

Polymer Valley News



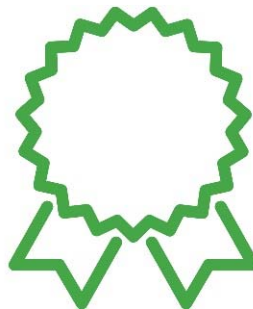
The Newsletter of the Akron Section of the Society of Plastics Engineers
Our 65th Year of Education and Service to the Plastics Industry

~ Next Session ~

Akron Awards Night

Monday, May 22, 2023
5:30 p.m.

Raintree Golf and Event Center
4350 Mayfair Road
Uniontown, OH 44685



Please join us for the last meeting of the season as we present various awards and scholarships.



Meeting Information

Member and/or guest	\$30
Retired	\$25
Student	\$10
Honoree/ Scholarship plus one guest	No charge

Gathering	5:30 p.m.
Dinner	6:00 p.m.
Program	7:00 p.m.

Reservations by May 12.
Reserve and/or pre-pay –
<https://www.acesinc.org/event/spe-awards-night>
Be sure to include your company affiliation and dietary restrictions.

Newsletter Contents

Meeting info and registration	1
Speaker information	2
President's Message	3
SPE National links of interest	3
Advertiser index	4
Join the Board	4
TOPCON sponsors	4
Poster session pictures	6
Science Day and ACCESS pictures	7
Job postings	8
TOPCON Gold – Kuraray America	9
Programs for season	11
SPE Communities - The Chain	12
Polymer Processing Workshop	14
Board Meeting Minutes	16
Akron SPE Past Presidents	19
Akron Section Board Members	20
SPE Education Foundation	21
Advertising order form	22

Speaker

Dr. James M. Eagan

Assistant Professor
The University of Akron
School of Polymer Science
and Polymer Engineering



From Thin Air: The Synthesis of Lightweight Composites from Carbon Dioxide

Abstract: Polymerization of high energy fossil fuel carbon feedstocks has underpinned the advances in polymer science and polymer engineering for the last century. These synthetic materials have unparalleled performance and tunable function. However, the limited supply of fossil fuels, excessive generation of durable plastic waste, and rising emissions complicate the long-term sustainability of the polymer industry. In our work, we seek to utilize carbon dioxide (CO₂) as a carbon feedstock for high performance advanced material applications. Specifically, we have developed systems suitable for applications in lightweight fiber reinforced composites, reprocessible thermosets, chemically recyclable elastomers, and degradable plastics. In this talk we will describe the underpinning chemistry that enables these sustainable materials and our attempts to scale their production. Additionally, the properties and their comparison to traditional technologies will be provided along with a critique of new material adoption.

James M. Eagan is an assistant professor at the University of Akron School of Polymer Science and Polymer Engineering. He received his Ph.D. from Columbia University in 2014 under the guidance of Scott A. Snyder and completed postdoctoral studies at Cornell University under Geoffrey W. Coates. He is the recipient of the AAAS Newcomb Cleveland Prize, NSF Faculty Early Career Development award, LG Global Innovation Challenge Award, and the ACS Petroleum Research Foundation (PRF) New Investigator Grant. He serves on the advisory boards of Ascribe Bioscience, Seauciel LLC., and ACS Applied Polymer Materials.

President's Message

Hello fellow SPE members,

The Akron Section of the Society of Plastics Engineers hosted a Student Poster session at the University of Akron. Members of both the Akron and Cleveland sections were present and an award was given for best poster, see page 6.



May 22 is our Annual Awards Banquet at Raintree Country Club, which is our final event of the year. We have a great speaker in Dr. James M. Eagan - Assistant Professor The University of Akron School of Polymer Science and Polymer Engineering, who is speaking on the topic - From Thin Air: The Synthesis of Lightweight Composites from Carbon Dioxide. See page 1 to sign up for this great opportunity to network with your SPE community. We will also be presenting scholarship awards to several deserving students, as well as recognizing several individuals with achievement awards for their service to the Akron Section and the plastics industry. This will be a great networking opportunity for all students, guests and SPE members.

