FINAL PROGRAM
A Focus on NEW Innovations & Technologies

- Daily Program
- Educational Sessions
- Keynotes
- Speaker Bios
- Sponsors
- Schedule at a Glance
- And More!

HYATT REGENCY MIAMI
WELCOME
FROM THE ASC BOARD OF DIRECTORS & ASC STAFF
Welcome to the 2018 Spring Convention & EXPO. Should you need assistance during the convention, do not hesitate to ask one of the following:

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ASC would like to recognize the generous support of our sponsors! As you interact with them throughout the event, please personally thank them for their continued support of ASC and the industry.

2018 Spring Convention Sponsors

**GOLD LEVEL**

ExxonMobil
- EXPO Reception – Booth 312 & 314
- Hotel Keycards
- Business Development & Market Trends Education Session-Tuesday AM

Emerald Kalama Chemical
- Tuesday Membership Update and Award Ceremony Lunch

BYK Additives & Instruments
- Convention T-shirts

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- NEW Lanyard & Badge Kiosk
- Technical & Government Relations Education Session-Tuesday PM-NEW Custom Track

WACKER
- Attendee Tote Bags
- Digital Camera EXPO Raffle
  - Booth 718 & 720

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ASC Gives Back Community Service Project
- iPad EXPO Raffle — Booth 810 & 812

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- Apple Watch EXPO Raffle — Booth 319

Kolon
- Escalator Cling

Evans
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**BRONZE LEVEL**

iSiq
- Technical & Government Regulations Education Session-Tuesday AM

Ashland
- New Technology & Innovation/Application Education Session-Tuesday AM

ChemQuest
- Business Development & Market Trends Education Session-Tuesday PM

Jowat
- Technical & Government Relations Education Session-Tuesday PM

ChemQuest Institute
- New Technology Education Session-Wednesday AM

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- Technical & Government Relations Education Session-Wednesday PM

Dexco Polymers
- Technical & Government Relations Education Session-Wednesday PM

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- Convention App Sponsor

PetronaCanada
- Wednesday General Session Keynote & Breakfast

Westlake Chemical
- Coffee Lounges

Eastman
- Tuesday Opening General Session Breakfast & Keynote
General Convention Information

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Registration/Information Hours
Promenade, Terrace Level
Monday, April 23 6:00 a.m. – 6:30 p.m.
Tuesday, April 24 6:30 a.m. – 5:30 p.m.
Wednesday, April 25 6:30 a.m. – 3:00 p.m.

Speaker Ready Room
Azalea, Terrace Level
AVPG is the audio-visual needs provider. Speakers may prepare
for and/or make changes to their presentations in the Speaker
Ready Room. Check with the ASC staff at the Registration Desk if
audio/visual technicians are unavailable to assist you.

Program Planning Committee
Thanks to the following Program Committee volunteers
for another outstanding Program:

Jeff Dormish – Covestro LLC
Dale Haner – DHM Adhesives
Sharon Papke – Covestro LLC
David Speth – Evans Adhesives Corporation
Malinda Armstrong and Connie Howe – ASC Staff Advisors
Please recycle this program when done.

Convention App
Great for viewing session info, speaker bios, scheduling, networking, and viewing the attendee list. To download the App, visit your devices’ App Store and search “ASC Convention,” or stop by the ASC registration desk for assistance.

Coffee & Networking Lounges
Promenade, Terrace Level

Tuesday, April 24 and Wednesday, April 25
9:00 – 11:00 a.m. and 1:00 – 3:00 p.m.

Speaker Presentations Online*
In keeping with the ASC’s continuing efforts to make our events more environmentally friendly, hard copies of presentations will not be available. Speaker presentations will be made available to all Full Paid attendees on the ASC website following the convention.

*Not all presenters have authorized ASC to publish their presentations.

Please Welcome Our Newest 2018 Members*

- Adhesive Technology Corp (Manufacturer)
- Battaggion & Molteni USA (Supplier)
- Gehring-Montgomery (Supplier)
- Roda (Supplier)
- Tri-Tex Co, Inc (Manufacturer)

*as of March 8, 2018

Badges sponsored by:
Badges will be available for pick up at ASC’s new Express Pass Badge Kiosks.
Badges MUST be worn at all times during the event.
Monday, April 23

7:30 a.m. – 4:30 p.m.
HOT MELT SHORT COURSE
(registrants only)
Brickell, Terrace Level

7:30 a.m. – 3:50 p.m.
POLYURETHANE SHORT COURSE
(registrants only)
Jasmine, Terrace Level

8:00 a.m. – Noon
ASC BOARD OF DIRECTORS MEETING
Orchid CD, Terrace Level

12:30 p.m. – 4:00 p.m.
ASC ‘GIVES BACK’ PROGRAM

Join Kraton, ASC Board of Directors and staff as we give back to the Miami community. In partnership with Miami-Dade County Parks, Recreation and Open Spaces Department and the Parks Foundation of Miami-Dade, we will help with much needed sand dune restoration via plantings of sea oat plants and beach cleanup at the beautiful beaches of Crandon Park which was impacted by the storms that pounded Florida last year. The project will take place on Monday, April 23 from 12:30 to 4:00 p.m. Registered attendees should meet in the hotel lobby at Noon.

5:30 – 8:30 p.m.
MONDAY WELCOME RECEPTION
Riverwalk Terrace IV (backup Upper & Lower Promenade)

Join ASC and the Board of Director’s as we kick off the Annual Spring Convention & EXPO. Also, take this opportunity to meet our Innovation Award participants. PLEASE PICK UP YOUR BADGES FROM ASC REGISTRATION DESK PRIOR TO ARRIVING. Business casual attire.
Tuesday, April 24

7:30 – 9:00 a.m.
OPENING GENERAL SESSION BREAKFAST & KEYNOTE
Regency Ballroom, Terrace Level
The Art of Retaining, Developing and Recruiting Talent
Jim Larranaga, Head Men’s Basketball Coach, University of Miami

Finding talented, hardworking employees who will uphold the standards of your company is difficult. Coach Larranaga shares his tried-and-true methods for recruiting players and assistant coaches and for creating an environment that keeps them on the job. Larranaga tells audiences about his 8 C’s—character, competitiveness, competence, consistency, cohesiveness, commitment, communication and confidence—which are the foundation for selecting a winning staff and team and developing a championship-caliber program. Audiences will learn: how to develop a program that will elevate their organization’s performance to the highest level; where to find talented employees; and how to build a winning, dedicated staff.

7:30 a.m. – 1:00 p.m.
HOT MELT SHORT COURSE
(registrants only)
Brickell, Terrace Level

7:30 a.m. – 1:00 p.m.
POLYURETHANE SHORT COURSE
(registrants only)
Jasmine, Terrace Level
Tuesday Morning
Education Sessions
9:15 – 11:45 a.m.

Education Track 1:
Business Development and Market Trends

Key Feedstocks in A&S
Orchid CD, Terrace Level

sponsored by:

9:15 to 10:00 a.m.
Ethylene and Propylene Market Environment and Market Drivers
Jessie Waldheim, Market Reporter, ICIS
Taking a look at the ethylene market as it grows due to investments inspired by the US ethane advantage.

10:00 – 10:30 a.m.
Global Propylene – Surfing the Hurricane of Demand
Todd Dina, Executive Director-Global Olefine-Chemicals, IHS Markit
In recent years, the winds of the global economy whipped the propylene demand markets into a frenzy of activity. However, when global sentiment softened, the subsequent doldrums gave pause to investment decisions. Now the winds are returning to the global markets again potentially leaving the market fighting the undertow of insufficient supply. The question becomes one of where the investments will be made, and which processes are favored. This presentation will provide insight on how to read the currents facing the markets of today and tomorrow.

10:30 – 10:45 a.m.
BREAK

10:45 – 11:30 a.m.
Global Butadiene Markets Seem Headed Toward Calm Waters, Is That Really Possible?
Todd Dina, Executive Director-Global Olefine-Chemicals, IHS Markit
After what seems like a decade of difficult conditions, including unprecedented market disruption in late 2016 and early 2017, global butadiene markets seem to be entering a period of stability which will benefit both producers and consumers. Is that really possible? This presentation will include an analysis of the market dynamics that caused the difficult market environment. It will also look ahead to the key drivers of the more optimistic forecast base case. Most importantly, it will examine a number of forecast risks that could bring the return of more unsettled market conditions.
9:15 – 9:45 a.m.

New TSCA Enters the Terrible Twos: An Update on EPA’s Implementation of the Toxic Substances Control Act

Jamie Conrad, Owner, Conrad Law & Policy Council

It has been almost two years since Congress passed the Lautenberg Chemical Safety Act, making sweeping revisions to the 40-year old Toxic Substances Control Act. In some respects, EPA has made great progress, initiating a process to update the Inventory of existing chemicals and issuing rules for prioritizing and evaluating the risks of those chemicals. But it’s still unclear how EPA will decide which chemicals to start assessing, and EPA has not even proposed a rule yet on the fees its authorized to charge for reviewing new and existing chemicals. The new chemicals review process has cleared a backlog of submissions, but seems headed in a very conservative direction that could severely limit chemical innovation. This presentation will survey the current status of TSCA issues and provide general guidance on what to expect in — and how to navigate — the coming year.

