US Biobased Coatings Summit 2019

Advancing the Transition Towards Biobased Materials in the Coatings Industry

13 & 14 November

Dallas, Texas

KEY TOPICS

- Navigating Through the Biobased Coatings Market
- Sourcing Biobased Coatings for the US Market
- Regulations & Policy Framing the Coatings Industry
- Recognising the Technology within the Biological Coatings Market and its Potential
- Exploring the Opportunities within Coatings Applications
- Developing a Truly Sustainable Approach to the Coatings Industry
- Advancing the Biobased Coatings Market
- Overcoming the Misconceptions Surrounding the Biobased Industry

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US Biobased Coatings Summit 2019

Dallas, Texas

13th & 14th November 2019

DAY 1

Wednesday 13th November 2019

08:00 REGISTRATION & COFFEE

09:00 CHAIR'S OPENING REMARKS

Huzaifa Matawala
Paint Recyclist

09:15 CONFERENCE PRESENTATION
Engineering Cellulose to Make a Wonder Material for Biobased Coatings

- The structure, property & functionality of Valida fibrillated cellulose
- Valida's superior rheological properties improve the anti-sagging & storage stability of coatings
- Valida boosts the opacity performance of TiO2 and facilitates the cost reduction
- Valida offers a possibility of reducing carbon footprint by replacing traditional binders & fillers with natural cellulose

Qi Wang
Manager, Technology Platform Development
Sappi North America

10:00 CONFERENCE PRESENTATION
Regulations & Policy Framing the Coatings Industry

- REACH & TSCA regulations and the effects they have on the coatings industry
- Revolutionising the coatings industry: Working towards improved sustainability through regulation

Heidi McAuliffe
Vice President, Goverment Affairs
American Coatings Association

10:45 MORNING REFRESHMENTS SPONSORED BY ALBERDINGK BOLEY

11:15 CONFERENCE PRESENTATION
Biobased cellulose esters for improved performance in release coatings

- Eastman cellulose ester as a sustainable, biobased polymer
- Fundamental structure-process-property relationship guided reformulation to achieve superior release coating performance
- Controlling cellulose ester composition and tailoring solvent package to enhance the compatibility of co-resins and reduce coating tackiness which results in improved release coating performance

Yichen Amy Fang
Advanced Application Scientist
Eastman Chemical Company

12:00 CONFERENCE PRESENTATION
Biobased Building Blocks for High Performance Green Coating Technologies

- Opportunities, challenges and approaches to biobased high performance coatings
- Case study 1: Biobased building blocks for green wood stains
- Case study 2: Platform biobased building blocks for high performance coating resins
- Outlook to the near future

Zhigang Chen
Technical Director
Ingevity

12:45 LUNCH

13:45 CONFERENCE PRESENTATION
Plant-Based Renewable Latexes for Coatings Applications

- Synthesized range of vinyl monomers from plant/vegetable oils and polymerized in emulsion processes
- Small amounts of plant oil-based ingredients greatly plasticize and hydrophobize resulted latexes
- Crosslinking density of latex films can be adjusted by combining different oil-based monomers (unsaturation amount in the monomer
- Fully renewable latex polymers were developed

Andriy Voronov
Professor, Coatings & Polymeric Dpt.
North Dakota State University

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14:30 **CONFERENCE PRESENTATION**
Presentation title to be confirmed

Alamgir Karim
Director, Materials Engineering Program, Department of Chemical & Biomolecular Engineering
University of Houston

15:15 **AFTERNOON REFRESHMENTS**

CONFERENCE SESSION
Recognising the Technology within the Biological Coatings Market and its Potential

15:45 **New Technology for Converting Solvent-based Alkyds to Water-based Emulsions**

- It appears that this technology provides a simple process for the conversion of existing solventborne alkyds to waterborne products with low or no VOC
- The use of reactive surfactants improves coating water repellency, water resistance, adhesion, hardness, and gloss over non-reactive surfactant emulsions.
- No negatives in performance were noted with the reactive surfactants used

Charles Palmer
Technical Vice President
Ethox Chemicals

16:15 **Microfibrillated cellulose - novel biobased performance additive for waterborne formulations**

- Building the market for a novel biobased product (Exilva) – from an idea to a commercial scale production
- Life cycle assessment (LCA) of microfibrillated cellulose
- Physical fibril network providing unique rheological and mechanical properties
- Performance improvements on coatings with microfibrillated cellulose – power of the multifunctional additive

Otto Soidinsalo
Technical Application Manager
Borregaard

16:45 ***Presentation Title TBC***

Terri Carson
Technical Director
Alberdingk Boley

17:15 **Panel Q&A**

17:35 **CLOSE OF DAY ONE**

DAY 2

Thursday 14th November 2019

08:30 **REGISTRATION & COFFEE**

09:00 **CHAIR'S OPENING REMARKS**

Huzaifa Matawala
Paint Recyclist

09:05 **CONFERENCE PRESENTATION**
Polyamide 11: The Most Widely Used Bio-Based High-Performance Powder Coating

- How the market for bio-based materials has evolved over the 70 years that we have been selling this material
- How our bio-based coating compares to oil-based powder coating alternatives
- What markets and applications we serve with this powder coating

Robert Kaminsky
Technical Service Engineer
Arkema

09:50 **CONFERENCE PRESENTATION**
Overcoming Drying Limitations of Aqueous PHA Coating with Photonic Energy

- Potential Markets and Use of Aqueous PHA Coatings in Food Packaging
- Comparison of Photonic and Oven Cured PHA Coated Papers
- Comparison of Aqueous Biobased and Synthetic Coating Barrier Properties

Margaret Kehoe
Director of New Product Innovation
SNP Inc.

10:35 **MORNING REFRESHMENTS**

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11:05 CONFERENCE PRESENTATION
Maximum Sustainability

- Revolutionary work on the reformulating of coatings
- Reuasability of maximum items, preventing them from going to waste streams
- Savings in disposal costs with environmentally sustainable methods
- Opening avenues to industries, helping them collaborate and maximise sustainability

Huzaifa Matawala
Paint Recyclist

11:50 CONFERENCE PRESENTATION

Ramani Narayan
Distinguished Professor
Michigan State University

12:35 LUNCH

13:35 CONFERENCE SESSION
Advancing the Biobased Coatings Market

- Using product development and innovation to boost commercialisation of architectural, industrial and special purpose coatings
- Incorporating biobased feedstocks as a component of high performance coatings
- How to achieve ideal performance, cost and sustainability of biobased coatings
- Tackling the production cycle time to encourage the advance towards sustainability

Lloyd Nelson
Technical Director, Performance Chemicals
Kraton

Ryan Toomey
Professor, Department of Chemical and Biomedical Engineering
University of South Florida

14:50 CHAIR'S CLOSING REMARKS

Huzaifa Matawala
Paint Recyclist

15:00 END OF CONFERENCE & AFTERNOON REFRESHMENTS