



2024 ADHESIVE & SEALANT
CONVENTION
ANNUAL CONFERENCE + EXPO

OMNI LOUISVILLE HOTEL • LOUISVILLE, KY



APRIL 15-17
2024

MEETING THE CHALLENGE

Final Program

- Daily Program
- Educational Sessions
- Networking Events
- Keynotes
- Speaker Bios
- Sponsors
- And More!

GENERAL INFORMATION

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Registration/Information Hours

2nd Street Prefunction, Level Two

Monday, April 15	7:00 a.m. – 5:30 p.m.
Tuesday, April 16	7:00 a.m. – 6:00 p.m.
Wednesday, April 17	7:00 a.m. – 2:00 p.m.

Speaker Ready Room

Hikes Point, Level Two

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.

Badges

Badges will be available for pick up at ASC's Express Pass Badge Kiosks.

Badges MUST be worn at all times during the event.



sponsored by:



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 & EXPO," visit the convention page at ascouncil.org, or stop by the ASC registration desk for assistance.

sponsored by:

Franklin International



Networking Lounges

Olmsted Ballroom Prefunction, Level Two

Tuesday, April 16 and Wednesday, April 17
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. Presentations will be accessible for a period of two weeks.

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

Thank you to our 2024 SPONSORS

PLATINUM



GOLD LEVEL



BRONZE LEVEL



Please recycle this program when done.

Monday, April 15

7:30 a.m. – 5:00 p.m.

Formulation Strategies Short Course

(registrants only)

Old Louisville, Level Two

7:30 a.m. – 5:00 p.m.

Polyurethane Short Course

(registrants only)

Clifton, Level Two

9:00 a.m. – Noon

ASC Board of Directors Meeting

Olmsted Ballroom 1, Level Two

Noon – 4:00 p.m.

ASC Gives Back Program Community Service Project

“Caring for Kentucky”

Join Kraton, ASC Board of Directors and staff as we partner with SOS Health and Hope. This giveback helps those in need at the local and international level!

This is a non-profit focused on getting health and security services to those in need, partnering with agencies in healthcare, education, animal welfare, and social services throughout Kentucky. Attendees will be greeted and given an overview of the care package building and the organization’s overall objective/mission. Then the group will get a warehouse tour, followed by volunteer work. Dress in layers and wear comfortable shoes! **Registered attendees should meet in the hotel lobby at noon for a 12:30 p.m. departure. Lunch and t-shirts will be provided.**

sponsored by:

KRATON



Delivering a World of Health & Hope



DAILY PROGRAM

4:00 – 5:00 p.m.

First Time Attendee & New Member Reception

(invite only)

Olmsted Ballroom 5, Level Two

This exclusive invite only networking reception provides an opportunity for new members and first-time attendees to ask questions about ASC program/services, better understand the value of ASC Membership, meet with ASC Board of Directors and ASC staff, and network with other convention attendees.

5:00 - 7:30 p.m.

A Night at The Derby Welcome Reception

(full convention attendees)

Olmsted Ballroom, Level Two

Take this opportunity to network with your peers, or just simply come to enjoy a fun filled evening as we kick off the 2024 Annual Convention. Derby attire is recommended – so don't forget your derby hats! Be sure to capture the moment by visiting the photo booth sponsored by Teckrez.

Explore some of the refreshments that Kentucky has to offer.

Pick up your Derby Mixer passport and take a trip around the reception to get your passport stamped.

Photo booth sponsored by

TECKREZ



Tuesday, April 16

7:15 – 8:00 a.m.

Networking Breakfast

Olmsted Ballrooms 1-4, Level Two

8:00 – 9:00 a.m.

OPENING GENERAL SESSION KEYNOTE

Olmsted Ballrooms 1-4,
Level Two

No More Comfort Zones: Growth Through Adversity

Chad Foster, Business Leader &
Motivational Speaker



Life without obstacles removes opportunities for growth. For any of us to grow, we need to step outside our comfort zones. In this powerful keynote, Chad teaches how the obstacles that lie in front of us can propel us towards our goals. Every organization finds itself face-to-face with problems that can seem insurmountable. Beyond Chad's personal path of overcoming overwhelming odds, his business track record for moving through challenges and improving results gives a unique perspective on how comfort zones hold us back. Chad will talk about how he's not successful in spite of being blind. He is successful because he's blind. He embraced his problem and turned it into a solution. In this session Chad will teach your teams how to realize exponential growth through adversity.

7:30 a.m. – 1:05 p.m.

Formulation Strategies Short Course

(registrants only)

Old Louisville, Level Two

7:30 a.m. – 1:15 p.m.

Polyurethane Short Course

(registrants only)

Clifton, Level Two

DAILY PROGRAM

Tuesday Morning Education Sessions

9:15 a.m. – Noon

Education Track 1:

Feedstock Trends & Updates

Olmsted Ballroom 5, Level Two

9:15 – 9:40 a.m.

Energy Transition Impact on Adhesives and Sealants Feedstocks

Panuswee Dwivedi, Project Manager, ADI Analytics

The world in 2050 could be business as usual (BAU), rapid energy transition, or net-zero CO2 emissions scenario with global energy consumption growing by 18% to 37% in 2050 compared to 2020. In each of these cases, oil & gas range from 20% to 50% of the global energy mix in 2050, from 57% in 2020. Petrochemicals will drive global demand through 2050 and applications where oil and gas are used as feedstocks as opposed to fuel will be more difficult to decarbonize but the push towards alternative feedstocks continues to grow driven by regulations and corporate efforts. In this paper, ADI CMR will discuss alternative feedstocks outlook for adhesives and sealants.

9:45 – 10:10 a.m.

Renewable Hotmelt Adhesives Formulated with Bio Based PE Wax and Bio Mass Balance Polymers and Tackifiers

Rafael Pellicciotta, Strategy & Business Development Leader, Braskem

This presentation will focus on land usage for sugar cane plantation and its productivity. Bio mass balance EVA, mPE and bio mass balance hydrocarbon resins are typically produced in conventional petrochemical assets with the use of bio based nafta and have lower carbon footprint than fossil alternatives. Bio based rosin esters are renewable products and can be produced from tall oil or from gum rosin. Biobased hotmelt adhesives formulation performances are presented. Viscosity, cloud point, ring and ball, open time, PAFT, SAFT, Bond testing are presented for all formulations.

10:15 – 10:40 a.m.

Global Update on Hydrocarbon Based Tackifiers

Steve Williams, VP, C5 and Hydrocarbon Resins, Argus Media

This presentation will provide an update on global hydrocarbon based tackifier capacity and production trends and highlight upcoming capacity projects concentrated in China. Capacity continues to come online in Asia-Pacific to the detriment of western producers, these impacts will be discussed.

10:40 – 10:55 a.m

BREAK

10:55 – 11:20 a.m.

Utilizing CO2 Emissions as a Feedstock into Various Adhesive Chemistries

Kevin Norfleet, Global Sustainability Director, Celanese

This presentation will discuss commercial-scale carbon capture and utilization (CCU) and its relevance to the adhesives industry. The basis of the talk will be Celanese's experience recently starting up one of the largest carbon captures to chemicals projects in the world in January 2024 that will convert nearly 400,000,000 pounds per year of CO2 emissions into 130,000 tons of methanol. A wide range of technologies make up the broader carbon capture landscape, from carbon capture and sequestration (CCS) to different approaches to CCU. Different approaches offer relative pros and cons from a technical and project development perspective.

11:25 – 11:50 a.m.

Sustainable Silicone Sealants – Mass Balance Approach

Samantha Hanafin, Chemist, Wacker Chemical Corporation

This presentation will focus on the use of REDcert2 mass-balance certification the product can now claim it contributes to 100% fossil raw material savings, the renewable raw materials inside, the products eco-friendly, and has 100% substitution of fossil fuel materials with renewable raw materials. REDcert2 certification does not mean you eliminate the carbon dioxide footprint; you simply decrease the amount of CO2 used. Bio-mass material still has a carbon footprint associated with it, but significantly less than fossil fuel based material.

Education Track 2:

Advances in Biobased Materials

Olmsted Ballroom 6, Level Two

9:15 – 9:40 a.m.

Bio-based Acrylic Emulsion Polymers for Use as Caulks and Sealants

Bob (Tsung-hao) Fu, Research Scientist, Arkema

Bio-based polymers have gained attention in recent years as an attempt to reduce the environmental impact of chemical manufacturers. In this study several new monomers from renewable origins were copolymerized with acrylic monomers to give waterborne emulsion polymers. When these polymers were formulated into their corresponding caulks and sealant, it was found that they all pass ASTM C834 specifications. Their bio-content meets the USDA Biopreferred minimum of 25%.

9:45 – 10:10 a.m.

Novel Cycloaliphatic Cashew Nut Shell Liquid Based Isocyanate Blocking Agent for Lower Deblocking Temperature

Yum Mi Kim, Senior Technical Marketing Director, Cardolite Corporation

A novel CNSL-based cycloaliphatic derivative, called CNSL-Oxime, will be presented as a bio-based option, investigating its use as innovative

TUESDAY

isocyanate blocking agent with faster reactivity and lower deblocking temperatures than Petro-derived benchmarks, MEKO (Methyl Ethyl Ketoxime). Benefits of CNSL-based blocking agents, i.e., Cardanol, CNSL Oxime, CNSL Lactam, in 2K epoxy adhesives will be discussed.