9:45 – 10:15 a.m.

State Regulations Impacting the Adhesive & Sealant Industry: An Update from California

Maureen Gorsen, Partner, Alston & Bird

This presentation will cover the new priority products under CA green chemistry/safer consumer product rules, including methylene chloride in paint strippers, glues in carpets and resilient flooring, CARB VOC requirements, Prop 65, toxics in packaging, biodegradability and other California specific requirements

10:15 – 10:45 a.m.

BREAK

10:45 – 11:15 a.m.

Chemicals Management Trends for Retailers & Navigating Tools for Chemical Evaluation

Brett Howard, Director, Value Chain Outreach, American Chemistry Council & Michelle Orfei, Director, Value Chain Outreach, American Chemistry Council

In this session, our panel will discuss the rapidly changing landscape for retailers and chemical companies related to chemicals management policies and review triggers motivating shifts in the sector. This session will also cover chemical alternative assessment (AA) frameworks that can afford value chain stakeholders and opportunity to select a chemical or product holistically by applying multi-criteria decision analysis techniques to solve these issues. The session will highlight panelist findings regarding AA evaluations and the challenges that remain.
9:15 – 9:45 a.m.
Designing Adhesives for Cryogenic Applications in Microelectronics
Joseph Dennis, Research Scientist, IBM Research

From quantum computers to high resolution sensors, many micro-electronic devices require bonding dissimilar materials to operate under extreme operating temperatures and pressures. Furthermore, certain applications require large temperature cycles between ambient and cryogenic temperatures. The complex expansion and contraction of the various materials within the electronic package during temperature fluctuations introduces significant internal stresses that may ultimately result in fracture and loss of function of the device. Added to this complexity is the process sensitivity of the fabricated device to elevated temperatures and adhesive application. Under these constraints, several commercial epoxy adhesives were evaluated, and a characterization methodology was devised highlighting critical characteristics necessary for a successful material. As the application space matures, we see the need for a next generation of adhesives designed for the demanding and ubiquitous microelectronic devices.

9:45 – 10:15 a.m.
Reversible Multi-Material Bonded Joints: Challenges and Path Forward
Mahmoodul Haq, Assistant Professor, Michigan State University

Structural Joining of dissimilar materials, specifically metals-to-fiber reinforced composites is of interest to automotive industry to achieve their light-weighting goals. Reversible bonded joints, containing thermoplastic adhesives reinforced with conductive nano-particles that can be selectively heated to achieve bonding and dis-assembly have shown promise for dissimilar material joining applications. This talk will present the challenges associated with reversible adhesives and possible paths to explore the benefits offered by these adhesives.
10:15 – 10:45 a.m.  
BREAK

10:45 – 11:15 a.m.  
Using Modulus Data from Outdoor and SPHERE Exposures to Support Development of Design Life  
Chris White, Research Chemist, NIST/DOC  
The NIST SPHERE and outdoor exposure measurements will be used to produce a model of design life for a sealant using a series of ASTM standards and statistical methods. This design life estimate can be used in LCA/sustainability calculations.

11:15 – 11:45 a.m.  
Structured Composite Surfaces with Enhanced and Tunable Adhesion  
Kevin Turner, Gabel Family Associate Professor, University of Pennsylvania  
There has been significant interest in creating micro- and nano-structured surfaces that have adhesion that can be both strong and tunable. Much of the previous work has drawn inspiration from nature, such as the gecko, and developed surfaces consisting of fibrils with complex geometries to achieve the desired adhesion characteristics. While these bioinspired surfaces have been shown to have impressive adhesion characteristics, the complex geometries make difficult to manufacture in scalable processes. Here, we present a different approach to realize strong and tunable adhesion through the use of surfaces comprised of arrays of cylindrical composite fibrils with a stiff core and a compliant shell. The composite geometry alters the stress-state of the interface and leads to surfaces that have strong adhesion under normal loading and weak adhesion in shear. In this talk, the fabrication, experimental characterization, and mechanics modeling of surfaces consisting of composite pillars will be presented.

Noon – 1:00 p.m.  
MEMBERSHIP UPDATE, SCHOLARSHIP & TRAINING ACADEMY AWARDS LUNCH  
Regency Ballroom,  
Terrace Level

ASC Chair Chuck Williams,  
Global Technical Director of Avery Dennison and Bill Allmond, ASC President

Join Chair Chuck Williams of Avery Dennison and President Bill Allmond as they outline strategic initiatives supporting ASC member companies, including details about ASC’s newly-approved Long Range Plan. Recipients of ASC’s new Scholarship Program will be announced as well as recognitions for graduates of ASC’s Training Academy Certificate Program.

We will be presenting an ASC lifetime achievement award to William (Bill) Arendt for his substantial contributions to ASC for over 20+ years.
Tuesday Afternoon Education Sessions
1:15 – 3:15 p.m.

Education Track 1: Business Development and Market Trends
Market Data & Disruptive Technologies
Orchid CD, Terrace Level

1:15 to 1:45 p.m.
An Overview of the New ASC North American Market Report
Dan Murad, CEO, The ChemQuest Group
ASC in partnership with the ChemQuest Group has prepared the 2017-2020 North American Market Report. In ChemQuest’s 2018 Spring Convention presentation, Dan Murad will convey the market report’s value proposition to the ASC membership. ChemQuest’s quantitative analysis includes a breakdown of market sizes (volume in dry pounds and value in USD) by end market, by technology, and by geographic region (via an expanded table of contents) as well as a 2017-2020 overview of mega and macro trends & drivers, the competitive landscape and market dynamics. Also uncovered through in-depth qualitative interviews with end users are buying factors, use trends, unmet needs, switching factors and insights into competitive joining technologies.

1:45 to 2:15 p.m.
Digitalizing Growth: What Works in Chemicals and Materials?
James Weatherall, Global Vice President, SpecialChem S.A.
We will present our perspective on the digital trends impacting the chemical industry, including adhesives and coatings markets, and how one can explore digital levers to foster innovation and growth, especially in the key growth engines of R&D/innovation, and sales and marketing. We expect attendees to come away with perspectives on how to win by leveraging digital technologies to engage with new prospects, and to improve their new product development process by deploying more agile innovation methodologies.

2:15 to 2:45 p.m.
The Future of Manufacturing Innovation May Not Be What You Think
Adam Malofsky, Managing Director, Elemence
The desired transformations in manufacturing by most making things are not incremental but rather order of magnitude changes within the context of exploding choices and design options while dramatically reducing unit operations, costs and risk. Only when one starts here can real impact on a global scale occur. Adhesive chemistries have the unique opportunity to enable such transformation, but rarely do we see the focus there. Want to win big? Then start there and make it a long-term priority.
2:45 to 3:15 p.m.

From Obstacles to Opportunities: Navigating Two Decades of Biomaterials Innovation
Bill Suehr, Chief Operations Officer, NatureWorks

Back in 1989, NatureWorks began a journey to introduce and commercialize the first major plastic invention since the 1960’s. Two decades and 2 billion pounds of resin sales later, NatureWorks has seen success in introducing the new, disruptive, Ingeo thermoplastic into a market looking for not just ‘bio’ or ‘green’ solutions, but for materials with the capability to perform in complex, multi-faceted applications like coffee capsules or diapers. This presentation will share how NatureWorks has navigated the highs and lows of introducing new applications, manufacturing processes, and materials amidst ever changing market conditions while highlighting the recent introduction of their new Vercet lactide-based technology platform, which introduces all-new performance properties and opportunities to the adhesives market.

1:15 – 1:45 p.m.

Hygiene Market Trends and the Threat of Ultrasonic Bonding
Bryan Campion, Global Account Manager, Hygiene, H.B. Fuller Company

Consumer needs and preferences are changing the landscape in the nonwovens/hygiene market. In emerging markets the cost to use a disposable diaper or pad drives growth and in developed markets the product features drive share gains amongst the brands and producers. The competitive pressure is high and with that comes a need for our adhesive customers to address consumer trends in new ways while becoming more efficient in production. We’ll start this session off by reviewing the nonwovens/hygiene market trends the absorbent product producers are looking to satisfy and talk about how adhesives can contribute to the new product designs addressing those needs. Then we’ll pose the question – what threat does ultrasonic or thermal bonding pose to our industry in this market given these trends? Our panel of industry experts will then share their opinions on this very question.
1:45 – 2:15 p.m.
Pro’s and Con’s of Ultrasonic and Adhesive Bonding: A Material Supplier’s View
Jeff Middlesworth, Technical Manager, Berry Global
Bonding is a critical process for substrates in Hygiene applications. The industry uses a combination of hot melt adhesive and ultrasonic bonding technique to combine webs in most Hygiene applications. This presentation examines the advantages and disadvantages of these bonding technologies. We will examine the Hygiene converting processes and identify functions where one bonding process or the other excels. We will also review considerations for designing film or nonwoven webs for adhesive or ultrasonic bonding.

