

Polymer Valley News

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

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Technical Meeting

Monday, November 9, 2015
5:30 p.m.

Beaumont Technologies

Hilton Inn
3180 West Market Street
Akron, Ohio 44333

**New Method for Characterizing
the Injection Moldability of Plastic Melts**
John Beaumont, President and CEO



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, Nov. 6 and can be made to Dan Crist at mail@cmd-tip.com or 330-225-8080

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

See page 3 for
abstract and
Mr. Beaumont's biography

Coming Up:

➤ December 7 – Holiday
Gathering at Taverne of
Richfield

Nov. 2015, Page 1



President's Message

Akron Section SPE Members:

We are off to a great start this year!

Our September Bio-Mimicry meeting and October's SIPA presentation on new blow mold technology were very educational, interesting and well attended. The attendance at Vinyltec 2015 hosted by the Akron Section exceeded our expectations. Congratulations to the Vinyltec committee for a job well done! We have increased our student participation and membership and look forward to introducing more students to our society and the benefits they can enjoy as members. We have much more interesting and exciting continuing education opportunities to come for our members in the Akron and Cleveland Sections.

Cleveland will host a presentation on Nov. 9 that discusses the latest in material technology, a new way to truly measure melt flow of materials from Beaumont Technologies.

We follow this with our Joint Cleveland /Akron holiday celebration on Dec. 7 at the Taverne of Richfield.

In 2016: On Jan 11 we will host a joint meeting with ACCESS (a consortium of scientific and engineering societies in the Akron), with a presentation by a former astronaut from NASA on Extreme engineering and our plans for Mars. On Feb. 8 Cleveland will host RTP with a presentation on using long fiber to replace metal with plastic and will be followed on March 14 with a tour and presentation on solar power at Case western University. On April 11 we will host the first teacher/ industry collaboration event, to help teachers get the word out about careers in plastics. We finish the year with recognition on May 9.

All meetings will be held jointly with the Cleveland Section except for our separate Award Nights. Note that meetings will be held in the Akron Fairlawn Hilton on West Market Street on the second Monday of each month unless otherwise indicated.

The pocket calendar contains the details of the Section Program meetings. I think you will find the program educational, varied and fun. Please come and learn, participate and enjoy the camaraderie.

To close, we always need fresh faces on our Board of Directors, so if you want to be thoroughly involved with the many Section activities, please get back to me and we will be glad to sign you up!

Have a GREAT SPE YEAR.

Keith Pelfrey,
President 2015-2016 Akron Section of SPE
330-255-6557 PelfreyK@GOJO.com

Speaker Biography

John Beaumont is President and CEO of *Beaumont Technologies* and the *American Injection Molding Institute*. He has authored several books on Injection Molding and is a 2015 inductee to the Plastics Hall of Fame. John is also a professor emeritus at Penn State University where he helped develop and chaired the Plastics Engineering Technology Program at Penn State Erie. His earlier industrial credits include positions as Technical Manager for Moldflow's US operations and Engineering Manager for Ciba Vision Corp. He was also the founder and director of the Plastics CAE Center at Penn State, past Chair of the Injection Molding Division's Board of Directors and is currently a member of the Plastics Pioneers and an SPE Fellow. Beaumont Technologies is the pioneer and world leader of in-mold rheological control technologies.



New Method for Characterizing the Injection Moldability of Plastic Melts

This presentation reveals the first method for mapping the actual injection molding characteristics of a polymer melt. The novel multi-variant approach captures the complex interactions between plastic materials, process and mold/part design. The accompanying software processes the data and allows the user to evaluate and graphically display the molding characteristics of a single material, or simultaneously contrast multiple competing materials. The new method bridges the gap between commonly used isothermal extrusion based test methods (MFI & rheometers) and injection molding simulation. This data can be used for material selection, to accelerate new polymer and polymer compound development, process optimization as well as plastic part design.

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The advertisement features a green background. At the top, it says "ADDitives for RECYCLING" in white and red text, with the "struktol" logo in a red box. Below this are four small images showing different types of plastic waste: multi-colored granules, grey pellets, rolls of yellow and white plastic, and blue and red plastic pieces. Red arrows point from each of these images down to a blue box containing the text "Struktol Intelligent ADDitive Solutions". A larger red arrow points from this box down to a photograph of a person's hands holding a large amount of grey plastic granules. Below the photo is a text box describing the benefits of the additives. At the bottom, the website and email address are listed.

