

Polymer Valley News



The Newsletter of the Akron Section of the Society of Plastics Engineers
Our 59th Year of Education and Service to the Plastics Industry

~ Next Session ~

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

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

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Speaker Biography

Darrell Stafford 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, he has 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.

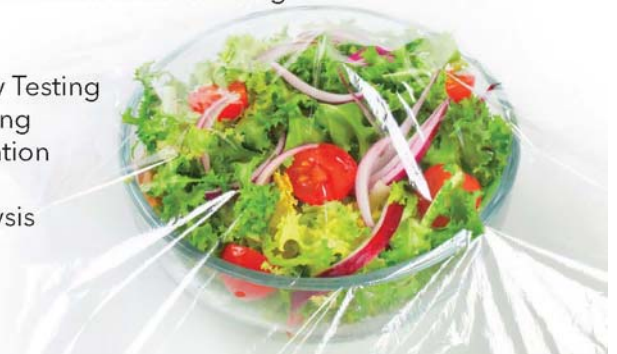
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Directions to Meeting

Akron Hilton, 3180 West Market Street, Akron, Ohio 44333

From Cleveland Hopkins Airport

Take 480 East to I-77 South. Exit at #138 to Fairlawn. Turn right on Ghent Rd. Follow south for two miles. The Hilton is at West Market Street (Rt. 18) and Ghent Road. Turn Right on West Market Street. Hotel is located on the left.

Driving South on I-77

Exit at #138 to Fairlawn. Turn right on Ghent Rd. Follow south for two miles. The Hilton is at West Market Street (Rt. 18) and Ghent Road. Turn Right on West Market Street. Hotel is located on the left.

Driving North on I-77 (From Akron/Canton Airport)

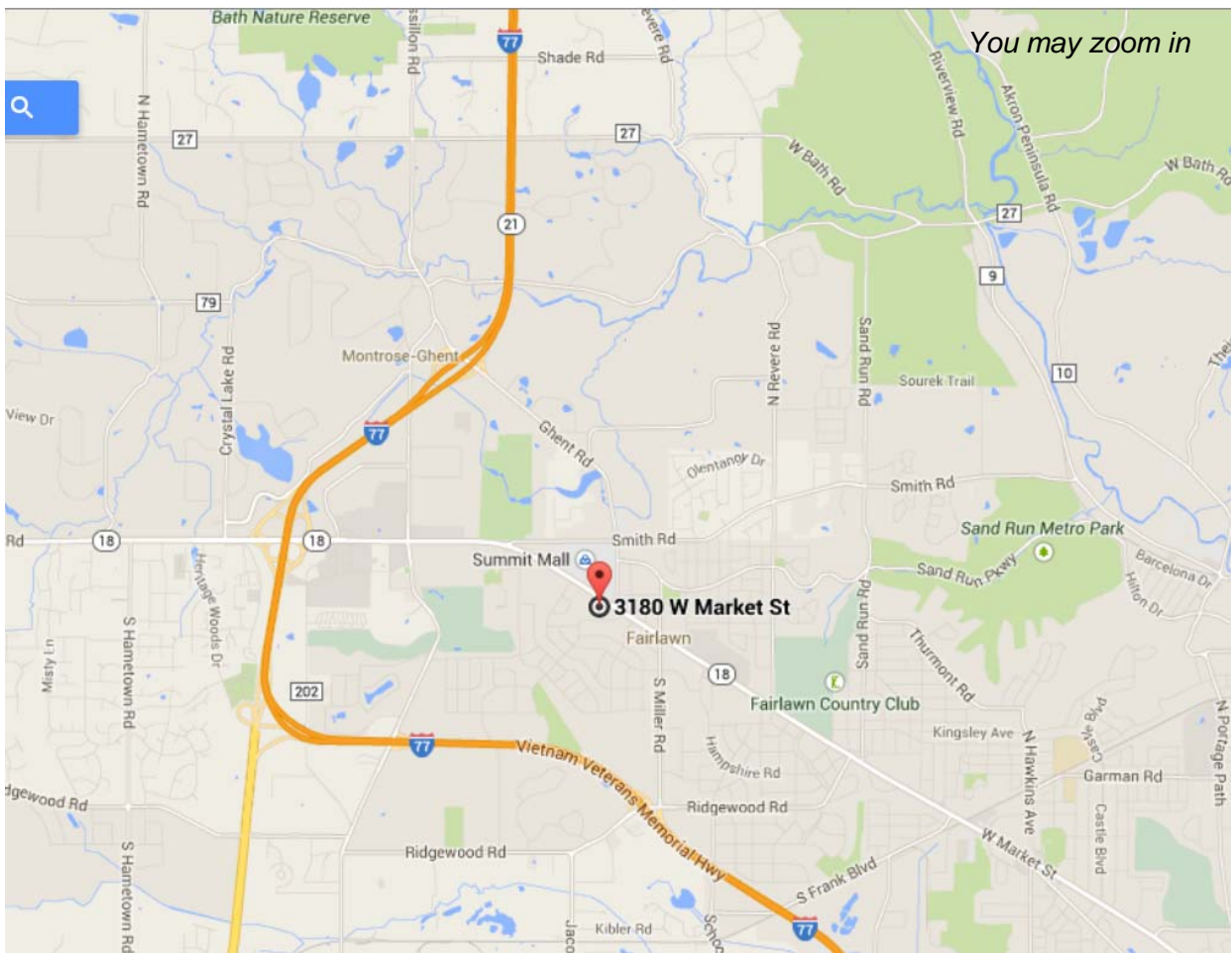
Exit at #133 – Ridgewood/Miller Rd. Go straight through the exit for approximately 2 miles. Turn left on Market Street (2 blocks). The Hotel is located on the left