2:15 to 2:45 p.m.
Reduce Odor of Hot Melt Adhesives by Tackifier and Polymer Selection
Bing Yuan, Principle Application Scientist, Eastman Chemical Company
Odor is of increasing concern within the hygiene industry, primarily in the Baby Care and Adult Incontinence areas. Each material used in the construction of a hygiene product can contribute to the odor of the final article. Hot melt adhesives, with varying levels of tackifier resins, oils, and polymers are some of the materials that may contribute to the odor of a hygiene article. In our presentation, we will talk about suitable analytical and odor testing methods, and how this analysis is leading to new products.

2:45 to 3:15 p.m.
Addressing Hygiene Market Needs Through Hot Melt Adhesive Technology
Kevin Davis, Technical Manager – Global Hygiene Platform R&D, H.B. Fuller
The hygiene adhesive market has a diverse array of bonding requirements. Hot melt adhesives, due to their versatility and relatively low cost in use, are commonly used for hygiene applications. This talk will focus on how evolving trends in the hygiene market influence hot melt adhesive formulation strategy and how innovations in hot melt adhesive technology can enable new hygiene product design and manufacturing efficiencies. The relative merits of competing technologies, such as ultrasonic bonding, will also be discussed.
**Education Track 3: New Technology and Application**

**Migration in Food Packaging**

**Hibiscus A, Terrace Level**

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**1:15 to 1:45 p.m.**

**Food Contact Material Safety – A Brand Owner’s Perspective**

Stephen Klump, Global Head of Food Contact Material Safety, Nestle

The packaged food industry faces challenges to meet evolving safety concerns and regulations for food packaging. Many considerations are needed to transition to new materials across the supply chain, from the base chemicals to the finished packaging article. This presentation will outline concerns that are reviewed when determining what is acceptable for use in food packaging including adhesives.

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**1:45 to 2:15 p.m.**

**Migration of Adhesive Raw Materials into Food**

Michaela Hofbauer, Global Market Leader Adhesives, Eastman Chemical Company

Over the past years, more and more attention has been directed towards measuring and understanding the migration of contaminants from food packaging materials into food. Government agencies, players in the food packaging value chain, but also consumer organizations are striving to reduce the exposure of consumers to chemicals finding their way from packaging materials into the food they protect. As both food and packaging materials are very complex, it is critical to understand for all types if they contain potential migrants, whether these represent a risk to human health, and how they can be distinguished from other components of the overall packaging system. This presentation will discuss the challenges to detect and interpret migration caused by hot melt adhesive raw materials.

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**2:15 to 2:45 p.m.**

**European Union Food Contact Compliance and Migration Testing for Water-borne Acrylic Pressure-Sensitive Adhesives**

Joseph Binder, Associate Research Scientist, Dow Chemical Company

Labels for food contact applications are often manufactured with acrylic polymer-based pressure sensitive adhesives (PSAs). In many cases, these PSAs are applied as water-borne emulsions formulated with stabilizers, thickeners, biocides, and other additives. In the United States, PSAs for food contact are regulated under 21 CFR 175.105 (indirect food contact) and 21 CFR 175.125 (direct food contact). In the European Union (EU), Framework Regulation (EC) No. 1935/2004 defines the basic rules for all materials in contact with food, including adhesives. In addition to complying with Regulation 1935/2004, manufacturers of PSA labels are seeking to improve food safety.
by adopting regulations for food contact plastics (EU 10/2011 Plastics Regulation) in the absence of a specific regulation on adhesives. This presentation reviews the aspects of EU 10/2011 relevant to label PSAs, in particular migration testing procedures. Factors influencing migration performance of water-borne acrylic adhesives will also be discussed.

2:45 to 3:15 p.m.

**Functional Barriers - Testing and Predicting Barrier Properties of Polymer Layers**

Roland Franz, Head of Department Product Safety and Analytics, Fraunhofer-Institut

Certain polymers when used in multilayer structures or as mono-layers can act as efficient barriers against migration of organic chemicals from middle or outer layers including adhesives and printing inks as well as from secondary packaging materials. Testing the efficiency of such functional barriers (FB) by conventional migration tests for comparison of measured results with given specific migration limits (SML) or other toxicologically derived acceptable levels is very cumbersome, cost intensive and in many cases not possible at all. Knowledge of the intrinsic diffusion characteristics of a candidate FB polymer allows to predict chemical migration and estimation of exposure for any chemical substance under any application conditions including very long-term packaging-food contact. The presentation will give an overview how the underlying polymer diffusion parameters can be experimentally established and then used for migration prediction.
ASC EXPO AND RECEPTION
3:00 – 6:30 P.M.
Riverfront Hall, Lobby Level

The ASC EXPO represents a critical opportunity to help you stay at the forefront of innovation and competitiveness! This exclusive networking opportunity allows you to interact one-on-one with colleagues, exchange information on the latest developments in the industry, win some of the terrific prizes in the EXPO raffle and mingle during the reception, which begins at 5:00 p.m. For a complete list of exhibitors, see the 2018 Annual Spring EXPO Guide.

ASC EXPO Reception Sponsor:
ExxonMobil
— Booth 312 & 314

EXPO Raffle Prize Sponsors:
KRATON
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  Booth 810 & 812

WACKER
— Digital Camera
  Booth 718 & 720

VELSICOL CHEMICAL LLC
— Apple iWatch
  Booth 319

CONNECT WITH THE INDUSTRY!
Wednesday, April 25

7:30 – 9:00 a.m.

GENERAL SESSION
KEYNOTE BREAKFAST &
INNOVATION AWARDS
PRESENTATION

Regency Ballroom,
Terrace Level

Industry Outlook: Key Insights Driving the Future of Food Packaging

Michael Okoroafor, Vice President, Global Sustainability & Packaging Innovation, McCormick & Company, Inc.

In this keynote, thought leader Dr. Michael Okoroafor will share his insights on the packaging of the future. The presentation will address how sustainability imperative shapes the circular economy and the consumer desire for "packaging connectivity" enables future supply chains & eCommerce.

During the Innovation Awards Ceremony, ASC will recognize four companies that have made efforts to differentiate and make significant impacts in the marketplace. Be sure to join us as we congratulate the "2018 Innovation Award" recipients and runners up.

2018 ASC INNOVATION AWARDS

Sponsored by:

Learn more at www.lubricants.petro-canada.ca/puretol

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Wednesday Morning Education Sessions
9:15 – 11:45 a.m.

Education Track 1: Business Development and Market Trends
2018 Innovation Awards Finalists
Orchid CD, Terrace Level

9:15 – 9:45 a.m.
Second Runner Up Presentation

9:45 – 10:15 a.m.
First Runner Up Presentation

10:15 – 10:45 a.m.
BREAK

10:45 – 11:15 a.m.
Innovation Award Winner, Small Business Category Presentation

11:15 – 11:45 a.m.
Innovation Award Winner Presentation
Chemical companies are facing greater scrutiny because of several recent high profile incidents and OSHA’s chemical facilities national emphasis program. Companies often find themselves in OSHA’s crosshairs when they are unprepared for OSHA’s lengthy and detailed audits of their process safety management (PSM) programs. This inevitably results in numerous citations, high penalties, and adverse publicity. This presentation offers practical tips to prepare for PSM inspections before OSHA comes knocking on your door.

This presentation will provide an overview of the model building codes used in the United States, and describe the three step process that must be understood to ensure accurate occupancy classification: 1) Accurately determining the categories of hazardous materials that are used; 2) Properly classifying the use category of each hazardous material; and 3) Properly accounting for the quantity of each category of hazardous material within the facility. In addition, recent requirements that impact occupancy classification based on the use of combustible dust will be presented.

The manufacturing sector in the United States has enjoyed nearly a decade of sustained growth. Jobs have expanded and companies are choosing to locate operations in the U.S. This session will look at the macro trends in manufacturing over the last several years and the impact of those trends on the manufacturing workforce. It will review the challenges of recruiting and preparing individuals for careers in manufacturing and discuss solutions sponsored or promoted by the National Association of Manufacturers. Specific programs to be discussed include Manufacturing Day, military-to-manufacturing efforts, and earn and learn models like apprenticeships.
9:15 to 9:35 a.m.
The Latest Innovations in Two-Component Mixing Technology
Anthony Martucci, Business Manager, Nordson EFD
Find out how Nordson EFD created a new square static mixer that optimizes mixing performance in a significantly shorter length with 30% less retained volume. Using proprietary fluid simulation software, EFD optimized the design of cross flow inverters and element wedges to create the new high-performance mixer that’s 20% shorter than comparable square mixers – the shortest of its kind in the marketplace.