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)

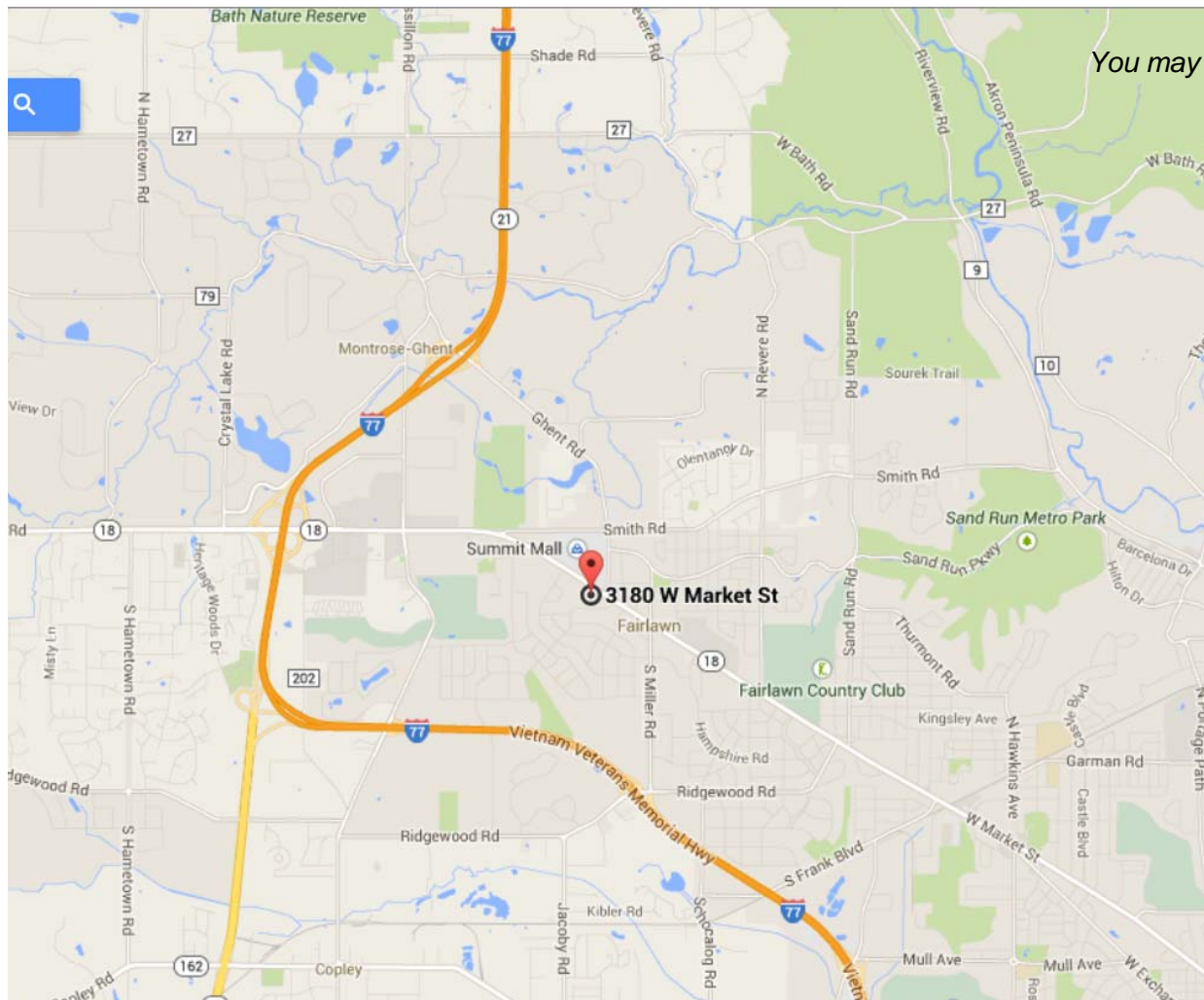
Exit at #133 – Ridgewood/Miller Rd. Go straight through the exit for approximately 2 miles. Turn left on Market Street (2 blocks). The Hotel is located on the left

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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And also on our updated www.akronspe.org

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**



Inside OESCA

INNOVATE. EDUCATE. ADVOCATE.

Missi Zender-Sakach Earns Plastics Hall of Honor Award

By Summit County Educational Service Center



The Summit County Educational Service Center (SCESC) is pleased to announce that SCESC Science Consultant Missi Zender-Sakach, Ph.D., of Stow, was recently presented the Plastics Hall of Honor Award by the Society of Plastics Engineers during an awards ceremony at Firestone Country Club.

