

# Polymer Valley News

The Newsletter of the Akron Section of the Society of Plastics Engineers  
Our 57<sup>th</sup> Year of Education and Service to the Plastics Industry

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## Holiday Gathering

Monday, December 7, 2015

5:30 p.m.



## The Taverne of Richfield

3960 Broadview Road  
Richfield, Ohio 44286



A quick presentation on the history of the Taverne will be provided.

The Taverne of Richfield is in an 1886 building offering steaks & seafood plus a martini bar, a patio and live music.

## Costs, Schedules, Reservations

Member and/or guest	\$30
Retired	\$25
Student	\$10
New Member - first meeting	Free
Social / Networking / Bar	5:30 p.m.
Dinner	6:00 p.m.
Madrigal Singers	6:30 p.m.
Speaker	7:00 p.m.

Reservations must be in by noon on Friday, Dec. 4 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.



Firestone  
High School  
Madrigal Singers

Coming Up:

➤ January 11 – NASA – see page 4 for details

Dec. 2015, Page 1



## The Firestone High School Madrigal Singers

The Madrigal Singers are one of six choral ensembles taught at the Akron School of the Arts at Firestone High School. This ensemble consists of advanced singers who excel in sight-reading, vocal technique and musicianship. They are chosen based on academic and character references and perform all a' cappella literature without an adult director.

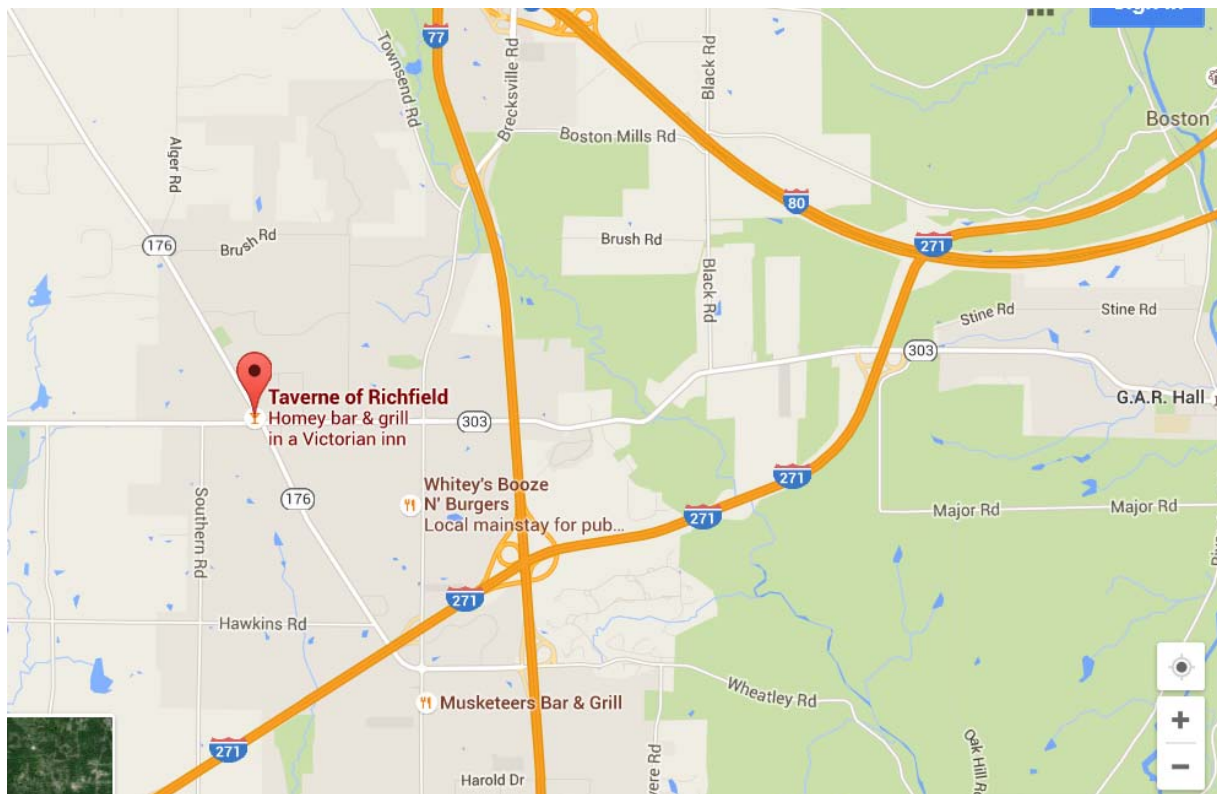
The Madrigal Singers have represented Akron at local, state and national level professional conferences, as well as private functions including weddings and funerals.