9:35 to 9:55 a.m.
New Kurarity (Novel Acrylic Block Co-polymer) Grades with Differentiated Properties
Erich Klein, Market Manager, Kuraray
We will discuss three new Kurarity grades and the differentiated properties they provide adhesive formulators. We will review some starting formulations as well as potential applications.

9:55 to 10:15 a.m.
Simpler, Better Performing, Lower Cost CASE Formulas and Operations with Harmonite® Organic/Inorganic Composite Powders
Kenneth Thomas, Director - Innovation & Marketing, The Dupps Company / RSS, LLC
Formulation, performance and cost data for HMPSA adhesives using Harmonite powders will be presented.

10:15 to 10:35 a.m.
Lactide Polyester Resins as Tackifiers in EVA Hot Melt Adhesive Applications
Matthew Tjosaas, Application and Development Chemist, NatureWorks
Lactide Polyester Resins as Tackifiers in EVA Hot Melt Adhesive Applications will be presented.
10:35 to 10:55 a.m.
New Plasma Treater for Improved Bonding of Adhesives
Ryan Schuelke, Vice President-Sales, Enercon Industries Corporation
Enercon is introducing a New Atmospheric Plasma Treater with expanded capabilities for treating plastics, composites, glass and metals. It offers greater operational efficiencies than previously available & is designed to prepare surfaces prior to bonding to increase surface energy & wettability.

10:55 to 11:15 a.m.
ENCOR 167S for Plasticizer Free Sealant Applications
Rick Miner, Technical Account Coordinator, Arkema Coating Resins
This presentation will discuss waterborne polymer for high performing sealants without the need of external plasticizer.

11:15 to 11:35 a.m.
Bitoner Hydrogenated DCPD Resins
Kiki Pan, Sales, Shanghai Bitoner Resin Co., Ltd.
The presentation will discuss Bitoner DH series are color improved and stability enhanced hydrogenated DCPD resins by removing vulnerable double bonds. Owing to its good color, excellent heat stability and great adhesive properties, they have been widely used in EVA/APAO/SBC based hot melt adhesives, coating and wax industries.

11:35 to 11:55 a.m.
Ultra Fine Precipitated Calcium Carbonate (UFPCC) as a Rheological Modifier for High Viscosity and High Thixotropy in Sealant Performance
Nobuyoshi Murakami, Shiraishi Central Laboratiries Co., Ltd.
The presentation will discuss liquid sealant (referred as sealant hereinafter) is basically consisting of polymer, filler, and additives. Ultra fine precipitated calcium carbonate (UFPCC) is widely used as a filler in sealant formulation. Our new UFPCC has been developed by design to have sealant high viscosity and excellent.

11:00 – 1:00p.m.
TECHNICAL COMMITTEE MEETING
Orchid AB, Terrace Level

Noon to 1:00 p.m.
WEDNESDAY MEMBERS ONLY NETWORKING LUNCH
(ASC MEMBERS ONLY)
(Registered Attendees Only, Pre-Reservation Required)
Regency Ballroom, Terrace Level
The Members ONLY Networking Lunch provides an opportunity for you to meet up to six other industry professionals from ASC member companies and make new connections over the course of a lunch.
Wednesday Afternoon Education Sessions
1:15 – 2:15 p.m.

1:15 to 1:45 p.m.
Smart and Connected RFID Tags and Labels in the Digital Era of Gen IoT
Marga Acevedo, Consulting Partner, AceMarga Consulting LLC
Technical and market applications of RFID tags involving adhesives: opportunities and challenges for the adhesive industry in this space. How passive RFID tags work and the key considerations for adhesive selection with examples from transportation, health care and retail label applications.

1:45 to 2:15 p.m.
Robotics and the Next Generation IoT
Luis Govantes, Director of Sales, Solutions Manufacturing, Inc.
Robotics and IoT devices are molding our future way of doing business and shifting operational paradigms in every industry. Explore how the use of robotics and IoT had changed manufacturing workflows, daily human tasks and human interactions with automation, new tools, and performance analytics.
1:15 to 1:45 p.m.

Formulating Polyurethane Reactive Hot Melt with High Strength and Heat Resistance
Michael (Shuhui) Qin, Scientist, Henkel Corporation

Sidewall panels for recreational vehicles need to have excellent heat resistance in order to handle different temperature extremes. In this talk we will present a formulation strategy for a polyurethane reactive hot melt which provides a structural bond with better heat resistance and higher strength than conventional polyurethane reactive hot melts. We will also discuss how to use polyester polyols of different molecular weight to control performance.

1:45 to 2:15 p.m.

Hydrophobic Polyol for Insulated Glass Sealant Application
Bindu Krishnan, Technology Leader, Dow Chemical Company

In the current work, Dow’s proprietary hydrophobic polyether polyol based on butylene oxide was evaluated as a low-cost alternative to the polybutadiene polyol-based system for IG application. The talk will discuss the advantage of using this polyol for insulated glass sealant application.

2:15 to 2:45 p.m.

Cellulose Fibrils – Novel Rheology Modifier for Polyurethane Dispersion Adhesives
Otto Soidinsalo, Technical Application Manager, Borregaard

The potential as well as compatibility of cellulose fibrils as a rheology modifier in polyurethane dispersion (PUD) adhesives has been evaluated.

2:45 to 3:15 p.m.

Gel Time Measurement of Two-Component Polyurethane
Shuhua Jin, Development Scientist, Henkel Corporation

Investigate and compare various gel time measurement technologies of several two-component polyurethane.
1:15 – 1:45 p.m.
New Stabilizers for Hot Melt Adhesives Applications
Eugene Sitzmann, Research Associate, BASF
A continuing need for higher performance hot melt adhesives is required for transportation and construction markets. In this talk we wish to describe three new stabilizer packages that allow greater long-term stability both for adhesion retention and for outdoor weathering.

1:45 to 2:15 p.m.
Flame Retardants - Chemistry, Mechanisms and Their Application in Adhesives
Glade Squires, Product Manager Flame Retardants, Omya, Inc.
A detailed review of the chemistry and mechanisms of flame retardants. Both halogen and non-halogen flame retardants will be covered along with their chemical and physical modes of action. How to choose and incorporate the right flame retardant to balance desired properties.

2:15 to 2:45 p.m.
Finer Calcium Carbonates for Stronger Adhesives
Andrea Battisti, Application Manager Adhesives and Sealants, Omya International AG
This presentation will cover the main production processes and characteristics of a ground calcium carbonate, with special attention to the production of particles below the micrometric level and the technology of surface modification. We will show the main correlations between particle properties of a functional filler and the rheological and mechanical properties of model adhesives. As a practical guidance to formulators, we will then use the case of reactive adhesives for the construction industry to exemplify such effects.

2:45 to 3:15 p.m.
Auxilleries, Additives and Methods to Enhance Silane Modified Polymer Performance
Dan Mania, Chemist, Wacker Chemical Corporation
This presentation will discuss about fillers, rheology aids, adhesion promoters, catalysts and other raw materials and their impact upon performance of the final formulation with respect to SMP Hybrids.
3:15 to 5:00 p.m.

CLOSING PRESENTATION & RECEPTION

Orchid CD, Terrace Level

Henkel Ventures – Our New Path to Business Growth

Chuck Paul, Vice President – Technology, Henkel Corporation

Global adhesive companies have traditionally grown both organically and by M&A. Corporate venture investments are a complementary approach which can support traditional organic growth via new technologies. However, venturing is especially effective as a means to engage in new markets in a timely manner. The areas of technology and market focus for Henkel will be described, as will our approach to finding suitable investments. The driving forces for expanding external innovation and the means to best leverage these innovations will be discussed.

Closing Reception

Immediately following the closing presentation, join ASC staff & attendees as we circle back with new contacts made, connect with peers, and unwind before getting back on the plane. Always a popular event!
MARGA ACEVEDO  
*Consulting Partner, AceMarga Consulting LLC*  
Independent Technical Consultant engaged by Computype Inc. to build strategic competency in adhesive technology. Marga has an international background in polymer and material science, focused in adhesive and sealant applications. During the last 20 years she has grown her expertise in Research & Business Development, bringing new technologies to commercialization in industrial and manufacturing environments. She holds a PhD, is the inventor of several patents and a published author.

ANDREA BATTISTI  
*Application Manager, A&S, Omya International AG*  
Dr Andrea Battisti is Application Manager Adhesives & Sealants at Omya International AG since 2015. Globally responsible of technical support and innovation of calcium carbonates for Adhesives and Sealants, his expertise is the optimization of material properties, in particular matrix-particle interaction.