“I was completely honored, and it was wonderful to have that feeling of being so supported,” Dr. Zender-Sakach said. “It was especially gratifying to have a professional organization made up of professional scientists support an educational initiative in STEM (Science, Technology, Engineering and Math).”

Dr. Zender-Sakach, a former elementary and middle school science teacher, joined the SCESC in 1998 after spending 8 years in the classroom. In order to bring opportunities to local school districts, she established a partnership with the Society

of Plastics Engineers along with local corporations and universities to help broaden science instruction for students.

“There has always been a need for schools, businesses and industries to work together to promote the sciences in schools. STEM is a buzz word to say what we’ve always been doing. It’s always been there. I think there is definitely a switch in how we’re teaching kids, but the basis of the philosophy is still there. We should always be working with businesses and industries to help students with career choices and job placement and

to learn engineering and practices. The focus is more prevalent now,” she said.

Her passion for creating excitement for science education is a result of her own self-described “horrible” experiences as an elementary student. She believes science should be engaging and encourage teachers to allow their students to explore and learn.

“Science is everywhere. It affects nearly everything in life, from breathing to medicine,” she said.

Dr. Zender-Sakach earned a bachelor’s degree from Miami University. She holds a master’s degree and a doctorate from The University of Akron.

She has been involved in other educational opportunities with the Akron Council of Engineering and Scientific Societies, American Nuclear Society and American Chemical Society, Rubber Division. She is currently a board member of the Science Education Council-Ohio and a member of the National Science Education Leadership Association and the National Science Teachers Association.

For More Information

On the Summit County ESC, call 330.945.5600, ext. 511239 or visit www.cybersummit.org.

To learn more about news and events, follow the SCESC on Facebook, Twitter and LinkedIn.

Membership report – Sept/Oct 2015

Akron Section has 307 active members.

Eight new members were added in September and three were added in October.

Melissa Cardew
Firestone High School
Akron, OH

Weston Merling
Department of Polymer Engineering, University of Akron
Akron, OH

Jui-Hsiang Hung
University of Akron
Stow, OH

Tarak Patra
The University of Akron
Akron, OH

Mary Lou Ice
Valtris Specialty Chemicals
Independence, OH

Ben Plattner
Baerlocher USA
Cincinnati, OH

Richard Keatley, Jr.
Americhem
Cuyahoga Falls, OH

Camilo Rendon Piedrahita
University of Akron
Northfield, OH

Samuel Kosco
Firestone High School
Copley, OH

Chi Zhang
University of Akron
Akron, OH

Jayachandra Hari Mangalara
The University of Akron
Akron, OH

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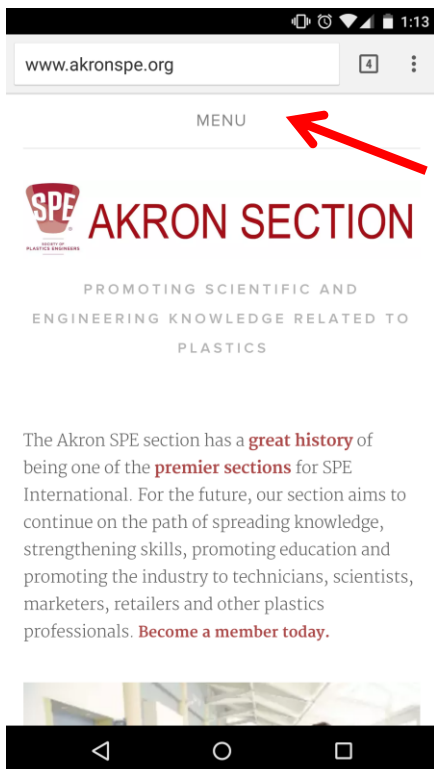
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The Akron SPE section has a new website with new features!

You can now use the website on your phone to add the monthly meeting directly to your Apple or Google calendar. Just go to akronspe.org, click MENU and then EVENTS. Select the event you would like to add to your calendar and click the appropriate link.



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- Joint development projects



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MARKETS

- Building Materials
- Polymers
- Life Sciences
- Paper



Highlights from Vinyltec 2015

For more pics - <https://akron-spe-web.squarespace.com/photos-new/#/20152016-meetings/>



Student ushers Camilo Rendon (left) and Marcos Pantoja from Akron Univ. Polymer Eng. Dept.

