



TPO® 2019
AUTOMOTIVE ENGINEERED
POLYOLEFINS CONFERENCE
Troy, MI • October 6-9, 2019
Presented by SPE Detroit Section

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SHOWCASING TALKS BY THESE INNOVATIVE KEYNOTE SPEAKERS:



JOEL MORALES,
Executive Director Polyolefins Americas, IHS Markit
Global PP Update: What a difference a Year Makes!



JEEVAK BADVE, *Principal and Director
of Strategic Growth, Sundberg-Ferar*
Occupy Your Position on the 'Design Maturation Spectrum'



KRISTIN DZICZEK, *Vice President of Industry,
Labor & Economics Center for Automotive Research (CAR)*
**Front & Center: A Focus on the Automotive Rules
of Origin in the US Trade Negotiations**



DR. ARASH KIANI, *CEO, Alterra Holdings*
Global Automotive Elastomers Innovation and Outlook



KEYNOTE SPEAKERS

KIM HOLMES,
Vice President of Sustainability, Plastics Industry Association
Delivering on the Sustainability of Plastics

PRESIDENT'S MESSAGE

Laura Shereda, Ph.D., Asahi Kasei Plastics North American

Hello Detroit Section members,



The SPE Detroit Section is known for its community involvement, educational outreach and outstanding conferences. With this group's high level of dedication, I am honored to assume the role of President.

For those who do not know me, I graduated with a Ph.D. in Chemical Engineering from the University of Michigan in 2010. Since then, I have worked in the plastics industry in R&D and product development-based roles. I have been with Asahi Kasei Plastics North America since 2013, and currently work as a Polymer Scientist with a focus on long-term developments, including significant work in plastics emissions.

I joined SPE as a member in 2012, later becoming part of the SPE Detroit Section's Board of Directors in 2013. I have been heavily involved with both the TPO and AutoEPCON conference committees in a variety of roles, working on the technical programs, session chair/moderator and assisting with audio visual and content for proceeding booklets. Some of my other activities include being a co-chair for the Materials Auction and participating in several other SPE events

After seven years with SPE, I have a strong foundation of what I would like to accomplish during my time as President. My focus areas will be: defining and

evaluating how current programs fit the mission and scope of the Section, increasing educational outreach, and succession planning. The key to defining our success lies within following the current mission of our Section, which is "SPE's Detroit Section is active in educating, promoting, recognizing, and communicating technical accomplishments for all phases of plastics and plastic based-composite developments - particularly in the automotive industry. Topic areas include applications, materials, processing, equipment, tooling, design, and development".

In the next few months the Board will take a step back and look at existing programs to understand how they fit into our current mission and determine if we are reaching our target audiences. We will also evaluate the return on investments of time, energy and funding for current programs, and determine what new programs we want to pursue.

Along with evaluating current programs, the Detroit Section will continue the commitment to providing plastics education at many levels, including undergraduate and graduate students, and high school and middle school students. Revenue from our conferences and Materials Auction allow us to give out thousands of dollars of scholarships each year to deserving students. Last year, the Detroit Section gave out \$41,000 to 21 students. The Section also provides funding and support to student chapters and plastic programs, in which

students can apply for funds to be used for conference travel, special events and equipment. New this year, the Detroit Section will offer a scholarship specifically for women in plastics.

In an effort to increase participation of existing student chapters, this year we will be hosting at least one technical dinner near each of our student chapters. We hope that increasing interaction with students will help us understand what value SPE brings to young people and how we can help these chapters continue to grow.

“My focus areas will be: defining and evaluating how current programs fit the mission and scope of the Section, increasing educational outreach, and succession planning.”

It is critical for us to have a focus on the younger generation; in recent years, SPE as a whole has struggled to recruit and retain the newest generation of plastics professionals, whose participation is critical for the organization to continue to thrive. For this reason, I believe it is time for us as a section to work on succession planning

for both board positions and critical conference roles. We are fortunate enough to have long term members with a vast amount of experience, including several of the founders of our major conferences and events. We need to capture this

expertise and ensure that it is passed on to future generations. I would like to open my personal email, which is lshereda@akplastics.com, for those interested in working with these committees and growing with the SPE group.