JOSEPH BINDER  
*Associate Research Scientist, Dow Chemical Company*  
Joseph Binder is a polymer synthesis chemist in Dow Adhesives at The Dow Chemical Company. He received his Ph.D. in organic chemistry from the University of Wisconsin-Madison.

BRYAN CAMPION  
*Global Account Manager, Hygiene, H.B. Fuller Company*  
Bryan Campion has over 20 years of experience in the adhesives industry and currently manages numerous global accounts at H.B. Fuller. With Bryan’s leadership, H.B. Fuller’s global hygiene organization has delivered innovative solutions that align with the company’s Full-Care™ brand philosophy. In 2016, Bryan was named the Essence Award winner, H.B. Fuller’s highest employee recognition for game changing leadership. Bryan has a B.S. in Marketing from Indiana University and an MBA in Finance and International Business from the University of Illinois at Chicago.

GARDNER CARRICK  
*Vice President, Strategic Initiatives, The Manufacturing Institute, National Association of Manufacturers*  
Gardner Carrick is the Vice President of Strategic Initiatives at The Manufacturing Institute. Mr. Carrick leads the Institute’s research activities including partnerships with internationally recognized consulting firms and the production of a regular series of reports on the issues and challenges affecting the U.S. manufacturing sector. Prior to joining the Institute, Mr. Carrick worked at the U.S. Department of Labor’s Employment and Training Administration where he served as the Project Director for a major initiative focused on talent development in regions across the country. He also served as the Communications Director for the agency.
Greg Carroll obtained his Ph.D. at Columbia University in 2007 under the guidance of Prof. Nicholas Turro, applying photochemistry to topics in polymer and surface science. He then moved to the Netherlands and worked as a post-doctoral researcher under the guidance of Prof. Ben Feringa at the University of Groningen, working with light-powered molecular machines and switches. He moved back to the States and in 2011 worked in the Chemical Sciences division at Lawrence Berkeley National Laboratory where his research focused on the synthesis of photo-active nanoporous materials and synchrotron-based x-ray characterization of materials. He currently is an R&D Manager at Sunstar Engineering Americas where he primarily focuses on using UV and visible light to cure foamed and non-foamed materials.

Jamie Conrad founded Conrad Law & Policy Counsel in 2007. Mr. Conrad is a former Chair, Secretary and Council member of the ABA’s Section of Administrative Law & Regulatory Practice. He has also held leadership positions in the Section of Environment, Energy & Natural Resources. He is a Fellow of the American Bar Foundation. He has chaired the City of Alexandria, Virginia Environmental Policy Commission and was one of the few Democrats on the Bush-Cheney Transition Advisory Committee for EPA. He has testified before Congress and the U.S. Sentencing Commission and is a frequent speaker. His work has appeared in numerous law reviews and trade journals, as well as The New Republic and the Washington Post. J.D. with high honors, GW Law School; B.A. and Department Prize in Philosophy, Haverford College.

Kevin Davis is a technical manager at H.B. Fuller. He has 9 years of experience in developing hot melt adhesives for hygiene and other markets. Kevin holds a B.S in chemical engineering from Case Western Reserve University and a Ph.D. in chemical engineering from the University of Minnesota.
JOSEPH DENNIS  
**Research Scientist, IBM Research**

Joe received his PhD in Macromolecular Science and Engineering from Virginia Tech in 2017. His dissertation focused on identifying structure-property relationships in high-performance polymers and exploit these relationships to improve targeted material properties. The research culminated in several first author publications and patents, and continues in Professor Timothy E. Long’s group through the students Joe mentored. Currently, Joe works for IBM Research at Almaden with a focus on polymeric materials for microelectronic applications. Using the fundamentals of polymer science to guide his research, he works on a wide range of challenging material problems from microelectronic adhesives to high-performance thermoplastics. Joe balances work with various outdoor activities including hiking, snowboarding, and mountain biking.

TODD DINA  
**Executive Director – Global Olefins | Chemicals, IHS Markit**

Todd Dina is Director Global Olefins responsible as the global lead on Propylene Studies as well as the service leader for the North America Light Olefins Market Advisory Service at IHS Markit. An industry veteran of more than 30 years focused on olefins, Todd began his career with MW Kellogg in 1988 in design engineering and environmental consultant roles. He later joined LyondellBasell where he held roles of increasing responsibility in ethylene oxide/glycols operations, business analytics, sales, and commercial management. He then joined TPC Group where he held positions in sales, commercial management and finally feedstock procurement. Todd graduated from the University of Texas with a Bachelor of Science in Chemical Engineering.

ROLAND FRANZ  
**Head of Department Product Safety and Analytics, Fraunhofer Institute**

Dr. Roland Franz is Head of the Department ‘Product Safety and Chemical Analysis’ of the Fraunhofer Institute for Process Engineering and Packaging IVV in Freising, Germany. He is (co-)author of more than 150 scientific publications. Member and chair of the ‘Committee for Consumer Products’ of the German Federal Institute for Risk Assessment, BfR, in Berlin, Germany. Member of the Scientific Panel on Contact Materials, Enzymes and Flavourings (CEF) of the European Food Safety Authority (EFSA). Further information can be found under http://www.ivv.fraunhofer.de.
GARY GLASS
Partner, Thompson Hine LLC
Gary Glass is a partner of Thompson Hine LLP. Gary is a partner in the firm’s product liability litigation practice group. He is a graduate of Colgate University and received his law degree at the University of Notre Dame. Gary chairs his firm’s product liability risk management consulting group, and routinely counsels manufacturers and employers on issues relating to product liability and plant safety. Gary has a significant OSHA practice and focuses much of his work on the chemical industry. He regularly counsels employers on compliance issues and defends OSHA citations in administrative hearings before the Occupational Safety and Health Review Commission. He has defended several premises liability cases and some of the largest process safety management cases in the country.

MAUREEN GORSEN
Partner, Alston & Bird
Ms. Gorsen is the former director of the California DTSC, where she directed regulation of waste, soil and water cleanups under CERCLA, RCRA, and brownfields laws. She spearheaded the California Green Chemistry Initiative and resulting laws governing chemicals under the California Safer Consumer Product rules and other state’s products programs and federal TSCA Reform. Ms. Gorsen is the former general counsel of the California Environmental Protection Agency, as well as the former general counsel for the California Natural Resources Agency. In these roles, she oversaw policies that enforce California’s environmental laws, including Prop 65, the Endangered Species Act, Coastal Act and CEQA. She has been ranked in U.S. News and World Report’s Best Lawyers® since 2013.

LUIS GOVANTES
Director of Sales, Solutions Manufacturing, Inc.
Luis Govantes is the Dir. of Sales for Solutions Mfg, an EMS company in Rockledge, FL. He is an accomplished Senior Business Executive with over 30 years of successfully developing and selling complex systems solutions to A&D, Medical, and IT/Commercial Systems markets worldwide. He has served as HW/SW Designer, Systems Engineer, Program and Business Development Manager for Harris, Raytheon, and other high-tech companies. He earned a BSEE from VT. He is fluent in English and Spanish.

MICHAELA HOFBAUER
Global Market Leader Adhesives, Eastman Chemical Company
Michaela Hofbauer is the Global Market Leader for the Adhesives business of Eastman Chemical Company. She is responsible for market development activities and market strategies with a focus on hygiene, packaging, and product assembly applications and operates from Eastman’s headquarters in Kingsport/Tennessee. Michaela joined Eastman in 2001 as Laboratory Manager of the European Adhesives Business. In 2007, she moved into the marketing function, and held several marketing roles with responsibility for the European Adhesive Market, the tire industry, the global packaging market, and most recently the global adhesive market. Michaela is a German national. She holds a PhD degree in Organic Chemistry from the University of Bonn, Germany.
SHUHUA JIN
Development Scientist, Henkel Corporation
Polymer chemist working in product development at Henkel Corp. Ph.D in polymer chemistry, 20 years industry experiences in adhesive and sealants. Currently working in 2K PU adhesives.

ERICH KLEIN
Market Manager, Kuraray
Kuraray is best known for using their unique synthesis technology to produce a broad range of innovative products which are used throughout the world in multiple markets including adhesives, sealant and coatings. Prior to join Kuraray in 2012, Erich held various sales and marketing management positions at 3M and Legget & Platt. Erich earned a Bachelor degree from Texas A & M University and currently resides in Clear Lake Texas.

STEPHEN KLUMP
Global Head of Food Contact Material Safety, Nestle
Stephen Klump is the Global Head of Food Contact Material Safety & Compliance for Nestlé. The responsibilities include leading Nestlé’s packaging safety and compliance program. Stephen has 12 years’ experience in the packaging food safety area. Dr. Klump earned a Ph.D. in Organic Chemistry from Ohio State University in the USA. After a several years working in the chemicals industry and a transitional role in the beverage industry, Dr. Klump moved to Nestlé. During his nearly 19 years with Nestlé, Stephen worked at several Nestlé locations including the Nestlé Research Center in Lausanne Switzerland developing analytical methods to test for migrants from packaging materials. Following, Dr. Klump supported packaging safety for Nestlé at a zone/regional level and now at the global level. He is currently based in Marysville Ohio in the USA.