Kathy Schacht, SPE Int'l and Bob Wegelin, Akron SPE



Kasper Van Veen, Technical Program Chair, welcomes attendees to the conference



Vivian Malpass, General Chairman (left) and Dave Schultz, Vice-Chair, Secretary welcome attendees



Exhibits

Highlights from Vinyltec 2015

For more pics - <https://akron-spe-web.squarespace.com/photos-new/#/20152016-meetings/>

Diamond Mixer



Mike Fulmer of Struktol (left), talks to an attendee



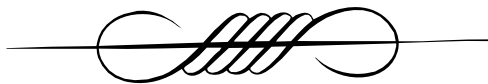
Coffee Break



Exhibits

Akron Section SPE Past Presidents

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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

More Vinyltec 2015 Sponsors



**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 25)**

**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:

- Understanding Plastic Material Properties in Analyzing and Preventing Product Failures
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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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Customized training programs are also available. Contact APTC at 330-972-8303 or lbettinger@uakron.edu

Minutes of Board Meeting – October 5, 2015

Call to Order: 5:30 PM

Present: Keith Pelfrey, Viv Malpass, David Schultz, Kevin Cavicchi, Tom McQuaide, Gary Taylor, Joe Mattingly, Sahil Gupta and Marcos Pantoja

Absent: Dan Jones, Kevin Malpass, Bob Weiler, Tony Dean, Bob Wegelin and Nicole Brostowitz

New BOD Members- Student Chapter- SPE Liaison- Marcos Pantoja, Sahil Gupta- Parker

Welcome by New President- Keith Pelfrey to all returning BOD and new Members and to Student Chapter – PESO representatives VP PESO-Camillo and Treasurer –Daniel Diaz

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

*Kevin Cavicchi---provided parking passes for Oct until May 2016

1) Minutes of Aug 31 BOD meeting---Dave Schultz
Reviewed, voted and Approved by BOD

2) Section Goals—2015-16 Keith Pelfrey

Keith provided Goals as developed- reviewed in depth reviewed that all Goals to be more 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

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

Minutes of Board Meeting – October 5 (cont.)

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 October 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.

Membership--Bob Weiler

No report.

Treasurer--Gary Taylor

Gary provided report for BOD to review

Gary provided Joe Mattingly check book system for year 2014-15 to audit

Councilor--Kevin Malpass

No report- provided up-dated information see noted below for BOD to consider and provide information to Dan Jones for up-coming Councilor Meeting

Kevin has informed that Dan Jones will represent Akron Section at Oct 2015 Council Meeting in Pittsburgh- Thanks Dan Jones The second sessions are for you to provide input to three topics:

- the ANTEC model going forward
- best practices for TopCon
- Open Forum- Any topic Councilors want to discuss

Student Chapter—Younjin Min via Kevin Cavicchi

Kevin informed that Prof Y. Min is now Student Chapter Advisor

Determined that we should plan to develop a Student Chapter agenda for Nov Meeting of BOD and invite Prof. Y.Min.

Marcos and Keith to handle BOD provide input - look forward to input and involvement of students a very key part of this years Goal. Determine identity and number of PESO vs Student Chapter.

Public Interest/Website-- Tom McQuaide/Tony Dean

Tom informed that he was in the process of investigations and should have input for potential article- Nov BOD.

Tony informed that all information has been disseminated for next meetings SPE and public sites.

Minutes of Board Meeting – October 5 (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.

Keith to review PO Box situation and suggest that keep box at U of A instead of payment for one- noted did loose advertising check. The UA PO box has been closed for years and the mail has been routed to Kevin Cavicchi. How do we open up a new one?

Awards—Planning-Dan Jones

No report- Keith did mention Dan was working on this will review progress- November BOD.

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

No report- Dan Jones has aided BOD in this area past 3-4 years anticipate Dan has some pointed suggestions as the awards process appears to be in transition.

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

Keith has asked BOD to review Awards and make suggestions for this and potentially next year- Organization-Akron new business to be reviewed for potential Business Award for 2016. Need back up to aid Dan Jones in his Awards work

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

Kevin informed that no new news , all current processes have started for new year using up-dated Scholarship information, and brochure.

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

Need to confirm status of Electronic picture frames for up-coming Conference- BOD

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

Viv reports Vinyltec is on track to be an excellent meeting Sponsors set per Kevin Malpass and Table Tops at 27 currently, have 252 attendees. We have asked to be considered for future Vinyltec meeting in Akron 4-5 years.

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

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

Minutes of Board Meeting – October 5 (cont.)

