

Polymer Valley News



The Newsletter of the Akron Section of the Society of Plastics Engineers
Our 64th Year of Education and Service to the Plastics Industry

~ Next Session ~

Monday, April 11, 2022
5:30 p.m.

The University of Akron
Biomimicry Research and Innovation Center
170 University Avenue
Akron, OH 44325

Meeting Information

Member and/or guest	\$30
Retired	\$25
Student	\$10
New Member - first meeting	Free

Tour	5:30 p.m.
Buffet Dinner	6:30 p.m.

Reservations must be in by noon on Fri., April 8 and can be made to Kathy Perevosnik at 717-693-2286 or akronspe1@gmail.com
Be sure to include your company affiliation and dietary restrictions.

Newsletter Contents

Meeting announcement	1
Meeting information	2
President's Message	3
SPE National links of interest	3
Join the Board	3
Advertiser index	4
March 14 pictures	5
TOPCON Call for Papers	6
Board meeting dates	7
Job postings	7
Programs for season	9
Membership report	11
Coming Up ... May 11	12
Coming Up ... May 16	13
SPE Communities - The Chain	14
Student Chapter	14
Essay Contest – deadline extended	15
Board meeting minutes	18
Akron SPE Past Presidents	21
Akron Section Board Members	22
SPE Education Foundation	23
Advertising order form	24

See page 2 for information on this event.

We recommend the following parking areas:

Lot 27, immediately east of the hall on East Buchtel Avenue ([map](#))

Lot 34 near the Computer Center and McDowell Law Center ([map](#))

April 11 – Program Detail

Biomimicry Research and Innovation Center

The University of Akron (UA) Biomimicry Research and Innovation Center (BRIC) is an internationally recognized leader in the rapidly growing field of biomimicry. BRIC is dedicated to connecting artists, businesspeople, designers, engineers and scientists to catalyze biomimicry-based innovation. Interdisciplinary research projects draw inspiration from organisms as diverse as ants, bacteria, birds, cacti, fish, flies, geckos, mussels, snakes and spiders to inform the development of permanent/reversible adhesives, building construction techniques, color-producing additives/structures, robotic actuators/control systems, thermal management systems, water harvesting/repellent materials and more. Beyond research, BRIC activities include training next generation innovators by developing and implementing undergraduate- and graduate-level curricula, promoting awareness of biomimicry through public seminars, and, accelerating innovation through co-delivery of professional services with [Great Lakes Biomimicry](#). BRIC's vision is for biomimicry to become a driver for sustainable economic development in Northeast Ohio and beyond.

Faculty Lab Tours

Dr. Henry Astley <https://www.uakron.edu/bric/team/bio-detail.dot?u=hastley>

Dr. Todd Blackledge <https://www.uakron.edu/bric/team/bio-detail.dot?u=tab27>

Dr. Ali Dhinojwala <https://www.uakron.edu/bric/team/bio-detail.dot?u=ali4>

Dr. Hunter King <https://www.uakron.edu/bric/team/bio-detail.dot?u=hking>

Dr. Peter Niewiarowski <https://www.uakron.edu/bric/team/bio-detail.dot?u=phn>



President's Message

Hello fellow SPE enthusiasts,

The Akron Section of the Society of Plastics Engineers is putting on an in-person technical tour at The University of Akron (UA) Biomimicry Research and Innovation Center (BRIC), including a buffet dinner on the university campus, on April 11th. There will be 5 available faculty lab tours which highlight various interdisciplinary research projects. BRIC's vision is for biomimicry to become a driver for sustainable economic development in Northeast Ohio and beyond. Come join us and learn about the UA's cutting-edge research in Biomimicry. See the reservation and parking information in this newsletter and be sure to sign up early to reserve your spot! I hope to see you there!



I also wanted to thank Mr. Todd Riley, Cyber Security Manufacturing Leader - Goodyear, for presenting to our SPE group a very informative and potentially frightening presentation on cybersecurity. Yes, from his discussion, everyone needs to increase the complexity of their online passwords in order to protect themselves from Cyber-attacks, both in their business activities and personal life. Good luck!

President, Akron Section

Joe Mattingly

330-208-6913

joe@mattingly.us

SPE National

Please click the following areas of interest:

[Contacts at National](#)

[Member Benefits](#)

[Join SPE](#)

[Akron Section](#)

The Akron Section is in need of New Board Members.

Please consider becoming a Board Member to help support your Section.