10:15 – 10:40 a.m.

Reducing the Carbon Footprint of Sealants & Adhesives with Soy

Steve Block, Senior Consultant, Biobased Business, Omni Tech International

The presentation will provide the audience with detailed information about the carbon footprint, and general sustainable nature, of sealants & adhesives that include soy-based technologies. Soy-based technologies and raw materials can include soybean oil, soy meal, soy protein, or soy flour. A key discussion topic will include aspects from a life cycle analysis that was recently completed on soybeans that are farmed in the US. A comparison will also be provided that shows the carbon footprint of soybeans that are grown in other countries. One of the more interesting areas of comparison involved the land use change (LUC) using differing farming practices around the world.

10:40 – 10:55 a.m

BREAK

10:55 – 11:20 a.m.

Organometallic Catalyst Free RTV-1

Toby Vick, Principal Chemist, Wacker Chemical Corporation

This presentation will discuss alternatives to using organometallic catalysts in RTV-1 curing systems. Worker and public safety are behind the scrutiny of the toxicity of organometallic compounds. There are easy to see examples, such as lead chelation agents which are thankfully in the past. But the attention to make products safer is an ongoing process that continually grows in scope to include compounds that are in use today. As this scrutiny reaches organotin compounds, it will become important to understand chemistry and techniques to minimize the use of these compounds for curing moisture reactive sealants and adhesives.

11:25 – 11:50 a.m.

Developing a Commercial Platform to Enable World's Transition to Sustainable Materials

Ruairi O'Kane, Senior Technical Director-Carbon Products, Origin Materials

This presentation will give an overview of Origin's journey from ideation, early-stage research to construction and commissioning of its first commercial-scale biorefinery, outlining the challenges and successes of developing and commercializing a new biobased material technology. It will also introduce several innovative applications and key performance advantages of furanic chemistry in industrially relevant high-performance materials, and applications for HTC including the development of sustainable carbon black alternative.

Education Track 3 & Panel:

Unique Challenges in Developing Thermally Conductive Adhesives for EV Battery Pack Assembly

Olmsted Ballroom 7, Level Two

sponsored by:



9:15 – 9:55 a.m.

How Will the Coming Wave of Battery Electric Vehicles Impact Structural Adhesives Use in Automobiles?

Marc Benevento, President, Industrial Market Insight

The presentation will discuss the timeline of the shift to battery electric vehicles (BEVs) globally and in major regions including North America, Europe, and Asia. We will discuss the difference in vehicle architecture between internal combustion engine (ICE) and hybrid vehicles, how they differ from battery electric vehicles from a design and material of construction standpoint, and how this is likely to fit into the long-term trend of increasing structural adhesive use per vehicle.

10:00 to 10:40 a.m.

Improving Battery Adhesive Performance: Investigation of Hydrocarbon Resins in 2K PUR Systems

Matthias Steffen, Project Manager, Rain Carbon Germany GmbH

This presentation examines the critical role of hydrocarbon resins in two-component polyurethane (2K PUR) adhesives for batteries and their influence on key performance parameters in the test system. Specifically, the study will focus on open time, setting time, pot life, mechanical behavior, and the bonding of aluminum substrate. All are key factors that determine the overall effectiveness of the adhesive. Starting with a comprehensive explanation of hydrocarbon resins and their various properties, the presentation will lay the groundwork for understanding their potential applications in 2-part PUR adhesives.

10:40 – 10:55 a.m

BREAK

11:00 a.m. to Noon

PANEL DISCUSSION:

Players from different points in the value chain, including an equipment manufacturer, a formulator, a market expert and a raw material supplier will discuss the unique challenges they face in developing adhesives for EV Battery construction in a growing and rapidly changing market.

Moderator: John Brandt, Technical Manager Adhesives and Sealants North America, Covestro LLC

- Marc Benevento, President, Industrial Market Insight
- Thomas Clark, Principal Investigator, DuPont
- Stephen Neuman, Director, Graco

TUESDAY

Noon – 1:00 p.m.

ASC INDUSTRY UPDATE & AWARDS PRESENTATION

Olmsted Ballrooms 1-4,
Level Two

Bill Allmond, ASC President

Join ASC President Bill Allmond as he provides a brief update on ASC priorities and announces the recipients of the 2024 ASC Innovation Award. ASC's prestigious Innovation Award recognizes outstanding companies that differentiate and make significant impacts in the marketplace through innovation. A networking break will follow to connect with your industry peers.



2024 ASC AWARDS
INNOVATION

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Tuesday Afternoon Education Sessions

1:15 – 3:10 p.m.

Education Track 1 & Panel:
**Cultivating Leadership Excellence:
Ignite Your Potential for Tomorrow**
Olmsted Ballroom 5, Level Two

1:15 to 2:05 p.m.

What's Your Business Leadership Style... Builder? Decorator? Remodeler?

Dan Adams, President, AIM Institute

Have you been frustrated working for a Decorator, someone fixated on quarterly financial reporting? It's better to work for a builder, who drives organic growth by delivering differentiated value to customers... just like your company's founders. Join Dan Adams, author of the new book, *Business Builders*, as he presents original, first-ever research proving that companies led by Builders are much more successful.

2:05 to 2:50 p.m.

PANEL DISCUSSION:

Learn from industry leaders on how to transition over to a leadership role from an individual contributor and champion collaborations within and across teams

- Dan Adams, President, AIM Institute
- Heather Campe, Senior Vice President, H.B. Fuller
- Chuck Williams, Senior Global Technical Director and Fellow, Avery Dennison

Education Track 2:

Market Disruptors: Technologies at Forefront

Olmsted Ballroom 6, Level Two

1:15 – 1:40 p.m.

Novel PV Encapsulant Technology

Jayesh Bokria, R&D Manager, H.B. Fuller

Solar panels utilize a variety of adhesives and sealants including photovoltaic (PV) encapsulants. A PV module is made using a vacuum and thermal process and the encapsulant helps protect the module from the elements for 25+ years of service life. The encapsulant adhesive must meet stringent electrical, barrier, and aging requirements. Traditional compositions, although commoditized, are supply constrained and produced in Asia. This presentation will discuss a differentiated platform technology approach that provides for increased security of supply and cost control by using PV-underutilized polymers for use in Thin Film PV technologies.

1:45 to 2:10 p.m.

Sticking to Cold and Wet Surfaces

Kerry O'Donnell, Research Scientist, Avery Dennison, Advanced Materials Solution

In specified pharmaceutical, beverage, and industrial applications, varying levels of moisture have the potential to contaminate substrate surfaces and impede the adhesive bond formation process. Conventional adhesives lack the capability to overcome this bond interference. Avery Dennison has devised a novel pressure-sensitive adhesive system that will facilitate bond formation on these moist surfaces, thereby enhancing the ultimate performance of materials. The talk will be focused on the technology utilized to overcome the challenges posed by moist surfaces across various industries.

2:15 – 2:40 p.m.

Multifunctional Organic Lightweight Filler for Adhesives and Sealants

Marcelo Herszenhaut, Commercial Manager, LEHVOSS North America

This presentation describes the performance of a class of organic additives based on poly(methyl-methacrylate) nanopore foams. The new materials are created by expanding PMMA with a non-hazardous agent, generating a nanopore open cell structure. This hydrophobic additive combines multiple functions in adhesive, sealant, and construction chemicals.

Education Track 3:

2024 Innovation Awards and B&C

Olmsted Ballroom 7, Level Two



1:15 – 1:40 p.m.

Innovation Award Runner Up #2

1:45 – 2:10 p.m.

Innovation Award Runner Up #1

2:15 – 2:40 p.m.

2024 Innovation Award Winner

2:45 – 3:10 p.m.

High Priority Construction Domains for Adhesive and Sealant Growth

Bruce Ward, Senior Engagement Manager, Ducker Carlisle

This session will delve into pivotal trends within the construction industry, highlighting opportunities for adhesive and sealant industry stakeholders. We'll explore four critical segments: prefab and off-site construction, fire and smoke performance, impacts of federal infrastructure, and sustainable building practices. Attendees will gain insights into the latest industry trends, understand regulatory influences, and examine case studies that showcase successful applications. This presentation aims to equip suppliers and manufacturers with the knowledge to navigate these trends effectively, ensuring they are well-prepared to leverage these trends for a competitive edge.

Education Track 4:

Manufacturing Technology

Butchertown, Level Two

1:15 – 1:40 p.m.

Optimizing the Air/Liquid Interface

Leah Sullivan, Business Development Manager, Munzing

This presentation will discuss air entrapment and its stabilization within adhesives due to unfavorable air/liquid interactions during production and application. Defoaming additives used to correct these issues by breaking down or preventing the formation of bubbles and the repercussions of under or overuse will be examined. The defoaming additives are essential tools in addressing foam related issues at the air/liquid interface in adhesive or coating formulations.

1:45 – 2:10 p.m.

Next Generation Adhesive Jetting Facilitates Electronic Assembly

Larry Saidman, Chief Technologist - R&D, Nordson

In the ever-shrinking world of microelectronics, adhesive jetting has emerged as a game-changer. This nimble manufacturing technique boasts a trifecta of advantages: speed, accuracy, and access. Unlike its clunky counterparts, jetting effortlessly navigates tight spaces, paving the way for sleek designs like bezel-free devices. A new wave of jetting valves is pushing the boundaries, dispensing miniscule dots (<500 nm) at blazing frequencies up to 400Hz, which can overlap to make continuous lines. This empowers manufacturers in the fast-paced electronics industry to churn out groundbreaking products that fit in the palm of your hand.