The director, Mr. Chad Pitman, is a graduate of Baldwin Wallace University. He has received numerous awards for outstanding work in music education/performance and been invited to serve as guest conductor for many school and community choral ensembles in northeast Ohio.

The Madrigal Singers have been performing at Akron SPE holiday gatherings for many years. Join us on December 7 at the Taverne in Richfield to brighten your holiday spirit.



### Map for The Taverne at Richfield



# Polymer Valley News

## Technical Meeting

**January 11, 2016**

**5:30 p.m.**

**Hilton Inn**

**3180 West Market Street**

**Akron, Ohio 44333**

## Joint Meeting with ACCESS



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and Scientific Societies**

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## To Mars and Back - Extreme Engineering

Janet Kavandi, Deputy Director, Glenn Research Center



### *Costs, Schedules, Reservations*

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	after dinner - 6:45 p.m.

Reservations must be in by noon on Friday, Jan. 8 and can be made to Gary Taylor at [akronspe1@gmail.com](mailto:akronspe1@gmail.com) or 330-419-4380

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

A patented chemist turned astronaut, Janet Kavandi (pronounced kuh-VON-dee) was named deputy director of NASA Glenn Research Center in early March.

Kavandi was born Janet Lynn Sellers in Springfield, Mo. She earned a bachelor's degree in chemistry at Missouri Southern State College-Joplin, a master's in that subject from the University of Missouri-Rolla and a doctorate in analytical chemistry from the University of Washington-Seattle. In 1995, Kavandi became an astronaut. She flew on the Space Shuttle three times and spent a total of more than 33 days in space. After 10 years as an astronaut, she began moving up in NASA's administration. She served as director of flight crew operations at the Johnson Space Center in Houston.

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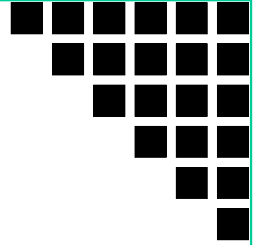
## Technical Assistance

**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)**



## Councilor's Corner



Report - SPE International Council – October 9 – 11, 2015

Dan Jones (for councilor Kevin Malpass)

We passed Friday evening in activities that encouraged us to get to know each other. Although the time was inadequate to allow us to know all of the other counselors (or their representatives), the relationships that we established helped make the discussions easier for the rest of the weekend.

The continuing reductions in membership and finances have imposed changes in the society's model for finances and leadership for the future. A committee, the Governance Task Force is proposing that the current Executive Committee take more responsibility while still being guided by the whole council. A comprehensive overview can be found in the posts from President-elect Scott Owens on The Chain.

I was encouraged by what I heard in the break-out/brainstorming sessions on ANTEC and Special Interest Groups (SIGs) because I felt that the leadership was listening to us and open to new ideas, and I also felt that they are ahead of the curve and already putting into place new approaches that will address dropping attendance at ANTEC and bureaucratic sluggishness to set up new SIGs. There are many changes and rough times in our future.

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## 2015 Pittsburgh SPE Fall & Winter Events

<https://drive.google.com/file/d/0B--8NWjblc-kX0JvV1duUnY5bTA/view?pli=1>

### January:

Time: TBD

Location: TBD

### Silicone Design & Molding Symposium

This presentation will provide an overview of silicone molding, what it will take to get started with silicone molding, and comparison to injection molding for companies who are interested in entering the silicones market.

### March:

Time: TBD

Location: TBD

### Finances for Engineers:

**Michael Masilunas & Rylan Marx; Lincoln Investment Planning**

As a follow-up to last year's finances for engineers meeting we will discuss a variety of topics ranging from taxes, investments, health plans, college savings, & more.