BINDU KRISHNAN
Technology Leader, Dow Chemical Company
Bindu Krishnan, technical leader for the Adhesive, Sealants and Binder segment in the Polyurethanes Business is responsible for the strategy and technology development of a fully formulated adhesive for the construction & infrastructure market. Prior to this she was a Research Scientist in Dow Automotive, driving the development of next generation automotive adhesive. She began her career with Dow Polyurethane in 2006. Bindu holds a Ph.D in Organic Polymer from University of Bordeaux, France.
Jim Larranaga, who has led two underperforming basketball programs from irrelevance to being true champions that captured the attention and imagination of fans everywhere, shares his leadership and teamwork strategies that apply on and off the court. In 2013 during his second year as Head Coach at The University of Miami, Jim Larranaga took his team being an afterthought to being ACC Champions and ranked number two in the country. Larranaga—who was awarded both the AP Coach of the Year and the Naismith Coach of the Year after the 2013 season. He shows you the strategies for surrounding yourself with the best people and nurturing them until your entire team or organization achieves success. He stresses the value of hard work balanced with determination, leadership and class, describing his own formula for winning despite the odds and enjoying the journey along the way.

Anthony Martucci is a Business Manager for Two-Component Dispensing Systems at Nordson EFD. He has more than 18 years of fluid dispensing experience. Anthony started his career as a CAD Operator, and then moved into sales before becoming a business manager. He’s a graduate of Georgian Court University in New Jersey, where he earned his MBA and Bachelor’s degree.

Adam Malofsky has held numerous leadership positions in a variety of start-up opportunities, both private and within corporate America. With seven ventures both independently and within the corporate world completed or in progress and dozens of new materials and manufacturing products and methods commercialized, Adam thoroughly enjoys when someone says it’s impossible and then proves it indeed possible. Adam received a BS in chemical engineering from Lehigh University and both an MS and PhD in polymer science in only three years at the University of Connecticut.

Dan Mania is a chemist with Wacker Chemical Corporation and has advanced degrees in polymer science from Eastern Michigan University. He has many years of experience with formulating different types of chemistries for different types of construction applications. His current role is supporting customers that compound RTV products for construction applications.
JEFF MIDDLESWORTH
Technical Manager, Berry Global

Jeff Middlesworth is a Senior Research and Development Engineer for Hygiene products within the Health, Hygiene and Specialties Division of Berry Global, a global provider of nonwoven and film protection solutions. Jeff holds a BS in Mechanical Engineering from Purdue University. His experience has been concentrated on Hygiene applications since 1979 with over 35 years experience in polymers, films, nonwovens and laminates. As part of Berry’s global technology community, Jeff’s focus is to drive new platform innovations and applications that address key performance needs and contribute to Berry Global’s commitment to create a world of protection.

RICK MINER
Technical Account Coordinator, Arkema Coating Resins

Rick Miner is a Sr. Technical Service Account Manager for Arkema Coating Resins headquartered in Cary, NC. Rick earned his BS degrees in Chemistry and Pulp and Paper Engineering from North Carolina State University and his MSE degree from Southern Polytechnic State University. Rick has 30 years of experience in formulating sealants and coatings with Arkema Coating Resins. Rick manages the application development for construction products and is the technical manager for strategic accounts.

NOBUYOSHI MURAKAMI
Researcher, Shiraishi Central Laboratories CO., LTD.

In 2011, I graduated the department master’s course (chemical engineering) of Kansai University. I have been working for six years in Shiraishi Central Laboratories for Design development of ultra fine precipitated calcium carbonate for sealant and PVC plastisol.

DAN MURAD
President & CEO, The Chemquest Group

Dan Murad is the CEO and President of The ChemQuest Group, Inc. He joined ChemQuest in 1996 from the Rohm & Haas Company where he was Director, Industrial Coatings, and Director of R&H’s Corporate Marketing Board. His career experiences range from technical positions to Director of Marketing to Executive General Management. His particular strengths lie in enhancing EBITDA through operational efficiencies, strategic disciplines, and value creation on behalf of clients. He holds degrees from Wabash College (B.S. in chemistry) and William & Mary (MBA).

MOJGAN NEJAD
Assistant Professor, Michigan State University

Mojgan Nejad is as an Assistant Professor in Michigan State University. She also holds a Professor (status only) position at the Mechanical and Industrial Engineering Department in University of Toronto, which enables her to co-supervise graduate students and projects there. Dr. Nejad has a bachelor degree in Applied Chemistry and PhD in Wood Coating. Her PhD dissertation, conducted at the University of Toronto, focused on “Modeling correlation between coating properties and their weathering performance on treated wood.”

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MICHAEL OKOROAFOR, PH.D.
Vice President, Global Sustainability & Packaging Innovation, McCormick & Company, Inc.

Michael Okoroafor is currently the Vice President, Global Sustainability and Packaging Innovation. In this role, he is responsible for the strategic direction, policies, development and execution of agricultural, ingredient, product and packaging sustainability, as well as packaging innovation capabilities globally. Prior to this role, he was VP, Global Packaging Innovation. Previously he was Vice President for Packaging R&D at H.J. Heinz Company. Under his leadership, Heinz launched several major packaging initiatives including; Dip N’ Squeeze, the first major change to the condiment pouch in the foodservice industry in over 40 years, which won the 2011 DuPont Award for Packaging Innovation. Mike is a graduate of Executive Development Program at Kellogg Business School, Northwestern University. He also holds a B.S. degree in Chemistry from the University of Nigeria, a Masters in polymer chemistry from the University of Detroit, and a PhD in organic polymer chemistry from Michigan State University.

MICHELLE ORFEI
Director, American Chemistry Council

Michelle Orfei is a Director in the American Chemistry Council’s (ACC) Responsible Care® and Value Chain Outreach Division, where she focuses on retail outreach and chemicals policy. Prior to joining this group, Michelle was part of ACC’s Regulatory and Technical Affairs Division, working on global chemicals and health policy, energy and climate issues, and international trade. Michelle’s educational background includes a Master of Business Administration and Master of International Commerce from the University of Maryland. She holds a Bachelor’s Degree in International Relations from Principia College.

KIKI PAN
Sales, Shanghai Bitoner Resin Co., Ltd

Bitoner Resin is one of leading hydrocarbon resin suppliers from China. With more than ten years’ experience specializing in developing and promoting hydrocarbon resins, Bitoner Resin has been enjoying popularity and good reputation in almost 40 countries and areas. With strict quality control system, Bitoner Resin is working for supplying reliable, consistent quality and professional services for PSA and HMA customers.

CHUCK PAUL
NSC Fellow, Henkel Corporation

Dr. Charles W. Paul, Vice President – Technology, Henkel Adhesive Technologies, is responsible for technology assessments for M&A and Venturing, and supports Open Innovation within North America for the R&D teams. Since joining Henkel in 1988 he has held a number of positions within R&D. His experience covers almost all categories of adhesive and wide-ranging applications: from jet engines to hair spray, polyimides to starch. Chuck holds over 50 US patents and coauthored numerous publications including five book chapters on adhesives. Chuck has a BS in Chemical Engineering from Cornell University and a PhD from the University of California at Berkeley, College of Chemistry.
SHUHUI QIN
Scientist, Henkel Corporation
Michael (Shuhui) Qin got his PhD in polymer chemistry from Peking(Beijing) University in 2001. He joined in Henkel in April 2006. His expertise is Polyurethane Reactive Hotmelt and moisture curable 1k liquid urethane adhesives.

RYAN SCHUELKE
Vice President, Sales, Enercon Industries Corporation
As VP Sales for Enercon Industries, Ryan Schuelke leads the company’s efforts in developing new and innovative surface treating solutions for clients all over the world. Ryan’s ability to align his customer’s business objectives with technology solutions makes him a valuable industry resource. Ryan has over twenty years experience in serving Enercon customers and is a frequent presenter at industry associations and technical webinars.

EUGENE SITZMANN
Research Associate, BASF Corporation
Eugene Sitzmann is part of BASF’s Technical Team located in Southfield, Michigan. He is currently responsible for technical support for performance additives used in adhesives & sealants applications. He worked at Ciba on the development of stabilizers and photo-latent curing agents prior to joining BASF.

MIKE SNYDER
Vice President, Process Safety, DEKRA Process Safety
Michael (Mike) Snyder serves as Executive Vice President for DEKRA Process Safety (Americas), a trusted advisor in Chemical Process Safety testing and consulting services. Mike was previously the Global Director of Safety and Loss Prevention for Dow Corning Corporation, responsible for leading the company’s Occupational and Process Safety programs. Mike currently serves a member of the NFPA Standards Council, and serves on the Center for Chemical Process Safety (CCPS) Advisory Board. Mike obtained a bachelor’s degree in Chemical Engineering from Cornell University, and a master’s degree in Occupational Safety & Health from Columbia Southern University. He is a registered professional engineer in Michigan, a Certified Safety Professional, and a Certified Fire Protection Specialist (CFPS).

