

# Polymer Valley News



**The Newsletter of the Akron Section of the Society of Plastics Engineers**  
*Our 59<sup>th</sup> Year of Education and Service to the Plastics Industry*

**~ Next Session ~**

**Monday, February 12, 2018**  
**5:30 p.m.**

## **Polymer Core, Medical Device Solutions**

**Hilton Garden Inn**  
**8971 Wilcox Drive**  
**Twinsburg, Ohio 44087**

### **A Case Study of Plastic Material Selection for Medical Device Design, Prototype and Manufacture**

Presented by Dr. Shengqiang Gao,  
Manager of Polymer Core,  
Medical Device Solutions, Cleveland Clinic

Dr. Gao, Senior Principal Research Engineer will introduce the function of the Polymer Core group at Medical Device Solutions department at the Cleveland Clinic, review the material selection process in general and provide a few specific examples of projects that were done in the past.



#### **Meeting Information**

Member and/or guest	\$30
Non-member	\$35
Retired	\$25
Student	\$10
New Member - first meeting	Free

Social / Networking	5:30 p.m.
Dinner	6:00 p.m.
Presentation	7:00 p.m.

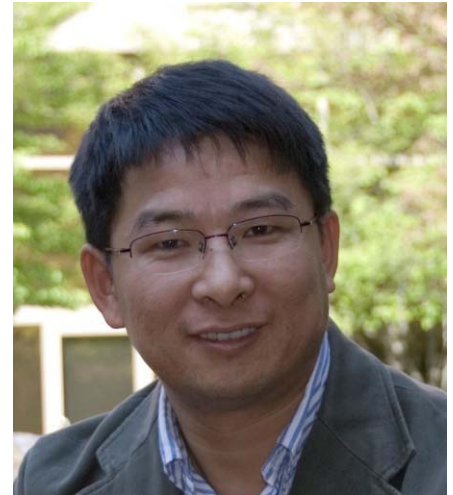
Reservations must be in by noon on Wed, Feb. 7 to Dan Crist at [mail@cmd-tip.com](mailto:mail@cmd-tip.com) or 440-227-5424. Please be sure to include the company affiliation of each attendee including dietary restrictions.

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# Speaker Biography

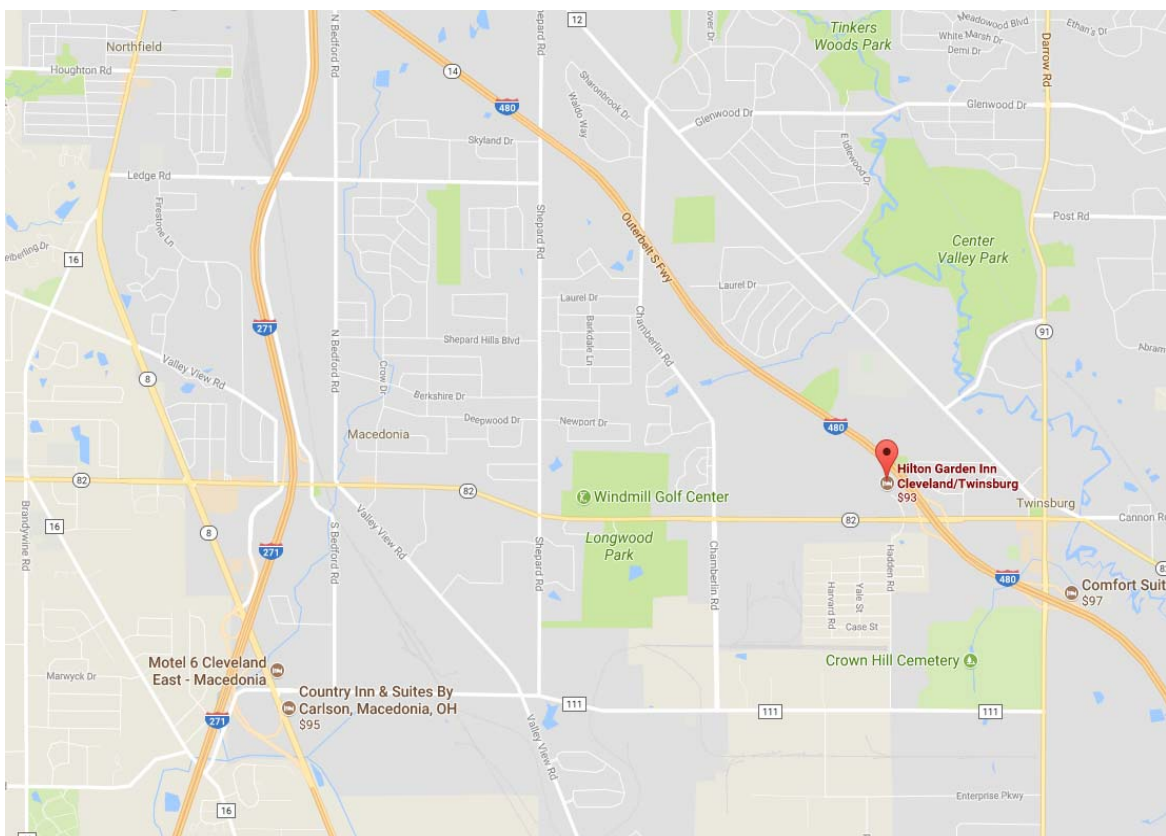
The Polymer Core in Medical Device Solutions (MDS), Lerner Research Institute, Cleveland Clinic, is dedicated to providing polymer- and biomaterials-related medical device design and prototyping support and services to research projects. The Core, which Dr. Gao manages, is staffed with experts of varied backgrounds and years of medical device development experience. Dr. Gao holds a Ph.D. degree in polymer materials science and is experienced in many disciplines. He has designed and prototyped numerous medical device projects, including catheters, balloons, prosthetic valves/rings, total artificial heart, artificial kidney, and so on. He has received innovation awards multiple times in the past. More than 15 patent applications have been filed in this period. Seven of them have been granted to this point.