We are always looking for additional volunteers to join our Akron SPE Board. We, as a board, have continued to bring exciting technical events and engagements for many years. We invite you to join us in exploring the many opportunities to bring an excellent program to our members. As a member of the board, you can influence the types of meetings and subjects that are brought to our section's attention. We are currently looking for a volunteer to help the board with our "House" position, and for the position of Treasurer for next year. I look forward to seeing you soon at one of our events.

I also want to thank our current board members for their outstanding service to SPE and the plastics industry, and their hard work in preparing our local technical events, TPE TOPCON, and joint sessions with the Cleveland section throughout the 2022-2023 season.

Best regards,

Joe Mattingly

President, Akron Section
330-208-6913
joe@mattingly.us

SPE National

Please click the following areas of interest:

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[Member Benefits](#)

[Join SPE](#)

[Akron Section](#)

Advertiser Index

Akrochem	5
David Industrial Sales	8
Dover Chemical	10
Harwick Standard	10
Hilton Inn	11
Kuraray – TopCon Gold Sponsor	9
Performance Additives	13
Struktol	12
TSRC	8

Picture your ad here
And also on www.akronspe.org

**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!



Join us for next season's advertising
– see page 22 for the order form

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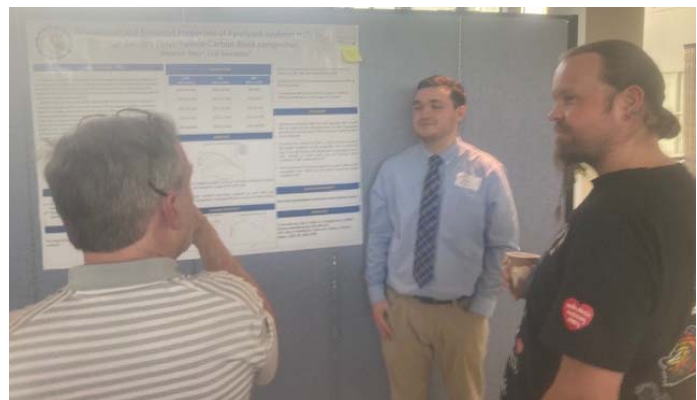
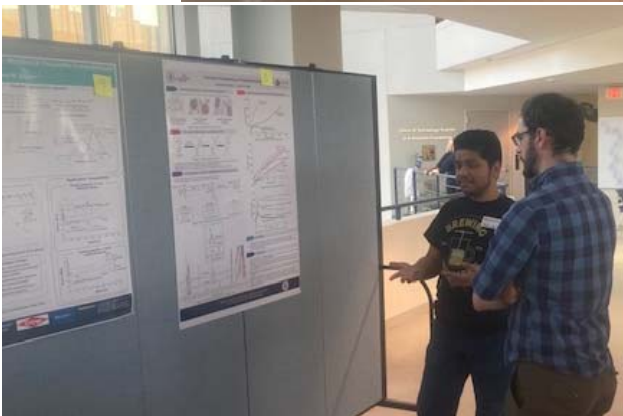
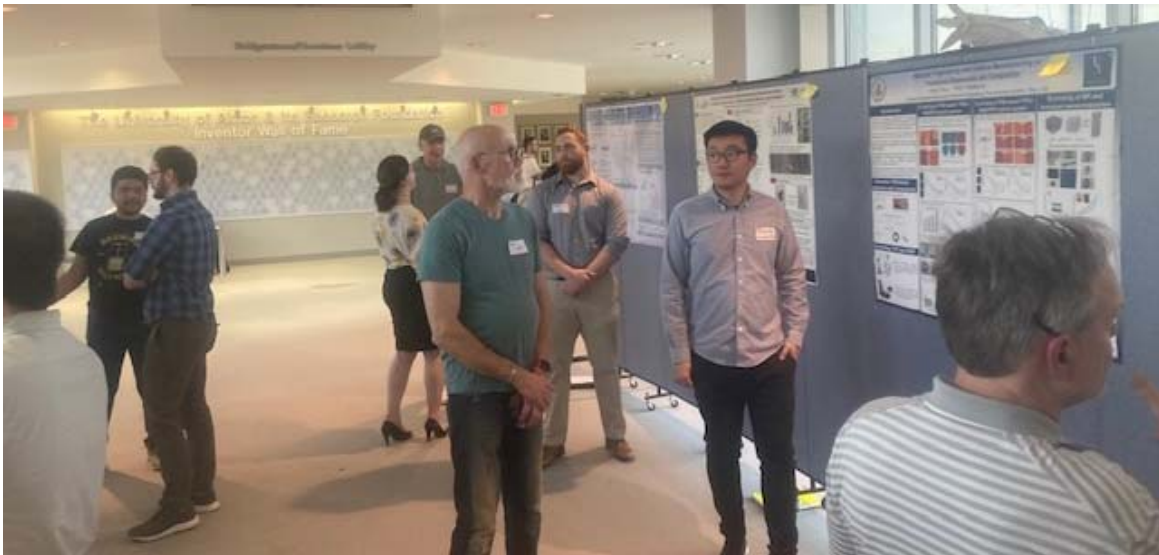
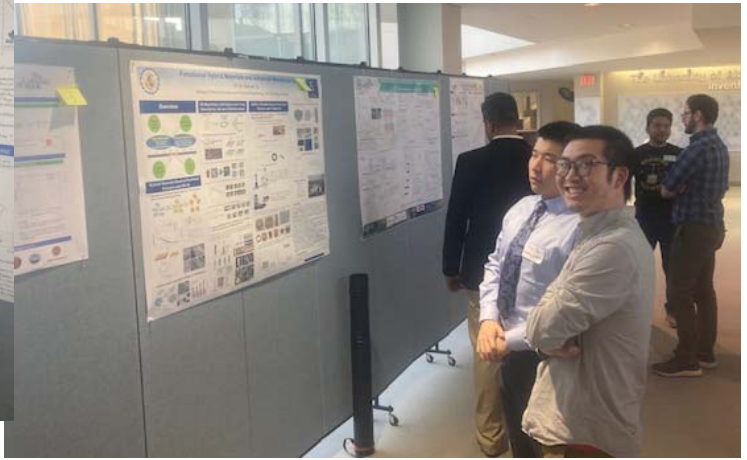
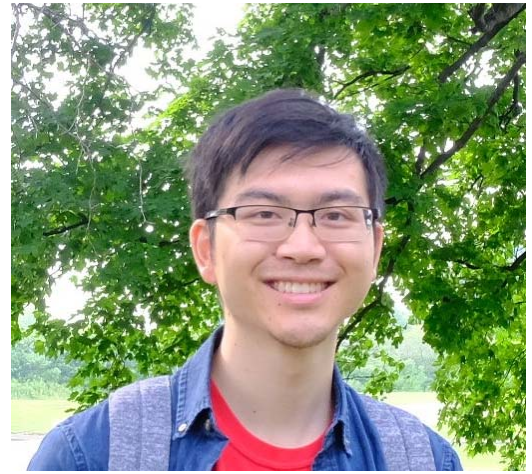
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Poster Session

Leyao Wu, Ph.D. candidate in Dr. Jana's group in the Polymer Engineering department, is the tech session poster board winner. He won a \$25 Amazon gift card. His poster was titled: *Crystallinity of recycled PET fibers by chemical and mechanical reprocessing.*



Science Day

The SPE Akron Section awarded three \$50 prizes to the following projects at the Western Reserve District 5 Science Day on March 18.

1. Organic Solar Cells and the Investigation of Non-Halogenated Solvent-Processable Organic Photovoltaics, Zoltan Kotrebrai - Grade 11, Hawken School, Geauga County
2. Surface Engineering of Bioplastics, Micael Zhu - Grade 9, The University School - College Prep, Cuyahoga County
3. Novel Radical Copolymerization of CO₂: Addressing Polymerization Challenges and Climate, Darelle Thornton - Grade 11, Firestone CLC, Summit County



ACCESS event that took place March 30 that involved STEM outreach of our societies to 80 Akron Public School 5-7th graders and their teachers !

Carin Helfer Joe Mattingly and David Schultz manned the plastics booth.



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.