OTTO SOIDINSALO
Technical Application Manager, Borregaard
Otto Soidinsalo, Technical Application Manager, Borregaard Dr. Otto Soidinsalo holds a Ph.D. in organic chemistry from the University of Helsinki. Currently he works as a Technical Application Manager at Borregaard. Before joining Borregaard, Otto has been working in various positions in pharma and cellulose derivatives related industries, ranging from R&D to product and application development and technical services.
DAN SOPHIEA
Senior Research & Development Manager for Structural and Elastic Adhesives, Dow Automotive Systems

Dan Sophiea, PhD, manages large complex projects from collaboration through delivery. As the Senior Research & Development Manager for structural and elastic adhesives at Dow Automotive Systems, Sophiea provides leadership in research and development, formulations development and technical service. His experience at Dow includes technology leadership in the U.S., Germany, France and China. Sophiea received a B.S. in chemistry from Wayne State University and Ph.D. in polymer chemistry and engineering from the University of Detroit.

GLADE SQUIRES
Product Manager Flame Retardants, Omya, Inc.

Currently Product Manager Flame Retardants with Omya, Incorporated’s Polymer Additives Division of Distribution Services. Undergraduate and graduate study in Chemistry at the University of Pittsburgh. Over 35 years of flame retardant experience holding positions in R&D, Commercial Development, Sales and Marketing.

BILL SUEHR
Chief Operations Officer, NatureWorks

As NatureWorks Chief Operations Officer since 2009, Bill has led numerous technology programs to improve the manufacturing yield, double the plant’s capacity, and commercialize new products based on Ingeo™ lactic and biopolymers. Prior to his current role, Bill spent 22 years in various leadership roles within the chemicals industry involving R&D, manufacturing, and engineering functions within Union Carbide Corporation, Dow Chemical, and NatureWorks. Bill spent the first 14 years of his career working for Union Carbide in manufacturing and engineering roles. In 2005, Bill moved into an R&D leadership role within NatureWorks, and in 2009 Bill was appointed the Chief Operations Officer position. Bill holds a Bachelor of Science degree in chemical engineering from Penn State University.

KENNETH THOMAS
Director - Innovation & Marketing, The Dupps Company / RSS, LLC

As Director of Innovation & Marketing for The Dupps Company, Mr. Thomas is responsible for long term strategic growth planning, and corporate marketing. Mr. Thomas has more than 35 years experience in the chemicals, metals, and process equipment industries and holds a BSChem degree with a minor in Environmental Engineering from the University of Cincinnati. He has worked in various technical and commercial capacities for large multi-national publicly held manufacturing firms and smaller family owned manufacturing firms.
MATTHEW TJOSAAS
Application and Development Chemist, NatureWorks

Matt Tjosaas is the Application and Development Chemist within Performance Chemicals at NatureWorks. He earned a B.A. in Chemistry from Gustavus Adolphus College and a M.S. in Chemistry from the University of MN-Duluth in 2005. Matt has held chemist positions at Valspar, Segetis, Haviland, and Amyris, prior to joining NatureWorks in 2017. He is an inventor on multiple patents involving Segetis’ process and product technology and is a member of the American Chemical Society.

KEVIN TURNER
Gabel Family Associate Professor, University of Pennsylvania

Kevin Turner is a Professor and the Associate Chair for Graduate Affairs in the Department of Mechanical Engineering and Applied Mechanics at the University of Pennsylvania. He received his BS from the Johns Hopkins University and MS and PhD from MIT. Prior to joining the University of Pennsylvania in 2011, he was on the faculty of the University Wisconsin-Madison. His primary research interests are related to manufacturing, mechanics, and materials issues in micro- and nano-scale systems. His research spans multiple topics including, structured surfaces with tunable adhesion, experimental methods to characterize interface mechanics across length scales, additive manufacturing, and transfer/printing processes for manufacturing flexible and hybrid electronic devices.

ANSGAR VAN HALTEREN
Chief Executive Officer, IVK, The German Adhesives Association

Ansgar van Halteren received his MBA degree from the University of Münster, Germany. From 1983 on he worked in various positions for the German Adhesives Association (Industrieverband Klebstoffe) situated in Düsseldorf. In 1992 he was appointed as Senior Executive and in 2002 as Executive Board Member. Until to date Ansgar van Halteren signs responsible for the world largest national Adhesives organization, actual representing 137 companies, and an annual industry turnover of more than 3.8 billion Euros. Between 1991 and 2006 Ansgar van Halteren successfully built up a professional European organisation, appropriate governmental relationships, and a global industry network. In 2006 the FEICA office was transferred to Brussels as an independent organisation. Within the broad scope of his activities Ansgar van Halteren is involved in the national, European, and global adhesives business for almost 35 years.

JESSIE WALDHEIM
Market Reporter, ICIS

Jessie Waldheim is an ICIS markets editor for the US olefins markets. She has also reported on US, benzene, styrene, ethylbenzene, mixed xylenes, toluene, titanium dioxide and acrylate esters. Jessie has more than 10 years of experience in journalism and has been covering chemical markets and chemical news for ICIS since February 2014.
JAMES WEATHERALL
Global Vice President, SpecialChem S.A.
James M. Weatherall is a Global Vice President at SpecialChem, the leading digital marketing firm serving the global chemicals and materials industry. He works with the firm’s clients in the Americas to explore and validate new opportunities, and drive new business in chemicals and materials markets globally. He brings over 35 years of chemical industry experience, including 6 years with SpecialChem. He holds a MMS in Management and a BS in Chemistry, both from the Stevens Institute of Technology.

CHRISt WHITE
Research Chemist, NIST/DOC
Dr. White is a research chemist from NIST who studies the impact of weathering on polymeric materials and works to model the results.

BI NG YUAN
Principle Application Scientist, Eastman Chemical Company
Bing Yuan is principle scientist and technology leader of Adhesives Technology group in Eastman Chemical Company. He has a PhD in material chemistry from Brooklyn Polytechnic University (current name: New York University Tandon School of Engineering). Before joining Eastman Chemical Company, Dr. Yuan worked as a chemist in Adhesives Research, Inc. on pressure sensitive adhesive formulation, testing and manufacturing for 3 years. He joined Eastman Chemical Company in 2011 and is currently working on application and new product development of hydrocarbon resins for various applications.
SCHEDULE AT A GLANCE

Your guide to ASC educational tracks during the 2018 ASC Convention

**LEGEND:**

- **BD** = Business Development & Market Trends Track
- **T/GR** = Technical & Government Regulations Track
- **NT/A** = New Technology & Application Track

HYATT REGENCY MIAMI
MORNING Education Sessions by Time Slot

9:15 to 10:00 a.m.
BD: Ethylene and Propylene Market Environment and Market Drivers
Jessie Waldheim, Market Reporter, ICIS
Orchid CD, Terrace Level

9:15 to 9:45 a.m.
T/GR: New TSCA Enters the Terrible Twos: An Update on EPA's Implementation of the Toxic Substances Control Act
Jamie Conrad, Owner, Conrad Law & Policy Council
Hibiscus B, Terrace Level
NT/A: Designing Adhesives for Cryogenic Applications in Microelectronics
Joseph Dennis, Research Scientist, IBM Research
Hibiscus A, Terrace Level

9:45 to 10:15 a.m.
T/GR: State Regulations Impacting the Adhesive & Sealant Industry: An Update from California
Maureen Gorsen, Partner, Alston & Bird
Hibiscus B, Terrace Level
NT/A: Reversible Multi-Material Bonded Joints: Challenges and Path Forward
Mahmoodul Haq, Assistant Professor, Michigan State University
Hibiscus A, Terrace Level

10:00 to 10:30 a.m.
BD: Global Propylene – Surfing the Hurricane of Demand
Todd Dina, Executive Director-Global Olefine-Chemicals, IHS Markit
Orchid CD, Terrace Level

10:15 to 10:45 a.m. — BREAK: T/GR & NT/A

10:30 to 10:45 a.m. — BREAK: BD

10:45 to 11:15 a.m.
T/GR: Chemicals Management Trends for Retailers & Navigating Tools for Chemical Evaluation
Brett Howard, Director, Value Chain Outreach, American Chemistry Council & Michelle Orfei, Director, Value Chain Outreach, American Chemistry Council
Hibiscus B, Terrace Level
NT/A: Using Modulus Data from Outdoor and SPHERE Exposures to Support Development of Design Life
Chris White, Research Chemist, NIST/DOC
Hibiscus A, Terrace Level