I would like to note that the SPE membership is free for two years for young professionals beginning their careers. I encourage all young professionals to sign-up and participate in SPE and to register to be part of the Detroit Section.

Finally, I would like to finish with a few additional remarks:

Our kick-off event will occur on September 9, 2019 at 5:00pm at the Michigan State Management Center in Troy Michigan. This technical dinner will focus on 3D Printing of Composites, with a presentation by Jeff De Grange, the Chief Commercial officer of Impossible Objects, Inc.

Please mark your calendar for the 21st annual TPO Conference on October 6-9, 2019, at the Marriott in Troy, MI. The conference will follow the traditional format of two and a half days of papers. On Sunday night, there will be two workshops on 3D printing.

As always, thank you for your continued support of SPE. I look forward to serving you this year.

Laura Shereda

LETTER FROM THE EDITOR

Eve Vitale, Series One LLC



Dear Detroit SPE – I hope you had a great summer. Things seem to slow down, but now that September is here many of us are gearing up for conference season and a faster pace at work.

We have the ACCE in Novi, September 4–6, a joint effort of the SPE Composites and Automotive Divisions – check it out. For me what comes next is the SPE Thermoforming Conference in Milwaukee September 9–11; the SPE Blow Molding Conference in Atlanta September 16–18, the Plastics Industry Association annual meeting

in Cape Coral, Florida September 17–20; and VinylTEC from the SPE Vinyl Division and the Akron Section in Akron October 1–3. I won't be at the CAD RETEC put on by the SPE Color and Appearance Division on September 23–25, in Cleveland, but the PlastiVan® will be there. And then there is our own SPE Automotive TPO Conference in Troy October 6–9! There are so many plastics educational opportunities for SPE members, many of them close to home. I hope you take advantage for the things you will learn and the networking fun. You won't be disappointed.

Until next time –

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SPE DETROIT MEMBER TRIBUTE

LAURA SHEREDA PH.D.

Lyle Beadle



Laura Shereda, Ph.D., is the fifth woman president of Detroit SPE and one of the youngest in the organization's 77-year history. Her perspective and mission for 2019–2020 presidency is strongly influenced by her dedication as Detroit's membership chair

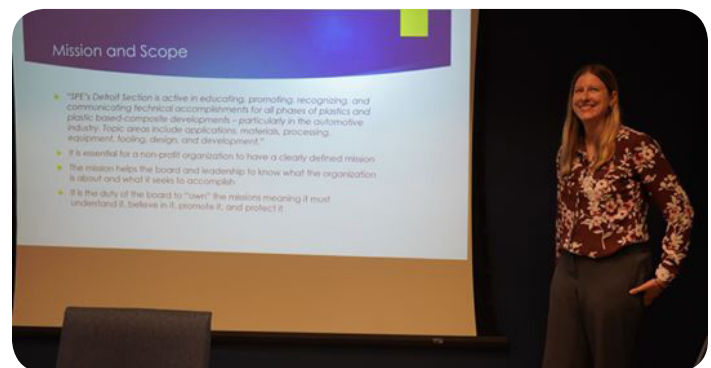
and work on the education committee as well as her commitment to flexibility. "We need to do the right thing and provide additional value on behalf of our SPE Detroit Section," she said as we discussed the importance of our educational mission and how we could better attract young professionals by helping them focus on creating stronger professional networks.

As a highly dedicated research scientist working for Asahi Kasei Plastics North America, Laura is no stranger to hard work and perseverance. She was raised in a family that encouraged higher education. Her mother is a chemistry and biology college graduate, her father is a graduate engineer, recently retired from Link Engineering, and her three siblings are all professionals. Laura did her undergraduate and graduate work at the University of Michigan, receiving her Ph.D. in Chemical Engineering. Her thesis, on colloidal crystallization and rheology, was sponsored by Ron Larson, former department chair, and Mike Solomon, who is now Dean and Vice-Provost for Academic Affairs – Graduate Studies.