For current postings, visit <http://www.akronspe.org/job-posting>

Open position: Polymer Testing Manager – Job ID # 13974

<https://www.linkedin.com/jobs/view/3440849412/?alternateChannel=search&refId=KCNyVvQ4cweKJTsYL3Yr0A%3D%3D&trackingId=mN730SEj9gwBYkAy6b1N8g%3D%3D>

Position Summary: Promote, manage and execute the School of Polymer Science and Polymer Engineering's contract testing projects including outreach for clients, quotation of projects, test execution and reporting.

Required Qualifications: Requires a relevant Bachelor's Degree and a minimum of 2 years of experience in analytical services and a minimum of 2 years experience working in the Polymer Science field performing management and accounting functions. Strong communication skills and proper knowledge of related scientific instrumentation required. Ability to perform research and prepare and disseminate information to clients required.

Formal application to be done through the following link:

<https://www.uakron.edu/hr/job-openings/openings.dot>



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Programs for 2022/23

- Sep. 20-22 **15th TopCon**
 -- *Hilton Inn Fairlawn - Akron **
- Oct. 13 **Sustainability Rocks, Part 2**
 Helping Molders Tune In to the
 Circular Economy – 8am to 6pm
 -- *Corp. College East - Cleveland **
- Nov. 9-10 **Compounding Conference**
 -- *Huntington Center - Cleveland **
- Nov. 21 **DODE, Dan Gisser**
 Galaxy Restaurant -- *Akron **
- Dec. **No meeting**
 -- *Akron **
- Jan. 10 **ACCESS – Polymer Consortium
 Update**
 Brian Anderson, VP Research
 Greater Akron Chamber
*R.Shea Brewery -- Akron **
- Jan. 23 **M. Holland**
 Debbie Prenatt
 -- *Virtual – Akron and Cleveland **
- Feb. 28 **Sustainability, Madison Group**
 Melissa Kurtz, Managing Engineer
 -- *Virtual - Cleveland **
- Mar. 20 **Magnet Headquarters - Tour**
 -- *Cleveland **
- Apr. 10 **University of Akron Poster
 Presentations**
Student Led by PESO
 -- *Cleveland **
- May 22 **Akron Section Awards Night**
*Raintree Country Club -- Akron **

*Meetings are joint with Cleveland
 Section with host section denoted by **



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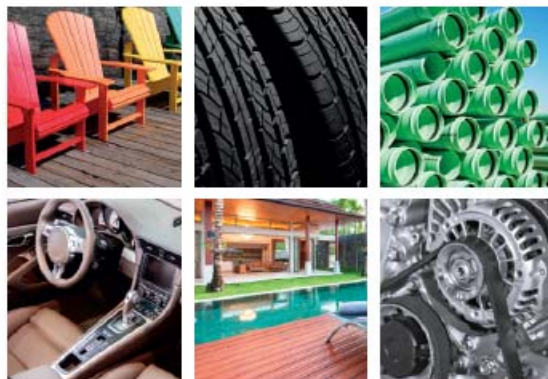
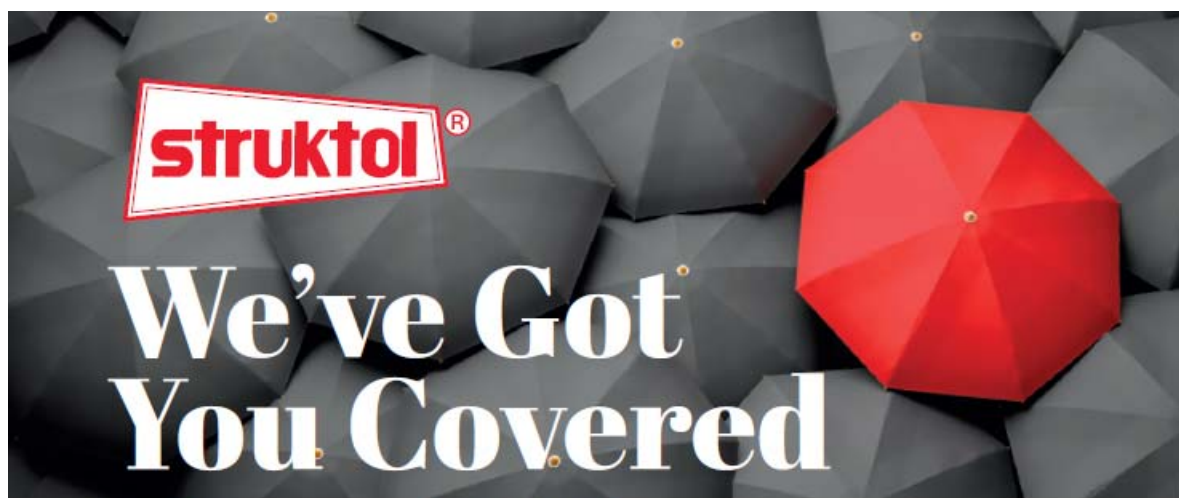