2:15 – 2:40 p.m.

When Did Rework Become Part of Your Process?

Michael Bonner, Vice President - Engineering & Technology, Saint Clair Systems Inc.

In this presentation, we identify common operations that are often added to increase FPY (First Pass Yield) yet are actually "rework in disguise". We will also discuss the ramifications of incorporating this rework into fluid dispensing processes and examine methods to address these issues head on, so as to realize the benefits set out to achieve what's automated.

3:00 – 6:30 p.m.

EXPO AND RECEPTION

Commonwealth Ballroom, Level Two

See next page for a complete list of exhibitors.

See Convention App for a complete description of exhibitors' products and services.

APRIL 16, 2024 • OMNI LOUISVILLE

ASC EXPO AND RECEPTION

Commonwealth Ballroom, Level Two

3:00 – 6:30 P.M.

Reception 5:00 – 6:30 P.M.

▶ EXHIBITORS *(as of March 12, 2024)*

Adhesive and Sealant Council	601
Adhesives & Sealants Industry <i>(ASI Magazine)</i>	108
AGC Chemicals Americas, INC.....	318
Albert Invent	416 **
Albion Engineering	200
Applied Test Systems.....	113
Arakawa Chemical (USA) Inc	606
Arkema	300
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Guangzhou Flying Dragon Chemical Ltd.....	608 **
H.M. Royal, Inc.	402
HallStar	406
Hauschild SpeedMixer	507
Holland Colours Americas, Inc.	319 **
Huber Engineered Materials	609
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Ingevity	107
JPB Industry	313
Kaneka North America LLC	214 & 216 S
King Honor International Ltd./ Sinowax Dalian Chemical Co.,Ltd.....	103
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Koble Sustain llc	412 **
Kraton Chemical, LLC	407 & 409 S
Kuraray	312
Lawter, Inc.	215
Matrix Adhesives Group	514
Mayzo Inc.....	607
medmix	114



LE HOTEL, LOUISVILLE, KENTUCKY

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, and mingle during the reception, which begins at 5:00 p.m. For a complete list of exhibitors' products and services, see the 2024 Convention App.

S – Sponsors
 ** – New exhibitors
 Bold – ASC Members

Meridian Adhesives Group	213	S
Mississippi Lime Company	403	
Momentive Performance Materials	508	
Munzing	400	
MXD Process	212	
Neville Chemical Company	417	
Omya, Inc.	602	
Palmer Holland, Inc.	718	
Polimeros Sinteticos	112	
Primient	219	
ProSys Fill LLC	301	
PSI-Polymer Systems Inc.	309	
R. E. Carroll, Inc.	307	
Resonac America Inc.	315	
Respol Resinas	115	**
REXtac, LLC	218	
Risun Polymer China Co.,LTD.	518	
Sasol Performance Chemicals	308	
Scott Bader	314	
Shandong QL New Materials Co.,Ltd	506	
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Texture Technologies Corp.	316	
TIB Chemicals	603	S
Tilley Distribution	104	
TRCC	201	
TRECORA	700 & 702	
Trexan Chemicals, Inc.	119	
Trinseo	306	
TSRC Specialty Materials LLC	303	
United Soybean Board	512	
Univar Solutions	600	
USI Chemical America LLC	414	
Wacker Chemical Corporation	500 & 502	
Wanhua Chemical America	419	
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SUPPLY CHAIN TOGETHER

Wednesday, April 17

7:15 – 8:00 a.m.

Networking Breakfast

Olmsted Ballrooms 1-4, Level Two

8:00 – 9:00 a.m.

WEDNESDAY GENERAL SESSION KEYNOTE

Olmsted Ballrooms 1-4,
Level Two

Future of Transportation – Super Computers on Wheels & Economic Reality



Gary Silberg, Partner, Global Automotive Sector Leader, KPMG LLP

Transportation sector is slated to experience some extra-ordinary changes in the coming years. The majority of these changes are driven by the technological advances and the growing consumer demand for a better and faster experience. The development in technology will create essentially super computers on wheels. While all this may sound very enticing and hard to look away from, one cannot ignore the economics and the fiercely competitive global market economy. Gary will discuss how the transportation market will change while keeping in mind the return on investment on these technological advances.

WEDNESDAY

Wednesday Morning Education Sessions

9:15 – 11:55 a.m.

Education Track 1 & Panel:

Driving Sustainable Products to Market; Metrics and Challenges

Olmsted Ballroom 5, Level Two

9:15 – 9:35 a.m.

Scope 3 Impact on Your Overall Carbon Footprint

Tad Radzinski, Co-Founder and President, Sustainable Solutions Corporation

This presentation will provide recommendations on how to guide your suppliers in measuring their operation carbon footprint to help your company reduce your Scope 3 emissions. This session explains the differences between Sustainable Operations Assessments, Life Cycle Assessments, and Product Carbon Footprints, why they are important, and how they can help you meet your decarbonization goals.

9:35 to 9:55 a.m.

Decarbonizing New Products - The Use Case for Bio-based Materials

John Ely, Chief Marketing Officer, Heartland Industries

This session focuses on reducing Scope 3 Emission by way of infusing synthetic materials (polymers) with bio-based, natural fibers. The material that this session focuses on is industrial hemp, and presents the following findings: raw materials test data (industrial hemp fillers, fibers, and a proprietary masterbatch product); life cycle analysis (cradle-to-gate carbon emissions analysis, including sequestration, all farm inputs, logistics, and biomass evaluation); agricultural processing (USDA soil health, crop rotation - industrial hemp using new SOPs) and operational and functional research in parallel with the polymer industry. The session outlines the many use cases for decarbonized materials.

9:55 to 10:15 a.m.

Using LCA to Take Action

Richard Helling, Sustainability and LCA Advisor, Helling Sustainability, LLC

The products we sell can contribute to many environmental challenges in what they are made from and in how they are made, used and disposed of. Climate change is perhaps the most pressing challenge, but there are others. Life cycle assessment (LCA) is a tool to quantify and compare the potential impacts of the full life cycle of products so that producers and users can understand the issues and trade-offs. This presentation will highlight LCA insights and trade-offs for selected chemical products and materials, including bio-based.

10:15 to 10:35 a.m.

Certified Mass Balance and Attribution Approaches

Jan Henke, Director, ISCC & Meo Carbon Solutions

Jan will introduce the certification system ISCC PLUS and will explain the mass balance and attribution approach and its implementation across value chains. He will also speak about the recognition of mass balance approaches by industry and brand owners and within regulation and will show examples of credible certified claims for final products.

10:35 to 10:55 a.m

Bonding Beyond Deception: Navigating Greenwashing in Adhesives

Tanya Nesbitt, Partner, Thompson Hine LLP

Tanya will present on recent litigation, regulatory developments, and laws in the U.S. and EU regarding the greenwashing of environmental and social benefit claims. The CLE will also cover greenwashing mitigation and best practices for adhesive companies. Many aspects of the discussion will focus on how to incorporate greenwashing mitigation as part of a successful sustainability program.

11:00 to 11:55 a.m.

PANEL DISCUSSION:

Panelists will present a clear and balanced picture of sustainability metrics with the intent to provide the foundation needed to develop harmonized and transparent guidelines for strategy, data and advocacy in adhesive and sealant industries.

- John Ely, Chief Marketing Officer, Heartland Industries
- Richard Helling, Sustainability and LCA Advisor, Helling Sustainability, LLC
- Jan Henke, Director, ISCC & Meo Carbon Solutions
- Tanya Nesbitt, Partner, Thompson Hine LLP
- Tad Radzinski, Co-Founder and President, Sustainable Solutions Corporation

WEDNESDAY

Education Track 2:

Developments in Polyurethane Technology

Olmsted Ballroom 6, Level Two

sponsored by:



9:15 to 9:40 a.m.

Room Temperature-curable, Isocyanate-free Polyurethanes

Raphael Schaller, CTO, Collano AG

This presentation will share a brief overview of different isocyanate systems, transitioning to inventive approaches in synthesizing isocyanate-free polyurethane adhesives. The discussion delves into the challenges and opportunities associated with these novel adhesives. The presentation concludes by showcasing the mechanical, thermo-mechanical, and adhesive properties of newly developed NIPU adhesives also in comparison to standard adhesives on the market. The new adhesives are isocyanate-free and exhibit novel property combinations and high structural performance, opening new polyurethane applications. Additionally, a potential application will also be reviewed.

9:45 to 10:10 a.m.

Advancements in High Performance, Bio-Based, LF Prepolymers for Reactive Adhesive Systems

Ronald Emanuel, Head of Product Development AMS, LANXESS Corporation

Bio-based and renewable materials continue to play an increasing role in the development of sustainable systems needed to meet the growing demand for environmentally friendly solutions in the adhesive industry. This presentation will discuss the further progress that has been made developing bio-based LF MDI prepolymers over a wide range of chemistries & formulations which yield systems with lower viscosity at application temperature, improved performance, better wetting ability, and fast green strength in reactive adhesive formulations.

10:15 to 10:40 a.m.