I sat with Laura over lunch in Fowlerville Michigan,



near Asahi Kasei NA headquarters, to gain a more complete understanding of her drive, commitment, and volunteer efforts to keep the SPE Detroit Section relevant and current in our fast moving 21st century. Her ideas create a compelling backdrop that could very well forge a new path toward sustaining our SPE Detroit Section membership's strong heritage of performance and accomplishment.



"People don't like to change," she said. "Therefore, we must remain flexible and be willing to change our historical perspective of inviting people to get involved. In essence, find new ways to draw young plastics professionals into our SPE world, creating a different approach to get the next generation involved." With the average age of our SPE Detroit Section board members at 62, she explained, Laura sees succession planning as critical. She hopes that remembering young professionals are people first, plastics industry employees second, will guide us in developing the necessary relationships upon which we can continue to build our membership.

Figuring out the why was easy, figuring out the how may not be as clear, but Laura is intrigued with puzzles and how to solve them by employing different strategies and tactics. In graduate school, Laura worked with her colleagues introducing plastics to middle school girls. Introducing chemicals without a connection didn't seem as if it would work, so she determined what middle school girls like a lot – nail polish. Using chemicals, butyl acetate, nitrocellulose and

“People don’t like to change,” she said. “Therefore, we must remain flexible and be willing to change our historical perspective of inviting people to get involved. In essence, find new ways to draw young plastics professionals into our SPE world, creating a different approach to get the next generation involved.”

ground pigments, the girls became ‘hands on’ and learned how things are made. In this situation, these young ladies were the beneficiaries of learning about chemicals and polymers. Their fingernails proved it! In her career so far, she most enjoys spending time at various plants and customers, trouble shooting processes, developing new materials, and working to understand complex issues that give Asahi a competitive advantage in different markets.

SPE while not closing the door to our current successes. By building on these programs, such as the annual TPO Conference and Auto EPCON, she noted that these events are appropriate launch pads for our new younger members. She sees continued support of the PlastiVan® program as a way for us to help address the changing perceptions of single-use plastics. She recognizes the opportunity to use media and advertising more effectively by looking at who we are, assessing the work that we do, and identifying the right things to sustain our membership and program agenda for the future. “Let’s be willing to open our eyes and try new things!” she said with enthusiasm.

Laura’s efforts for the future are likely to lead to a more energized SPE Detroit Section. “As our OEM customer base is changing their paradigm, so too must we adopt new paradigms that will usher our SPE Detroit Section into the 21st Century.” She needs our support to do the right thing and construct a reinvigorated perspective. Certainly, a challenge, but together, we’re up to the task!

Laura is an advocate for change who wants to lead us in innovation and finding new ways to draw people to Detroit

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THE HISTORY OF WOMEN'S LEADERSHIP IN DETROIT SPE

Wayne Hertlein, SPE Detroit Historian



Here is the history of the Women Presidents of the SPE Detroit Section and the years they presided:

- Katherine Rowley 1992-1993
- Cindy Hammer 2007-2008
- Sandra McClelland 2009-2010
- Eve Vitale 2018-2019
- Laura Shereda, Ph.D 2019-2020

Here is the history of the Women that have received the Outstanding Member awards from the SPE Detroit Section:

- Katherine Rowley 1994
- Cindy Hammer 2009
- Sandra McClelland 2011
- Dr. Rose Ryntz 2014

Here is the history of the Women Councilors of the SPE Detroit Section and the years that they presided:

- Sandra McClelland 2012-2018



2019 PLANNED EVENTS

SPE Detroit

DATE	EVENT	LOCATION
September 4-6, 2019	ACCE Conference Automotive & Composites Division	Suburban Collection Showplace 46100 Grand River Avenue Novi, MI 48374
September 9, 2019	Technical Dinner Meeting Molding Jeff De Grange CCO, Impossible Objects, Inc.	Michigan State University Management Education Center 811 W. Square Lake Rd Troy, MI 48098
September 16, 2019	SPE Detroit Section Board Meeting	ACC 5750 New King Dr. Suite 120, Troy
October 6-9, 2019	2019 Automotive TPO Conference	Detroit Marriott – Troy
October 21, 2019	SPE Detroit Section Board Meeting	ACC 5750 New King Dr. Suite 120, Troy
November 6, 2019	49th Annual SPE Automotive Innovation Awards Competition SPE Automotive Division	Burton Manor Livonia, MI
November 18, 2019	Kingfa Plant Tour	Kingfa Science & Technology, Inc. 47440 Michigan Ave, Suite 100 Canton, MI 48188
December 2, 2019	SPE Detroit Section Board Meeting	ACC 5750 New King Dr. Suite 120, Troy



SPE DETROIT TECHNICAL PROGRAM

September 9, 2019



TOPIC:

3D PRINTING COMPOSITE PARTS

LOCATION:

Michigan State University Management Education Center
811 W. Square Lake Rd., Troy, MI 48098

DATE:

September 9, 2019

TIME:

5:00–8:00 PM

AGENDA:

- 5:00 PM Registration and Networking
- 6:00 PM Dinner
- 6:30 PM Call to order by Sassan Tarahomi Opening Remarks by Dr. Laura Shereda
- 6:45 PM Awards presented by Nippani Rao and Pete Grelle
- 7:15 PM Presentation by Jeff De Grange, Chief Commercial Officer, Impossible Objects Inc.
- 8:00 PM Q & A
- 8:30 PM Program Closing

COST:

- \$35/one seat
- \$250/table of 8
- FREE for SPE Detroit Section Board, Students & Faculty

RSVP:

- Ms. Karen Rhodes–Parker
- karen@spedetroit.com
- (248) 244–8993 x3



Jeff DeGrange
COO, Impossible Objects, Inc.

The SPE Detroit June 2019 Technical Dinner Meeting was held at Emitted Energy/Rapid Coating Solutions in Sterling Heights. After a great dinner provided by our hosts, Dave Kember, President, Roy Ray, Vice President, and Christopher Lemmons, Sales Manager gave a warm welcome and two excellent technical presentations that had everyone excited about the technologies available.

Dave Kember and Roy Ray are two very busy people who are solving manufacturing problems with new scratch resistant coatings and FLIR Infrared Thermal Technologies. As automotive manufacturing becomes increasingly sophisticated, there is a growing demand to protect in line delicate surfaces from scratching and deformation. Enter Rapid Coating Solutions with a proprietary two part polymer coating that bonds to just about any ferrous and non-ferrous substrate and protects delicate surfaces. Durable and flexible with several durometer offerings, this product keenly applied to application nests, keeps scrap from becoming a costly line item.

And then there is FLIR Systems, Inc. who have commissioned Emitted Energy to distribute and develop application solutions utilizing their infrared thermal technology products. FLIR Systems makes the thermal imaging cameras,

and Emitted Energy works with manufacturing operations in several different markets to provide solutions for identifying and resolving unwanted quality issues. Thermal Imaging cameras are increasingly being utilized for applications to monitor certain process conditions, process control, machine vision, traffic monitoring, environmental monitoring, and research and development. On line and real time inspection of plastic part joining, spot and linear weld integrity, glue bead verification, and even food container inspection are just a few of the unique capabilities.