SPE Communities, formerly The Chain, is where industry professionals can participate in peer-to-peer conversations and engage in technical and non-technical discussions. Communities participants can subscribe to posts, see who else is online, receive discussion notifications, connect directly to each other via direct messaging and more. Communities are an ideal way to **stay connected with your peers** to collaborate, share advice, find solutions, and build relationships.

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



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Case Western Reserve University

Pyatt Science Center – Millis 220A, 220B, 222

2080 Adelbert Road, Cleveland, OH

June 7, 2023 | 9:00 AM to 4:30 PM



Agenda:

8:50 AM – Welcome

9:00 AM – Polymer extrusion and processing optimization techniques

9:45 AM – Selecting the correct sampling technique for your FT-IR and Raman applications

10:30 AM – Break

10:45 AM – SEM measurement techniques for polymer materials

11:30 AM – Mass Spec for polymer science: techniques and considerations

12:15 PM – Complementary Lunch

1:30 PM – Live demonstrations

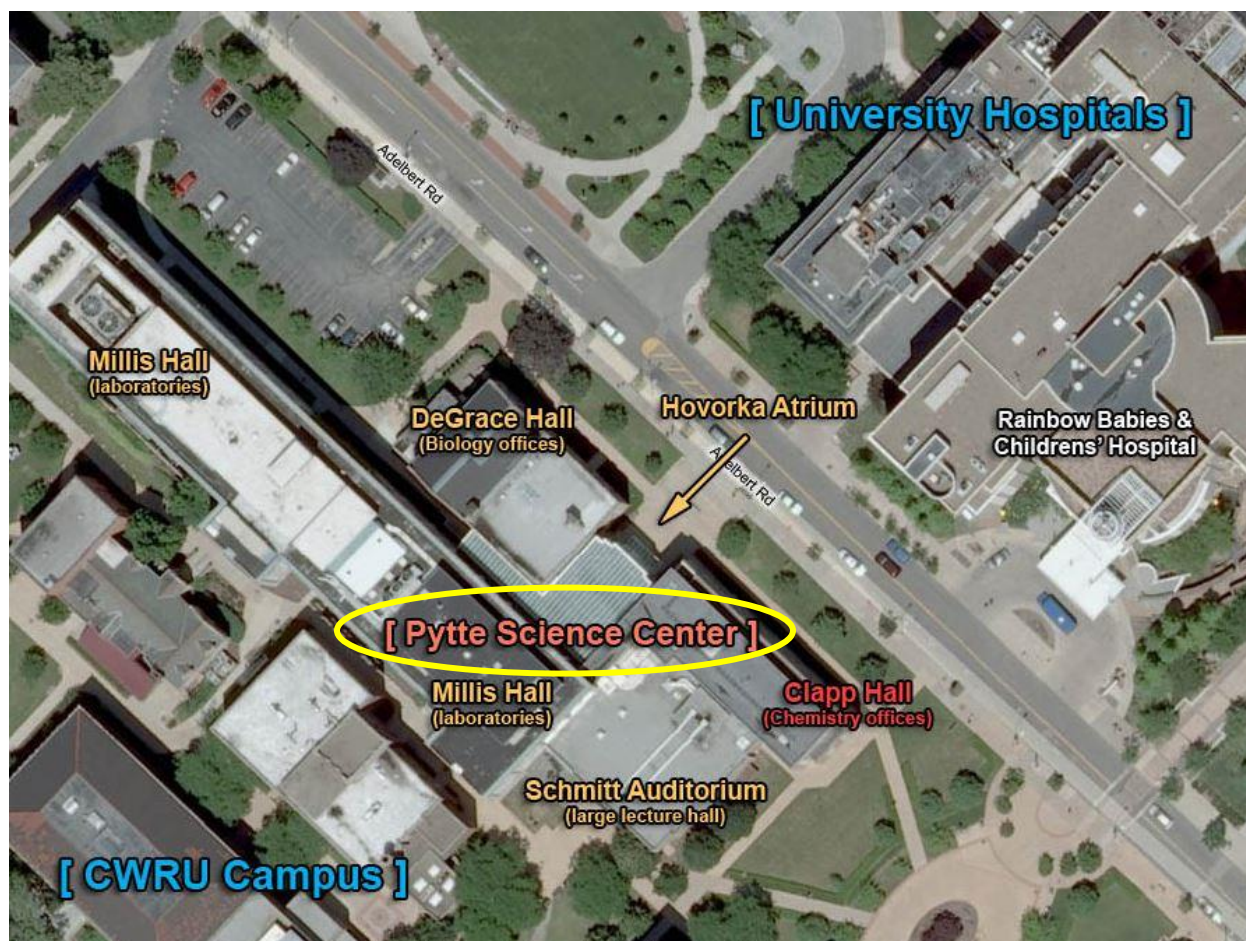
Extrusion – Kent Hale Smith

IR, Raman – Millis

SEM – SCSAM

4:30 PM – Adjourn

Space is limited so let us know you are coming! Reply “YES” in the subject line along with your name and phone number to danielle.hanna@thermofisher.com or by calling 616-295-7734 to reserve your spot



Board Meeting Minutes – April 3, 2023

Call to Order: In person at PEAC-Univ of Akron. Meeting called to order at 5:30PM.

Present: Joe Mattingly, Bob Weiler, Keith Pelfrey, R J Viereckl, Larry Stanek, David Schultz, Dan Jones and Sherri Hart

Online: Tony Dean

Absent: Kevin Malpass, Bob Wegelin, John Fellenstein, Nicole Fraifogl, Critt Ohlemacher and Sahil Gupta