Price:

\$20.00 for SPE members, \$25.00 for non-SPE members

RSVP:

[Pgh.spe+rsvp@gmail.com](mailto:Pgh.spe+rsvp@gmail.com)

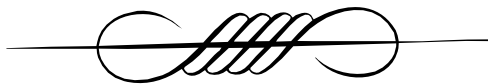
Send Ideas to:

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More Info at:

## Akron Section SPE Past Presidents

*57 years of  
excellence*



1959-1960	Donald F. Siddall	1987-1988	Judith A. Fallon
1960-1961	Milan Krajcik	1988-1989	William E. Tosko
1961-1962	Foster J. Young	1989-1990	Robert C. Wegelin
1962-1963	Dickson L. Stoker, III	1990-1991	Geraldine R. Stromquist
1963-1964	Edward L. Hillier	1991-1992	Spencer Kreiser
1964-1965	John R. Russell	1992-1993	Robert C. Wegelin
1965-1966	John R. Russell	1993-1994	Anthony F. Dean, Jr.
1966-1967	Clyde H. Jones	1994-1995	Wayne Decamp
1967-1968	Alan Corry, Jr.	1995-1996	Melanie Stewart
1968-1969	Bernard M. Saffian	1996-1997	Kevin Hershfield
1969-1970	Harold R. Schick	1997-1998	David Schultz
1970-1971	Robert G. Hills	1998-1999	John Raab
1971-1972	John J. Satterfield	1999-2000	Gary Taylor
1972-1973	Alexis M. Gross	2000-2001	Kevin Malpass
1973-1974	Francis J. Maurer	2001-2002	Kenneth L. Sharp
1974-1975	Leverett A. Anderson, Jr.	2002-2003	Joseph E. Pfeiffer
1975-1976	Robert M. Hershey	2003-2004	Robert C. Wegelin
1976-1977	Richard L. Fleshman	2004-2005	Joseph Mattingly
1977-1978	David Curtis	2005-2006	Lloyd A. Goettler
1978-1979	John A. Zelek, Jr.	2006-2007	John Woodside
1979-1980	Gerald W. Whitnable	2007-2008	Vivian Malpass
1980-1981	Kathleen N. Bechter	2008-2009	Joseph Mattingly
1981-1982	Victor E. Giuffrida	2009-2010	David A. Katz
1982-1983	James Steiner	2010-2011	Lloyd A. Goettler
1983-1984	Robert G. Hills	2011-2012	David Schultz
1984-1985	Anthony F. Dean, Jr.	2012-2013	Kevin Malpass
1985-1986	Gene Buser	2013-2014	Dan Jones
1986-1987	Harry J. Barth	2014-2015	Vivian Malpass
		2015-2016	Keith Pelfrey

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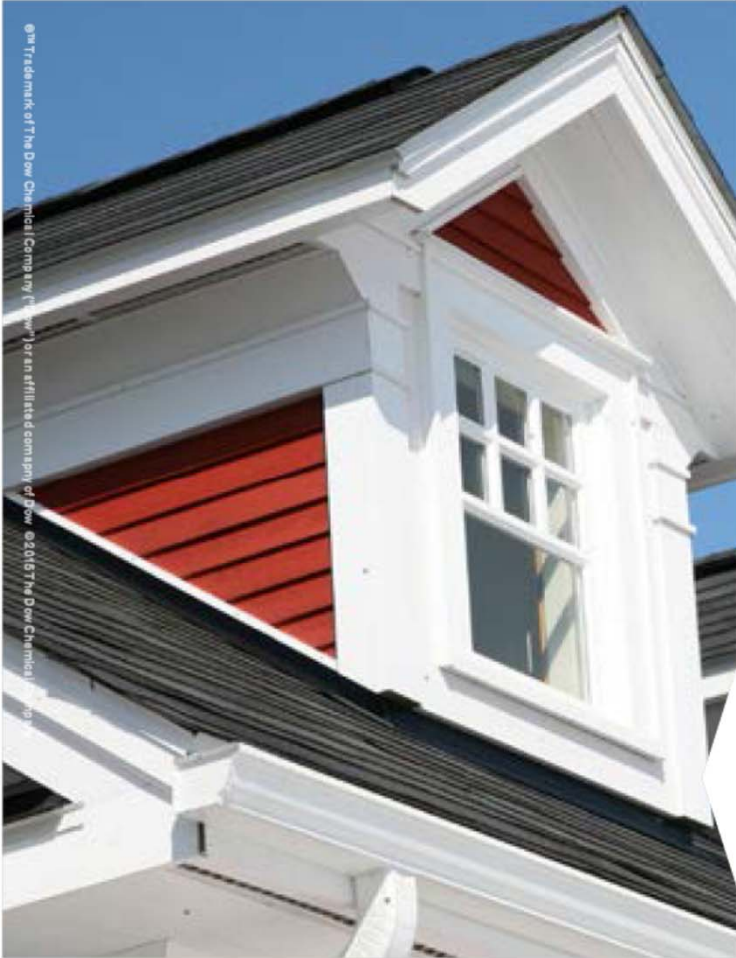
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**The Akron Section is in need of New Board Member.**