Incorporating Biocontent into Polyurethane and Acrylic Adhesive and Sealant Raw Materials

John Brandt, Technical Manager-Adhesives and Sealants North America, Covestro LLC

As the demand for Sustainability grows, Adhesive and Sealant producers are looking for raw materials that allow them to incorporate higher levels of non-petroleum content into their products. New options are necessary to meet market expectations and corporate goals without compromising on product performance. Manufacturers of acrylic and polyurethane raw materials are using multiple approaches to manufacture products that perform as well as petroleum-based solutions. Chemical paths used to produce commercial acrylic and polyurethane dispersions, prepolymers and crosslinkers using a segregated content approach will be overviewed. The importance of verifiable content to certify products in some uses will be discussed.

10:40 to 10:55 a.m.

BREAK

10:55 to 11:20 a.m.

Adhesive Properties of PUD Made with 3-methyl-1, 5-Pentanediol and Terephthalic Acid

Shun Okura, Sales Engineer of Specialty Chemicals, Kuraray Co., Ltd.

Due to the increasing demand to reduce VOC emissions, many solvent-based urethanes have been replaced by water-based urethanes. This presentation reports the unique properties of MPD (3-methyl-1,5-pentanediol) based polyols and PUD made from these polyols. Adhesive strength testing was conducted to compare MPD and terephthalic acid-based polyols to conventional polyols that exhibit high cohesion strength.

11:25 to 11:50 a.m.

Novel Polycaprolactone Polyols for Sustainable 2K Polyurethane Adhesives

Adam Cowell, Technical Market Development Manager – Adhesives, Ingevity

This presentation will discuss how consumers strive for more sustainable adhesive solutions, the novel polycaprolactone polyol technology enables formulators to provide a balance of sustainability and performance. This technology combines excellent performance of polycaprolactone with enhanced biodegradable nature. The combination of its liquid state and its molecular weight allows for the new technology to be utilized by 2K PU solventless adhesive formulators.

Education Track 3:

New Product Introduction

Olmsted Ballroom 7, Level Two

9:15 to 9:40 a.m.

New Silane Technology for Hybrid Adhesives and Sealants

Rosemeire Ciro, Market and Applications Lab Manager, Momentive Performance Materials

This presentation focuses on the recent development of a new silane and its properties, highlighting its regulatory profile (no GHS hazard symbol labelling) and beneficial attributes for the formulators and end users (fast hydrolysis and very low odor).

9:45 to 10:10 a.m.

GENIOSIL STP-E140 and GENIOSIL STP-E340 - New Polymers for Tin Free Sealant and Adhesive Compounds

Toby Vick, Principal Chemist, Wacker Chemical Corporation

GENIOSIL® STP-E140 and GENIOSIL® STP-E340 are the new generation of silane modified polymers for tin-free compounds. Curing RTV-1 silane modified polymer systems without tin catalyst has been possible for more than a decade using GENIOSIL® STP-E10

and GENIOSIL® STP-E30. These polymers lend themselves well to elastomeric adhesives and sealants. Curing without the need for tin catalyst is made possible by our patented alpha, dimethoxy silane terminations on the polymers. The dimethoxy silane termination has proven useful for fast reliable cure without being too fast.

10:15 to 10:40 a.m.

Designing Hybrid Sealant Formulation Using the Technology of Precipitated Calcium Carbonate

Kanehiro Osakabe, Senior Researcher, Shiraishi Central Laboratories Co., Ltd.

Submicron particle sized ultrafine particle precipitated calcium carbonate (UFPC) is mainly used as a functional filler for sealants. Functionality here has been the imparting of viscosity and thixotropy. However, it was found that controlling the particle shape and uniform particle size of UFPC and applying special surface treatment agents can also affect the physical properties. By optimizing these factors, we developed a product that provides low elastic modulus and high elongation to the hybrid sealant. This UFPC is expected to give the sealant softer properties than ordinary UFPC, and therefore, it is expected to provide long-term tracking performance.

10:40 to 10:55 a.m.

BREAK

10:55 to 11:20 a.m.

Introducing the Market's First Industrial Compostable Cold Seal for Heat Sensitive Packaging

Josh Harju, Research Chemist, Bostik (Arkema's Adhesive Solutions Segment)

This presentation will highlight the work we did to develop Turbo-Seal® LOOP 1.0 adhesive, the market's first BPI-certified, industrial compostable cold seal adhesive, which enables companies to manufacture 100% compostable packaging for heat sensitive applications and helps the flexible packaging industry address both their and consumer needs. It will detail how this product, which is based on patent-pending technology, provides a safe, non-resealable seal with pressure and time for heat sensitive packaging. Additionally, it will discuss how easy and cost effective it is to implement this new technology, as it can be converted on the same equipment used to run traditional cold seal adhesives.

11:25 to 11:50 a.m.

AddWorks IBC 760 – Boosting the Performance of SMP Sealants

Jean Yves, Senior Technical Business Development Manager, Coatings Segment, Clariant International Ltd

Silane modified polymers (SMP) based sealants and adhesives are the fastest growing technology since they combine the advantages of polyurethanes and silicones while cancelling out their disadvantages. Current light and heat stabilization solutions are under the microscope from the regulatory authorities, resulting in reclassification due to increased hazards. In addition, these standard solutions tend to cause yellowing and do not provide sufficient service life for the sealants. To address these challenges, Clariant has developed and introduced on the market AddWorks IBC 760, a label-free light and heat stabilizer solution, along with Hostanox O 3 P as a label-free booster, for SMP sealants.

Noon – 1:00 p.m.

**WEDNESDAY
GENERAL SESSION
KEYNOTE & LUNCH**

Olmsted Ballrooms 1-4,
Level Two

**The Future of AI in
Your Industry**

Noelle Russell, Leading AI Innovator & Practitioner, Global AI Solutions Lead, Accenture Founder & Chief AI Officer, AI Leadership Institute



In this session, renowned artificial intelligence (AI) leader Noelle Russell takes a look at how specific industries are evolving due to the implementation of generative and applied AI technologies. As Russell gets groups thinking about AI and how it can be leveraged in support of their business goals, she shares real-life case study applications that demonstrate more than a dozen applied AI models that can be leveraged to optimize business, create game-changing solutions, and power growth. As Russell examines the opportunities that AI presents for organizations, she also considers the risks, challenges, and ethical considerations — focusing in depth on how AI can be implemented to support human ingenuity, rather than replace it. If your organization is looking to successfully expedite innovation and improve the accessibility of its applications, this program is the perfect starting point.

WEDNESDAY

Wednesday Afternoon Education Sessions

1:15 – 3:50 p.m.

Education Track 1:

Impact of AI on Adhesive & Sealant Innovation

Olmsted Ballroom 5, Level Two

1:15 – 1:40 p.m.

AI Machine Learning in the Development of Polyolefins for Non-Reactive Hot Melt Adhesives

Tim Bizati, Principal Application Development Scientist, Synthomer

As subject matter experts in adhesive technologies, we used AI machine learning to develop non-reactive polyolefin copolymers for the hot melt adhesives industry. We had two goals; first validate predictive accuracy based on available historical data given as the training data set. Second, create a multi-variable matrix with a large number of ingredients and produce an optimal or desired output. We were able to reflect the AI model to actual physical processes and thus make it less reliant on the training data set. We concluded with a stage based approach in developing non-reactive polyolefin copolymers by studying its intrinsic and extrinsic properties.

1:45 – 2:10 p.m.

PolyID: Artificial Intelligence for Discovering Performance-Advantaged and Sustainable Polymers

Brandon Knott, Manager, Computational Modeling Group, National Renewable Energy Laboratory

As a feedstock, biomass contains unique chemical functionalities that present opportunities for producing materials with superior performance compared to petroleum-derived incumbents. We have developed a machine learning tool (PolyIDTM) specifically designed to enable quantitative structure–property relationship (QSPR) analysis for polymers to guide synthesis towards chemistries most likely to display performance advantages.

2:15 – 2:40 p.m.

Building Blocks to the Lab of the Future: Data, Processes, Technology and People

Nick Talken, CEO, Albert Invent

During this session, a case study of the digital transformation of a global R&D Adhesives organization will be presented. Key learnings and considerations will be shared, along with a discussion surrounding the company's vision of the lab of the future that includes leveraging Artificial Intelligence and Machine Learning plus regulatory automation and the introduction of robotics within the lab. The discussion will also focus on specific goals and outcomes of all stakeholders, including IP protection, improved collaboration and increased productivity and speed to market.

2:40 to 2:55 p.m.

BREAK

2:55 – 3:20 p.m.

PANEL DISCUSSION:

Advancing Research & Development through Data, Automation and AI: Opportunities, Challenges and Innovations

Panelists:

- Tim Bizati, Principal Application Development Scientist, Synthomer
- Tim Champagne, Product Development Manager, Henkel
- Brandon Knott, Manager, Computational Modeling Group, National Renewable Energy Laboratory
- Nick Talken, CEO, Albert Invent
- David Wylie, Vice President, Newry Corp.

Education Track 2:

Regulatory & Government Policy

Olmsted Ballroom 6, Level Two

1:15 – 1:40 p.m.

The Home Stretch: What to Expect in 2024 for Federal and State Chemical Policy

Javaneh Tarter, Senior Attorney, Hunton Andrews Kurth LLP

This session will also cover PFAS regulatory developments at the state and federal level and how companies can prepare for these regulations.

1:45 – 2:10 p.m.