Contact anyone currently on the board if you are interested.

Thank You!



Advertiser Index

Akrochem	12
Case Analytical Laboratories	7
Charter Next Generation – CNG	10
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Hilton Inn	9
Performance Additives	8
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Struktol	4
TSRC	7

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 – see page 24 for the order form



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March 14 Meeting





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THERMOPLASTIC ELASTOMERS CONFERENCE

Akron, OH – September 20–22, 2022

*Presented by the Thermoplastic Elastomers Technical Interest Group and
SPE Akron Section*

CALL FOR PAPERS – TPEs Unmasked!

The TPE TIG and Akron Section of SPE invite the submission of abstracts for presentation at the 15th TPE TOPCON 2022.

*Linking the needs of today with
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Focused segments on TPE include:

- Current Trends in Markets and Technology
- Material Innovation and New Application Development
- Process Innovation (Compounding, Extrusion, Molding, 3D Printing)
- Healthcare and Medical
- Automotive and Transportation
- Sustainability

Please submit presentation title, abstract, author/presenter and affiliation to:

Homaira Naseem

homaira.naseem@alphagary.com

(978) 840-2124

Nicholas DeLuca

nicholas.deluca@lubrizol.com

(570) 441-6594

Hoan Tran

hoan.tran@kuraray.com

(281) 224-3205

Abstract Deadline:

May 1, 2022

Completed Presentation Due:

July 15 2022



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Board Meeting Dates:

January 3, 2022

February 7, 2022

March 7, 2022

April 4, 2022

May 2, 2022



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The Akron SPE Section is happy to post local job openings in the plastics industry for 90 days for any member.

Please contact a board member if you are interested in posting.

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Programs for 2021/2022

- Oct. 21 **Team NEO – Jay Foran, Sr. VP**
Additive Manufacturing Cluster
-- *Virtual - Cleveland **
- Nov. 3-4 **AMI's Compounding World Expo**
Huntington Convention Center
Cleveland and Akron Sections will have a tabletop. PLEASE stop by and network with us!
-- *Cleveland **
- Dec. 13 **ENTEC**
Jim Johnson, Director, Commercial Plastics Technology
Webinar
-- *Virtual - Akron **
- Jan. 20 **ACCESS – Technical, Tactile Skin for Robots, Prof Zhenan Bao**
7-9 pm
-- *Educational Service Center, Cuyahoga Falls - Akron **
- Feb. 16 **Virtual Plant Tour – IC3D Recycled Plastics 3D Printed, Michael Cao and Luke Debruin**
-- *Virtual – Akron and Cleveland **
- Feb. 24 **Sustainability Rocks, Part One**
9-11 am
Three Speakers
-- *Virtual - Cleveland **
- Mar. 14 **Cyber Security – Todd Riley, Goodyear**
-- *Hilton Inn Fairlawn - Akron **
- Apr. 11 **Univ. of Akron Laboratory Tour Biomimicry**
Dr. Dhinojwala
-- *U of A - Akron **
- May 11 **Sustainability**
Conor Carlin, SPE
-- *Virtual - Cleveland **
- May 16 **Akron Section Awards Night**
Keynote - Bio Additives
Bob Woloszynek, Goodyear
-- *Raintree Country Club – Akron **

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BACK SOON!



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Membership Report

The Akron Section currently has 187 active members.

Expired - 24, Active – 163

<u>Month</u>	<u>Active</u>
Jan	187
Feb	187
Mar	
Apr	
May	
Jun	
Jul	
Aug	
Sep	
Oct	
Nov	
Dec	

We are always welcoming new members – invite someone to a meeting!

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“Grey is the New Green: How to be Comfortable with Ambiguity”

Presenter: Conor Carlin

Wednesday, May 11, 2022: 5:30-6:30PM EST

Virtual Event Sponsored by the Cleveland and Akron SPE Sections

Though many in the plastics industry are familiar with the overwhelming benefits that polymeric materials provide, the public has become highly skeptical. And rightly so – when you see clogged rivers and dead fish, what are people supposed to think? Let's rethink plastics among ourselves for a moment, at least in terms of how the public views it. By acknowledging the paradoxical nature of plastics' efficiency, we can perhaps take a more holistic approach to design that utilizes the full value of a material's properties while considering end-of-life implications. The nuances and complexities of modern plastics ensure that there are no easy answers. And though we have to make difficult choices, we cannot let the perfect be the enemy of the good.



