

# 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

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## Costs, Schedules, Reservations

Member	\$30
Non-Member	\$35
Retired Member	\$25
Student	\$10
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, Feb. 10 and can be made to Dan Crist at mail@cmd-tip.com or 440-227-5424

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

## Technical Meeting

**Monday, February 13, 2017**

**5:30 p.m.**

**Federal Reserve Bank of Cleveland**

**Hilton Inn**

**3180 West Market Street**

**Akron, Ohio 44333**

### Federal Reserve Bank of Cleveland

**Dr. Joel Elvery**, Economist in Research Department

Dr. Elvery's primary fields of interest are labor, public, urban economics, and applied econometrics. He will discuss the current state of the economy, future trends, and how the Federal Reserve determines monetary policy

FEDERAL RESERVE BANK of CLEVELAND

See page 2 for  
Dr. Elvery's biography

**Coming Up:**

➤ Mar. 13 – Valtris

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## Speaker Biography

Joel Elvery is an economist in the External Outreach and Regional Analytics Department at the Federal Reserve Bank of Cleveland. Dr. Elvery's primary fields of interest are labor, public, and urban economics. He also specializes in applied econometrics, which involves studying economic models and using statistical trials to calculate future trends. His current work focuses on the regional economy in the Fourth Federal Reserve District, which includes Ohio, western Pennsylvania, eastern Kentucky, and the northern panhandle of West Virginia.

Prior to joining the Bank in 2013, Dr. Elvery was an assistant professor in the Maxine Goodman Levin College of Urban Affairs at Cleveland State University. Before that, he held the position of research economist at the Bureau of Labor Statistics in Washington, DC. He also worked as a social science analyst at the US Census Bureau's Center for Economic Studies.

Dr. Elvery holds a bachelor's degree in economics from the University of Illinois at Chicago. He earned his MA and PhD in economics from the University of Maryland.



## Membership report – Sep/Oct/Nov 2016

Akron Section has 307 active members. Eight new members were added in September, none in October and 33 in November. Say "hello" to:

Month	Active	Added	Lapsed
Jan	302	1	
Feb	296	2	
Mar	313	22	
Apr	282	1	5
May	276	4	10
Jun	264	4	17
Jul	241	3	26
Aug	244	6	3
Sep	275	8	0
Oct	275	0	0
Nov	307	33	0

### September

Jami Blankenship, A.Schulman  
 Stephen Copeland, Jerico Plastic Ind.  
 Harry Covington, Ferry Ind.  
 John R Fellenstein,  
 Akron Global Polymer Academy  
 Scott Hall, FACTS, Inc.  
 Bruce Kline, Owens Corning  
 Charles Less, Cashrock Creation  
 Lukas Lowry, Purdue University

### November

University of Akron Student

Zhuoyun Cai	Piljae Joo	Meeta Trivedi	Robert Klein,
Jinwei Cao	Akshata Kulkarni	Davindra Tulsi	Stress Eng. Services
Xiaocheng Chen	Jehoon Lee	Xiaoteng Wang	Douglas Schiefer,
Zhiyuan Chen	Siyuan Li	Diana Woolf	Galata Chemicals
Szu-Hao Cho	Juan Martin	Xuhui Zia	Darrell Stafford,
Xiaoyu Cui	Sandeep Pole	Chuqing Yuan	Stafford Group 3D Tech.
Erin Farrell	Jin Qian	Yue Zhang	Don Taubenheim,
Abed Hasheminasab	Sarocho Ruanpan		Alcon Research
Shuxin Ji	Pablo Sepulveda-Medina	Varun Venoor	
Minjung Joo	Masoud Sobani	The Ohio State Univ.	

## Directions to 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 the intersection of 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 the intersection of 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)