Joe Mattingly hosted BOD

Minutes reviewed from March and approved.

In need of new BOD/Committee members to help fill key positions

Treasurer- next SPE year

House- next year

Technical Program 2022/23—Larry Stanek / David Schultz / Sherri Hart

- March 20- Cleve hosted a Tour of Magnet in Cleveland- the Tour of the facility was fascinating and enlightening. They offered tours to our groups that we are aligned with in education space. We had a limited turnout from Cleveland and Akron plus a couple of guests from each region.
- April 10- Akron- University of Akron- Student Poster session- RJ Viereckl-PESO Team located Polymer Science 3rd Floor, Present poster- \$5, No Poster -\$10, Members- \$25. Plan to align prize for Top voted poster. Working with caterer, align tables and chairs. Parking arrangement- U of Akron- John Fellenstein. Prof Weinan Xu- host evening as Chair of PESO- faculty Advisor.Excellent work with PESO group led by RJ to align this special meeting to allow networking for U of A graduate and under -graduate students that might attend.- Thank you for all of your help as we align a template for future out-reach.
- May 22- Keith Pelfrey will be MC the evening. David Schultz and Keith to meet align details, program- Jenny, powerpoint and loop- Bob Wegelin for banquet. In addition to align support via Computer, Projector and Screen and Tabletop. Awards have been ordered. We have set Award winners- Hall of Honor, Zekan plus Lifetime awaiting final details and pictures and bios plus final list Scholarship students.
- David Schultz will send Awards link to BOD- as soon as I receive from ACESS.
- June 13- Changed date Tuesday to accommodate more BOD members to attend as we align for next year- still dynamic situation- Papa Joes planned location being set up by Bob Weiler.