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

**Contact anyone currently on the board (see page 22)**

**if you are interested.  
Thank You!**

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## Goals for Akron Section SPE for 2015/2016

- Work closely with the Cleveland Section to promote attendance at Joint Section meetings and develop a diversified Program for 2015-16
- Increase involvement with U Akron Student Chapter to attend Section Meetings and functions and achieve better use of our website, Linked In and Face Book
- Give better recognition to new members
- Increase Section membership by at least 1% by better promotion of Section value
- Work closely with the Vinyl Plastics Division to run a very successful Vinyltec TOPCON in October 2015
- Continue and expand on joint Society meetings and activities, such as ACCESS, ACS and others
- Continue our recruitment efforts to add new Board members

**The Akron Polymer Training Center (APTC)**  
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### APTC plastics courses include:

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- Complete Injection Molding
- Polymer Compounding, Formulating and Testing of Plastics, Rubber, Adhesives and Coatings
- Rubber and Plastics Failure Analysis – Physical and Chemical Analysis Techniques
- Plastic Material Selection and Testing
- Plastic Part Failure Analysis
- Chemistry and Technology of Polymeric Materials used in Medical Devices
- Validating Medical Molding Processes and Parts
- Color Theory and Applications

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# Minutes of Board Meeting – November 2, 2015

**Call to Order:** 5:30 PM

**Present:** Keith Pelfrey, David Schultz, Bob Wegelin, Tom McQuaide, Sahil Gupta and Marcos Pantoja

**Absent:** Dan Jones, Kevin Malpass, Bob Weiler, Tony Dean, Viv Malpass, Kevin Cavicchi, Gary Taylor, Joe Mattingly and Nicole Brostowitz

**Special Guests:** Dr. Younjin Min- Student Chapter Advisor, Scott Smith- PESO- President and Ashrita Nallapaneni - PESO BOD Member

Agenda for Monday Nov 5 BOD meeting at 5.30pm at the U Akron Poly Eng Bldg :

1) Minutes available Oct 5 BOD meeting---Dave Schultz

Passed out- quick review, voted and Approved by BOD

*TARGET planned Special Discussions – Student Chapter- Dr Y. Min with BOD*

Keith reviewed briefly Akron Section SPE- Education ties to our current activity slate and added interest to get further engaged with active Student Chapter- PESO/ SPE

Review included:

Aim to promote leading edge technology at monthly meetings- very pertinent for students soon to be entering the work force

Monthly meeting format- meetings, tours ,speakers

Recent Vinyltec and Student aid- opportunity to network with business

Interest for Akron Section to get the word out to students SPE

Undergraduate scholarships

SPE Events

Noted that of the PESO group that 15 students were as well SPE Student Chapter members-

*Special note Memberships are free to US Citizens- as SPI providing funding currently*

Reviewed current information and format re monthly meetings

Mass e-mail currently sent to all students Polymer Engineering

Pdf- available in monthly newsletter from SPE- plan to place on board at elevator in PEAC

Suggested that would be good to know current PESO/Student Chapter ratio now and for the near past

Dr Min noted after review with PESO /Student Chapter students 6 ways that SPE could engage students to a greater extent

Tours- with emphasis that could be potential job for students or in depth knowledge for job interview.