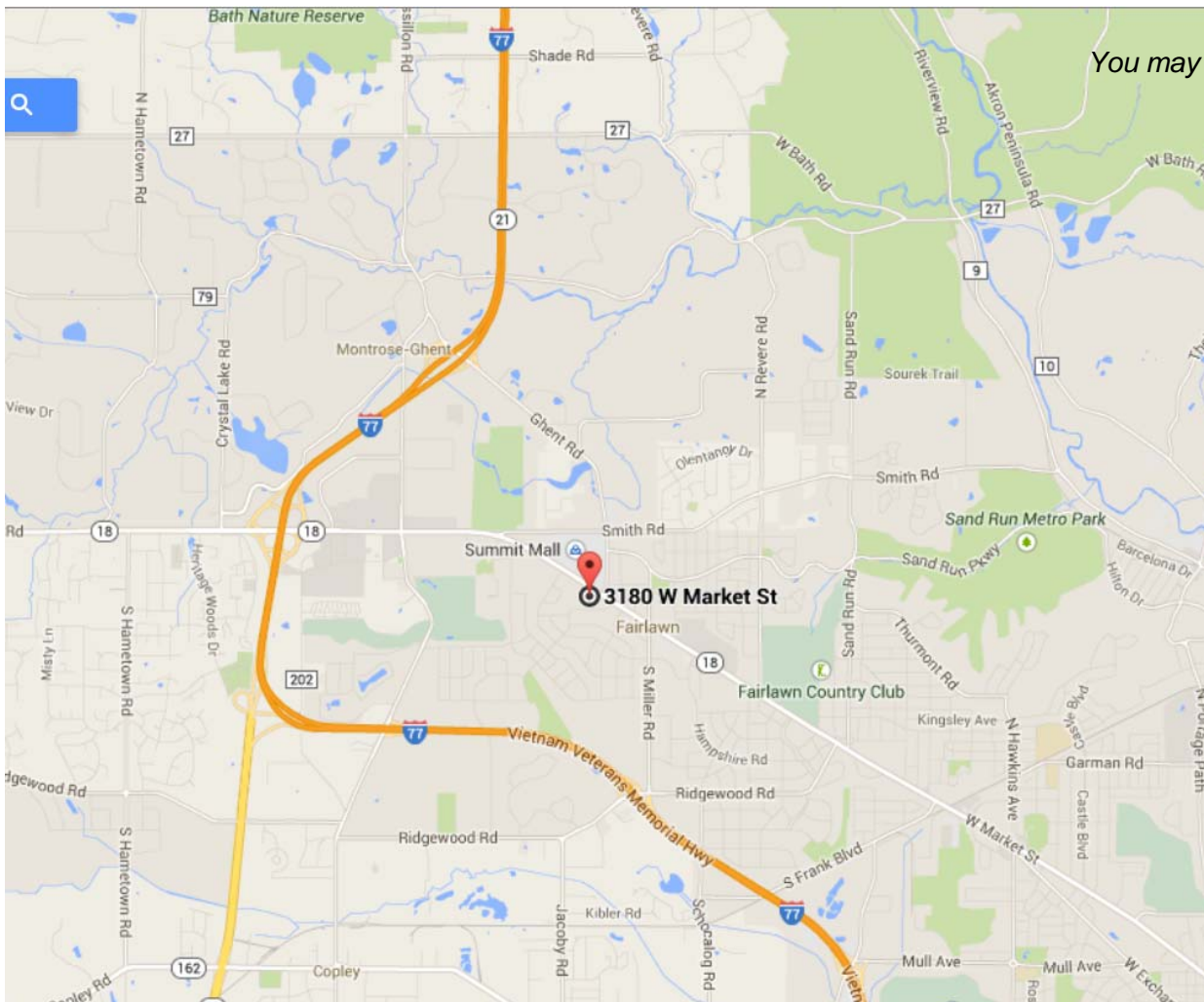
Exit at #133 – Ridgewood/Miller Rd. Go straight through the exit for approximately 2 miles. Turn left on Market Street (2 blocks). The Hotel is located on the left

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 the intersection of West Market Street (Rt. 18) and Ghent Road. Turn Right on West Market Street. Hotel is located on the left.



You may zoom in

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Heath Colvin, Midwest Regional Sales Manager

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# January Meeting Highlights



Akron SPE President Robert Weiler (above) and speaker Jeff Hoffman

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# January Meeting Highlights

Dave Schultz,  
ACCESS

The Art & Science of  
Innovation

Jeff Hoffman  
ColorJar

Twitter: @SpeakerJeff



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# Minutes of Board Meeting – January 9, 2017

**Call to Order:** 4:30 PM at Hilton Hotel

**Present:** Bob Weiler, Viv Malpass, David Schultz, John Fellenstein, Keith Pelfrey, Gary Taylor, Tom McQuaide, Joe Mattingly, Nicole Brostowitz and Bob Wegelin

**Absent:** Kevin Cavicchi, Kevin Malpass, Tony Dean, Marcos Pantoja, Sahil Gupta, Ashrita Nallapaneni, Anisa Cobaj and Tzu Yu Lai

Minutes from November 28, 2016 were reviewed and approved.

## **Old Business**

Akron Section BOD Goals proposal – attached

## **New Business**

ACCESS Request for assistance at local Science Fairs.

## **President's Report**

Bob noted GOALS are attached- need to be fine tuned –ready to Incorporate for year and add to Pinnacle Award.

Bob informed of the passing of Gene Buser-a very longtime member of the Akron Section and Industry and will ask for a moment of silence at the start of tonight's meeting.

Bob has as well attached Final draft of our goals for 2016/2017 added a couple of clarifications.

STILL to review - Vinyl Div is looking for a section to host the 2019 Vinyltec. Akron should have a good shot at claiming 2019. Potential location- Cleveland. No decision needed until May-2017, but I would like to start the discussion.

- Do we want to go for the 2019 opening?
- Do we want to offer to partner with Cleveland Section?

## **Committee Reports:**

### **Technical Program Review—Bob Weiler**

Bob Weiler reviewed upcoming meetings:

Feb- Bob informs Cleveland will host Federal Reserve speaker at Hilton- Akron.

March- Valtris Tour- Independence facility - Clev- John Scott will host from Valtris for Ron Raleigh

April- John Fellenstein and Dr. Kevin Cavicchi are handling development

May- Awards Speaker- will be Dr Sadhan Jana.

Nicole reminds that we need to be sure to provide all details on Program for website to her as well for Jenny for Newsletter.

### **House—Gary Taylor/Bob Wegelin**

Gary reports all locations are set for this year- Akron Section developed at Hilton plus Firestone for Awards Banquet Note: Cleveland Section meetings set at Tours and one at Hilton.

### **Program Committee—Tom McQuaide**

Tom informed no updates but will follow up on status on rough reviewed Program for next year as he has provided to BOD for review and input. Akron Section would like to attract a TOPCON/ Mini Tec for 2017- potentially will review with PMAD.