Driving North or South on I-71

Take Route 18 – Medina Exit #218. Drive east on route 18 approximately 10 miles. The Hilton will be located on the right side opposite the Summit Mall

Ohio Turnpike

Take the Cleveland/Akron I-77 Exit #173 off the Ohio Turnpike. Take I-77 south to exit #138 to Fairlawn. Turn right on Ghent Rd. Follow south for two miles. The Hilton is at West Market Street (Rt. 18) and Ghent Road. Turn Right on West Market Street. Hotel is located on the left.



Advertiser Index

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Akron Section Past Presidents

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1959-1960	Donald F. Siddall
1960-1961	Milan Krajcik
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

1988-1989	William E. Tosko
1989-1990	Robert C. Wegelin
1990-1991	Geraldine R. Stromquist
1991-1992	Spencer Kreiser
1992-1993	Robert C. Wegelin
1993-1994	Anthony F. Dean, Jr.
1994-1995	Wayne Decamp
1995-1996	Melanie Stewart
1996-1997	Kevin Hershfield
1997-1998	David Schultz
1998-1999	John Raab
1999-2000	Gary Taylor
2000-2001	Kevin Malpass
2001-2002	Kenneth L. Sharp
2002-2003	Joseph E. Pfeiffer
2003-2004	Robert C. Wegelin
2004-2005	Joseph Mattingly
2005-2006	Lloyd A. Goettler
2006-2007	John Woodside
2007-2008	Vivian Malpass
2008-2009	Joseph Mattingly
2009-2010	David A. Katz
2010-2011	Lloyd A. Goettler
2011-2012	David Schultz
2012-2013	Kevin Malpass
2013-2014	Dan Jones
2014-2015	Vivian Malpass
2015-2016	Keith Pelfrey
2016-2017	Robert Weiler
2017-2018	Tom McQuaide



February Highlights



February Highlights



Dr Gao, Cleveland Clinic and John Sovis, Cleveland Section



On Jan 27, SPE Akron Section showed our support of the 62nd Akron STEM Expo 2018. We provided a representative as a Sponsored Judge for the event, where over 500 Akron Public School students participated. SPE provided awards for the best projects focused on studying the science and application of polymers.