Evolving Regulations are Changing the Business Environment for the Adhesive and Sealant Market

Chris White, Senior Managing Scientist, Exponent

The Adhesive and Sealant marketplace is undergoing shifts in its regulatory landscape, driven by various factors. The impetus for regulatory adjustments stems from observing changing climate patterns, increased exposure to extreme weather conditions, the visible accumulation of post-use plastic, and the recognition of low recycling rates. Consequently, the industry is witnessing the implementation of new regulations.

2:15 – 2:40 p.m.

European Regulatory Environment & Future Outlook

Kristel Ons, Secretary General, FEICA

In this presentation, Kristel Ons, Secretary-General of FEICA – Association of the European Adhesive and Sealant Industry, will provide an overview of regulations and regulatory schemes impacting adhesives and sealants in Europe. She will also provide an outlook on future regulatory policy in Europe.

WEDNESDAY

2:40 to 2:55 p.m.

BREAK

2:55 to 3:20 p.m.

Additional PFAS Exposure: Consumer Litigation of PFAS Mislabeled Claims On the Rise

Tanya Nesbitt, Partner, Thompson Hine LLP

Tanya will present on recent litigation and laws regarding the regulation of PFAS in consumer packaging. The CLE will also cover greenwashing mitigation and best practices for adhesive companies. The presentation will focus on successfully navigating new regulatory requirements in the U.S. related to the mandatory disclosure of PFAS.

Education Track 3:

Advancements in Formulation Technologies

Olmsted Ballroom 7, Level Two

1:15 – 1:40 p.m.

The Role of Different Waxes in Crystallization Dynamics of Binary Blends and HMA Formulations

Madelyn Bekker, Principal Engineer, ExxonMobil

In this presentation, we will discuss how these waxes and polymers interact with each other through a series of advanced analytic and application testing techniques, including focusing on critical set time parameters. Fast set time is a critical adhesive performance factor for a packaging HMA and understanding how to formulate with the right wax-polymer combination for optimal performance of the adhesive is the goal in sharing this information with the industry.

1:45 – 2:10 p.m.

Better. Stronger. Faster. Novel Amine Curatives for Urethane and Epoxy Adhesives Systems

Siddhesh Dalvi, Applications Chemist, SI Group

This presentation will cover advances in the development of a novel anionic amine curative for epoxy and polyurea adhesives. Data will be shown for this new system related to shear adhesion performance, cure kinetics, chemical resistance, and blooming compared to standard industrial curatives such as Triethylenetetramine (TETA) and Triethylenepentamine (TEPA). In addition to the construction, automotive, electronics and aerospace industries, these novel aminic curing agents may have adjacent applications in composites, coatings, foams and sealants, and curatives for other adhesives systems such as acrylics.

2:15 – 2:40 p.m.

Poly(chloroprene)-free Waterborne Foam Bonding Contact Adhesives

Joseph Binder, Research Scientist, Dow Chemical Company

Foam bonding contact adhesives are often used to bond components in mattress and furniture construction. These adhesives are sprayed or rolled onto foam pieces and have an instant tack to bond pieces together for the next manufacturing step. Over time, the adhesive bond strengthens so that substrates like polyurethane foam tear before the adhesive bond fails. This presentation reviews the formulation and application of waterborne contact adhesives and discusses advances in poly(chloroprene)-free contact adhesives.

2:40 to 2:55 p.m.

BREAK

2:55 to 3:20 p.m.

Cationic Dual-Cure UV Pressure Sensitive Adhesives

Christopher MacNeill, Senior Research Scientist, Arkema

This presentation will discuss a new class of dual cure UV-PSAs utilizing conventional acrylate monomers, oligomers and photoinitiator, along with an epoxy-based material that can undergo secondary cationic cure. Secondary curing occurs when short wavelength UV light is applied to the cationic photoinitiator, which generates a photoacid that will further crosslink the system over time. This secondary cure gives the UV-PSA systems improved cohesive strength without sacrificing peel strength, which may allow them to be used in semi-structural applications.

3:25 to 3:50 p.m.

Polybutene-1: An Innovative Solution for Tomorrow's Hotmelts

Ankur Rastogi, Innovation Manager, LyondellBasell

New insights will be shared regarding how to formulate with PB-1 for packaging applications in combination with different tackifiers and waxes and the effects on the key adhesive characteristics such as the open and set times including the Shear Adhesion Failure Temperature (SAFT). Examples of PB-1 based hotmelt packaging formulation recipes for high temperature applications as well as deep freeze conditions will be presented.

4:00 to 5:00 p.m.

CLOSING KEYNOTE

Olmsted Ballrooms 1-4
Level Two

Innovations Shaping the Future of Kentucky Bourbon

Bradley Berron, Research Director, The
University of Kentucky's James B. Beam
Institute for Kentucky Spirits



Bourbon is experiencing an unprecedented growth, where Kentucky bourbon can now be found around the globe. With a staggering economic impact exceeding \$9 billion in Kentucky alone, the demand for these iconic spirits continues to soar. While bourbon must conform to a tightly regulated set of definitions, bourbon producers are constantly innovating to meet increasing demands for both the quality and quantity of the final spirit. This talk will explore the process that creates the distinct flavor of Kentucky Bourbon and the innovations that are driving the next generation of bourbon production including forgotten grains, barrel re-engineering, adhesive & sealant emerging opportunities, and environmental impacts to ensure evolution and enduring success for Kentucky Bourbon.



5:00 to 7:00 p.m.

CLOSING RECEPTION *Honoring Rusty Thompson*

Commonwealth Ballrooms 1-3,
Level Two

Wear your favorite college or sports team t-shirt or jersey and join us at this special reception as we close out the 2024 Annual ASC Convention in true "Rusty Thompson style". At the 2015 ASC Fall Convention, Rusty started "T-Shirt Night" to encourage camaraderie among attendees at ASC events. He was former President and CEO of Evans Adhesive, a beloved past ASC Board Chair, and a dear friend to many who passed away earlier this year. Attendees are strongly encouraged to wear your college colors or your favorite sports team t-shirt or jersey.



SPEAKERS



Dan Adams,
President, AIM Institute

Dan Adams, founder of The AIM Institute, is the author of *New Product Blueprinting*, the *Awkward Realities* microblog, and the popular 50-video series, *B2B Organic Growth*. He is a chemical engineer with many patents and awards, including a listing in the National Inventors Hall of Fame. Dan has taught his B2B innovation methods to tens of thousands of B2B professionals globally, lectured at many leading universities, and is a popular industry keynote speaker.



Bill Allmond
President, The Adhesive and Sealant Council

William (Bill) Allmond is currently the President of the Adhesive and Sealant Council (ASC). In his role as president, Allmond is responsible for executing the strategic directions set by the ASC Board of Directors and overseeing the ASC staff. Prior to the ASC, Allmond worked for two national chemical trade associations in Washington, DC, the National Association of Chemical Distributors and the Society of Chemical Manufacturers and Affiliates. He earned a Bachelor of Arts degree in 1994 from George Mason University.



Madelyn Bekker
Principal Engineer, ExxonMobil

Dr. Madelyn Bekker started her career as a distinguished Organic Chemist earning a Ph.D in Organic Chemistry from the University of the Free State in South Africa. Madelyn started her career in waxes as a Senior Scientist at Sasol in South Africa. Dr. Bekker transitioned to the role of Technical Director of Commercial Wax products for Juniper Speiality Chemicals. Subsequently transitioning to Principal Engineer in Wax applications at ExxonMobil, a position she holds currently. Dr. Bekker spearheaded fundamental research initiatives in the value of wax in hot melt adhesives, polymer processing (PVC, PE), candle, wood and paper applications.



Marc Benevento
President, Industrial Market Insight

Marc Benevento is the founder and president of Industrial Market Insight. His experience encompasses over 20 years with global multi-national manufacturers of industrial products in product development, business management, and marketing leadership roles in adhesives, composites, and metals serving the construction, energy, infrastructure, and transportation markets. Marc's background includes nearly a decade in materials engineering at a global automotive OEM in addition to a variety of commercial roles in the chemical, composites, and adhesive industries. Mr. Benevento holds a Bachelor of Science in Materials Science & Engineering from Lehigh University and an MBA.



Bradley Berron

Research Director, James B. Beam Institute for Kentucky Spirits

Dr. Brad Berron Research Director at The University of Kentucky's James B. Beam Institute for Kentucky Spirits, overseeing the coordination of the university's research initiatives with over twenty Kentucky Distilleries and various industry partners. Dr. Berron holds the position of Co-chair of the Kentucky Distillers' Association Technical Committee, and he is an active member of the American Distilling Institute's Distilling Research Grant Advisory Team. Dr. Berron holds a BS in Chemical Engineering from Rose-Hulman Institute of Technology and a PhD in Chemical Engineering from Vanderbilt University.



Joseph Binder

Research Scientist, Dow Chemical Company

Joseph Binder joined Dow Adhesives R&D in 2015 as a polymer synthesis chemist at Collegeville, Pennsylvania. Prior to joining Dow, he worked at BP in bio-based chemicals and fuels research. He completed a PhD in Organic Chemistry from the University of Wisconsin-Madison in 2009.



Tim Bizati

Principal Application Development Scientist, Synthomer

My name is Tim Bizati and I am a Principal Application Development Scientist in Adhesives Technology for Synthomer. I have 15 years experience in the adhesives and sealants industry.

My experience is in formulations, applications, and product development. I have lead projects in polyolefin, polyurethanes, acrylics, and silicone adhesives technologies.