# Minutes of Board Meeting – January 9 (cont.)

## **Membership--Sahil Gupta**

Sahil provided report by e-mail with new Membership Dashboard- well received and anticipate much more accurate.

## **Treasurer--Gary Taylor**

Gary was present and carried out an indepth review of the Financials- in good order.

## **Councilor--Kevin Malpass**

No report.

Need cliff notes version from last Council Meeting as it appears changes are in the offing in US and Europe. Next meeting date set for Council, need to confirm SPI support for University students.

## **Student Chapter—Marcos Pantoja with Tzu Yu Lai and Anisa Cobaj**

Marcos continues to mentor the new PESO representatives and review items that Student Chapter usually does including new ideas and increased involvement. Membership drive completed- Nov 16th with 25 total new or renewed students- confirmed by Intl dashboard. Plans are set to provide list of PESO led seminars. SPE Chapter and PESO Students continue to attend Akron Section meetings and help at future TOPCONs.

## **Public Interest/Website/Advertising—Tony Dean**

No report but appears all is set for the remainder of the year with PR including newspapers, along with in PE Magazine, request new advertisers and thanked current four advertisers for 2016-17 . Tony informs he has worked on Communications Award set to forward to Intl by mid Jan due Jan 27. Need to help Tony make sure we provide pictures for meetings for newsletter and website. Need to review potential Education oriented article.

## **Website Improvement/utilization—Tony Dean/Nicole Brostowitz**

Nicole notes as we move forward need pictures at meeting please send to Nicole and pictures now on Facebook- they feature our members so tag a way!!

BOD suggests that we make sure Sponsors from past TOPCONs are aware that they may provide job opportunities on our newly modified website.

We voted to allow Nicole to discuss options for increasing the area of our section to include some of the non-aligned counties in central Ohio. Nicole will be reviewing this week with Intl section expansion capability in Ohio.

## **Newsletter—Tony Dean**

## **Awards—Keith Pelfrey**

Keith reports has completed all but one section Membership of Pinnacle Award for Calendar year 2016 will gather recent data. He plans to complete and send to Intl by Jan 27. He will as well handle development for Awards for this year including International recognition , local and Section . Need to start reviewing candidates for this year Hall of Honor and Zekan Awards as we expand our reach and BOD/Committee members.



# Minutes of Board Meeting – January 9 (cont.)

## Education Committee—John Fellenstein

John reports that all is now set with new Scholarship format. We will as well be looking into a more diverse list as well reviewing thoughts with ACCESS contact and potentially expanding our geographic reach in Ohio. John informs he attended-- NSTA Teachers Meeting in Columbus in early Dec and helped Missi Zender Sakach man booth and handed out Scholarship brochures and carried out hands on STEM experiments PlastiVan visits are in the process of being set up had a changes at Intl level re-grouping currently still targeting this year to help Cleveland Section- still trying to determine dates so that we- Akron Section may help them fill in if needed as they are set for a good portion of a week in Cleveland area including Lakeview Academy in Lorain- Akron to keep in touch with Dennis Meade including John Fellenstein and Missi Zender Sakach for other dates they are trying to set-up as well for school year 2017.

John reports Dori Hess – recent speaker at April Teacher Night potential Polymer Ambassador candidate. Spring 2017 a number of Science Fairs for students including; Akron Public Schools- North HS Jan 28, Science Olympiad- March 11, Science- District 5- March 18 plus interest potential in Rubber Band Contest- engineering aspects

Akron section voted on and approved again this year for Akron Public School -- 2-\$50.00 Awards in addition Tom McQuaide will aid in judging. In addition we reviewed the possibility to provide monies for Western Reserve Science Fair as well this year- voted on and approved 2- \$50.00 Awards plus Tom will consider judging plans to discuss with Brent Sisler.

## Education Foundation—Bob Wegelin

In good shape currently.

## TPE TOPCON—Viv Malpass

No report - complete.

## Old Business:

Potential speakers for large events. Still to be considered for future:

Thogus President, CEO Baerlocher- Edward Hall, CEO- Newlight Technologies-Robert Heerema- Calif

## New Business:

Goals for 2016-17

BOD did review and finalize GOALS set to be included in Pinnacle Award.

## Adjournment

Meeting was adjourned. Next BOD Meeting February 6 at PEAC

	<ul style="list-style-type: none"><li>• Volumetric, Gravimetric, Belt &amp; Screw Feeders</li></ul>		<ul style="list-style-type: none"><li>• Explosion Mitigation &amp; Prevention Equipment for Combustible Dust</li></ul>
	<ul style="list-style-type: none"><li>• Bulk Bag Systems</li><li>• Mechanical Conveyors</li><li>• Scale Systems</li></ul>		<ul style="list-style-type: none"><li>• Paddle Mixers</li><li>• Vacuum Dryers</li></ul>
	<ul style="list-style-type: none"><li>• Water &amp; Oil Temperature Control Equipment</li><li>• Portable Chillers</li></ul>		<ul style="list-style-type: none"><li>• Delumpers</li><li>• Shredders</li><li>• Size Reduction</li></ul>
	<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>
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## In Memoriam: Gene Buser

Leonard E. "Gene" Buser, 80, died December 31, 2016 at Hanover House in Massillon after a brief illness.

