Tuesday Afternoon

SESSION 1:
Science Today, Coatings Tomorrow

1:30 – 2:00 pm
1.1 Watching paint dry: Optical measurement of evolving rheology and microstructure during drying James Gilchrist, Lehigh University

2:00 – 2:30 pm
1.2 Waterborne non-isocyanate polyurethane epoxy hybrid coating Qixin Zhou, The University of Akron

2:30 – 3:00 pm
1.3 Latex resins based on plant oils Andriy Voronov, North Dakota State University

SESSION 2:
Sustainability

1:30 – 2:00 pm
2.1 Recycled windshields: PVB dispersions as sustainable binders in low-to-zero VOC paints Andrew Zudans, Shark Solutions

2:00 – 2:30 pm
2.2 The use of levulinates as coalescing agents in water-based coatings Steve Block, NXTLEVEL Biochem

2:30 – 3:00 pm
2.3 Lignin as a raw material for production of biobased resins Mojgan Nejad, Michigan State University

SESSION 3:
Measuring and Testing

1:30 – 2:00 pm
3.1 Innovative solution to optimize coatings curing Yassin Nagazi, Formulation

2:00 – 2:30 pm
3.2 The determination of polyquaternium-4 on PET film using pyrolysis-GC/MS (Py-GC/MS) Athena Nguyen, Frontier Lab America

2:30 – 3:00 pm
3.3 Non-isocyanate Polyurethanes: Advancing applications by leveraging cure chemistry Vijay Mannari, Eastern Michigan University

SESSION 4:
Automotive Coatings

1:30 – 2:00 pm
4.1 Novel surface additive for crater prevention and improved recoat Brent Laurenti, BYK

2:00 – 2:30 pm
4.2 Reactable, non-migrating, and non-basic hindered amine light stabilizer for coatings Ravi Ravichandran, Rianlon

2:30 – 3:00 pm
4.3 Learning from swarms: mini sensors for measuring coating thickness in an industrial environment Georg Nelke, OptiSense

3:30 – 4:00 pm
4.4 Radar and LIDAR-suitable car paints – the view of a pigment manufacturer Adalbert Huber, Schlenk Metallic Pigments
**Wednesday Morning**

**SESSION 5:**

**Functional Coatings 1**

8:30 – 9:00 am

5.1 Creating functional coatings with formaldehyde-scavenging additives
Mark Langille, Angus Chemical Company

9:00 – 9:30 am

5.2 Functional silicone additives for easy-to-clean coatings
Yogesh Tiwary, Momentive Performance Materials

9:30 – 10:00 am

5.3 Reactive spray-applied waterproofing coatings for confined space applications
David Cozzens, GCP Applied Technologies

**SESSION 6:**

**Architectural Coatings 1**

8:30 – 9:00 am

6.1 Novel reactive surfactants for latex emulsion polymerization
Julia Zaug, Stepan Company

9:00 – 9:30 am

6.2 Latex and thickener polarity effects on rheology & stability of latex-HEUR mixtures
Ray Fernando, California Polytechnic State University

9:30 – 10:00 am

6.3 Improving water resistance of water-based coatings using reactive surfactants
Juliane Santos, Oxiteno

**SESSION 7:**

**Epoxy Coatings**

8:30 – 9:00 am

7.1 Reactive epoxy emulsifier for high-performance waterborne epoxy coatings
Lichang Zhou, Solvay

9:00 – 9:30 am

7.2 Novel epoxy dispersions for futureproofing ultra-low VOC high performance coatings
Matthew Sumpter, Hexion

9:30 – 10:00 am

7.3 Improving epoxy durability while addressing light stabilizer additives challenges
Mouhcine Kanouni, Clariant Corporation