## Meeting Map

Take exit 36 (Aurora Rd) from I-480  
Turn west on Aurora Rd  
Turn right on Wilcox  
Hotel is at end of road past Blue Canyon

**Address:**  
8971 Wilcox Dr. Twinsburg OH



## Advertiser Index

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Harwick Standard	5
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	<ul style="list-style-type: none"> <li>• Densephase Pneumatic Conveying</li> </ul>		<ul style="list-style-type: none"> <li>• Vibratory Feeders</li> <li>• Bin Activators</li> </ul>
 <a href="http://www.davidindustrialsales.com">www.davidindustrialsales.com</a> Akron: (330) 659-3157    Perrysburg: (419) 874-1359			

## Akron Section Past Presidents

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excellence*

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1961-1962	Foster J. Young
1962-1963	Dickson L. Stoker, III
1963-1964	Edward L. Hillier
1964-1965	John R. Russell
1965-1966	John R. Russell
1966-1967	Clyde H. Jones
1967-1968	Alan Corry, Jr.
1968-1969	Bernard M. Saffian
1969-1970	Harold R. Schick
1970-1971	Robert G. Hills
1971-1972	John J. Satterfield
1972-1973	Alexis M. Gross
1973-1974	Francis J. Maurer
1974-1975	Leverett A. Anderson, Jr.
1975-1976	Robert M. Hershey
1976-1977	Richard L. Fleshman
1977-1978	David Curtis
1978-1979	John A. Zelek, Jr.
1979-1980	Gerald W. Whitnoble
1980-1981	Kathleen N. Bechter
1981-1982	Victor E. Giuffrida
1982-1983	James Steiner
1983-1984	Robert G. Hills
1984-1985	Anthony F. Dean, Jr.
1985-1986	Gene Buser
1986-1987	Harry J. Barth
1987-1988	Judith A. Fallon