Conor Carlin is the first VP of Sustainability for SPE, elected to the Executive board in 2017 and again in 2020. A member of SPE since 2000, he serves as editor for SPE Thermoforming and Recycling Division publications. Carlin has contributed articles on plastics and sustainability for international industry press in the US, Europe, and Asia. He is the co-author and editor of the 2nd edition of “Plastics & Sustainability: Grey is the New Green” published by Scrivener/Wiley.

Carlin is also Managing Director of ILLIG North America, subsidiary of ILLIG Maschinenbau GmbH & Co., a Germany-based designer and manufacturer of thermoforming, tooling, and packaging systems.

Carlin has degrees from Boston University (BA, International Relations / French) and the FW Olin Graduate School of Business at Babson College (MBA).

***To Register and Receive a meeting link,
Send your contact information to :***

SPECleComm@gmail.com

ATTENDANCE IS FREE



Coming Up ... May 16 Akron Awards Night

Raintree Golf and Event Center

4350 Mayfair Road, Uniontown, OH 44685

5:30 Welcome and Introduction - Presented by Joe Mattingly,
President, Akron Section SPE

5:45 Keynote Speaker

Dr. Bob Woloszynek - Chief Engineer, Global
Material Development at Goodyear Tire and Rubber
Keynote: Goodyear Soybean Oil Technology:
Performance and Sustainability Driving Demand for
Biobased Products

Abstract: Over the past decade, Goodyear has been investigating soybean oil as a replacement for petroleum-based oils in its tire products. Our development efforts have resulted in multiple novel polymer and compound technologies in which petroleum-based oils have been replaced with soybean oil to provide performance benefits. Since 2017, Goodyear has launched four consumer tire products containing soybean oil, and recent developments have focused on expanding the technology to heavy tire applications. Goodyear has made a long-term goal of fully replacing petroleum-based oils in its products by 2040 as part of its sustainability initiatives. Recently, Goodyear also announced a demonstration tire containing 70% sustainable materials by weight, demonstrating progress toward reaching its stated “bold goal” of developing a tire made with 100% sustainable materials by 2030.

Following our Keynote Speaker:

- SPE Medal of Honor For Lifetime Service Award - Presented by Joe Mattingly
- SPE William C. Zekan Awards - Presented by Joe Mattingly
- Essay Awards, Special Merit and Named Scholarships - Presented by John Fellenstein
- Special Thanks and Final Wrap-up - Presented by Joe Mattingly

Meeting Information

Member and/or guest	\$30
Retired	\$25
Student	\$10
New Member - first meeting	Free
Social / Networking / Bar	5:30 p.m.
Program	5:45 p.m.
Dinner	Following Keynote

Reservations must be in by noon on Fri., May 13 and can be made to Bob Weiler at 330-283-9024 or akronspe1@gmail.com
Be sure to include your company affiliation and dietary restrictions.



Bob Woloszynek joined Goodyear in 2007 as a Senior Research Chemist in the Polymer Technology Group. He spent the early years of his career developing a new neodymium catalyst system and subsequent family of commercialized tire polymers that are used in Goodyear products globally. In 2012, he became the Principal Investigator on Goodyear’s soybean oil project, where he leveraged the properties of soybean oil to develop a novel polymer currently used in Goodyear products.

He has authored numerous proposals securing external funding from the United Soybean Board to support ongoing research activities. Goodyear’s soybean oil technology has been implemented in multiple tire products since 2017, and research efforts to further leverage the technology remain ongoing.

He has also been Lead Engineer in the Global Material Science organization, supporting tire compound development and efforts to improve product consistency. Since 2018, he has served in multiple Chief Engineer roles, leading teams of scientists and engineers tasked with developing new material technologies to support Goodyear product developments.

Bob earned a B.S. in Chemistry from Baldwin-Wallace University in 2002 and a Ph.D. in Organometallic Chemistry from Case Western Reserve University in 2007.

The Chain has moved – it's now SPE Communities

All your favorite places like Tech Talk and Industry Exchange are still available on SPE's new and improved platform! In its place, the new SPE Communities site is open now.