Processing systems for the automotive industry can utilize thermal imaging inspection equipment and techniques for quality control/inspection of rear window heating, heated seals, checking exhaust flaps, air-conditioning outlets, and more. Non-destructive testing of glued box seals is scarce and difficult to monitor in production. Infrared vision validates temperature at specific locations where the glue is being robotically applied to assure 100% quality in real time. Plastic processing with mold-flow technology in a closed loop system usually have thermocouples inside the mold. With infrared thermal imaging, polymer temperature, laminar flow, and weld line temperature can be monitored and controlled effectively without mold surface distortion. In short, it's all about early detection and prevention of potential quality problems.

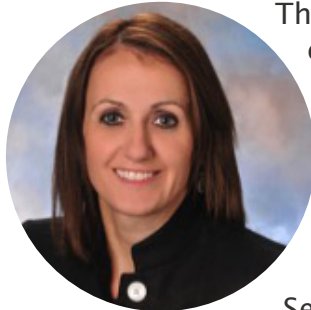
As Christopher Lemmons said during his presentation, "The most frequent comment I hear from people after they have been educated about FLIR is Where have you guys been hiding all this time?" It was a great learning experience for all the SPE members and associates that attended Emitted Energy plant tour and presentation. We hope to see Emitted Energy and FLIR Systems, Inc. at the next TPO Automotive Conference in 2019.



Dr. Sassan Tarahomi and David Kember

KEYNOTE ANNOUNCED FOR SPE® ACCE 2019

“CHEMISTRY-DRIVEN COMPOSITE INNOVATION – THE FUTURE IS NOW”



The executive planning committee for the SPE® Automotive Composites

Conference & Expo (ACCE) is announcing the second keynote speaker for their 19th annual event

September 4 – 6, 2019 at the Suburban Collection Showplace in Novi, Mich. in the Detroit suburbs.

Gulay Serhatkulu, Senior Vice President, Performance Materials North America, BASF Corp. will present “Chemistry-Driven Composite Innovation – the Future is Now.” The presentation will outline the challenges facing composites solutions in the automotive industry and what needs to happen to increase the adoption. She will also highlight examples from BASF and how they are using chemistry to drive composites innovation now and in the future.

2019 SPE DETROIT MATERIAL AUCTION RAISES OVER \$38,000



Detroit SPE had a very successful Annual Material Auction held on February 22, 2019 at the MGM Grand Detroit Casino & Hotel. With the hard work of our Auction Committee, Dawn Cooper, Laura Shereda, and Karen Rhodes-Parker, over \$38,000 was raised to support our educational

initiatives. The largest donor was LyondellBasell, and the biggest bidder was Arbor Tek Plastics, Ann Arbor. Thanks to everyone who donated, bid on the materials and special donated items. The committee would also like to thank the Detroit SPE Board members who attended and supported.

PlastiVan® was the popular table with kids at the Northwest Elementary Learning Fair in Jackson, Michigan this July! Educators, Elizabeth Egan and Mark Wolverton, taught about the wonders of plastics while leading the children in making slime, exploring cross-linking principles and the

properties of Newtonian and non-Newtonian fluids. PlastiVan® interacted with more than 500 students over two days.

Thank you to the SPE Detroit Section and SPE Automotive Division for your support!



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Tom Miller
thomas.miller@basf.com

Julie Proctor
 PlastiVan® Program Coordinator
jproctor@4spe.org

2019 AUTO EPCON CONFERENCE

Gary J. Kogowski, Ph.D.



The fourteenth annual SPE Auto EPCON for 2019 was a success! Two hundred and ninety three persons registered for the one day conference brought to you by the SPE Detroit Section, Automotive Division, and Injection Molding Division. The SPE Auto EPCON attendees included 45 members from automotive OEM staffs, 130 SPE members, 105 non-members, 10 SPE student members, and 3 media attendees. With almost 300 attendees including registered persons, speakers, and SPE Auto EPCON committee members, this was another well attended SPE conference with 5 Premier sponsors, 3 Associate sponsors, 21 exhibits, 1 advertisement sponsor, and 1 break sponsor. Proceeds from the conference will be used for the education scholarship budget, PlastiVan®, as well as special

events such as the “Kids Christmas Toys Program”.