Mr. Buser was born in Pueblo, Colo. to the late Francis and Loretta Schmidt Buser on Aug. 8, 1936 and resided in N. Canton for four years. He was employed in industrial sales for 47 years, retiring in 2001.

Gene was a member of the Akron section of the Society of Plastics Engineers (SPE), for 45 years and was Section President in 1985-1986. Gene was one of the founders of the Education Foundation of the Akron SPE section which offers scholarships to Akron area students that are pursuing a career in plastics. His hard work and dedication helped to raise over \$250 K for the foundation and the section.

He was a former member of St. Hilary Catholic Church and the Knights of Columbus.

Gene was a graduate of St. Louis University, where he was a member of the basketball team.

Mr. Buser enjoyed golfing, chorale and barber shop singing.

Preceded in death by sons, Lenny and Chris and sisters, Jane and Mary, he is survived by sons, Mark (Judy) of Marietta, Ga., and Matt of Green, Ohio; grandchildren, Chris, Matt, Lauren, Lexie, Christina, Joanna and Joseph; great-grandchild, Christian; sisters, Dorothy (Richard) Gust and Aggie (Paul) Melton; brother, Bernie (Toni) Buser; and numerous nieces and nephews.



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## 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](mailto:akronspeweb@gmail.com)**

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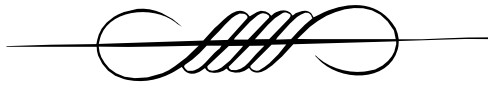
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## Akron Section SPE Past Presidents

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

**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 (see page 14)**

**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  
interesting in posting.**

# Programs for 2016 / 2017

Sept. 12 **The Technology House**  
Carbon CLIP Process Demo and Tour  
-- Streetsboro – Cleveland\*

Sept. 20-22 **12<sup>th</sup> TPE TopCon**  
**Stretching Performance with TPEs**  
-- Hilton Fairlawn – Akron\*

Oct. 10 **Vadxx**  
Scrap Plastic to Oil  
-- Hilton Fairlawn – Akron\*

Nov. 14 **Reuther Mold**  
Mold Design and Manufacture –  
Plant Tour  
-- Cuyahoga Falls – Cleveland \*

Dec. 5 **Holiday Celebration**  
Madrigal Singers and Speaker  
-- Taverner of Richfield – Akron\*

Jan. 9 **ColorJar – Jeff Hoffman**  
-- Hilton Fairlawn – Joint ACCESS\*

Feb. 13 **Cleveland Federal Reserve Bank**  
NE Ohio Economy  
-- Hilton Fairlawn – Akron/Cle\*

Mar. 13 **Valtris: Additives Development and**  
Mfg, Plant Tour  
-- Independence – Cleveland \*

Apr. 10 **Industry / Teacher Collaboration**  
Plastics in Education  
-- Hilton Fairlawn – Akron\*

May 15 **Akron Section Awards Night**  
-- Firestone Country Club – Akron

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

## Akron Section Board of Directors

Robert Weiler 330-283-9024 T  
*Amfine Chemical Corp.* rweiler@amfine.com  
President/Chair, Technical Program

Tom McQuaide 330-630-7113 T  
*A. Schulman* 330-630-3349 F  
President/Chair-elect, Tom.McQuaide@aschulman.com  
Technical Program, Awards,  
Education

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 330-490-4743 T  
*Diebold, Inc.* 330-490-4788 F  
Councilor kevin.malpass@diebold.com

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

Vivian Malpass 330-342-1120 T  
*Tek-Mark International* 330-342-1134 F  
Prior Past President, vivian.malpass@tek-mark.com  
TOPCON 2016

Younjin Min 330-972-5167 T  
*Student - U Akron Polymer Eng.* 330-258-2339 F  
Director, Student Chapter Advisor ymin@uakron.edu

Director, Student Chapter SPE Liaison  
Anisa Cobaj 216-672-8392 T  
*Student - U Akron Polymer Eng.* ac197@zips.uakron.edu  
Tzu-Yu Lai 626-693-0532 T  
*Student - U Akron Polymer Eng.* tl70@zips.uakron.edu

John Fellenstein 330-972-6334 T  
*U Akron Polymer Engineering* 330-972-2624 F  
Director jfellenstein@uakron.edu

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

Tony Dean 330-929-9916 T  
*Retired – Director, Public Interest,* francis@neo.rr.com  
Advertising

Joe Mattingly 330-962-5299 T  
*Goodyear Tire & Rubber Co.* 330-896-7379 F  
Director joe@mattingly.us

Sahil Gupta 330-296-1421 T  
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Director, Membership sahil.gupta@parker.com

Nicole Brostowitz 330-202-4466 T  
*Seaman Corp.* nbrostowitz@seamancorp.com  
Director, Internet Communications

Kevin Cavicchi 330-972-8368 T  
*U Akron Polymer Engineering* 330-258-2339 F  
Director kac58@uakron.edu



# 2017 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 technology. Started in 1988, it has awarded over \$300,000 to area students. Preference is given to students enrolling in two- and four-year programs with a focus on plastics and polymers.

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.

## 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, undergraduate, 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 17, 2017**

## 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

## 2016 Award Recipients

### Rubbermaid Scholarship

Joe Rizzo Jr.