Communities are an ideal way to stay connected with your peers to collaborate, share advice, find solutions and build relationships. Participants can interact with other members, subscribe to posts, see who else is online, receive discussion notifications, connect directly to each other via direct messaging and more. All new discussions should be posted in the new location, old discussions will not be brought over. Get in on the discussions or start a conversation –

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Tech Talk

This is where professionals from around the world discuss the latest technical issues and innovations in range of marketplaces. Put the knowledge and expertise of thousands of plastics professionals to work for you. Ask a question. Or provide an answer. [Click here.](#)

For technical polymer questions please use the SPE International forum "Tech Talk"

For local questions please contact the officers at akronspe1@gmail.com





AKRON

2022 "Wonders of Plastics" Essay Contest

The Akron section of the Society of Plastics Engineers (SPE) is pleased to announce the 2022 "Wonders of Plastics" essay contest.

Eligibility

The contest is open to all middle/junior high and high school students. The essay must be sponsored by one of the students' teachers.

Prizes

First place high school essay - \$100

First place middle/junior high school essay - \$100

The sponsoring teacher of each winning essay will receive \$25

The winning essays will be printed in the Akron Section's Newsletter.

Topics to consider

Advantages of plastics in food packaging

Creative use of recycled plastics

How plastics benefit humankind

How plastics improve our lifestyle

Plastics in the environment

Plastics usefulness in society

What plastics have done for me

Why the bad reputation of plastics is wrong

Submit your Essay to

Polymer Engineering
The University of Akron
Attn: John Fellenstein
250 S. Forge St
Akron, OH 44325-0301

Questions may be directed to the Akron SPE Education Committee, attention: John Fellenstein by phone or email

Tel: 330-972-6334 | **Fax:** 330-972-2624

Email: jfellenstein@uakron.edu

Entry must be postmarked by April 15, 2022!

REQUIREMENTS FOR SUBMISSION

General

Length:	Between 500 and 1,000 words
Format:	Typewritten in English on 8 ½ x 11 paper, title to appear as heading on each page; no name on any page except the entry form that must accompany each essay; 1-inch margins minimum on all sides
Authors:	The essay may be written individually or co-authored by two students
Deadline:	April 15, 2022 (postmarked)

Organization

The organization structure of the essay should be “logical,” including the following considerations:

Introduction:	Optional
Thesis:	Several sentences
Development:	This section should be several paragraphs and should discuss the theme, analyze it, feature informal research about the theme, etc.
Conclusion:	This section should be at least one paragraph in which the author summarizes the ideas presented in the essay

Mechanics

Spelling should be correct; syntax should be readable; punctuation should be conventional. Essay should be free of sentence fragments. Diction (word choice) should be appropriate to the subject and the writer’s understanding of the topic. Point of view should be appropriate to the topic/subject and remain constant and consistent. A mixture of first and third person is acceptable if it is appropriate to the voice of the essay. However, the use of second person (“you” either stated directly or implied) will change the “voice” of the essay in a manner damaging to its effectiveness. Footnotes and references must be included when necessary.

Judging

Essays will be judged by a panel. In order to be judged, the essay must meet all the conditions as stated in the organization and mechanics above, with only incidental errors in mechanics. The essay must also meet the assigned minimum length and must be submitted following the prescribed format.

ENTRY FORM

Title: _____

By: _____
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About the author(s)

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_____ age _____

Grade in School _____

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Submit your Essay to

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Email: jfellenstein@uakron.edu

Entries must be postmarked by April 15, 2022!

Board Meeting Minutes – March 7, 2022

Call to Order: In person at University of Akron!! Meeting called to order at 5:32 PM

Present: Robert Weiler, John Fellenstein, David Schultz, Kathy Perevosnik, Dan Jones and Stephen Riley

Zoom connected: Tony Dean, Sherri Makar Hart, Bob Wegelin, Nicole Fraifogl and Joshua Seylar

Absent: Joe Mattingly, Sahil Gupta, Kevin Malpass, Keith Pelfrey, Anna Akkus and Larry Stanek

John - Special thank you for handling the ASPE BOD for Joe Mattingly

Minutes from Previous Meeting

Minutes from February 7 were reviewed and amended - Treasurer report was sent and approved.

Technical Program 2021/22—Larry Stanek / David Schultz

- Cleveland-February 16 meeting virtual tour of I3CD Printers that creates material for 3 D Printing in Columbus went well with 15-20 attendees- Joe Mattingly to forward Susan attendees

- Cleveland –Virtual Sustainability- M Holland hosted on Feb 24 from 9 am to 11am-went very well with approx. 75-80 attendees

- Akron-March 14 meeting will be at Hilton in person with Dinner. Speaker Todd Riley from Goodyear on Cybersecurity.