In addition do have a thumbnail sketch for year 2023-24

- Akron- Sept- Greg Kozera- Shale Crescent- USA- Hilton target date Sept 11- DRS made contact will follow up. He approached us with interest to present to our group on Manufacturing Advantage including discussions on Ohio, Pa and West Virginia- advantages. He is Marietta centric but is more than willing to travel to Akron. We were thinking that this overall review and landscape might be a perfect way to kick off the next SPE year.
- Akron- Oct- Vinyltec – Oct 10-12 at Hilton
- Cleve- could as well run or align a meeting- checking with Rik and Susan- TBD
- Akron- Nov or Dec Bounce – Innovation key contact Emery Leuchtag- Akron area
- Open for ideas plant tours
- Cleve or Akron
- Jan- April- thoughts- Joint meeting with Detroit and or Erie
- Ideas- Think Box
- Technology House

Board Meeting Minutes – 4/3 continued

- We as well talked with Rik and would like to do Plant tours this year- some from the past as well a Day event- where we develop a theme and invite Detroit, Erie to local Cleve/Akron area for Conf- we can ALL win based on that scenario!

- Rik tossed out his company in Pa- Moxie Tec, Thogus- 3 D Printing, Tymax and others.

- We discussed a number of themes and subjects- let the work start for next year.

House and Treasurer—Bob Weiler

Bob reports we are set for May meeting- looking to have BOD /Committee member handle House this next year.

Bob reports finances are in good standing. He suggests that funds, as set in Budget for Edu Foundation, be provided.

He reports he has aligned an additional mode for SPE members or attendees to pay at the door or ahead of time using a new Square feature that uses a QR code. Bob recorded a request for payment copies from ACCESS -STEM.

Membership—Kevin Malpass

Sherri for Kevin reports at 172 members with several soon to expire- NEED to align task force to follow up with expiring members. RJ will double check the student membership progress from Sherri and take action to increase numbers if needed.

Councilor—Dan Jones

Meeting took place ANTEC- Denver no new information from meeting provided.

Student Chapter—RJ Vieredel

Need new Scholarship applicants for Fall – new Undergraduate program at U of Akron will be a new source.

Public Interest / Advertising—Tony Dean

We are up to date on information on website. Tony still trying to get new advertisers aligned for next year.

Newsletter—Sherri Makar Hart

No report.

Social Media—Sherri Makar Hart

Sherri to work with Jenny on some new thoughts to add upcoming events to FB and Linked IN. Joe Mattingly to forward to ASPE BOD- membership area from Intl.SPE set a couple of year ago – to add to ASPE website.

National Awards—Keith Pelfrey

No report.

Section Awards—Keith Pelfrey

There will be three Lifetime awards this year and all have been notified and will attend. David Schultz will forward an official invite to Lifetime members- mid April. We have identified a Hall of Honor candidate and as well a Zekan Award winner. We need to start alignment of the Awards Program flier including Speaker- Prof James Eagan- Univ of Akron- Bio and Picture, Student Scholarships.

Board Meeting Minutes – 4/3 continued

Education Committee—John Fellenstein

Reported currently Scholarships- 1 renewal and 3 New Scholarships await final details.

Science Olympiad took place (3/11) at U Akron- follow up planned for May ASPE BOD.

WRD Science Fair took place March 18- SPE provided awards- thank you Sherri

ACCESS- STEM event took place March 30, Carin Helfer- ex AGPA , David Schultz and Joe Mattingly tag teamed polymers and plastics up-close for approx. 80 students.

Education Foundation—David Schultz/Joe Mattingly

Checks for scholarships are written and mailed. Target amount for Scholarships is 11K. The Foundation is in good standing with current market dynamics in play. No planned meeting for Foundation in Q1. Suggested a possible re-work of funds- plan to review suggested proposal.

Growth Committee—Kevin Malpass

No report.

2023 VINYLTEC—Bob Weiler

Planning and Committee meetings underway with large event set to celebrate- Brabender 100 Year Anniv.

Akron is hosting - David Schultz Co-Chair with Raechel Sincavage from Dow set for October 10-12 at Hilton – Akron. Interest to have a PlastiVan update informed John Fellenstein. Committee reaching out for Sponsors and Exhibitors- David Schultz, Bob Wegelin and Tony Dean- Akron.