Joe Langley (IHS Markit) conference keynote (center), with Sandra McClelland, and Gary Kogowski conference co-chairs

Kevin Quinn (General Motors Director of Additive Design and Manufacturing) was the conference OEM Executive Chairperson and introduced the conference theme for 2019 “Pushing the Boundaries”. Kevin introduced many present and future ideas and application for additive design, manufacturing, and 3-D printing. For example, applications such as low volume wheel variants, motorsports, accessories, and service parts are beginning to emerge with the additive manufacturing space. Think of a warehouse not for part storage, but for on-demand 3-D printed parts. Combining multiple parts into one part with higher properties. Can we print an entire vehicle? Probably not now due to high costs, size of part, throughput, post processing requirements, material development. Material properties that additive design engineers are looking



Kevin Quinn (General Motors) conference OEM executive chair and keynote (center) with Gary Kogowski and Sandra McClelland conference co-chairs

for include improved elongation, durable rubber-like properties, fiber reinforced materials, exterior weatherable materials, and compatibility with chrome plating and paint. Thank you, Kevin for this peek into the future of additive manufacturing.



Brendan Dooley (IHS Markit) conference keynote (center) with Gary Kogowski and Sandra McClelland conference co-chairs

Brendan Dooley, Global Director Engineering Resins, IHS Markit presentation was entitled “Nylon and Polycarbonate: How we got here and what lies ahead” provided a very detailed market review and projections for the nylon and polycarbonate industries. Key highlights were by 2020 adiponitrile (ADN) supply will be much more balanced for PA66 polymerization, PA6 capacity growth expected from China and capacity will be adequate. PC supply will increase, mainly in China, but also increased supply in Europe and North America. PC prices are likely to decrease.

Laurie Harbour, President and CEO of Harbour Results, Inc. presentation was entitled “Is Uncertainty the New Normal in the Automotive Industry”. Laurie’s presentation provided a detailed economic picture and review of the domestic tooling, die, and mold industries. Highlights

included the effect of tariffs on the molder community, the changing climate of the automotive industry, USMCA and NAFTA agreements. Steel and aluminum tariffs will have a significant impact on mold and tooling costs.

Jay Langley is Associate Director at IHS Markit. Jay’s keynote presentation was entitled “North American Light Vehicle Production Outlook”. Jay summarized the industry with the following points, slow down since 2016, US consumer outlook is good, there is an attractive sales mix within the automotive industry, there are pressure on OEMs, vehicle launches to accelerate, and vehicle development costs to increase.

This year the SPE Auto EPCON conference had four student moderators from the University of Michigan (Go Blue!): Allison Podnar, Luis Rangel-DaCosta, Daniel Pisarski, and Nathan Ng.



Laurie Harbour (Harbour Results, Inc.) conference keynote (center) with Gary Kogowski and Sandra McClelland conference co-chairs

Allison Podnar was the Materials Sessions I and II student moderator. Allison is a Master’s student in the area of Materials Science and Engineering. Allison recently received her Bachelor’s degree from the

University of Michigan with minors in German, Chemistry, and Multidisciplinary Design. Allison looks forward to learning more about plastics engineering in the automotive industry.