10:45 to 11:30 a.m.
BD: Global Butadiene Markets Seem Headed Toward Calm Waters, Is That Really Possible?
Todd Dina, Executive Director-Global Olefine-Chemicals, IHS Markit
Orchid CD, Terrace Level

11:15 to 11:45 a.m.
T/GR: Economic Development, Key Market Challenges & Growth Driving Strategies
Ansgar van Halteren, Chief Executive Officer, IVK – The German Adhesives Association
Hibiscus B, Terrace Level
NT/A: Structured Composite Surfaces with Enhanced and Tunable Adhesion
Kevin Turner, Gabel Family Associate Professor, University of Pennsylvania
Hibiscus A, Terrace Level
AFTERNOON Education Sessions by Time Slot

1:15 to 1:45 p.m.
BD: An Overview of the New ASC North America Market Report
Dan Murad, CEO, ChemQuest Group
Orchid CD, Terrace Level
T/GR: Hygiene Market Trends and the Threat of Ultrasonic Bonding
Bryan Campion, Global Account Manager, Hygiene, H.B. Fuller Company
Hibiscus B, Terrace Level
NT/A: Food Contact Material Safety – A Brand Owner’s Perspective
Stephen Klump, Global Head of Food Contact Material Safety, Nestlé
Hibiscus A, Terrace Level

1:45 to 2:15 p.m.
BD: Digitalizing Growth: What works in Chemicals and Materials?
James Weatherall, Global Vice President, SpecialChem S.A.
Orchid CD, Terrace Level
T/GR: Pro’s and Con’s of Ultrasonic and Adhesive bonding: A Material Supplier’s View
Jeff Middlesworth, Technical Manager, Berry Global
Hibiscus B, Terrace Level
NT/A: Migration of Adhesive Raw Materials into Food
Michaela Hofbauer, Global Market Leader Adhesives, Eastman Chemical Company
Hibiscus A, Terrace Level

2:15 to 2:45 p.m.
BD: The Future of Manufacturing Innovation May Not Be What You Think
Adam Malofsky, Managing Director, Elemence
Orchid CD, Terrace Level
T/GR: Reduce Odor of Hot Melt Adhesives by Tackifier and Polymer Selection
Bing Yuan, Principle Application Scientist, Eastman Chemical Company
Hibiscus B, Terrace Level
NT/A: European Union Food Contact Compliance and Migration Testing for Water-borne Acrylic Pressure-sensitive Adhesives
Joseph Binder, Associate Research Scientist, Dow Chemical Company
Hibiscus A, Terrace Level

2:45 to 3:15 p.m.
BD: From Obstacles to Opportunities: Navigating Two Decades of Biomaterials Innovation
Bill Suehr, Chief Operations Officer, NatureWorks
Orchid CD, Terrace Level
T/GR: Addressing Hygiene Market Needs Through Hot Melt Adhesive Technology
Kevin Davis, Technical Manager – Global Hygiene Platform R&D, H.B. Fuller Company
Hibiscus B, Terrace Level
NT/A: Functional Barriers - Testing and Predicting Barrier Properties of Polymer Layers
Roland Franz, Head of Department Product Safety and Analytics, Fraunhofer-Institut
Hibiscus A, Terrace Level

LEGEND: BD = Business Development & Market Trends Track
T/GR = Technical & Government Regulations Track
NT/A = New Technology & Application Track
MORNING Education Sessions by Time Slot

**9:15 to 9:45 a.m.**
- **BD:** Second Runner Up Presentation
  - Orchid CD, Terrace Level

**9:15 to 9:35 a.m.**
- **NT/A:** The Latest Innovations in Two-Component Mixing Technology
  - Anthony Martucci, Business Manager, Nordson EFD
  - Hibiscus A, Terrace Level

**9:15 to 10:00 a.m.**
- **T/GR:** Don’t Get Stuck: Practical Tips To Avoid OSHA Process Safety Management Citations
  - Gary Glass, Partner, Thompson Hine LLC
  - Hibiscus B, Terrace Level

**9:35 to 9:55 a.m.**
- **NT/A:** New Kurarity (Novel Acrylic Block Co-polymer) Grades with Differentiated Properties
  - Erich Klein, Market Manager, Kuraray
  - Hibiscus A, Terrace Level

**9:45 to 10:15 a.m.**
- **BD:** First Runner Up Presentation
  - Orchid CD, Terrace Level

**9:55 to 10:15 a.m.**
- **NT/A:** Simpler, Better Performing, Lower Cost CASE Formulas and Operations with Harmonite® Organic/Inorganic Composite Powders
  - Kenneth Thomas, Director - Innovation & Marketing, The Dupps Company / RSS, LLC
  - Hibiscus A, Terrace Level

**10:00 to 10:45 a.m.**
- **T/GR:** Do I Operate a Group H Occupancy? How Hazardous Materials Use and Storage Impacts Your Facility’s Occupancy Classification
  - Mike Snyder, Vice President, DEKRA Process Safety
  - Hibiscus B, Terrace Level

**10:15 to 10:35 a.m.**
- **NT/A:** Lactide Polyester Resins as Tackifiers in EVA Hot Melt Adhesive Applications
  - Matthew Tjosaas, Application and Development Chemist, NatureWorks
  - Hibiscus A, Terrace Level

**10:45 to 11:15 a.m.**
- **BD:** Innovation Award Winner, Small Business Category Presentation
  - Orchid CD, Terrace Level

**10:55 to 11:15 a.m.**
- **NT/A:** New Plasma Treater for Improved Bonding of Adhesives
  - Ryan Schuelke, Vice President-Sales, Enercon Industries Corporation
  - Hibiscus A, Terrace Level

**10:15 to 10:45 a.m. — BREAK: BD**

**10:35 to 10:55 a.m.**
- **NT/A:** ENCOR 167S for Plasticizer Free Sealant Applications
  - Rick Miner, Technical Account Coordinator, Arkema Coating Resins
  - Hibiscus A, Terrace Level
### Schedule at a Glance

**Wednesday, April 25**

#### 11:15 to 11:35 a.m.

**NT/A:** Bitoner Hydrogenated DCPD Resins  
Kiki Pan, Sales, Shanghai Bitoner Resin Co., Ltd.  
Hibiscus A, Terrace Level

#### 11:15 to 11:45 a.m.

**BD:** Innovation Award Winner Presentation  
Orchid CD, Terrace Level

#### 11:35 to 11:55 a.m.

**NT/A:** Ultra Fine Precipitated Calcium Carbonate (UFPCC) as a Rheological Modifier for High Viscosity and High Thixotropy in Sealant Performance  
Nobuyoshi Murakami, Shiraishi Central Laboratories Co., Ltd.  
Hibiscus A, Terrace Level

### AFTERNOON Education Sessions by Time Slot

#### 1:15 to 1:45 p.m.

**BD:** Smart and Connected RFID Tags and Labels in the Digital Era of Gen IoT  
Marga Acevedo, Consulting Partner, AceMarga Consulting LLC  
Orchid CD, Terrace Level  

**T/GR:** Formulating Polyurethane Reactive Hot Melt with High Strength and Heat Resistance  
Michael (Shuhui) Qin, Scientist, Henkel Corporation  
Hibiscus B, Terrace Level

**NT/A:** New Stabilizers for Hot Melt Adhesives Applications  
Eugene Sitzmann, Research Associate, BASF  
Hibiscus A, Terrace Level

#### 1:45 to 2:15 p.m.

**T/GR:** Cellulose Fibrils – Novel Rheology Modifier for Polyurethane Dispersion Adhesives  
Otto Soidinsalo, Technical Application Manager, Borregaard  
Hibiscus B, Terrace Level

**NT/A:** Flame Retardants - Chemistry, Mechanisms and Their Application in Adhesives  
Glade Squires, Product Manager Flame Retardants, Omya, Inc.  
Hibiscus A, Terrace Level

#### 2:15 to 2:45 p.m.

**T/GR:** Gel Time Measurement of Two-Component Polyurethane  
Shuhua Jin, Development Scientist, Henkel Corporation  
Orchid CD, Terrace Level

**NT/A:** Auxilleries, Additives and Methods to Enhance Silane Modified Polymer Performance  
Don Maria, Chemist, Wacker Chemical Corporation  
Hibiscus A, Terrace Level

#### 2:45 to 3:15 p.m.

**BD:** Robotics and the Next Generation IoT  
Luis Govantes, Director of Sales, Solutions Manufacturing, Inc.  
Orchid CD, Terrace Level

**T/GR:** Hydrophobic Polyol for Insulated Glass Sealant Application  
Bindu Krishnan, Technology Leader, Dow Chemical Company  
Hibiscus B, Terrace Level

**NT/A:** Auxilleries, Additives and Methods to Enhance Silane Modified Polymer Performance  
Don Maria, Chemist, Wacker Chemical Corporation  
Hibiscus A, Terrace Level

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