Technical meetings for future- Student presenter

Invite speaker that could aid in Career building techniques- Interview

Increase awareness of SPE Intl- SPE Membership drive to be planned Nov 2015

Networking- along with gift of appreciation

Suggested that Newsletter and website provide pictures so that students can ascertain depth of meeting- networking and dress

Dr Min also mentioned that Univ. of Akron- College of Polymer Science and Engineering hosting a Graduate Research Conf –June 2016- interest in companies to help sponsor- informed SPE currently a member driven organization vs SPI- Industry and company driven although SPE has some large company targets being developed

## Minutes of Board Meeting – November 2 (cont.)

We noted as well we felt that SPE Chapter had a good opportunity to get engaged with April 2016 Meeting being led by Dr Kevin Cavicchi-Industry Teacher Collaboration

The Student Chapter as well- noted past monies available for ANTEC Travel as Student presenter-BOD noted past year low level of communication but that monies are typically available-PESO/Student Chapter noted potential interest as well for students to travel to Regional Conference- TOPCON's.

They also noted they are very interested to have their students show subject specific Posters at monthly meetings - plans to have 3-4 posters for November- Rheology and Measurement excellent thought as noted by BOD present

Plan to request for SPE Student Chapter pens and provide early day refreshments for mid November

Membership drive at PEAC

Invited Student Chapter to December Christmas Party and they will as well let BOD know date time and place for their Gathering for Christmas

KEY – Need to finalize for end of November- Pinnacle Award due

2) Section Goals—2015-16 Keith Pelfrey

Goals as developed- be meaningful need to be measurable and need to have a quantity associated with action. Determined that each Goal as set will be developed with appropriate BOD member denoted and that Joe Mattingly will aid in development using SMART method (We will do what by how much, when?)

See below after great deal of discussions: Key to Pinnacle and Communication for year 2015-16- Due Nov 2015

1-Work closely with Cleveland Section to promote attendance at Joint Section meetings and develop a diversified Program for 2015-16 that will increase total attendance by 5% over 2014-15—Bob Wegelin to supply metrics for avg monthly meeting attendance last year.

(Example: We will partner with the Cleveland section to increase joint average monthly meeting attendance from XX in 2014-15 to XX +5% 2015-16 by providing compelling diversified programming)

2-Increase involvement with U of A-Student Chapter to increase student attendance at our Section Meetings and functions by 5% over 2014-15—Marcos and Bob to determine details and review with Advisor- Prof Y. Min

3-Increase the use of social media including website, Linked In and Face Book by creating a compelling story that will attract new members—Nicole to inform new details of activity including face lift to website, reviewing SPE story plus as discussed review of Continuing education as key moving forward- wide appeal to members??

4-Give better recognition to new members by personally contacting and welcoming them to our Society, both when joining and at first meeting they attend

(Example: Increase new member recognition by 80% over 2014-2015 by personally contacting and welcoming them to our Society, both when joining and at first meeting they attend)

5-Increase Section membership by at least 1% by better promotion of section value and providing compelling events- Bob Weiler suggestions

# Minutes of Board Meeting – November 2 (cont.)

6-Work closely with Vinyl Plastics Division to run a very successful Vinyltec TOPCON in Oct 2015 and prepare for TPE TOPCON 2016- Viv Malpass informs- Attendance, Exhibitors and profitability could be metrics

7-Continue to expand on Joint Society meetings and activities such as ACCESS, ACS and others to share event notifications and improve attendance over 2014-15- Need to get details on who from each group may have attended in recent past- also make sure we have more details at ACCES and ACS than just date and location- Bob Wegelin and Tony Dean

8- Continue our recruitment efforts to add 2 new BOD members in 2015-16  
(Example: Increase our recruitment efforts to increase the number of board members from 14 to 16 in 2015-2016

Suggestion to provide members and students at up-coming meeting with survey-Sahil Gupta to develop

## **Committee Reports:**

### **Technical Program Review 2015-6--Keith Pelfrey- New 2015-16 Bob Weiler**

Keith informed program is set for November and rest of the year with back ups available, reconfirmed that Bob Weiler has been provided a “germ” to start next year Bob Weiler has asked for comments from BOD and Student Chapter.

Christmas Party – Bob Wegelin will request a brief History of Richfield Taverne.

### **Membership--Bob Weiler**

Membership at 307- recent Vinyltec and Sept activity.

### **Treasurer--Gary Taylor**

Gary provided report for BOD to review

### **Councilor--Kevin Malpass / Dan Jones**

No report- SPE Intl provided up-dated synopsis to review Dec BOD

AS NOTED above

### **Student Chapter—Younjin Min via Kevin Cavicchi**

Marcos and Keith to developed discussions need input and involvement of students a very key part of this years Goal.