Prizes awarded by SPE Akron Section, were:

- 1st Place High School, \$50 - Kouta Tabata - 9th grade, STEM High School

Apple Peel Polymers Phase 2

(Absorption study of water in peels of different apple varieties [polysaccharide polymers])

- 1st Place Middle School, \$50 - Wolfgang Gliebe - 6th grade, STEM Middle School

Science of Polymers Protecting Minerals at Different Heights

(Comparison of different polymers and their ability to protect minerals from free-fall impact)

- 2nd Place Middle School, \$30 - Nikash Sunchuri - 7th grade, Jennings Middle School

Turning Milk into Plastic

(Comparison of yield of casein plastic from different concentrations of vinegar in milk)



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
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 16th, 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

Technical Assistance

For technical polymer questions please use the SPE International forum "The Chain"



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

SPE National

Please click the following areas of interest:

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Board Meeting Minutes – February 5, 2017

Call to Order: Meeting called to order at 5:00 PM at PEAC University of Akron

Present: Gary Taylor, Keith Pelfrey, David Schultz, Sherri Hart, Viv Malpass, Joe Mattingly, Bob Wegelin, John Fellenstein, Sahil Gupta, Szu Hao-Jackie, Juan Marin Angel, Meeta Tuivedi and Larry Stanek (new BOD Member)

Absent: Tom McQuaide, Nicole Brostowitz, Kevin Malpass, Tony Dean, Anisa Cobaj, Tzu Yu Lai, Marcos Pantoja and Bob Weiler

Guest- Ean Hudspath- Guest Speaker- Glen Oak –Senior- Teacher- Dori Hess

Keith- Lead meeting as Tom McQuaide- not present

Ean Hudspath led off meeting with his presentation of his Extruder project- followed by excellent discussion on design and safety concerns as well as further work that Ean needs to do and should consider. He has supplied BOD with his contact information- will contact him directly for a number of follow up items. He as well plans to review status and re-work his plan- based on BOD feedback.

Welcome New Director Larry Stanek

Minutes from January 8 reviewed and approved.

Good to the Order- David Schultz- Secretary- Akron Section is newest member of Plastics Pioneers as sponsored by Dr. Viv Malpass- Akron and Dennis Meade- Cleveland- Congratulations to Dave!!

Presidents Report—Tom McQuaide

No report

Committee Reports:

Technical Program 2017/18—Tom McQuaide

Keith informs for Tom- set for Feb 12 meeting Cleveland in Twinsburg- Plastics in Medical and March meeting via Polymer Ohio contact- 3 D Printing for Thermoplastics Applications. April meeting is on track- Glen Oak- presentation- Dori Hess and students plus Plastivan review- Eve Vitale- Intl. SPE- Conn. Tom still 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 ACESS- Brent Sisler- ASME, probably will target Oct 2018 for first meeting.

House—Gary Taylor/Bob Wegelin

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

Membership—Sahil Gupta

Sahil reports we are currently at 261 and that he will continue to try to determine –details on recent past lost/lagging members.

Treasurer—Gary Taylor

Monthly report was submitted showing balances and transactions.



Board Meeting Minutes – 2/5 continued

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 have recently submitted application for Student Chapter Award for 2017 and currently working on finalizing their attendance/support request plans for ANTEC in Orlando. Marcos has recently informed of issues re location of two planned monitors in PEAC- John Fellenstein to discuss further with Dr Sadhan Jana- Polymer.

Awards—Keith Pelfrey

Tony has completed Communication Award and forwarded to SPE Intl.

Nicole has informed that she as well has completed Pinnacle Award- same format as past and forwarded to Intl.

Keith recently requested BOD nominations of candidates for Zekan Award, Hall of Honor, plus Intl Awards – HSM and Fellow etc.

Reviewed candidate(s) for Zekan Award- confirmed we do have an excellent candidate- Voted and approved also determined based on candidates we would develop a new award from Akron Section- SPE- Student Chapter Leadership Award- confirmed and voted on candidate- approved- Candidates will be informed in March

Determined we as well now need to review options for Hall of Honor candidates and Intl Awards-forward nominations to Tom McQuaide

Education Committee—John Fellenstein

John Fellenstein informs all set for April-Teachers Meeting.