Steve Block

Senior Consultant, Biobased Business, Omni Tech International

Steve is currently a Senior Consultant in the Biobased Business Unit of Omni Tech International where he leads the Adhesives Platform. Steve has been involved in the biobased chemistry industry for over 10 years having held commercial leadership

roles at both Elevance Renewable Sciences and NXTLEVEL Biochem. He received a BS in Chemical Engineering from the Missouri University of Science and Technology, where he is a member of the Academy of Chemical Engineers, and an MS in Engineering Management from Wichita State University.



Jayesh Bokria

R&D Manager, H.B. Fuller Co.

Jayesh Bokria, H.B. Fuller Currently an R&D Manager in the Engineering Adhesives division, Jay is responsible for the Photovoltaic Encapsulant technology globally. He brings 15+ years of experience in the application of polymers within the solar space. Previously, Jay was a senior technical

manager and helped design and build the company's encapsulant manufacturing capabilities in North America. Jay obtained a Ph.D. from University of Connecticut and has held roles in Management, Operations, Engineering, R&D and Marketing over his career.



Michael Bonner

VP - Engineering & Technology, Saint Clair Systems Inc.

Michael Bonner is the Vice President of Engineering & Technology for Saint Clair Systems, Inc., a leading supplier of process temperature and viscosity control equipment for industrial fluid dispensing systems. A degreed electrical engineer, over the years, he has spent time in a wide variety of industries including audio systems, medical equipment, HVAC and appliance controls, metal stamping, even the manufacture of gasoline pumps. For more than 25 years, however, he has focused on the science of point-of-use temperature and viscosity control in fluid dispensing processes.



John Brandt

Technical Manager Adhesives and Sealants North America, Covestro LLC

John received a BS in Chemistry and a Masters in Polymer Chemistry from Carnegie Mellon University. He began his Covestro career in the Coatings laboratory in 1988. In 1997 he became a Key Account Manager for Adhesives and in 2000 transferred to Germany and worked in both Dormagen and Leverkusen, and was named commercial head of the Adhesives and Sealants business for Europe in 2003. After his return to the Pittsburgh in 2005, John took on roles leading US efforts in diverse areas including printed light, holography, cosmetic raw materials, carbon nanotubes and university relations. In 2012 John rejoined the Coatings and Adhesives organization and has since served as North American Technical Manager for a number of different teams including UV Curable Coatings, Infrastructure and Adhesives and Sealants.



Heather Campe

Senior Vice President, H.B. Fuller

Heather Campe currently serves as Senior Vice President of International Growth at H.B. Fuller. Over the course of her career with the company, she has served as Senior Vice President of Personal Care; Senior Vice President of Americas Adhesives; Vice President of Asia Pacific; Business Director of Hygiene; and Business Director of Converting. Campe began her career at National Starch and Chemical Company (now Henkel Corporation), where she held technical service, sales and marketing positions. Campe holds a bachelor's degree in chemical engineering from Purdue University, an MBA from the University of Cincinnati College of Business, and she completed the Advanced Management Program at The Wharton School at the University of Pennsylvania.



Tim Champagne

Product Development Manager, Henkel

Research and product development professional with a track record of leading advancements in technology with contributions including global commercial products, international patents, and peer-reviewed publications. Prior to working with Henkel, Tim worked as Research Chemist at Materia. His primary focus was industrial R&D of olefin metathesis catalysts and reactions. My secondary roles included scale-up process development, triglyceride chemistry, intellectual property, and business development. Earned a Ph.D. in chemistry from University of California, Irvine and Bachelor of Chemistry from California State University.



Rosemeire Ciro

Market and Applications Lab Manager, Momentive Performance Materials

Rosemeire Ciro, Technical Manager at Momentive Performance Materials for Coatings, Adhesive and Sealants business segment. Rose is based in São Paulo, Brazil, and is responsible for the application laboratory and technical support for polymers, silicones, and silanes. Rose graduated with a master's degree in Polymers and Industrial Process Engineering and she is currently working towards her MBA in Marketing Strategy. Rose has more than 20 years of experience in the Coatings, Adhesives and Sealants market, focusing on research and development and products application.



Thomas Clark

Principal Investigator, DuPont

Tom is responsible for development of battery thermal management solutions for EV in addition to glass bonding and specialty adhesives applications. In his 15-year career with DuPont, he has developed materials and solutions across a broad range of industries including automotive, packaging, industrial coatings, consumer care, and agrosiences. He is an inventor of 34 US patents and has authored 11 peer reviewed publications. Tom received his B.S. in chemistry from the University of Wisconsin Oshkosh, Ph.D. in chemistry from the University of Wisconsin Madison and completed two years of postdoctoral research at MIT.



Adam Cowell

Technical Market Development Manager - Adhesives, Ingevity

Since completing his PhD from the University of Birmingham (UK) in 2010, Adam has worked within the adhesive market sector and his career to date has developed many adhesive technology platforms (Hot Melt Adhesives, Water Based PSA and Polyurethane Adhesives). Adam joined Ingevity in 2018 as a Technical Market Development Manager for Adhesive. Working in Ingevity's Advanced Polymer Technologies business (UK), Adam has been part of Capa's innovation growth and has focused on creating an adhesive application laboratory that can provide data and new innovative Capa solution to its customers.



Siddhesh Dalvi

Applications Chemist, SI Group

Siddhesh graduated in 2019 from the University of Akron, Ohio with a PhD in Polymer Science. His PhD thesis focused on understanding contact mechanical behavior of adhesives and elastomers particularly on rough surfaces. He joined SI Group in 2021 as an Applications Chemist and has been working on development and characterization of curatives, tackifiers, antioxidants, and other additives for adhesives and elastomers. Siddhesh is based out of the Greater Houston area where SI Group's Global Innovation Center and Headquarters are located.



Jean-Yves Desrats,
Senior Technical Business Development Manager,
Coatings Segment, Clariant International Ltd

Jean-Yves Desrats holds a Master's Degree in Chemistry and Chemical Engineering, from CPE Lyon, France. He joined Clariant in 1993 as an application and development engineer in the paints and printing inks laboratory, in charge of the development of pigment dispersions and technical service. He later held the position as Head of Laboratory for special applications. In 2003, he joined the Coatings team as Technical Marketing Manager. Since 2008, he has been working in the Polymer Additives field for light and heat stabilizers. Since 2023, he is Senior Technical Business Development Manager for the Coatings segment, within the Business Segment Coatings & Adhesives.



Panuswee Dwivedi
Project Manager, ADI Analytics

Panuswee Dwivedi is project manager at ADI Analytics and ADI Chemical Market Resources. She brings experience in the oil and gas upstream, midstream, and downstream sectors and in commodity and specialty polymers markets. She is a research professional who has used a mix of primary and secondary research to size segments, understand technology and economics, and assess competitive landscape of companies in the oil and gas, chemicals, and energy industries. She holds M.Sc. in petroleum engineering from University of Houston, and B.Tech. in petroleum engineering from Pandit Deendayal Energy University, India, with internship experience in production engineering from Oil and Natural Gas Corporation, India.



John Ely
Chief Marketing Officer, Heartland Industries

As Heartland Industries' Chief Marketing Officer, John is responsible for evaluating, developing, and implementing strategic marketing and corporate growth plans as well as directing all business development initiatives. John holds an Associate's Degree in Electrical Engineering, a Bachelor's Degree in Business Management and a Master's Degree in Marketing and Communications. John also served as an adjunct professor at Franklin University where he taught business, marketing and advertising courses. Mr. Ely sits on the Board of Directors at the Ohio Energy Project, and is a former Corporate Mentor at the Ohio State University's Fisher College of Business. John has published many articles about sustainable business, winning four Bronze Quill Awards, and has a new book on industrial sustainability titled, "Industry 5.0" set for publication April, 2024.



Ronald Emanuel
Head of Product Development AMS, BU Urethane Systems, LANXESS Corporation

Ronald M. Emanuel, Jr. has been a chemist with LANXESS Urethane's Systems since May of 1998. During his 25+ year career Mr. Emanuel pioneered low free monomer methylene diphenyl diisocyanate (MDI) technology development and production scale up globally. Ron currently leads the Urethane Systems AMS Product Development group, including a research focus in development of novel biobased low monomer prepolymer formulations for adhesives, coatings, and sealants.



Chad Foster

Business Leader & Motivational Speaker

Chad E. Foster is a husband, a father, and an avid snow skier (that is not a joke) who is not just competing with his condition; he is competing with the world's most successful people. Chad believes he is not successful despite being blind, but rather he is successful because he's blind. Throughout his career,

his financial strategies and decisions have resulted in the creation of countless jobs, billions of dollars in revenue, industry-leading growth, and best-in-class margins. He works at Red Hat, one of the most innovative Tech companies and the world's largest open-source software company. With speaking invites from London to Beijing and the Atlanta Opera commissioning an opera inspired by his life story, Chad inspires people to overcome their own blind spots.



Bob (Tsung-hao) Fu

Research Scientist, Arkema

Bob currently serves as Research Scientist at Arkema, where he focuses on the development of new waterborne emulsion polymers for the building and construction market. Before joining Arkema, Bob worked for Ecolab, where he developed new inverse emulsion polymers for hydraulic fracturing.

Bob has a Ph.D. in Chemistry from the University of Texas at Austin and completed a postdoc at the Polymer Science and Engineering department at University of Massachusetts Amherst.