**SESSION 8:**

**Waterborne Coatings**

8:30 – 9:00 am

8.1 Alternatives to fluorosurfactants for waterbased floor care coatings
Tony Moy, BASF

9:00 – 9:30 am

8.2 Fluoro-free and silicone-free blocking resistance additives for waterborne coatings
Carolina Vargas, Stepan Company

9:30 – 10:00 am

8.3 Selecting an amino alcohol dispersant for waterborne industrial coatings
Mark Langille, Angus Chemical Company

10:00 – 11:00 am

Coffee Break

11:00 – 11:30 am

5.4 Evaluation of amino methyl propanol in high PVC, quick-drying acrylic coatings
Bobby Picker, Univar Solutions

6.4 Expand alkyd applications & durability with high-performance cobalt-free catalysts
Joshua Halstead, Milliken

7.4 Unique additives for high performance industrial protective coatings
Yong Zhang, Huntsman Corporation

8.4 Novel high performance OMU without aromatic moieties for wood flooring applications
Alexander Delgado, Polynik

11:30 am – 12:00 pm

5.5 Novel silicone hardener for eco-friendly heat-resistant coatings
Francisco Cortes Baledon, Evonik Corporation

6.5 Effect of different surfactants on emulsion polymerization of vinyl-acrylic latex
Bruno Dário, Oxiteno

7.5 Novel waterborne acrylic-epoxy hybrid coatings provide superior metal protection
Denise Lindemuth, Dow

8.5 Novel dispersing agents for high performance waterborne coatings
Cathy Cooper, Lubrizol Advanced Materials

12:00 – 12:30 pm

5.6 The use of single-walled carbon nanotubes in coatings colorants
Andrew Bartlett, Chromaflo Technologies

6.6 Develop formulation solution of an exterior paint with improved early rain resistance
Yujie Lu, Dow

7.6 Fast-cure amine technologies enable rapid return to service in floor coatings
Shiying Zheng, Evonik Corporation

8.6 DFT vs VOC and their impact on performance in waterborne DTM coatings
Tony Neely, BASF

12:30 – 2:30pm

Networking: Lunch on the Show Floor
### Wednesday Afternoon

#### SESSION 9: Functional Coatings 2
- **2:30 – 3:00 pm**
  - 9.1 Antimicrobial coating from soybean oil-based polyurethane dispersions
    Marshall Ming, Georgia Southern University
  - 9.2 Improved adhesion of silicone roof coatings to difficult membranes with novel silanes
    Letitia Luu, Evonik Corporation
  - 9.3 Selective and environmentally friendly removal of silyl-PU coatings from substrates
    Erick Iezzi, U.S. Naval Research Laboratory

#### SESSION 10: Architectural Coatings 2
- **2:30 – 3:00 pm**
  - 10.1 High-performance TiO$_2$-free roof coatings via novel hollow plastic microspheres
    Evan Montanez, Coadtech
  - 10.2 Formulation for high-gloss latex and comparison of lab and real-world performance
    Xin Li, BASF
  - 10.3 Improving application experience and applied hide for professional paints
    Sunny Wang, Dow Coating Materials

#### SESSION 11: Polyurethane Coatings
- **2:30 – 3:00 pm**
  - 11.1 Extremely low-VOC acrylic polyol technology for 2K WB high-performance concrete coating to TPO
    Karl Sundberg, allnex
  - 11.2 Novel polyisocyanates for flexibilizing polyurea coatings
    Marc Cornick, Vencorex
  - 11.3 Nonionic diols for hydrophilic modifications – impact of chain length
    Par Jørgensen, Perstorp

#### SESSION 12: Tools and Systems
- **2:30 – 3:00 pm**
  - 12.1 Service life prediction as a coating resin design trait
    Erik Sapper, California Polytechnic State University
  - 12.2 Improving the odds of success using a benign-by-design approach to product development
    Ingrid Meier, Evonik Corporation
  - 12.3 Novel formulation optimization using big data, modeling, and predictive tools
    Partha Majumdar, Dow Chemical Company

#### Networking: Coffee Break
- **4:00 – 5:00 pm**
  - 5.4 Amphiphilic self-stratified durable coatings for marine and anti-icing applications
    Alireza Rahimi, Applied Medical Technology
  - 5.5 Key considerations for functional antiviral paints
    Avantika Golas, Coming Incorporated
  - 5.6 Novel fumed silica composite drives high-performance for thermal insulation coatings
    Maria Nargiello, Evonik Corporation