### **Public Interest/Website-- Tom McQuaide/Tony Dean**

Tom informed that he has recently provided a template for news release- could gather very up-dated education information now and place in template- In process of consideration.

Tony informed via notes next meetings have been placed at appropriate sites.

**Need to confirm status of Electronic picture frames for PEAC**

# Minutes of Board Meeting – November 2 (cont.)

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

Tony informed that his current portion of website has been up-dated. Nicole reports she is making progress on the new look social media site and has asked for BOD to aid in helping to fill in the blanks-BOD to review Nicole's e-mail and provide input.

Nicole has requested up-date on Plastivan-Intl is placing a renewed interest and has expanded their out reach D. Schultz to check Cleveland Section as well local ESC- Dr Missi Zender Sakach.

## **Newsletter--Utilization/Advertisers--Tony Dean**

No report.

## **Awards—Planning-Dan Jones**

No report- Keith did mention Dan was working on this will review progress- Dec BOD Confirmed Awards for next year in progress.

## **Pinnacle/Communications/Timing 2016-17 ---Dan Jones**

No report- Dan Jones will handle Pinnacle for year 2015- needs BOD input.

## **SPE/Section Award Planning 2016-7---Dan Jones/All**

Keith asked BOD to review Awards and make suggestions for this and potentially next year- Org- Akron new business to be reviewed for potential Business Award for 2016- Need backup to aid D Jones in Awards work

## **Education Committee--Improvement Actions for 2015-6--Kevin Cavicchi/Tom McQuaide**

Plan to reach out in other areas such as noted from last year suggestions: Contacts with Boards of Education, PTA, websites, local papers

## **Education Foundation-- Funding from Section/Fund Raising Event for 2015-6--Bob Wegelin**

No report- plan to have final Foundation Meeting for year- re current situations in stock market- Bob plans to gather Foundation Committee for up-date and review.

## **Vinyltec 2015, Oct 13-15--Status--VM/Bob Weiler/Dave Schultz/ Bob Wegelin**

No report- Vinyltec went very well- will await final details from Viv Malpass. We have asked to be considered for future Vinyltec meeting approved for 2021.

## **TPE TOPCON- September 2016--Status--VM/ Bob Wegelin**

Viv reports that this Conference confirmed for Sept 20-22.

## **House- Bob Wegelin, Gary Taylor**

Bob reports that all is set at Hilton for Nov. Meeting. We need to remind our co-workers about the Monday meeting to increase attendance.

## **New Business:**

Reviewed request by Dr. Missi Zender Sakach-ESC for Teacher Grant for Hands On Plastics Kits- from Education Foundation

Suggested we get pens made up fro PR for Akron Section SPE- Jenny Digiantonio

## **Adjournment**

Meeting was adjourned at 7:07 p.m. Next BOD Meeting November 30 Univ. of Akron PEAC -5:30 PM





# Thermoplastic Elastomers

## Thermoplastic Elastomers Conference 2016

Stretching Performance with TPE's

September 20-22

Hilton-Akron/Fairlawn

Akron, OH

## CALL FOR PAPERS

The SPE TPE SIG & Akron Section invite the submission of abstracts for presentation at the 12<sup>th</sup> TPE Topical Conference.

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### Deadlines:

Abstract Submissions: January 31, 2016

Completed Papers: June 30, 2016

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# AKRON SECTION SOCIETY OF PLASTICS ENGINEERS

## Nomination Form - Election of Candidates to The Plastics Hall of Honor

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

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2. Displayed extraordinary dedication over many years that has contributed to the growth of the plastics industry.
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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 BY APRIL 22, 2016 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)

Honorees will be installed in the Plastics Hall of Honor at the Annual SPE awards night 2016  
 Their names and photographs will be displayed in the Plastics Hall of Honor within the University of Akron

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

## 2015 Award Recipients

### **Rubbermaid Scholarship**

*Matthew McGarry*  
Shawnee State University

### **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*  
Case Western

**Scholarships  
Available**

Goodyear Tire & Rubber  
Company

Rubbermaid

Kenneth L Sharp Memorial  
Scholarship

Jim Steiner Memorial  
Scholarship

SPE - Akron Section  
Special Merit Awards

The Society of  
Plastics  
Engineers  
Akron Section

Educational  
Foundation



2016  
Scholarship  
Program  
Information

Please visit <http://www.akronspe.org/education.htm> for more information and to download the application form.