ACCESS Update

Annual Presidents and Advisors meeting set for April 19 at Bounce Innovation Hub in Akron, new Advisors on our BOD as of this month will allow a broad review of local activity from Greater Akron Chamber, Univ of Akron and local Consulting company. PayPal is up and working, currently ironing out bugs- thank David Perry and making sure to align a society person in reservations, however ACCESS is supplying as well a weekly update based on influx of reservations- Thank you Denise Kotz. It is available for May ASPE event.

Old Business

None.

New Business

Dan Jones reminded. The IEEE society is in charge of aligning under the National ADSPE for year 2024 and SPE is set for 2025. This would entail support and developing programs. It could possibly happen that SPE may be up for 2024.

Meeting Adjourned. Next meeting PEAC- May 1 530 PM.

Akron Section Past Presidents

*63 years of
excellence*

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1960-1961	Milan Krajcik	1991-1992	Spencer Kreiser
1961-1962	Foster J. Young	1992-1993	Robert C. Wegelin
1962-1963	Dickson L. Stoker, III	1993-1994	Anthony F. Dean, Jr.
1963-1964	Edward L. Hillier	1994-1995	Wayne Decamp
1964-1965	John R. Russell	1995-1996	Melanie Stewart
1965-1966	John R. Russell	1996-1997	Kevin Hershfield
1966-1967	Clyde H. Jones	1997-1998	David Schultz
1967-1968	Alan Corry, Jr.	1998-1999	John Raab
1968-1969	Bernard M. Saffian	1999-2000	Gary Taylor
1969-1970	Harold R. Schick	2000-2001	Kevin Malpass
1970-1971	Robert G. Hills	2001-2002	Kenneth L. Sharp
1971-1972	John J. Satterfield	2002-2003	Joseph E. Pfeiffer
1972-1973	Alexis M. Gross	2003-2004	Robert C. Wegelin
1973-1974	Francis J. Maurer	2004-2005	Joseph Mattingly
1974-1975	Leverett A. Anderson, Jr.	2005-2006	Lloyd A. Goettler
1975-1976	Robert M. Hershey	2006-2007	John Woodside
1976-1977	Richard L. Fleshman	2007-2008	Vivian Malpass
1977-1978	David Curtis	2008-2009	Joseph Mattingly
1978-1979	John A. Zelek, Jr.	2009-2010	David A. Katz
1979-1980	Gerald W. Whitnable	2010-2011	Lloyd A. Goettler
1980-1981	Kathleen N. Bechter	2011-2012	David Schultz
1981-1982	Victor E. Giuffrida	2012-2013	Kevin Malpass
1982-1983	James Steiner	2013-2014	Dan Jones
1983-1984	Robert G. Hills	2014-2015	Vivian Malpass
1984-1985	Anthony F. Dean, Jr.	2015-2016	Keith Pelfrey
1985-1986	Gene Buser	2016-2017	Robert Weiler
1986-1987	Harry J. Barth	2017-2018	Tom McQuaide
1987-1988	Judith A. Fallon	2018-2019	Nicole Fraifogl
1988-1989	William E. Tosko	2019-2020	Larry Stanek
1989-1990	Robert C. Wegelin	2020-2021	Larry Stanek
		2021-2022	Joseph Mattingly

Akron Section Board of Directors

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Akron Section Society of Plastics Engineers Educational Foundation



06-22

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 nearly forty years that the foundation has been in existence, it has provided over 300 scholarships to young men and women totaling in excess of \$441,000 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 David Schultz, 610 Berkshire Drive, Medina, Ohio 44256.

Akron SPE Scholarship Donation Commitment

- \$50,000 lump sum
- \$10,000/yr. next 5 yrs.
- \$6,250/yr. next 8 yrs.
- Other: _____

Company name: _____

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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) 283-5721 with any questions. Thank you for your consideration.

Sincerely,
David Schultz, Foundation Chair
Akron Section Society of Plastics Engineers, Educational Foundation



Akron Section Society of Plastics Engineers
Tony Dean, Advertising Manager - 330-929-9916

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