*CWRU*

### Ken Sharp Memorial Scholarship

Connor O'Brien

*Virginia Polytechnic Institute and State University*

### Goodyear Scholarship

Joshua Dambik

*The University of Akron*

### Jim Steiner Memorial Scholarship

Johnathon Mileski

*The Ohio State University*

### SPE – Special Merit Scholarships

Dan Truax

*CWRU*

Tanner Brahler

*Stark State*



# 2017 Scholarship Application & Renewal Akron Section - Education Foundation

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

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

6. Please briefly describe how you intend to finance your education: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
7. Current and Past School Activities: (attach separate sheet or resume if necessary – 1 page only please)\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. 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 polymers (*or another related field*) as well as how your intended field of study will help you achieve your career goals.
9. 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 a STEM related career. Attach these references to this application.

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

**All Applicants return application by March 17<sup>th</sup>, 2017 to the following address:**

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





## 2017 "Wonders of Plastics" Essay Contest

The Akron section of the Society of Plastics Engineers (SPE) is pleased to announce the 2017 "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](mailto:jfellenstein@uakron.edu)

**Entry must be postmarked by January 31<sup>st</sup>, 2017!**

## 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:	January 31 <sup>st</sup> 2017 (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: \_\_\_\_\_  
type or print

### *About the author(s)*

Name(s) \_\_\_\_\_ age \_\_\_\_\_  
\_\_\_\_\_ age \_\_\_\_\_

Grade in School \_\_\_\_\_

Address(es) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone Number(s) \_\_\_\_\_

E-mail(s) \_\_\_\_\_

### *About the school*

School \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Phone/Fax \_\_\_\_\_

Teacher \_\_\_\_\_

Class \_\_\_\_\_

### **Submit your Essay to**

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

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

**Email:** [jfellenstein@uakron.edu](mailto:jfellenstein@uakron.edu)

**Entry must be postmarked by January 31<sup>st</sup>, 2017!**



# AKRON SECTION SOCIETY OF PLASTICS ENGINEERS

## NOMINATION FORM FOR ELECTION OF CANDIDATES TO THE PLASTIC HALL OF HONOR

Election to the **Plastics Hall of Honor** is conferred upon Akron area men and women who meet the following criteria

1. Displayed exceptional effort and accomplishment in the field of Plastics, and Polymers.
2. Displayed extraordinary dedication over many years that has contributed to the growth of the plastics industry.
3. Has **not** received national or international recognition.

The **Plastics Hall of Honor** seeks to recognize individuals for their quiet service, loyalty, and support over the years. They are the unsung heroes, the everyday foot soldiers of our industry - area employers, employees, and educators whose accomplishments are lacking only in recognition.

If you personally know such a deserving candidate, please forward your nomination to the selection committee, using this or any mailer.

Name of Nominee (include title) \_\_\_\_\_

Address \_\_\_\_\_ Phone No. \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_  
Zip code \_\_\_\_\_

Present affiliations (Plastics, including dates and positions held) \_\_\_\_\_

Former affiliations (Plastics, including dates and positions held) \_\_\_\_\_

Specific contributions (Patents, publications, etc. to plastics industry) \_\_\_\_\_

Related Plastics activities (Clubs, Organizations) \_\_\_\_\_

Brief statement supporting the candidate (Attach additional pages, if necessary) \_\_\_\_\_

### **Membership in SPE not required to Nominate or to be Nominated**

Name of Nominator \_\_\_\_\_ Signature \_\_\_\_\_  
Address \_\_\_\_\_ Phone \_\_\_\_\_

**PLEASE MAIL THIS FORM TO ARRIVE ON OR BEFORE APRIL 21, 2017 to:**  
**Bob Wegelin                      13206 Kaufman Ave. NW                      Hartville, OH 44632**  
**PHONE: 330-414-1498**

E-mail questions to [robert.wegelin@att.net](mailto:robert.wegelin@att.net)

*Nominate a co-worker, employer, teacher, media person, leader, or any unsung hero who deserves this honor!*

Honorees will be installed in the Plastics Hall of Honor at the Annual SPE awards night 2017 at Firestone CC May 15, 2017

Their names and photographs will be displayed in the Plastics Hall of Honor within the University of Akron Polymer Engineering Building

# Akron Section Society of Plastics Engineers Educational Foundation



1-17

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 twenty-eight years that the foundation has been in existence, it has provided scholarships to over 258 young men and women totaling in excess of \$327,000 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 15, 2017.

We are looking 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*





# Who Can Help You

## Society of Plastics Engineers

6 Berkshire Blvd., Ste 306, Bethel, CT 06801

Phone: +1 203.775.0471

[www.4spe.org](http://www.4spe.org)