## 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.

## 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)
6. Residence within area covered by Akron SPE.

## 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 students only. Co-op students are also eligible.

**Scholarship applications  
should be sent to:**

**Akron SPE  
Attn: Kevin Cavicchi  
250 S. Forge St.  
Akron, OH 44325-0301**

**- OR -**

**kac58@uakron.edu**

**Deadline is March 18, 2016.**

## 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.)

Names of scholarship recipients will be distributed to donor companies for possible internship or cooperative programs.

The number of scholarships awarded per year will be variable depending on the number of qualifying applicants.

Please visit <http://www.akronspe.org/education.htm> for more information and to download the application form.



# 2016 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 plastics, 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 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 18<sup>th</sup>, 2016 to the following address:**

**Akron SPE  
Attn: Kevin Cavicchi  
250 S. Forge St  
Akron, OH 44325-0301**

For questions, please contact Kevin Cavicchi, phone: 330-972-8368, or email [kac58@uakron.edu](mailto:kac58@uakron.edu)

# Programs for 2015 / 2016

Sept. 14	<b>University of Akron</b> Biomimicry - Leveraging 3.8 Billion Years of Innovation <i>-- Hilton Fairlawn – Akron*</i>	Jan. 11	<b>NASA</b> To Mars and Back – Extreme Eng. <i>-- Hilton Fairlawn – Joint with ACCESS*</i>
Oct. 12	<b>SIPA of Italy</b> Xtreme and Extreme Sincro, SIPA’s Revolutionary Preform Manufacturing Technology & Design <i>-- Hilton Fairlawn – Akron*</i>	Feb. 8	<b>RTP</b> VLF – Very Long Fiber – Metal to Plastic Replacement <i>-- Hilton Fairlawn – Cleveland*</i>
Oct. 13-15	<b>Vinyltec TOPCON</b> <i>-- Hilton Fairlawn – Akron*</i>	Mar. 14	<b>Case Western Reserve Univ., Tour</b> Solar Power <span style="float: right;"><i>-- Cleveland*</i></span>
Nov. 9	<b>Beaumont Technologies</b> True Melt Flow of Polymers <i>-- Hilton Fairlawn – Cleveland*</i>	Apr. 11	<b>Industry / Teacher Collaboration</b> SPE / University of Akron What do Polymer Engineers Do? How Do We Get the Word Out to Students <i>-- Hilton Fairlawn – Akron*</i>
Dec. 7	<b>Holiday Celebration</b> SPE – History and Plans for the Future <i>-- Taverne of Richfield – Joint*</i>	May 9	<b>Akron Section Awards Night</b> <i>-- Hilton Fairlawn – Akron</i>

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

## Akron Section Board of Directors

Keith Pelfrey	330-255-6557 T
GOJO Industries	330-255-6114 F
President/Chair, Technical Program	PelfreyK@GOJO.com

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

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Harwick Standard Dist. Corp.	330-798-9328 F
Secretary	schultzd@harwickstandard.com

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Retired	taylorgandc@gmail.com
Treasurer, House	

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Councilor	kevin.malpass@diebold.com

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Prior Past-President,	daniel.h.jones@sbcglobal.net
Director, Awards	

Marcos Pantoja	831-970-0604 T
Student - U Akron Polymer Eng.	mp87@zips.uakron.edu
Director, Student Chapter SPE Liaison	

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

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

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

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

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Director, Internet Communications	

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A. Schulman	330-630-3349 F
Director, Education	Thomas_McQuaide@schulman.com

Sahil Gupta	330-296-1421 T
Parker Hannifin Corp.	330-296-8433 F
Director	sahil.gupta@parker.com

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



# Akron Section Society of Plastics Engineers Educational Foundation



1-16

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-seven years that the foundation has been in existence, it has provided scholarships to over 250 young men and women totaling in excess of \$320,000 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 five 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 9, 2016.

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 2015-16**

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 57<sup>th</sup> year of the Akron SPE Section and rates are for entire season, September 2015 – Summer 2016. **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                      Billin                      g Information:**

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

**Mail checks, payable to AKRON SECTION SPE, to:**  
Akron Section SPE  
c/o Tony Dean  
Akron SPE  
250 S. Forge Street  
Akron, OH 44325-0301



# 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# \_\_\_\_\_