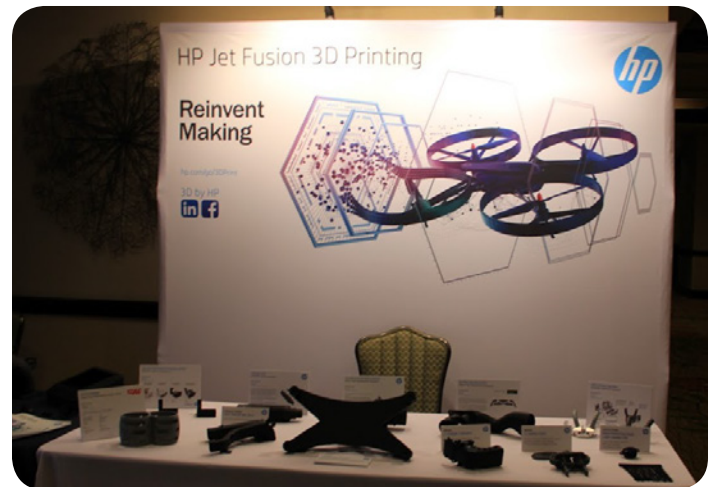
Luis Rangel-DaCosta was the PA Opportunities and Materials and Electric Vehicle sessions moderator. Luis is a 4th year student at The University of Michigan, studying Materials Science and Engineering and Music Performance. Luis has been active as the project manager of the U of M Supermileage engineering project team. Luis is interested and has performed research with metallic glasses and computational electron microscopy.



Allison Pondar (The University of Michigan) student moderator and Dr. Omar Faruk (Ford Motor Company / U of Toronto) speaker and committee member

Daniel Pisarski is a 3rd year veteran student moderator for the SPE Auto EPCON conference. Daniel was student moderator of the Additive Manufacturing and Design session. He completed his junior year at The University of Michigan studying Mechanical and Electrical Engineering. Daniel is a Mechanical Engineering major and Electrical Engineering minor. He is a member of the Michigan Autonomous Aerial Vehicle Student Design Team.

Daniel is interested in the 3D printing industry. He is also an avid golfer and tennis player.



Hewlett Packard 3D Printing exhibit

Nathan Ng was the moderator of the Analysis session of the Auto EPCON conference. Nathan is a junior studying Materials Science and Chemical Engineering at the University of Michigan. He will serve as president of the Michigan Materials Society next year and acts as a student teacher for chemical engineering courses. Nathan is interested in a variety of scientific topics including computational reaction dynamics.

With twenty-three sponsors, the 2019 Auto EPCON remains a key conference for networking, communicating new product development, and OEM attendance. We are grateful for the support of our premier sponsors, DSM Engineering Plastics, Dow-DuPont Performance Materials, Hewlett-Packard, Lanxess Corporation, and Polyplastics. The associate sponsors for the 2018 Auto EPCON were Asahi-Kasei Plastics North America, LG Chem America, Inc, and Mitsubishi Chemical. This year we had thirteen exhibit sponsors, Adell

Plastics, Arko-Plastic GmbH, Clariant Corporation, DatapointLabs Technical Center for Materials, EMS-Grivory Americas, ID Additives, Inc., IHS Markit, JM Polymers, KEP Americas, LyondellBasell, Nexeo Solutions, Niche Polymers, and Wellman Advanced Materials. Our advertising sponsor was Toyobo. Our Break sponsor was the Plastics Industry Association.



SPE Auto EPCON conference luncheon

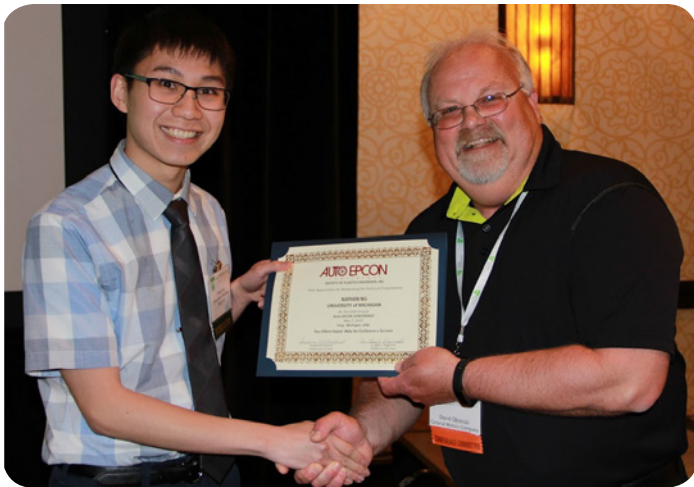
- Leticia Vitalli – Solvay Specialty Polymers –sponsorship, student mentor
- Monica Shammass – Fiat-Chrysler Automobiles – sponsorship
- Glenn Cannavo – DSM – Marriott, exhibits, lunch menu planner
- Scott Marko – SPE National registration
- David Okonski – GM / SPE Injection Molding Division, student mentor, OEM Executive Chair coordinator, keynote speaker, and photographer’s assistant
- Bill Windschief – technical program, Marriott
- Chris Surbrook – Midland Compounding – sponsorship liaison, advertising and media
- Sameer Mehta – Asahi Kasei – sponsorship liaison, advertising and media, program brochure