House- Bob Wegelin, Gary Taylor

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

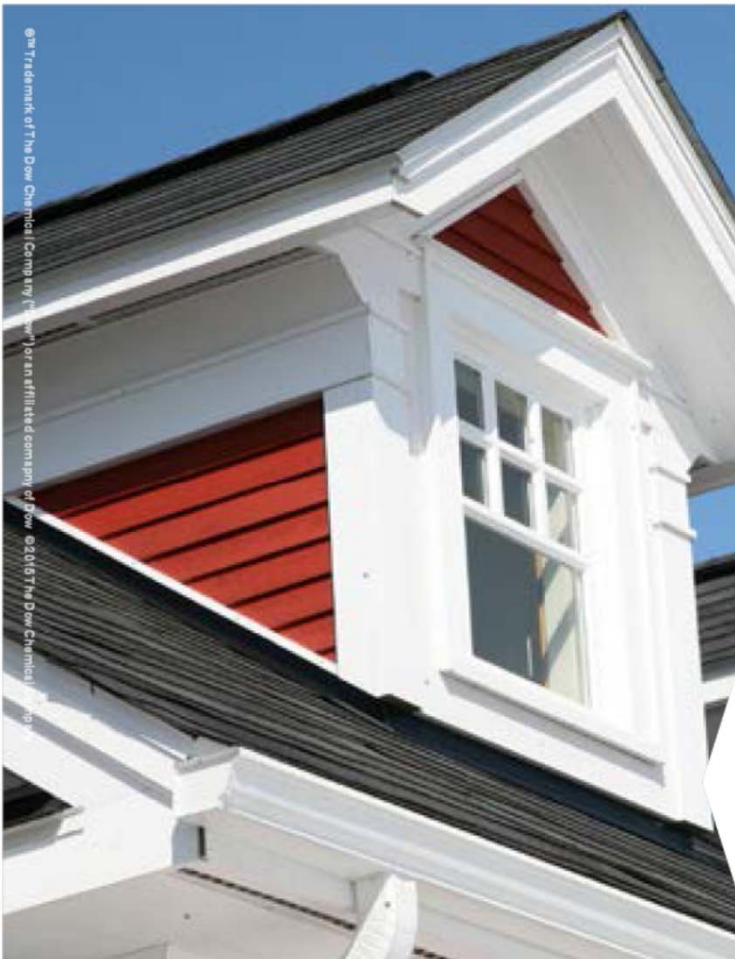
New Business:

None

Adjournment

Meeting was adjourned at 6:55 p.m.

Next BOD Meeting set for Polymer Engineering and Academic Center-PEAC, Monday – November 2, 2015



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

William Blasius

774-545-0990

wgblasius@gmail.com

or

Mark Berard

225-776-6013

mark.berard@tsrc-global.com

Deadlines:

Abstract Submissions: January 31, 2016

Completed Papers: June 30, 2016

www.4spe.org



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:

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 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

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 18th, 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

Programs for 2015 / 2016

Sept. 14	University of Akron Biomimicry - Leveraging 3.8 Billion Years of Innovation <i>-- Hilton Fairlawn – Akron*</i>	Jan. 11	NASA To Mars and Back – Extreme Eng. <i>-- Hilton Fairlawn – Joint with ACCESS*</i>
Oct. 12	SIPA of Italy Xtreme and Extreme Sincro, SIPA’s Revolutionary Preform Manufacturing Technology & Design <i>-- Hilton Fairlawn – Akron*</i>	Feb. 8	RTP VLF – Very Long Fiber – Metal to Plastic Replacement <i>-- Hilton Fairlawn – Cleveland*</i>
Oct. 13-15	Vinyltec TOPCON <i>-- Hilton Fairlawn – Akron*</i>	Mar. 14	Case Western Reserve Univ., Tour Solar Power <i>-- Cleveland*</i>
Nov. 9	Beaumont Technologies True Melt Flow of Polymers <i>-- Hilton Fairlawn – Cleveland*</i>	Apr. 11	Industry / Teacher Collaboration 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	Holiday Celebration SPE – History and Plans for the Future <i>-- Taverne of Richfield – Joint*</i>	May 9	Akron Section Awards Night <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
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Prior Past-President,	daniel.h.jones@sbcglobal.net
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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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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

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

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

SPE MEMBER BENEFITS GUIDE



FREE TO MEMBERS

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

SAVINGS TO MEMBERS

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

WEBSITE LINKS SUBJECT TO CHANGE - CHECK 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

Insertion Order 2015-16

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 57th 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

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

(please X)	Ad Size	Dimensions	Price for year
	Business Card	One column by 2" high	\$100
	Double	One column, 2 to 4" high	\$150
	Triple	One column, 4 to 6" high	\$200
	Half Page	One column, 10" high	\$250
	Half Page	Page width (7.5"), 5" high	\$250
	Hotlink to company website	N/A	No Charge

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

Contact Person Billing 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# _____