- Akron- April 11 meeting will be tour of Univ of Akron. Polymer Engineering Laboratories- Biomimicry Labs tour- We have invited Eve Vitale and Mark Richardson to visit earlier day for U of Akron Tour

-Cleveland—May 11 Topic is Virtual Sustainability – Conor Carlin

- Akron-only May 16 meeting will be Awards Night at Raintree Country Club Speaker Bob Woloszynek

Title: Goodyear Soybean Oil Technology: Performance and Sustainability Driving Demand for Biobased Products

Need ideas for next year for Akron- Program- David Schultz, Larry Stanek and Sherri Hart as Susan Montgomery reports she has plans to be Program Chair again.

Treasurer—Bob Weiler

Bob submitted report informed that we are in good standing at bank and taxes are filed, we recently purchased banners and pull up displays for Akron and Cleve.

In addition expenses for computer, video projector and screen- thank you Kathy.

Bob reports he has opened a new Square account so we can take credit card payments at our Section meetings (linked to akronspel@gmail.com).

House—Bob Weiler

March 14 – Internet Security - Hilton Akron/Fairlawn - Dinner set at \$30 for Member/Guest, \$25 for Retirees and \$10 for Students. New Members will be free. Reservations can be made on our akronspel@gmail.com account.

Square account able to take credit and debit charges.

Kathy Perevosnik will handle the AV new equipment at this meeting. Need a back-up AV engineer, in addition second or third back up to handle square transactions requires an APP downloaded on our smart phone.

April 11 – University of Akron, Goodyear Rm 304 - Lab tour 5:30 pm followed by the buffet \$30 /person and maybe \$10 for students, expect high number of students. Kathy to help reservation.

May 16 – Awards Meeting - Raintree Golf and Event Center, Uniontown - Planned 2 item buffet for our awards dinner, dessert is not included. We can bring a cake and they will serve it at no charge. Bob to verify Meeting price and will plan to bring a cake to celebrate the awards

Bob informs he is set with Hilton- TPE TOPCON Conf. set for Sept.

Board Meeting Minutes – 3/7 continued

Technology Update—Kathy Perevosnik

Thanks goes to Kathy for handling the purchase of a new laptop, projector and screen. Laptop will be utilized by Treasurer for banking and keeping section files. The projector will be housed along with the screen at Univ of Akron- John Fellenstein. Kathy currently has projector and laptop to be used for March 14 meeting, screen at U of A. In addition Kathy informs she needs cord and adapters for projector also. ZoneAlarm / other virus protection for the laptop. May have need to purchase another protection system. Kathy created akronspeboard@gmail.com and password on the laptop (for Microsoft 365 and the laptop itself). Working with team to create inventory of Board-owned property and current location.

Membership—Kevin Malpass

Active members: February 187, await update.

Growth Committee—Kevin Malpass

Kevin thanks ASPE BOD for ideas that will help Akron Section prosper. Kevin has developed a list and will provide action items to grow membership. In addition need to make contact with local companies. BOD has re-engaged with new members and ideas are flowing for changes and modifications.

Councilor—Dan Jones

Informed there should be a March meeting virtual- developing Leadership.

Student Chapter—Stephen Riley

Stephen Riley reported that The Student chapter is considering another pizza party or most recently asking about a delayed Winter Banquet in the Spring. Requested interest of ASPE to aid their gathering.

Advertising—Tony Dean

Tony reported up-to-date on PR for next meetings. We now have 10 paid advertisers. Bob Weiler's name and address on Insertion Order

Public Interest/Website—Tony Dean

Membership Booth needs update. Board approved cost. Larger Pull up banner – need to develop. Tony to develop protocol on passing of ASPE members.

Newsletter—Sherri Makar Hart

Sherri requests for Jenny any news items as well as meeting information.

National Awards—Keith Pelfrey

We should try to determine if we have others in ASPE for Honored Service Member.

Section Awards—Keith Pelfrey

Set on candidates for Hall of Honor and Zekan for this year. We have further discussed honoring current members for their LIFETIME SERVICE AWARD and determined basic criteria to distinguish from Zekan Award. Zekan less than 10 years and very active years and Lifetime noted as approximately 20 years plus dedication. Need to confirm Awards- plaques, design and location to provide- from past, Keith handling. Speaker is set, need student list for scholarships and essay winners. Keith has prepped format for Banquet Team review.