Academic Outreach	Marjorie Weiner	+1 978.618.5496	<a href="mailto:mweiner@4spe.org">mweiner@4spe.org</a>
Annual Awards	Kathy Schacht	+1 203.740.5430	<a href="mailto:kschacht@4spe.org">kschacht@4spe.org</a>
ANTEC Booth Sales	Chuck Herrholtz	+1 770.576.4974	<a href="mailto:cherrholtz@naylor.com">cherrholtz@naylor.com</a>
ANTEC Conference Management	Barbara Spain	+1 203.740.5418	<a href="mailto:bspain@4spe.org">bspain@4spe.org</a>
ANTEC Paper Submission	Barbara Spain	+1 203.740.5418	<a href="mailto:bspain@4spe.org">bspain@4spe.org</a>
ANTEC Conference Sponsorship	Barbara Spain	+1 203.740.5418	<a href="mailto:bspain@4spe.org">bspain@4spe.org</a>
The Chain	Liz Martland	+1 203.740.5425	<a href="mailto:lmartland@4spe.org">lmartland@4spe.org</a>
Change of address	Customer Relations	+1 203.740.5403	<a href="mailto:customerrelations@4spe.org">customerrelations@4spe.org</a>
Communications	Sarah Sullinger	+1 203.740.5425	<a href="mailto:ssullinger@4spe.org">ssullinger@4spe.org</a>
Communications Excellence Award	Kathy Schacht	+1 203.740.5430	<a href="mailto:kschacht@4spe.org">kschacht@4spe.org</a>
Conference Sponsorship (TopCons)	Sue Wojnicki	+1 203.740.5420	<a href="mailto:swojnicki@4spe.org">swojnicki@4spe.org</a>
Dues Renewals and New Members	Customer Relations	+1 203.740.5403	<a href="mailto:membership@4spe.org">membership@4spe.org</a>
Employment Advertising	+1 888.491.8833 At prompt please press 4. The extension is 1063		<a href="mailto:customerservice+64639@support.boxwoodtech.com">customerservice+64639@support.boxwoodtech.com</a>
Fellow & Honored Service Nominations	Kathy Schacht	+1 203.740.5430	<a href="mailto:kschacht@4spe.org">kschacht@4spe.org</a>
Governance Liaison	Kathy Schacht	+1 203.740.5430	<a href="mailto:kschacht@4spe.org">kschacht@4spe.org</a>
Managing Director	Russell Broome	+1 203.740.5471	<a href="mailto:rbroome@4spe.org">rbroome@4spe.org</a>
Membership Processing/Questions	Customer Relations	+1 203.740.5403	<a href="mailto:membership@4spe.org">membership@4spe.org</a>
Membership Programs/Retention	Bonnie Kaczowski	+1 203.740.5428	<a href="mailto:bakaczowski@4spe.org">bakaczowski@4spe.org</a>
Mobile App – SPE Events	Scott Marko	+1 203.740.5442	<a href="mailto:smarko@4spe.org">smarko@4spe.org</a>
Pinnacle Award	Kathy Schacht	+1 203.740.5430	<a href="mailto:kschacht@4spe.org">kschacht@4spe.org</a>
<i>Plastics Engineering</i> magazine advertising	Roland Espinosa	+1 201.748.6819	<a href="mailto:respinosa@wiley.com">respinosa@wiley.com</a>

Sections, Divisions & Special Interest Group Administration	Kathy Schacht	+1 203.740.5430	<a href="mailto:kschacht@4spe.org">kschacht@4spe.org</a>
SPE Foundation / Scholarships & Grants	Gene Havel	+1 203.740.5457	<a href="mailto:ghavel@4spe.org">ghavel@4spe.org</a>
SPE Industry Resource Guide		+1 800.816.6710	<a href="mailto:spe@multiview.com">spe@multiview.com</a>
Student Chapters	Scott Marko	+1 203.740.5442	<a href="mailto:smarko@4spe.org">smarko@4spe.org</a>
Topical Conference Planning	Sue Wojnicki	+1 203.740.5420	<a href="mailto:swojnicki@4spe.org">swojnicki@4spe.org</a>
Topical Conference Registration	Sue Wojnicki	+1 203.740.5420	<a href="mailto:swojnicki@4spe.org">swojnicki@4spe.org</a>
Webinars (non.registration)	Barbara Spain	+1 203.740.5418	<a href="mailto:bspain@4spe.org">bspain@4spe.org</a>
Event Registrations	Customer Relations	+1 203.740.5403	<a href="mailto:customerrelations@4spe.org">customerrelations@4spe.org</a>
Website Administration	Pedro Matos	+1 203.740.5438	<a href="mailto:pmatatos@4spe.org">pmatatos@4spe.org</a>

# SPE MEMBER BENEFITS GUIDE



FREE TO MEMBERS

	BENEFIT	DESCRIPTION	WEBSITE LINK
NETWORKING	Business Networking Resources	Connect to industry experts	<a href="http://www.4spe.org/cc">www.4spe.org/cc</a>
	Local Section Affiliation	Network with members locally in over 75 countries	<a href="http://www.4spe.org/communities/sections">www.4spe.org/communities/sections</a>
	Online Membership Directory	Unlimited access provides the link to fellow members	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>
	Technical Affiliation	24 Divisions represent major industry specialties	<a href="http://www.4spe.org/communities/divisions">www.4spe.org/communities/divisions</a>
MEDIA	Newsletters	News & events about specific local & technical affiliations	<a href="http://www.4spe.org/communities/newsletters">www.4spe.org/communities/newsletters</a>
	<i>Plastics Engineering (PE)</i>	The official monthly publication of SPE	<a href="http://www.4spe.org/pub">www.4spe.org/pub</a>
	SPE Online	Your 24/7 source for Society information	<a href="http://www.4spe.org">www.4spe.org</a>
	Tech Focus	Monthly electronic newsletter offering society & industry news	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>
TECHNICAL	Online Technical Library	Searchable database of technical articles & conference papers	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>
	Message Forums	Online question & answer forum	<a href="http://www.askpip.com">www.askpip.com</a>
	Special Interest Groups	Emerging areas not currently covered by technical Divisions	<a href="http://www.4spe.org/communities/divisions/#sig">www.4spe.org/communities/divisions/#sig</a>
	SPE Journals	Read abstracts from our three technical journals	<a href="http://www.4spe.org/pub/journal">www.4spe.org/pub/journal</a>
CAREER	American Management Association	Through a partner alliance, access AMA's educational resources	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>
	Awards	Outstanding contributions recognized	<a href="http://www.4spe.org/awards">www.4spe.org/awards</a>
	Leadership Development	The opportunity to improve professionally & personally	<a href="http://www.4spe.org/communities/leadership">www.4spe.org/communities/leadership</a>
	Online Career Development	Career enrichment, job openings & resume database	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>
	Professional Recognition	Distinguished grades of membership recognize accomplishments	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>
	Scholarships & Grants	Awarded by The SPE Foundation	<a href="http://www.4spe.org/foundation">www.4spe.org/foundation</a>
	Student Benefits	Over 100 Student Chapters in nine countries	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>
	Unemployment Services	Benefits for the unemployed member	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>

