm

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

3:30 – 4:00 pm

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

4:00 – 5:00 pm

Coffee Break

5:00 – 5:30 pm

12.4 New developments in emulsion & dispersion stability analysis and shelf-life
- Paul Simutis, 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
- Gabriel Ferrante, Sappi
Thursday Morning

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 dispersants
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 Weathering of coatings – New developments in international standardization
Oscar Cordo, Atlas Material Testing Technology
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
Xiaoning Qi, North Dakota State University
9:00 – 9:30 am
15.2 ULE epoxy protective coatings – A perfect cure for adverse conditions
Raghuraman Govindan Karunanakaran, Evonik
9:30 – 10:00 am
15.3 Bio-based high-solids polyamide polyols for protective 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, Merck Electronics
9:30 – 10:00 am
16.3 Digital testing and measurement technologies for coating application
Ludger Wahlers, Erichsen

Coffee Break
11:00 – 11:30 am
11.4 Novel polyester-based resin shows extreme weatherability for asset protection
James Horne, Eastman
11.5 Long term UV exposure testing & aesthetics of powder coating topcoats
Connie Przeslawski, AGC Chemicals Americas
11.6 Superhydrophobic coatings and filters: High durability and nanocomposites
Rigoberto Advincula, University of Tennessee and ORNL
11.7 Anti-corrosion properties of nano graphene/zinc cold galvanizing coatings
Muhammad Abid, Marjan Polymer Industries

End of Conference