Many thanks to our committee members who worked very hard and long to make the 2019 SPE Auto EPCON a success:

- Gary J. Kogowski, Ph. D. – Ravago Holdings Americas – Co-Chair-exhibits, Marriott, technical program, program brochure, keynote speaker, SPE Automotive Division
- Sandra McClelland – Solvay Specialty Polymers – Co-Chair, technical program, brochure, keynote speakers, student mentor, and SPE Detroit Section
- Ed Luibrand – Fiat-Chrysler Automobiles –sponsorship chair, student mentor



Luis Rangel-DaCosta (The University of Michigan) student moderator with Paula Kruger (DSM) speaker



Nathan Ng (The University of Michigan) student moderator with Dave Okonski (GM) student mentor

- Katie Okonski - conference photographer
- Nippani Rao - Emeritus member

The 2020 Auto EPCON conference is scheduled for Tuesday, April 28, 2020, at the Detroit-Troy Marriott located at 200 W. Big Beaver Rd, Troy, MI 48084. Please mark your calendars.

- Nihar Bhuna - Asahi Kasei - sponsorship liaison, advertising and media, program brochure
- Karen Rhodes Parker- SPE Detroit Section -brochure, registration
- Omar Faruk - Ford Motor Company - technical program



Daniel Pisarski (The University of Michigan) student moderator (left) with Fadi Abro (Stratasys) speaker



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Acceptable to size file formats for advertising include:

- Portable Document Files (PDF) *preferred*:
300 dpi resolution. Fonts must be embedded.
- Photoshop .tif Files:
300 dpi resolution, RGB color model.
- JPG Files:
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 Email: csurbrook@midlandcompounding.com, or Bob at: robertpetrach@aol.com, for space reservations.

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Advertising rates are based on a 6 time run starting in September.
 Please email or call for information on other Sponsorship opportunities or less than full year rates after October 1st.

SPE DETROIT Annual Golf Outing



On June 25 Detroit SPE held its annual golf outing at Bay Pointe Golf Club in West Bloomfield. This event, managed by emeritus board member, Nippani Rao, promotes networking and supports our educational initiatives. Thank you to the lunch sponsor, General Polymers, and the dinner

sponsor, Plastics Engineering & Technical Services, Inc. Without the generosity of our supporters we wouldn't be able to accomplish everything we do. The winners were from Ashland Composites and Continental Structural Plastics. Runners up were from Uniplas, Inc.



Mike Siwajek, Vice President of Research and Development at Continental Structural Plastics and Dan Dowdall, Global Business Development Manager - Transportation Composites at Ashland LLC, receive their award from Nippani Rao.



Dan Dowdall, 50/50 winner, gets his cash from Nippani Rao.



Eric Parrell, Automotive Market Manager at Entec Polymers, winner of the putting contest.



DETROIT SECTION
SOCIETY OF PLASTICS ENGINEERS, INC.
5750 New King Dr, Suite 120
Troy, MI 48098

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Click on the Bookmark icon in the left-side Navigation Panel to go to specific places in the Newsletter.

DETROIT SECTION EXECUTIVE BOARD AND COMMITTEE MEMBERS FOR 2019-2020

TITLE	NAME	COMPANY	O/W PHONE	CELL PHONE	EMAIL
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