SAVINGS TO MEMBERS

	BENEFIT	DESCRIPTION	WEBSITE LINK
TRAINING	ANTEC	Largest annual technical conference in the industry	<a href="http://www.antec.ws">www.antec.ws</a>
	Career Coaching	For-a-fee services for career enhancement	<a href="http://www.4careersolutions.org">www.4careersolutions.org</a>
	e-Learning Center	Online self-paced courses, live & archived presentations	<a href="http://www.4spe.org/elearning">www.4spe.org/elearning</a>
	In-plant Training	Seminar instruction at member's company	<a href="http://www.4spe.org/training/seminars">www.4spe.org/training/seminars</a>
	Seminars	Expert instruction on current plastics topics	<a href="http://www.4spe.org/training/seminars">www.4spe.org/training/seminars</a>
	Technical Journals	Subscribe to peer-reviewed articles. Available online and in print	<a href="http://www.4spe.org/pub">www.4spe.org/pub</a>
	Topical Conferences	Targeted at specific technical & management disciplines	<a href="http://www.4spe.org/conf">www.4spe.org/conf</a>
	Training Products	Developed by SPE & other leading providers. Some Spanish titles	<a href="http://www.4spe.org/training/products">www.4spe.org/training/products</a>
	OTHER	Career Transition Services	Outplacement program offered to member's company
Group Health Insurance		Health, disability & life insurance at attractive group rates	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>
Online Job Posting		A source for companies to find qualified staff	<a href="http://www.4careersolutions.org">www.4careersolutions.org</a>
SPE BookStore		Discounts on 250+ reference books & training products	<a href="http://www.4spe.org/training/products">www.4spe.org/training/products</a>
SPE/MBNA Credit Card		SPE Platinum Plus Mastercard® (US & Canada only)	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>

WEBSITE LINKS SUBJECT TO CHANGE - CHECK [WWW.4SPE.ORG](http://WWW.4SPE.ORG) FOR FULL BENEFITS



## **WHY JOIN ?**

*It has never been more important to be a member of your professional society than now, in the current climate of change and volatility in the plastics industry. Now, more than ever, the information you access and the personal networks you create can and will directly impact your future and your career.*

### **Active membership in SPE:**

- **keeps you current**
- **keeps you informed**
- **keeps you connected**

**The question really isn't "why join?" but**

**WHY NOT?**



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

---

**Website, E-Blast & Newsletter Advertising**

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**Insertion Order 2016-17**

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 58<sup>th</sup> year of the Akron SPE Section and rates are for entire season, September 2016 – Summer 2017. **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!

<b>(please X)</b>	<b>Ad Size</b>	<b>Dimensions</b>	<b>Price for year</b>
	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**

**Contact Person**

**Billing Information:**

Company: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Phone #: \_\_\_\_\_  
Fax #: \_\_\_\_\_  
Email address: \_\_\_\_\_

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

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



# Society of Plastics Engineers

6 Berkshire Blvd., Suite 306  
Bethel, CT 06801-1065 USA

# Membership Application

PH: 203-775-0471 • Fax: 203-775-8490  
www.4spe.org • membership@4spe.org

## Contact Information *Please print clearly*

First Name (Given Name) \_\_\_\_\_ Middle Name \_\_\_\_\_

Last Name (Family Name) \_\_\_\_\_

Company Name/University Name (if applicable) \_\_\_\_\_

Mailing Address is:  Home  Business      Gender:  Male  Female (for demographic use only)

Address Line 1 \_\_\_\_\_

Address Line 2 \_\_\_\_\_

Address Line 3 \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_

Country \_\_\_\_\_ Zip/Postal Code \_\_\_\_\_ Phone \_\_\_\_\_

Preferred Email (This will be your member login and is required for usage of online member services) \_\_\_\_\_

Alternate Email \_\_\_\_\_

Date of Birth (*Required for Young Professional membership*) \_\_\_\_\_

Graduation Date (*Required for Student membership*) \_\_\_\_\_ Job Title \_\_\_\_\_

## Membership Types *Check one*

- Student: \$31** (Graduation date is required above)
- Young Professional: \$99** (Professionals under the age of 35. Date of birth is required above)
- Professional: ~~\$144.00~~ \$129** (Includes \$15 new member initiation fee)

Choose 2 *free* Technical Division and/or Geographic Section Member Groups. →

1. \_\_\_\_\_ 2. \_\_\_\_\_

Additional groups may be added for \$10 each. Add Special Interest Groups at no charge.