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2017-2018

William E. Tosko
Robert C. Wegelin
Geraldine R. Stromquist
Spencer Kreiser
Robert C. Wegelin
Anthony F. Dean, Jr.
Wayne Decamp
Melanie Stewart
Kevin Hershfield
David Schultz
John Raab
Gary Taylor
Kevin Malpass
Kenneth L. Sharp
Joseph E. Pfeiffer
Robert C. Wegelin
Joseph Mattingly
Lloyd A. Goettler
John Woodside
Vivian Malpass
Joseph Mattingly
David A. Katz
Lloyd A. Goettler
David Schultz
Kevin Malpass
Dan Jones
Vivian Malpass
Keith Pelfrey
Robert Weiler
Tom McQuaide



# Akron Section SPE



~ Next Month ~

**Monday, March 12, 2018**  
**5:30 p.m.**

**PolymerOhio**  
**Hilton Inn**  
**3180 West Market Street**  
**Akron, Ohio 44333**

**Additive Tooling for Injection Molding and  
Vacuum Forming Processes**  
**Presented by Darrell Stafford**

Manufacturing tooling through conventional ways can be costly and time consuming if changes need to be done. Most of the time all of these parameters delay the production schedule resulting in a time crunch to meet the deadlines.

Based on this general observation, Catalysis developed a complete solution to reduce the cost and delivery time of tooling for injection molding and vacuum forming using additive manufacturing techniques as opposed to conventional subtractive methods.

In this presentation, you will learn why additive tooling is a competitive option. Different types of tooling will be presented ranging from polymer to 3D printed metal and in the last part of the presentation we will explain the benefit of conformal cooling/heating for tooling in thermoplastic and thermoset plastic injection.

## Meeting Information

Member and/or guest	\$25
Retired	\$20
Student	\$5
New Member - first meeting	Free

Social / Networking / Bar 5:30 p.m.  
Dinner 6:00 p.m.  
Program Following dinner

Reservations must be in by noon on Friday, Mar. 9 and can be made to Gary Taylor at 330-419-4380 or [akronspe1@gmail.com](mailto:akronspe1@gmail.com)

Please be sure to include the company affiliation of each attendee including dietary restrictions.

Darrell worked for Honda North America in the R&D department for over 31 years and retired in 2016. For the last 5 years he was there, he led the Additive Manufacturing effort all across the board from conception and styling all the way to servicing end user parts.

Since Darrell retired from Honda, has he been the President/CEO of Catalysis Additive Tooling which offers 3D printed tooling solutions. Using additive manufacturing tooling to produce functional parts (with customer's material) offers a significant cost reduction as well as a short delivery time. Catalysis is using an agnostic approach to select the best option to manufacture tooling for low to medium volume production for injection molding and vacuum forming process.





# Membership Report - 2017

The Akron Section currently has 261 active members.

<u>Month</u>	<u>Active</u>	<u>New + Renewal</u>	<u>Expired &amp; Dropped</u>
Jan	280	1 + 0	12
Feb	274	1 + 0	7
Mar	276	3 + 1	2
Apr	277	9 + 1	9
May	270	1 + 0	8
Jun	280	10 + 0	0
Jul	278	2 + 2	6
Aug	281	3 + 0	0
Sep	271	1 + 0	11
Oct	269	0 + 2	4
Nov	271	8 + 1	7
Dec	261	0 + 0	9

## ***Say hello to new members from May to December:***

Joshua Allor, Omya Inc.  
 Ronald Beck, Americhem Inc.  
 Nakul Bende, PolyOne North America  
 Bret Chisholm, PolyOne Corp.  
 Timothy Frisch, Covestro LLC  
 Bryan Hilke, Mitsui Chemicals America  
 Clayton Hoperich, A. Schulman Inc.  
 Alexander Jones, ProAmpac  
 Daniel Jones  
 Matthew Kuwatch, Aurora Plastics LLC  
 Miranda Marcus, EWI  
 Onofrio Palazzolo, Marigold Mgmt Group LLC  
 Michael Puhalla  
 Brian Rowles, Schneller LLC  
 Stefania Scotuzzi, Covestro LLC  
 Nicole Smith, GOJO Ind.  
 Heath Sunkle, M. Holland  
 Kurtis Traikoff, F&D Plastics Inc.



