

# Polymer Valley News

**The Newsletter of the Akron Section of the Society of Plastics Engineers**  
*Our 56<sup>th</sup> Year of Education and Service to the Plastics Industry*

## Newsletter Contents

Meeting Announcement	1
President's Message	2
2014 Annual SPE Golf Outing	2
Pittsburgh Section	
Advertiser Index	3
Technical Questions on Plastics	3
Akron SPE Past Presidents	3
Join the Board	4
New Directions Initiative	5
TPE TOPCON 2014 information	6
2 <sup>nd</sup> Bioplastic Materials Topical	8
Conference 2014 – Chicago	
International Elastomer	9
Conference – Nashville	
Plastics News article	9
2014-2015 Program	10
Akron Section Board Members	10
SPE Educational Foundation	11
Essay/Scholarship flyer	12
Essay rules and form	13
Scholarship application	16
Hall of Honor form	17
Who Can Help You at SPE	18
Member Benefits Guide	20
Insertion Order form – 2014/15	22
SPE Membership Application	23

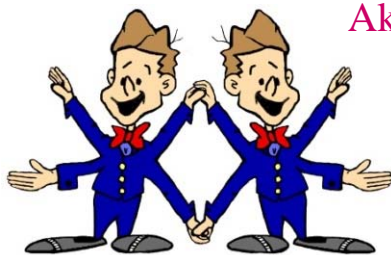
## TOPCON 2014

**September 16-18, 2014**

**Presented by**  
**TPE SIG and Akron SPE**

### Hilton Inn

3180 West Market Street  
Akron, Ohio 44333



## Building New Bonds

*Expanding Markets, Materials & Applications*

### Sponsored By:

**The SPE Thermoplastic Elastomers SIG**

In Partnership with **The Akron Section of SPE**

**Click to view TOPCON on SPE web site**

**For information on sponsors and exhibitors: [kevin.malpass@diebold.com](mailto:kevin.malpass@diebold.com) or 330-490-4743**

**Coming Up:**

➤ October 13 – Nottingham-  
Spirk in Cleveland

Sept. 2014, Page 1



# President's Message

Welcome to the 2014-2015 SPE year. We have a great program for our monthly Akron and Cleveland Section members. All meetings will be held jointly with the Cleveland Section except for our separate Award Nights. You will find program details in the pocket calendar to be sent to you in the mail soon. 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.

We start with our biannual Topical Conference or TOPCON on Thermoplastic Elastomers on Tuesday, September 16 through Thursday, September 18. This will be the 11<sup>th</sup> TOPCON co-sponsored by the Akron Section and the TPE SIG, and will again be held in the Akron Fairlawn Hilton. You will hear the latest in TPE materials, applications, processing, design and global marketing. The Conference features a Welcome Mixer and exhibits on the Tuesday evening, a Wine and Cheese reception on the Wednesday evening, two luncheons with keynote speakers and 26 papers on Wednesday and Thursday. The exhibits will be open throughout the Conference. It is not too late to register or reserve a table to exhibit your products or be a sponsor. A brochure with technical program, Conference and hotel registration information will be included in the mailing with the pocket calendar. We look forward to seeing you there!!

The pocket calendar contains the details of the Section Program meetings which commence in October 2014 with a tour of Nottingham Spirk, a prominent industrial design house in Cleveland, and end in May 2015 with our Awards Night. Our Holiday event will be at the Wolf Creek Winery in Akron and will feature the Firestone Madrigals and a presentation on the local wines. 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.

*Viv Malpass,  
President 2014-2015 Akron Section of SPE*



## **Pittsburgh SPE Golf Outing**

**Event: 2014 Annual SPE Golf Outing**

**Date/Time: September 3, 2014**

**Location: Cranberry Highlands Golf Course**

**[Click for flyer](#)**

**[Click for order form](#)**

*Vivian Malpass (left) becomes  
Akron SPE President for the  
2014-2015 year*

## Advertiser Index

Akron Polymer Training Center	5
David Industrial Sales	7
Dover Chemical	7
Polysort	4
Struktol	4

Picture your ad here .....

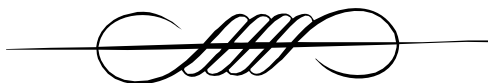
And also on our updated web site:  
[www.akronspe.org](http://www.akronspe.org)

## Technical Assistance Initiated On Akron SPE Web Site

*Do you have a technical question on plastics, polymers, rubbers, etc. Our web site now has a place where you can detail your question and the Akron SPE Board will use their collective knowledge and resources to answer your questions. Check it out at <http://akronspe.org/contact/>. If you post a question we will post it in the following newsletter along with the answer.*

## Akron Section SPE Past Presidents

*56 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. Whitnoble	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







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**The Akron Section is in need of New Board Member as the new year begins.**

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

**Contact anyone currently on the board (see page 10)**

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

## If prospects can't find your website on Google, will it generate leads?

Polysort -- serving plastics companies for 18 years



- **Search Engine Optimization**
- **Website design**
- **Internet marketing**

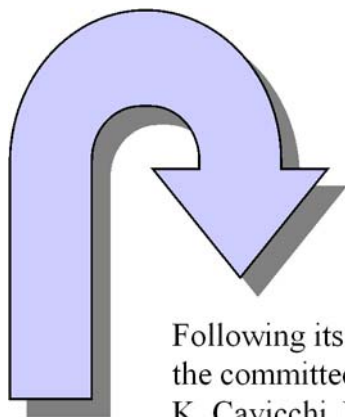
Contact us today for a FREE web site audit.