1. \_\_\_\_\_ 2. \_\_\_\_\_

3. \_\_\_\_\_ 4. \_\_\_\_\_

Dues include a 1-year subscription to *Plastics Engineering* magazine-\$38 value (non-deductible).  
SPE membership is valid for 12 months from the date your membership is processed.

## Payment Information *Payment must accompany application. No purchase orders accepted.*

Check Enclosed Amount \_\_\_\_\_

Charge:  Visa  Mastercard  American Express      Expiration Date: \_\_\_\_\_

Account Number: \_\_\_\_\_

Amount Authorized: \_\_\_\_\_ CSC#: \_\_\_\_\_ Last 3 digits from the back of MC/Visa.  
4 digits from the front of AMEX.

Cardholder's Name (as it appears on card): \_\_\_\_\_

Signature of Cardholder: \_\_\_\_\_

## Payment by Wire Transfer Instructions

You **must** include account number +ABA number + bank fees.  
Please include the Member ID# and Name so we may apply payment to the correct person.

**USD:** WELLS FARGO: 108 Federal Road, Danbury, CT 06811 USA  
ACCT #2681786097 ABA #121000248 SWIFT CODE #WFBIUS63

The SPE Online Member Directory is included with membership. Your information is automatically included unless you indicate otherwise.

- Exclude my email address from the Online Membership Directory
- Exclude all my information from the Online Membership Directory
- Exclude my address from 3rd party mailings

By signing below, I agree to be governed by the Bylaws of the Society and to promote the objectives of the Society. I certify that statements made in the application are correct and I authorize SPE and its affiliates to use my phone, fax, address and email to contact me.

Signature \_\_\_\_\_ Date \_\_\_\_\_

## Technical Division Member Groups - Connect with a global community of professionals in your area of technical interest.

- Additives & Color Europe - D45
- Applied Rheology - D47
- Automotive - D31
- Blow Molding - D30
- Color & Appearance - D21
- Composites - D39
- Decorating & Assembly - D34
- Electrical & Electronic - D24
- Engineering Properties Structure - D26
- European Medical Polymers - D46
- European Thermoforming - D43
- Extrusion - D22
- Flexible Packaging - D44
- Injection Molding - D23
- Medical Plastics - D36
- Mold Making & Mold Design - D35
- Plastics Environmental - D40
- Polymer Analysis - D33
- Polymer Modifiers & Additives - D38
- Product Design & Development - D41
- Rotational Molding - D42
- Thermoforming - D25
- Thermoplastic Materials & Foams - D29
- Thermoset - D28
- Vinyl Plastics - D27

## Geographic Section Member Groups - Network with local industry colleagues.

- Alabama/Georgia-Southern
- Asean\*
- Australia-New Zealand
- Benelux
- Brazil
- California-Golden Gate
- California-Southern California
- Caribbean
- Carolinas
- Central Europe
- China
- Colorado-Rocky Mountain
- Connecticut
- Eastern New England
- France
- Hong Kong
- Illinois-Chicago
- India
- Indiana-Central Indiana
- Israel
- Italy
- Japan
- Kansas City
- Korea
- Louisiana-Gulf South Central
- Mexico-Centro
- Michigan-Detroit
- Michigan-Western Michigan
- Middle East
- Nebraska
- New Jersey-Palisades
- New York
- North Carolina-Piedmont Coastal
- Ohio-Akron
- Ohio-Cleveland
- Ohio-Miami Valley
- Ohio-Toledo
- Oklahoma
- Ontario
- Oregon-Columbia River
- Pennsylvania-Lehigh Valley
- Pennsylvania-Northwestern Pennsylvania
- Pennsylvania-Philadelphia
- Pennsylvania-Pittsburgh
- Pennsylvania-Susquehanna
- Portugal
- Quebec
- Spain
- Taiwan
- Tennessee-Smoky Mountain
- Tennessee Valley
- Texas-Central Texas
- Texas-Lower Rio Grande Valley
- Texas-North Texas
- Texas-South Texas
- Tri-State
- Turkey
- United Kingdom & Ireland
- Upper Midwest
- Utah-Great Salt Lake
- Virginia
- Washington-Pacific Northwest
- West Virginia-Southeastern Ohio
- Western New England
- Wisconsin-Milwaukee

\*Asean: Indonesia, Malaysia, Phillipines, Singapore, Thailand, Cambodia, Laos & Vietnam

## Special Interest Groups - Explore emerging science, technologies and practices shaping the plastics industry. Choose as many as you would like, at no charge.

- Advanced Manufacturing / 3D - 033
- Bioplastics - 028
- Failure Analysis & Prevention - 002
- Joining of Plastics & Composites - 012
- Marketing & Management - 029
- Non-Halogen Flame Retardant Tech. - 030
- Plastic Pipe & Fittings - 021
- Plastics Educators - 018
- Plastic in Building and Construction - 027
- Quality/Continuous Improvement - 005
- Radiation Processing of Polymers - 019
- Reaction Injection Molding - 032
- Thermoplastic Elastomers - 006

Recommended by (optional) \_\_\_\_\_ ID# \_\_\_\_\_