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# Pittsburgh Section – Upcoming Events

 <b>Pittsburgh SPE</b> <b>FALL / WINTER '17-18 PROGRAMS:</b>	
<b>January 18<sup>th</sup></b> <b>Time: 4:00 PM</b> <b>Location:</b> Hofbrauhaus 2705 S. Water Street Pittsburgh, PA 15203	<b><u>Designing Plastic Parts to Avoid Failure</u></b> Addressing Stresses and Their Effects on Molded Part Durability Mark Yeager, Field Engineering Manager, Covestro LLC  This presentation focuses primarily on polycarbonate materials but has relevance for most unreinforced rigid engineering thermoplastics. It addresses the various types and sources of stress in molded parts and assemblies, and the effect stress can have on key material properties such as ductility, impact performance, dimensional stability, chemical resistance, and moldability. It also covers ways to minimize or manage stresses through processing, part design and secondary processes.
<b>March 1 5<sup>th</sup></b> <b>May TBD</b>	<b><u>Technical Program TBD</u></b> <b><u>Pittsburgh Pirates Tailgate</u></b>  <i>Any input regarding program topics or venues would be greatly appreciated. Please email to Al Ulrich, program chair at: <a href="mailto:Pittsburgh@4spe.org">Pittsburgh@4spe.org</a> or <a href="mailto:al.ulrich@polyone.com">al.ulrich@polyone.com</a></i>
<b>Price:</b> <b>RSVP:</b>	\$25.00 for SPE members, \$30.00 for non-SPE members <a href="mailto:Pittsburgh@4spe.org">Pittsburgh@4spe.org</a>  <i>Please RSVP, as we need a minimum interest level for programs and events.</i>

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# THERMOPLASTIC ELASTOMERS CONFERENCE

## *Innovation Bounces Back* 2018

September 18-20 | Akron, OH



## CALL FOR PRESENTATIONS

The SPE Thermoplastic Elastomers Special Interest Group (SIG) & Akron Section invite the submission of abstracts for presentation at the 13th TPE Topical Conference September 18-20, 2018.

*In a change of format, only abstracts and presentations will be required.*

Accepting presentations on the latest thermoplastic elastomer developments in:

- Medical and Healthcare
- Automotive and Transportation
- Wearable Electronics
- Advances in Processing Technologies
- Performance Enhancing Additives

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

William Blasius  
+1 774-545-0990 | [wqblasius@gmail.com](mailto:wqblasius@gmail.com)

### **Submission Deadlines:**

Abstract: March 1, 2018

Completed Presentation: July 15, 2018



# 2018 Scholarship Program Information



# AKRON SECTION

## Background

The purpose of the Akron Section of the Society of Plastics Engineers Scholarship Program is to promote knowledge in polymer science, engineering, and plastics technology.

Started in 1988, it has awarded over \$320,000 to area students.

Preference is given to students enrolling in two- and four-year programs with a focus on plastics and polymers. STEM students are good fits for these scholarships and for future employment in the plastics industry.

Scholarships up to \$3000 per year will be awarded and can be used for tuition, books, laboratory fees, and other educational costs necessary to earn a certificate or associate or baccalaureate degree in preparation for a career in polymers for the plastics industry.

## Scholarships Available

Goodyear Tire & Rubber Company

Rubbermaid

Kenneth L Sharp Memorial Scholarship

Jim Steiner Memorial Scholarship

SPE - Akron Section

Special Merit Awards

*Names of scholarship recipients will be distributed to donor companies for possible internship or cooperative programs. The number of scholarships awarded per year will vary according to the number of qualifying applicants.*

## First-time Applicants

Interested students from local high schools, technical, and vocational schools, and area colleges are encouraged to fill out the attached SPE Scholarship Application form, including the essay, references, and current transcript. Students are encouraged to discuss their interests in plastics.

All scholarships are awarded for one year with option for renewal. The awards are for full-time, under-graduate, students only. Co-op students are also eligible

## Renewal Applicants

Renewal Instructions:

1. Maintain a minimum **2.5/4.0** grade point average or equivalent.
2. Submit grade reports and course selections demonstrating polymer-related curriculum prior to start of next semester.
3. Apply for renewal scholarship using SPE application form. (References and essay are not required for renewal.)