Scholarship renewals have been sent need new candidates for Scholarships- as we branch out monies are available.

Need Essay contest- entries- any thoughts on added PR??

Sherri Hart informs all went well- APS School STEM Science Fair late Jan-in particular APS- STEM-MS and HS displays as Judge. We have confirmed date for Western Reserve-March 16th

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 Committee has been meeting and we are currently on schedule. Primer has recently been confirmed and completed- will place on website as we would like to develop PR to promote to local industries.

Growth Committee—Kevin Malpass

Keith Pelfrey and Sherri Hart plus Sahil will inform Kevin of pending Dinner meeting set for late Feb to discuss process of enhancing growth for Akron Section.

Old Business:

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



Board Meeting Minutes – 2/5 continued

New Business:

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

Craig Potter, Cleveland Section, Attendance at SAE Auto Show- Sherri Hart and Bob Weiler to attend in Feb re SPE- Akron- Feb 26th

Vinyltec 2019 (Weiler)

iPromise opportunity – Dave Schultz

Discuss April presentation talk topic with John Fellenstein – Speaker Eve Vitale

Craig Potter, Cleveland Section, Attendance at SAE Auto Show

Please add TopCon 2018 as an agenda item and also Vinyltec 2019 (Weiler)

Science Fair Update – Sherri Hart

Plastivan Support Approved (Mike McDowell)

Ean Hudspath wishes to speak at April BOD meeting (mini extruder project)

Akron E-week banquet – Akron Section has committed to hosting in 2019. Need Akron Section representative to participate on planning committee.(Brent Sisler

Determined that Larry Stanek- would attend for SPE- BOD reviewed and voted and approved funding for support- to attend and as well support check for event.

Adjournment - Meeting was adjourned at 7:00 p.m. Next BOD Meeting March 5 at 5:30 p.m. at PEAC.



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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:

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
Technical Program

Nicole Brostowitz 330-202-4466 T
Seaman Corp. nbrostowitz@seamancorp.com
President/Chair-elect,
Website/Social Media

Dave Schultz 330-798-6535 T
Harwick Standard Dist. Corp. 330-798-9328 F
Secretary schultzd@harwickstandard.com

Gary Taylor 330-419-4380 T
Retired taylorgandc@gmail.com
Treasurer, House

Kevin Malpass 330-398-9411 T
Councilor, Growth kevin.malpass@gmail.com

Robert Weiler 330-283-9024 T
Amfine Chemical Corp. rweiler@amfine.com
Past President

Keith Pelfrey 330-212-9174 T
Retired kpelfrey@neo.rr.com
Prior Past President, Awards

Juan C. Marin Angel 330-998-9077 T
Student - U Akron Polymer Eng. jcm174@zips.uakron.edu
Director, Student Chapter SPE Liaison

Meeta Trivedi 330-289-4460 T
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Szu-Hao Cho 330-396-1717 T
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Director, Student Chapter Advisor ymin@uakron.edu

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Director, Membership sahil.gupta@parker.com

Vivian Malpass 330-342-1120 T
Tek-Mark International 330-342-1134 F
Director, TopCon 2018 vivian.malpass@tek-mark.com

Larry Stanek 330-388-6102 T
ENPAC LLC lstanek@enpac.com
Director

Bob Wegelin 330-414-1498 T
Retired robert.wegelin@att.net
Director, Education Foundation

Sherri Makar Hart 330-634-3452 T
Case Analytical Laboratories contact@caseanalytical.com
Director

Dan Jones 330-338-8029 T
Director daniel.h.jones@sbcglobal.net

Joe Mattingly 330-208-6913 T
Goodyear Tire & Rubber Co. 330-896-7379 F
Director joe@mattingly.us

Jenny Digiantonio 330-806-6214 T
Retired jenny.akronspe@aol.com
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

Website, E-Blast & Newsletter Advertising

Insertion Order 2017-18

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

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

This is the 58th 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

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
	Double	One column, 2 to 4" high	\$150
	Triple	One column, 4 to 6" high	\$200
	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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Address: _____

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c/o Gary Taylor
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