Samantha Hanafin

Chemist, Wacker Chemical Corporation

Samantha Hanafin is currently a chemist at Wacker Chemical Corp. Her four years in industry have been at Wacker and have consisted of both production and laboratory experience. While in production, she maintained mixing equipment for Heat Vulcanizing Silicone Rubber and Liquid Silicone Rubber. After

her time in production, she transitioned to the silicone sealant side of Wacker's Silicones division focused on construction and DIY applications. She holds a degree from Michigan Technological University in Chemical Engineering.



Josh Harju

Research Chemist, Bostik (Arkema's Adhesive Solutions Segment)

Josh Harju is a distinguished research chemist and biologist, holding degrees from the University of Wisconsin-Milwaukee. Specializing in reactive chemistry, he is an expert in his field. Using reactive technology, he has developed coating

and extrudable solutions for heat seal, can coating, and cold seal applications. Since joining Bostik in 2017, his innovative contributions have elevated adhesive technology and created sustainable solutions for the flexible packaging market.



Richard Helling
Principal, Helling Sustainability LLC

Dr. Rich Helling is Principal of Helling Sustainability LLC, founded after nearly 35 years at Dow, where he was the Global Expertise Principal in Sustainability and Life Cycle Assessment (LCA) and had experience in process research, development, manufacturing, and sustainability. From 2010 onwards, he was part of Dow's sustainability group, using LCA, developing new tools, metrics and strategies. Rich holds a bachelors' degree from Harvey Mudd College with majors in Engineering and History, a masters' degree in Chemical Engineering Practice from MIT, and a doctorate in Chemical Engineering, also from MIT. He also taught at MIT and University of Michigan.



Jan Henke
Director, ISCC and Meo Carbon Solutions

Jan studied International Economics. He then worked for four years at the Kiel Institute for the World Economy in the research area of environmental and resource economics. During that time, he also acquired his PhD. He then joined Meo Carbon Solutions, a management consultancy focusing on sustainability, climate change, carbon markets, renewable resources and energies, bio- and circular economy and sustainability certification. He leads the ISCC PLUS development.



Marcelo Herszenhaut
Commercial Manager, LEHVOSS North America

Marcelo Herszenhaut received his B. Sc. In Chemical Engineering in 1984. He has worked in the petroleum and petrochemicals, polymers, coatings, and fiber industries, in technical as well as in sales, marketing, and management positions. Marcelo is currently the Commercial Manager for Lehmann & Voss North America, responsible for the Surface Technology business unit, which includes rheology modifiers and functional fillers.



Yun Mi Kim
Senior Technical Marketing Director, Cardolite Corporation

Yunmi started her professional career at Kukdo Chemical as a research chemist. She earned her doctorate in materials science and engineering from University of Florida. She worked for the Gelest for 5 years as technical service manager. Her current position is a senior technical marketing director for Cardolite Corporation. Her expertise includes surface chemistry, Silicon chemistry, Epoxy and Polyurethane technology in coatings, adhesives, and composite industries.



Brandon Knott
Manager, Computational Modeling Group,
National Renewable Energy Laboratory

Brandon Knott is the group manager of the Computational Modeling group in the Bioenergy Science and Technology Directorate at the National Renewable Energy Laboratory (NREL), where he manages a group of researchers employing various flavors of modeling at scales ranging from atomic to reactor. Additionally, he leads research projects related to solving various bioenergy and biomaterials challenges, including polymer property prediction and structure-function relationships in biomass- and polyester- degrading enzymes, using a variety of computational techniques including molecular dynamics (MD), quantum chemical (QM) calculations, hybrid QM/MM simulations, and machine learning.



Christopher MacNeill
Senior Research Scientist, Arkema

Christopher MacNeill is a Senior Research Scientist at Sartomer Americas, a division of Arkema, specializing in formulation development for industrial coatings, adhesives and personal care applications. Prior to Sartomer, Christopher spent four years at L’Oreal USA R&I focusing on UV/LED curable and waterborne coatings for nail applications. He holds a Ph.D. in Materials Chemistry from Wake Forest University and completed a DoD funded postdoctoral fellowship in biomedical engineering.



Tanya Nesbitt
Partner, Thompson Hine LLP

Tanya Nesbitt is a partner at Thompson Hine LLP and co-leader of the firm’s Greenwashing and Defense Mitigation Team. Tanya is a litigator and has represented federal agencies and highly regulated businesses in litigation related to federal lands and environmental permitting, natural resources, land management and wildlife management decision-making. Ms. Nesbitt’s environmental expertise also includes regulatory counseling on issues related to the Clean Water Act, Resource Conservation and Recovery Act and the Toxic Control Substances Act. She is a graduate of Smith College and The George Washington University Law School.



Stephen Neuman
Director, Graco

Stephen Neuman is Director of the Customer and Innovation Center at Graco, the world leader in meter, mix, and dispense equipment for adhesives, sealants, and functional coatings. Stephen has over 20 years experience in adhesives and in-plant automotive manufacturing processes. Stephen believes that adhesive technology is the key to enabling the breakthrough EV designs of the future. Stephen received a Bachelor of Science in Mechanical Engineering from the University of Iowa and a Masters in Business Administration from the University of Michigan.



Kevin Norfleet
Global Sustainability Director, Celanese

Kevin Norfleet, Global Sustainability Director, at Celanese leads sustainability efforts for the Acetyl Chain business. Kevin recently led the launch of a Carbon Capture and Utilization project, offering a wide range of solutions that reduce the need for fossil fuels by using CO2 emissions to produce adhesives, packaging, paints and coatings, consumer goods and more. Kevin has been with Celanese for nearly 16 years and has held various technical and commercial roles. Kevin earned a Bachelor of Science in Chemical Engineering from Virginia Tech and is an active member of the advisory board for the Virginia Tech Department of Chemical Engineering.



Kerry O’Donnell
Research Scientist, Avery Dennison Advanced Materials

Kerry O’Donnell is a research scientist for Avery Dennison’s Advanced Material Solutions group (AMS), focusing on long term research projects. Working in the group for 6 years, he has worked on designing and scaling pressure sensitive adhesive formulations with particular focus on dispersion and emulsion systems. Kerry holds a B.S. degree from Lock Haven University.



Ruairi O'Kane

Senior Technical Director-Carbon Products, Origin Materials

Ruairi Okane completed chemistry undergrad at Trinity College Dublin, and received a Ph.D in Organometallic Chemistry from the University of Liverpool. Ruairi have 15+ years industrial experience in polymers and material science developing thermoset and thermoplastic resin systems for multiple industries, with focus on aerospace and automotive. Before joining Origin in Jan 2023, Ruairi have held leadership positions in research & product development, as well as market & technology strategy.



Shun Okura

Sales Engineer of Specialty Chemicals, Kuraray Co., Ltd.

Shun is currently a researcher in the Isoprene Chemicals Business at Kuraray CO., LTD. He graduated from Meiji Pharmaceutical University with a degree in pharmacy and Master of Engineering from Tokyo Institute of Technology. He started his career as an organic chemist developing new polymers. He has been engaged in Kuraray specialty diols and polyols as a researcher since 2020.



Kristel Ons

Secretary General, FEICA

Kristel Ons is the Secretary General of FEICA (the Association of the European adhesive and sealant industry). Prior to joining FEICA, Kristel had a successful career in global business development across a range of industries. Her ability to understand customers' strategic initiatives and identify opportunities has been the driver of her professional life. Based in Brussels, Belgium, Kristel holds a Bachelor's in Marketing & Communications, a Postgraduate Diploma in Corporate Finance, and an Executive Master's in International Association Management. In addition, she is a certified Prince2© Foundation Project Manager.



Kanehiro Osakabe

Senior Resercher, Shiraishi Central Laboratories Co., Ltd.

Kanehiro joined Shiraishi Central Laboratories in 2008 to work on the development of UFPC for sealants, becoming Chief R&D Researcher in 2015 and Senior Researcher in 2020 to present.



Rafael Pellicciotta

Strategy & Business Development Leader, Braskem

Rafael Pellicciotta is Strategy, Business Development and Product Development Leader at Braskem Specialty Chemicals & Renewables. He has a broad experience with petrochemicals and polymers. He hold positions at R&D, engineering, production, strategy, business development and technical service in relevant chemical companies.



Tad Radzinski

Co-Founder and President, Sustainable Solutions Corporation

Formerly the EPA's Waste Minimization National Expert, Tad has been a trusted advisor for Fortune 500 companies for over 30 years. Tad is the Co-founder and President of Sustainable Solutions Corporation where he provides consulting and training for decarbonization strategies across companies in a wide range of industries. Tad was instrumental in the development of Villanova University's Master of Science Degree in Sustainable Engineering. He was an adjunct professor at Villanova for 18 years where he taught classes including Advanced Life Cycle Assessment and Introduction to Sustainable Product Innovation.