## Scholarship applications should be sent to:

**Akron SPE**  
**Attn: John Fellenstein**  
**250 South Forge Street**  
**Akron OH 44325-0301**  
OR  
[jfellenstein@uakron.edu](mailto:jfellenstein@uakron.edu)  
**Deadline is March 16, 2018**

## Selection Criteria

1. Scholastic Achievement
2. Interest in a plastics career
3. Extracurricular activities
4. Financial need
5. Two letters of reference from instructors or supervisors. (to be included with application)

Residence within area covered by Akron SPE

## 2017 Award Recipients

### Rubbermaid Scholarship

Eric Britton

*University of Akron*

### Ken Sharp Memorial Scholarship

Joe Rizzo Jr.

*The Ohio State University*

### Goodyear Scholarship

Connor O'Brien

*The University of Akron*

### Jim Steiner Memorial Scholarship

Gina Tubo

*The University of Akron*

### SPE – Special Merit Scholarships

Tanner Brahler

*The University of Akron*

Emma Harmon

*The University of Akron*

Nicolette Athans

*The Ohio State University*

Steven Prexta

*The Ohio State University*

Walid Abuhashim

*The University of Akron*





# 2018 Scholarship Application & Renewal Akron Section - Education Foundation

1. Applicant Name: \_\_\_\_\_
2. Your Home Address: \_\_\_\_\_
3. City: \_\_\_\_\_ Zip: \_\_\_\_\_ Home Phone: \_\_\_\_\_
4. Your Address at School: \_\_\_\_\_  
City: \_\_\_\_\_ Zip: \_\_\_\_\_ School Phone: \_\_\_\_\_  
Your Email address: \_\_\_\_\_
5. Current School: \_\_\_\_\_  
Course of Study: \_\_\_\_\_  
Cumulative GPA: \_\_\_\_\_
6. School/College to be attended: \_\_\_\_\_  
Proposed Course of Study/Major: \_\_\_\_\_  
Expected Degree: \_\_\_\_\_ Expected Graduation Year: \_\_\_\_\_

## **New Applicants Only, please continue:**

7. Please briefly describe how you intend to finance your education: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. Current and Past School Activities: (attach separate sheet or resume if necessary – 1 page only please)\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
9. On a separate sheet of paper, type a short discourse (no more than two pages) describing your enthusiasm and interest in pursuing a career in a STEM field that focuses on plastics or (or another related field) as well as how your intended field of study will help you achieve your career goals.
10. Have **two** (and only 2) academic references (instructors or supervisors) provide the committee with a letter documenting their insights on your scholastic achievements and potential for future success in the fields of plastics and polymers. Attach these references to this application.

**All applications must include a current transcript.**

**All Applicants return application by March 16<sup>th</sup>, 2018 to the following address:**

**Akron SPE  
Attn: John Fellenstein  
250 S. Forge St  
Akron, OH 44325-0301**

For questions, please contact Dr. John Fellenstein, phone: 330-972-6334, or email [jfellenstein@uakron.edu](mailto:jfellenstein@uakron.edu)

# January Highlights





# January Highlights



Mr. Ed Hall, guest speaker and topic





# Board Meeting Minutes – January 8, 2017

**Call to Order:** Meeting called to order at 5:00 PM at Hilton Hotel

**Present:** Tom McQuaide, Gary Taylor, Keith Pelfrey, Nicole Brostowitz, David Schultz, Sherri Hart, Viv Malpass, Bob Weiler, Joe Mattingly, Bob Wegelin, John Fellenstein and Larry Stanek (potential member)

**Absent:** Kevin Malpass, Tony Dean, Anisa Cobaj, Tzu Yu Lai, Marcos Pantoja, Sahil Gupta, Szu Hao-Jackie and Juan Marin Angel

Minutes from **November 6, 2017** were reviewed and approved.

## **Presidents Report—Tom McQuaide**

Tom welcomed ALL Happy New Year for SPE –Akron. We as well have confirmed Sherri Hart as New Director on our BOD!!

Guest attending- Mike Dowell-ACS- Akron Section as well Executive Director for ACCESS- Education agenda- Plastivan

## **Committee Reports:**

### **Technical Program 2017/18—Tom McQuaide**

Tom informed that he has confirmed a new program for the March meeting via Polymer Ohio contact- 3 D Printing for Thermoplastics Applications??