Board Meeting Minutes – 3/7 continued

Education Committee—John Fellenstein

John informs that he has a couple new candidates for scholarship- both U of A students one lives in Akron and other in Cleve- will review with Cleve

In addition we are looking for MS and HS to provides essays for contest. Changed deadline to April 15.

We aware that Akron Public Schools has delayed and tied in with the WRD5 and District 13 will be Virtual again this year. Reviewed past donations to Science Fairs and BOD voted and approved Donation to WRD5 Science Day – special award for Polymers project(s).

David Schultz visited David Helmick at Stow HS- week of Feb 7 and invited to Mar 14 meeting along with a student.

Education Foundation—David Schultz/Joe Mattingly

No report.

2022 TPE TOPCON—David Schultz

Akron set to host TPE TOPCON for September 20-22, 2022 - planned onsite at this point – NO virtual option. Next Committee meeting set for March 16 - Zoom and in person at Hilton.

ACCESS Update

Need a Treasurer- potential new delegate for ACCESS.

Old Business

None to report.

New Business

VinylTec 2022- Chicago Section-(Bob Weiler) - Vinyl Div would like to first cross advertise with ASPE for their VinylTec 2022 and our TPE TopCon 2022. BOD reviewed great idea- Bob will inform Jenny.

Vinyl Div would like to confirm Akron Section interest in hosting VinylTec 2023. BOD reviewed and agreed it is a project/Conference we would like to host, Bob will inform Vinyl Div.

We had discussed the new Polymer Cluster during past meeting and Akron Chamber involvement- they are not ready to speak out to societies working on many details. Kathy to keep in touch for any updates.

We decided we should align Documentation of files in Polymer Science Building- Kathy to aid in documentation and Tony Dean and John Fellenstein to review files.

Setting BOD for next year - Joe Mattingly informed he would handle President another year and Kathy Perevosnik informed she would be VP- for the remainder of this year

and next year handling various duties and aiding in the Program – currently handled by Team- Larry Stanek, Sherri Hart and David Schultz with great help from Susan Montgomery- Cleveland, Secretary- David Schultz, Treasurer- Bob Weiler

Meeting Adjourned at 6:37 PM. Next BOD meeting 5:30 PM April 4 at PEAC and Virtual - Teams hosted by Joe.

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Akron Section Society of Plastics Engineers Educational Foundation



1-20

The Akron Society of Plastics Engineers Educational Foundation operates exclusively for the benefit of and to carry out the purposes of the Akron Section of the Society of Plastics Engineers, which is to promote scientific and engineering knowledge relating to plastics by making educational scholarship grants to deserving students in the field of plastics engineering and related subjects. The Organization is supported primarily by contributions from the Akron Society of Plastics Engineers, the Society's individual members and corporations like yours affiliated with the polymer industry.

Since the inception in 1983, the Akron Society of Plastics Engineers Educational Foundation has grown to its current position through the hard work of many volunteers and the generosity of the local business community. Over the thirty years that the foundation has been in existence, it has provided scholarships to over 275 young men and women totaling in excess of \$385,000 to assist them in furthering their careers in the polymer industry.

Our goal is to continue to grow the assets of the Foundation in order to increase the number of scholarships awarded, as well as the size of the awards, and to do so in perpetuity. In doing this, we hope to be able to contribute to the supply of well-trained individuals to support the growth of the polymer industry in the Northeast Ohio area today and well into the future.

When the Foundation began its fund raising activities in 1983, we offered those companies who contributed a substantial donation, a perpetual annual scholarship in their name. To date we have four named scholarships, Newell/Rubbermaid, Goodyear, Ken Sharp Memorial and Jim Steiner Memorial scholarships. We are asking your company to help with the growth of well-trained individuals in the local polymer industry. Please print this page, fill out the information and mail it to Joe Mattingly, 4918 Massillon Rd, North Canton, OH 44720.

Akron SPE Scholarship Donation Commitment

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Our named scholarship donors are recognized at the annual Awards Night of the Akron Society of Plastics Engineers. We invite you to present your tax deductible donation at our Awards Night held in May each year.

We look forward to your support of this very worthwhile cause by your fine company. Please contact me at (330) 208-6913 with any questions. Thank you for your consideration.

Sincerely,
Joe Mattingly, Foundation Chair
Akron Section Society of Plastics Engineers, Educational Foundation



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