Ankur Rastogi

Innovation Manager, LyondellBasell

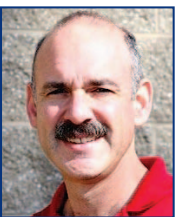
Ankur holds a Master's Degree in Physics (University of Lucknow, India), a Ph.D. in Polymer Technology (Eindhoven University of Technology, The Netherlands) and a Post Graduate Certificate in Business Administration (Open University, UK). He joined LyondellBasell in 2007 and served as ADTS (Application Development & Technical Service) responsible for Polyethylene Film & Textile applications followed by Polybutene-1 (PB-1) Specialties in 2015. In 2019, he was designated as Business Development Manager in the Advanced Polymer Solutions (APS) division. Beginning 2023, he has been appointed as Innovation Manager (PB-1 & Catalloy) in Olefins & Polyolefins division based in Frankfurt (Germany). Prior to joining LyondellBasell, Ankur had 3.5 years R&D experience in PET business with Equipolymers GmbH and one year Post-Doctorate at University of Freiburg (Germany).



Noelle Russell

Global AI Solutions Lead/Chief AI Officer, Accenture Founder/AI Leadership Institute

With a profound passion for technology and its potential to transform business and society, Noelle Russell has dedicated her career to helping organizations uncover the possibilities artificial intelligence presents to their businesses and guiding them through the intricacies of AI adoption. In her current role, Russell is the global AI solutions lead at Accenture, where she advises companies across industries on how to integrate emerging technologies — including AI, Web3, and the Cloud — into their operations and workplace strategies. She is an award-winning technologist with an entrepreneurial spirit who has led innovative tech teams at NPR, Microsoft, IBM, AWS, and Amazon Alexa, and is among the world's leading voices on data and AI literacy.



Larry Saidman

Chief Technologist - R&D, Nordson

A Nordson employee since 1984, Larry Saidman holds 74 patents with Nordson Corporation, including advancements in adhesive jetting, foaming and precision application. His current role is Chief Technologist, an R&D role for developing adhesive application systems technology. Larry holds a BS in Chemical Engineering from Cornell University and an MBA in Innovation and Entrepreneurship from Case Western Reserve University.



Raphael Schaller CTO, Collano AG

Raphael began his career as a technician in synthetic materials at Sika AG and Johnson Electric, both based in Switzerland. He pursued undergraduate studies in Materials Science at ETH Zurich and Queen Mary University London, earning his master's degree in 2012. In 2013, Raphael commenced his doctoral studies in polymer science at ETH Zurich, focusing on "Creating Complex Polymer Systems - From Polyethylene Al Dente to Polystyrene Mille-Feuille." Following his Ph.D., he conducted postdoctoral research in Switzerland and China in 2016. In January 2017, Raphael joined nolax, where he established the start-up "Thin-ply". By October 2018, he took over the role of CTO, overseeing both the Application and R&D teams at nolax. Since January 2024, Raphael has held the position of CTO at Collano AG.



Gary Silberg Partner – Global Automotive Sector Leader, KPMG LLP

Gary is the Firm's National Automotive Industry Leader, as well as the Global Lead Partner for Ford Motor Company. Gary has 25+ years of business experience, including over 17 years in the automotive industry. For the past eight years he has focused on the intersection of technology and the automotive industry with groundbreaking research on Self-Driving Cars, connectivity, and mobility demand services. Gary has worked as an advisor to Ford Motor Company on its three most recent divestitures: Aston Martin, Jaguar/Land Rover, and Volvo and its recent multibillion AV Joint Venture with Volkswagen. Mr. Silberg has also advised Chrysler Corporation as part of its transaction with Fiat and now is working on the Peugeot/Fiat Chrysler transaction.



Matthias Steffen Project Manager, Rain Carbon Germany GmbH

Matthias Steffen is currently working as the Project Manager for Application Technology Adhesives at Rain Carbon Germany since 2018. In this position his focus is on the develop new application fields for hydrocarbon resins. In particular he focuses on reactive adhesives such as PUR or epoxy based systems. Before joining Rain Carbon, Matthias worked as a research associate at the Johann Heinrich von Thünen Institute for almost three years, from November 2015 to June 2018. His main focus during this time was on the development of bio-based non-reactive hot melt adhesives. This research project was carried out in collaboration with H.B. Fuller. Based on this work Matthias received a Ph.D. from Technische Universität Braunschweig.



Leah Sullivan Business Development Manager, Munzing

Dr. Leah Sullivan is the Business Development Manager at MÜNZING North America for the Construction and Coatings group. She has previously led the technical team focusing on identification, troubleshooting and development of the product line. She has extensive experience in new product development, applications troubleshooting, and manufacturing support. Her academic background is in chemistry and polymer technologies.



Nick Talken
CEO, Albert Invent

Nick Talken has over a decade of experience driving innovation in chemistry and materials science, holding multiple patents across digital inks and 3D printing. As a software and chemical engineer who wants to “make a dent in the universe”, Talken is

Co-Founder and CEO of Albert Invent, an end-to-end R&D data platform—being used by thousands of scientists worldwide. Before Albert, Nick led the Global R&D digital transformation at Henkel Corporation. Prior to Henkel, Talken was CTO of Molecule Corp, which was acquired by Henkel; and has held several research and software development roles across Silicon Valley tech companies.



Javaneh Tarter
Senior Attorney, Hunton Andrews Kurth LLP

Javaneh Tarter is a Senior Environmental Attorney at Hunton Andrews Kurth. Javaneh previously worked as in-house counsel for the American Coatings Association where she provided regulatory and government affairs services, and advice and

counsel concerning environmental management, occupational safety and health, product stewardship, and chemical policy. She most recently worked in private practice providing legal counsel to clients on TSCA, FIFRA, OSHA, and state chemical regulatory and enforcement matters.



Toby Vick
Principal Chemist, Wacker Chemical Corporation

Toby Vick is a Principal Chemist at Wacker Chemical Corporation specializing in application development with silane modified polymers. Toby holds chemistry degrees from University of Toledo and Sienna Heights University and has over 35 years of

experience in product and application development with silicone, silicone elastomers and silane modified polymers.



Bruce Ward
Senior Engagement Manager, Ducker Carlisle

Bruce is a Senior Engagement Manager at Ducker Carlisle where he leads clients and analyst teams through project engagements and specializes in building products and construction industry practice. Bruce holds a Bachelor of Arts in Economics from

The University of North Carolina. He has experience leading teams in consulting and research and has led critical strategic planning, association study engagements (including with the ASC), market opportunity and competitive intelligence engagements at Ducker Carlisle for over 8 years. Clients value Bruce’s capabilities in strategic consulting where he has enabled data-driven decision-making through market insights, processed and organized information to appropriately contextualize the client’s business in the market, and facilitated implementation of findings into successful business initiatives and action.



Chris White
Senior Managing Scientist, Exponent

For over thirty five years, Dr. White has focused on understanding the complexities surrounding the interactions between plastics and the environment. Currently serving as a senior managing scientist at the technical consulting firm Exponent Inc. Prior

to joining Exponent, Dr. White, served as a research scientist at NIST, where he pioneered the tools, experiments, and analysis to deliver the first validated prediction of how plastics react to outdoor weathering. Dr. White brings a comprehensive understanding of regulatory processes, standards development, and practical business considerations related to proposed changes. Dr. White holds a Ph.D. from the University of Wisconsin-Madison and an MBA from the University of Maryland.



Steve Williams

VP, C5 and Hydrocarbon Resins, Argus Media

Steve Williams is VP for C5 and Hydrocarbon Resins at Argus Media, Inc. Steve is responsible for overseeing the C5 consulting and editorial publications, including the monthly C5 and Hydrocarbon Resins Report and the Hydrocarbon Resins Annual Analytics. Steve joined Argus in March of 2020 and has over 38 years of experience in the petrochemical industry, including over 28 years at The Dow Chemical Company (now Dow Inc.).



Chuck Williams

Sr. Global Technical Director and Fellow, Avery Dennison

Mr. Williams is a graduate of Penn State University with a degree in polymer science. He has held research and technical rolls with United Technologies, Total and Westinghouse Electric prior to joining Avery Dennison. He has worked in the Adhesive area for

the past 30 years with Avery Dennison in various research, technical service and technical management positions. He is currently a Sr Technical Director, Global Platforms and Research Fellow.



David Wylie

Vice President, Newry Corp.

David Wylie is a Vice President at Newry, a boutique consulting firm focused on driving organic growth for clients in the specialty materials, chemicals, and industrials spaces. David has over a decade of experience working with clients to identify and execute on new opportunities and build growth

strategies for clients that manufacture polymers, adhesives, performance additives, sealants, inorganic materials, and others.

PROGRAM PLANNING COMMITTEE

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

Bill Arendt, Consultant

Chris Armstrong, Teckrez, Inc.

Michael Barker, Bostik

Peter Carbutt, ITW Performance Polymers & Fluids

Anne Dussaud, Momentive Performance Materials

Leandro Estrada, Hauschild Speedmixer Inc.

Christopher Johnson, Ingevity

Jay Johnston, Covestro

Yingjie Li, Henkel

Brett Neumann, Kraton Chemical, LLC

Jignesh Sheth, Henkel

Ingo Stohrer, Evonik Corporation

Chuck Williams, Avery Dennison

Malinda Armstrong, CMP &

Mani Singh, PhD, ASC Staff Advisors

**Committee listing subject to change*

Please Welcome Our Newest Members

**as of February 22, 2024*

- Excel Color
- HarperLove Adhesives
- Brenntag Specialties, LLC
- EPS- Engineered Polymer Solutions
- Holland Colours Americas, Inc.
- ExxonMobil Product Solutions
- Newson Gale
- Re-Mixers Inc.
- Weiss USA LLC
- Isotec International

INTERESTED in joining ASC? Contact Brian Peters at brian.peters@ascouncil.org.

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