Tom as well informed we will have a short BOD meeting tonight just prior to Jan Meeting- he plans to follow directly with those not present on status of ACTION items.

### **Technical Program 2018/19—Nicole Brostowitz**

ANTEC for 2019 moved up to March in Detroit. Nicole reports that development is in process- Sept appears to be very busy- TPE TOPCON, Joint Meeting scheduled with ACCESS- Brent Sisler- ASME, probably will target Oct 2018 for first meeting.

## **House—Gary Taylor/Bob Wegelin**

Gary Taylor has confirmed locations for March, April- Hilton and May- Firestone for Awards.

## **Membership—Sahil Gupta**

No report.

Nicole needs updated data for Pinnacle Award.

## **Treasurer—Gary Taylor**

Monthly report was submitted showing balances and transactions.

## **Councilor—Kevin Malpass**

No report.

Tom and BOD would like to know of items from Council side plus intentions for continuation as Councilor.

## **Student Chapter—Tzu Yu Lai and Anisa Cobaj**

They are currently working on finalizing their attendance/support request plans for ANTEC in Orlando. Marcos forwarded pricing information on two different monitors as a possible replacement of the non-functioning monitors hanging at PEAC, more information to follow on mounting, programming and maintenance possibilities- to be discussed next BOD.



# Board Meeting Minutes – 1/8 continued

## **Awards—Keith Pelfrey**

Tony is in process of completion of Communication Award.

Keith requests BOD to start to develop list of candidates for Hall of Honor, Zekan Awards plus Intl Awards – HSM and Fellow etc.

## **Education Committee—John Fellenstein**

Sherri Hart offered to help with the Science Fair Judging. We confirmed dates for APS and Western Reserve- plus standard funding approved.

## **Education Foundation—Bob Wegelin**

Bob Wegelin reported all is well in fund and is up to date on taxes.

## **Future TopCons—Vivian Malpass**

Viv confirms 2018 Committee has been meeting and we are currently on schedule.

## **Growth Committee—Kevin Malpass**

Sherri Hart in process of making contact - Kevin Malpass to look into pushing this forward.

## **Old Business:**

BOD meeting dates for remainder of year - February 5, March 5, April 2, May 7

Joint Societies Meeting September 10, 2018 – Akron/Fairlawn Hilton

Video displays for polymer engineering building – Review Quotations

## **New Business:**

Need Ideas for April Education Night Program – Update: Plastivan - John Fellenstein has reported he is in process of developing

Plastivan Activities – Mike Dowell - Mike informed he is proposing late Jan to local-Akron ACS Committee for an Innovation Grant to cover 2 days of Plastivan for school year 2018-19- in 2 possibly 3 local schools. In the spirit of a joint effort- Nicole suggested we as well cover 2 days- voted and approved funding- discussed as well Cleve Section feels they as well can get funds for 1 if not 2 days- Dennis Meade- in process of getting approval

Tony Dean will Handle Education Award.

Craig Potter, Cleveland Section, Attendance at SAE Auto Show- Sherri Hart and Bob Weiler to attend in Feb re SPE- Akron.

Vinyltec 2019 (Weiler).

iPromise opportunity – Dave Schultz.

## **Adjournment**

Meeting was adjourned at 5:33 p.m. Next BOD Meeting February 5 at 5:30 p.m. at PEAC.



# Technical Assistance

# SPE National

**For technical polymer questions please use the SPE International forum “The Chain”**



Please click the following areas of interest:

[Who Can Help at National](#)

[Member Benefits](#)

**For local questions please contact the officers at [akronspeweb@gmail.com](mailto:akronspeweb@gmail.com)**

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- > Forced Degradation
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# Programs for 2017 / 2018