#### Networking: Coffee Break
- **5:00 – 5:30 pm**
  - 5.7 A novel approach to tinting alkyls and stains with waterborne colorants
    Mark Ellsworth, EPS/CCA
  - 5.8 New advances in copper phthalocyanine blue 15:6 pigments in architectural coatings
    Nilanjan Chakrabarti, Sun Chemical Corporation
  - 5.9 Moisture curable silylated resin for use on multiple substrates
    Dean Kondos, Momentive Performance Materials

#### Networking: Coffee Break
- **5:30 – 6:00 pm**
  - 5.10 Demonstration and validation of isocyanate-free, siloxane-based aircraft topcoats
    Erick Iezzi, U.S. Naval Research Laboratory
  - 5.11 Leveraging the 2020 idea of the year to revolutionize your paint process
    Michael Bonner, Saint Clair Systems
  - 5.12 Paint recycling – sustainability through circular economy
    Sanjeev Bagaria, International Paint Recycling Organisation

#### Networking: Coffee Break
- **6:00 – 6:30 pm**
  - 6.1 Corrosion inhibiting pigments for cathodic protection
    Sanjeev Bagaria, International Paint Recycling Organisation
<table>
<thead>
<tr>
<th><strong>SESSION 13:</strong> Biobased Materials</th>
<th><strong>SESSION 14:</strong> Weathering and Corrosion Testing</th>
<th><strong>SESSION 15:</strong> Protective Coatings</th>
<th><strong>SESSION 16:</strong> Radiation Curing</th>
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<tbody>
<tr>
<td><strong>8:00 – 8:30 am</strong></td>
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<tr>
<td>13.1 Lignin-based waterborne polyurethane dispersion resin Saeid Nikafshar, Michigan State University</td>
<td>14.1 Evaluation of ASTM D7869-13 test method for premium architectural finishes-II Kurt Wood, Arkema</td>
<td>15.1 1-k and 2-k PVDF hybrid dispersions for stay-clean storage tank topcoats Wei Wang, Arkema</td>
<td>16.1 Achieving ultra-low gloss coatings through oligomer design and technology Marcus Hutchins, allnex</td>
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<td>13.2 Biomass derived coatings and adhesives using renewable, low-cost 1,5-pentanediol Lei Zheng, University of Massachusetts Amherst</td>
<td>14.2 Novel hybrid additives for exterior wood coatings Melanie Bauer, Michelman</td>
<td>15.2 Novel polyester-based resins as an alternative to fluoropolymer technologies Geoff Webster, Eastman Chemical Company</td>
<td>16.2 Energy efficient curing of cycloaliphatic epoxy coating systems Patrick Shipman, Achiewell</td>
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<td><strong>10:00 – 12:00 pm</strong></td>
<td><strong>End of Conference and Light Lunch on the Show Floor</strong></td>
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<td>13.4 Modification of hemicellulose with polymers based on acrylic plant oil-based monomers Yehor Polunin, North Dakota State University</td>
<td>14.4 Correlation of early chalking results to final results Michael Diebold, Chemours</td>
<td>14.5 Impact of processing conditions on the properties of high-performance powder systems Connie Przeslawski, AGC Chemicals Americas</td>
<td>16.4 Deep matte wood coatings with improved burnish resistance Hossein Riazi, Evonik Corporation</td>
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<td>13.5 Synthesis of bio-based polyols and their applications in industrial coatings Seyed Mojtaba Mirabedini, Eastern Michigan University</td>
<td>14.5 Additives to prevent coating defects caused by film dewetting Jim Reader, Evonik Corporation</td>
<td>15.5 One-part waterborne hybrid technology for improved concrete adhesion Lei Yang, Arkema</td>
<td>16.5 Waterborne UV PUD for wood and beyond Marcus Hutchins, allnex</td>
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For the most up-to-date information about the ACC 2022 program, visit [www.american-coatings-show.com](http://www.american-coatings-show.com).