- Sept. 11 **The Vinyl Institute**  
PVC Overview and Applications,  
Richard Krock  
-- *Hilton Fairlawn – Akron \**
- Oct. 9 **Lubrizol**  
Plastic Resin Development - Plant Tour  
-- *Brecksville – Cleveland \**
- Nov. 13 **The Madison Group**  
Prevent Failures by Understanding why  
Plastic Parts Crack  
-- *Hilton Inn Twinsburg – Cleveland \**
- Dec. 4 **Holiday Celebration**  
Madrigal Singers and Speaker  
-- *The Galaxy, Wadsworth – Akron\**
- Jan. 8 **Baerlocher USA**  
-- *Hilton Fairlawn – Joint ACCESS\**

- Feb. 12 **Plastics in the Medical Field**  
-- *Hilton Fairlawn – Cleveland \**
- Mar. 12 **PolymerOhio**  
Additive Tooling for Injection Molding  
and Vacuum Forming Processes  
-- *Hilton Fairlawn – Akron \**
- Apr. 9 **Industry / Teacher Collaboration**  
Plastics in Education, John Fellenstein  
and Kevin Cavicchi  
-- *Hilton Fairlawn – Akron\**
- May 21 **Akron Section Awards Night**  
Dr. Eric J. Amis  
-- *Firestone Country Club – Akron*

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

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**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!**

**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.**

### **Board Meeting Dates:**

February 5

March 5

April 2

May 7

## **Akron Section Board of Directors**

Tom McQuaide 330-630-7113 T  
A. Schulman 330-630-3349 F  
President/Chair, Tom.McQuaide@aschulman.com  
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Website/Social Media

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Harwick Standard Dist. Corp. 330-798-9328 F  
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Student - U Akron Polymer Eng. sc207@zips.uakron.edu  
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Newsletter



# Akron Section Society of Plastics Engineers Educational Foundation



1-18

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 1988, 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 265 young men and women totaling in excess of \$335,000 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 1988, we offered those companies who contributed \$30,000 a 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 Bob Wegelin, 13206 Kaufman Ave. NW Hartville, OH 44632.

## Akron SPE Scholarship Donation Commitment

- ☐ \$30,000 lump sum. \_\_\_\_\_  
☐ \$10,000/yr. next 3yrs. \_\_\_\_\_  
☐ \$5,000/yr. next 6 yrs. \_\_\_\_\_  
☐ Other: \_\_\_\_\_

Company name: \_\_\_\_\_  
Contact person: \_\_\_\_\_  
Ph. # or email: \_\_\_\_\_

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, which is scheduled on May 21, 2018.

We look forward to your support of this very worthwhile cause by your fine company. Please contact me at (330) 414-1498 with any questions. Thank you for your consideration.

Sincerely,  
*Bob Wegelin, 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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**Website, E-Blast & Newsletter Advertising**

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**Insertion Order 2017-18**

Polymer Valley News: Akron Section SPE Newsletter  
Delivered via email, stored at <http://www.akronspe.org/newsletter.htm>

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Please check ad size wanted. One column is 3-7/8" wide.

This is the 58<sup>th</sup> year of the Akron SPE Section and rates are for entire season, September 2017 – Summer 2018. **Payable in Advance. Please let me know if you need an invoice.**

Ad format must be electronic (but we can scan your original artwork). File size should be limited based on the size of the ad ordered. Oversized ads will be charged an additional fee. Acceptable formats are .bmp, .pcx, .jpg, .tif, .gif, or MS PowerPoint or Word (if you have any issues with format, please email us and we can provide assistance). **Color is Free! Color helps your ad stand out!** All ads included in newsletter, email blast and web site.

**Email artwork and this Insertion Order (completed) as an attachment to [francis@neo.rr.com](mailto:francis@neo.rr.com)**

If you don't include your email address, we have no way of sending you each issue!

(please X)	Ad Size	Dimensions	Price for year
	Business Card	One column by 2" high	\$100
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	Half Page	One column, 10" high	\$250
	Half Page	Page width (7.5"), 5" high	\$250
	Hotlink to company website	N/A	No Charge

**The cost on a per issue basis will be calculated by dividing the "Year" price by 10**

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**Mail checks, payable to AKRON SECTION SPE, to:**

Akron Section SPE  
c/o Gary Taylor  
Akron SPE  
715 Thelma Drive  
Wadsworth, OH 44281