Tel. 330.665.5918 ext. 2104

E-mail John Inama at [johni@polysort.com](mailto:johni@polysort.com)

  
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## New Directions Initiative

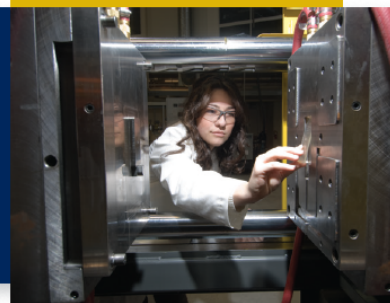


An initiative has been undertaken to develop a set of new directions for the SPE Akron Section with the objectives of revitalization and operational efficiency. Elements to be addressed include technical program focus, section functioning, member involvements, inter-society interactions, meeting venues and liaisons with our local educational institutions.

Following its authorization by the Board of Directors at their June 2009 meeting, the committee comprising R. Sadeghi, S. Jana, V. Malpass, K. Malpass, K. Cavicchi, M. Holtman and L. Goettler (chair) has met to generate program concepts for the upcoming year around developing technologies of local interest that involve both R&D and commercialization and are of general societal interest. Thrust areas have been identified as energy, biomaterials, medical/health applications of polymers and environmental concerns. Some program subjects being considered are medical plastic applications, e.g. implants, fuel cells, applications of nanofibers, biopolymers, alternate energy sources, water purification e.g. via desalination, photovoltaics, flexible displays, and the general process of technology transfer from lab to marketplace.

Please input your preferences and other ideas to us via the SPE website to insure that our programs are meeting your needs and interests.

**The Akron Polymer Training Center (APTC)**  
at The University of Akron provides short courses  
for the plastics, rubber, medical, corrosion,  
and adhesives and coatings industries.



### APTC plastics courses include:

- Understanding Plastic Material Properties in Analyzing and Preventing Product Failures
- Making Properties and Profits: Twin Screw Extrusion Seminar
- 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

The  
University  
of Akron

Visit [uakron.edu/aptc](http://uakron.edu/aptc) for a complete list of APTC courses.

Customized training programs also are available. Contact APTC at **330-972-8661** or [tahir@uakron.edu](mailto:tahir@uakron.edu).

## Thermoplastic Elastomers TopCon 2014

In September 2014, the Akron Section of the Society of Plastics Engineers (SPE) in conjunction with the Thermoplastic Elastomer Special Interest Group (SIG) of SPE will once again be host to a showcase of companies that produce and use thermoplastic elastomers or TPEs. These are melt processable elastomers with properties similar to cured rubber but unlike cured rubber can be injection molded, extruded or blow molded and are recyclable. The 11th Topical Conference or TOPCON on Thermoplastic Elastomers has as its theme “Building New Bonds” and will be held in the Akron-Fairlawn Hilton on September 16-18, 2014. Sessions will include TPE global market trends and economic outlook, latest material and application developments, innovations in design and development and advances in processing and fabrication.

The global demand for TPE materials is forecast to increase steadily at approximately 5.5 % yearly to approximately 13 billion pounds by 2017 valued at more than \$20 billion according to the Freedonia Group located in Nardon, Ohio. Their recent study predicts that the Asia/Pacific region will become the largest and fastest growing market for TPEs and will account for nearly half of global demand by 2015. China has become the world's largest consumer of TPEs and will continue to see robust growth in demand. Motor vehicles account for the largest portion of the world TPE market with 33% of the total demand. However, the fastest growth will be in smaller volume TPE markets such as the medical products industry and emerging applications in the packaging industry. In the US, automotive continues to be the largest market for TPEs. The US automotive market is forecast to increase as car production increases due to replacement of older vehicles and the ongoing push to reduce weight and improve gas mileage. This growth is expected to come at the expense of natural and synthetic rubber, rigid thermoplastics and metals and from completely new TPE applications.

Ohio is currently one of the nations top “polymer” states, second only to California in number of employees in the plastics industry and to Texas in plastics shipments. The main areas of growth according to Polymer Ohio are in automotive, biomedical, building and construction, but good growth will occur in utilities, consumer goods, instrument controls and electronic devices and packaging. The polymer industry will continue to be a major source of jobs and revenue for Ohio with 78 counties having at least one polymers industry establishment. In 2012, the polymer industry in Ohio was the state's largest industry in terms of jobs and companies. With the economy gaining momentum, Ohio's polymer industry is on track for record growth.

There are a number of TPE producers in the local area:

--Exxon Mobil Chemical has its TPE R&D and located in Akron. Exxon Mobil produces dynamically vulcanized Santoprene Thermoplastic Vulcanizates or TPVs at its Pensacola and Newport, Wales manufacturing facilities. TPVs behave like cured rubbers and are used in a wide range of applications including under-the-hood automotive, soft touch grips and weatherseals for outdoor weathering exposure.

--A. Schulman based in Fairlawn, Ohio produces TPE products that are being used in soft touch overmolding and engineered applications.



## Thermoplastic Elastomers TopCon 2014

*continued*

--Dow Corning, formerly Multibase in Copley, Ohio, offers TPSiV™ materials which are based on crosslinked silicone rubber and Nylon for high use temperature, oil and heat resistant applications

--PolyOne/GLS Corporation of Avon Lake, Ohio, is the largest thermoplastic compounder in the US. They provide a full range of TPEs from lower cost styrenic types to Thermoplastic Urethanes (TPUs) and other high performance engineering TPEs. They promote innovation and value in polymer compounding and are a leader in developing sustainable bio-based TPE compounds with increasing emphasis on medical applications.

--Lubrizol produces Estane TPUs at their Brecksville facility for many applications from breathable fabric coatings to automotive side and body moldings. Their lighter weight TPU parts have excellent abrasion resistance and good bio-compatibility, fire resistance and impact resistance.

**To learn more about the latest TPE materials and applications that will help shape and innovate for our future please come and join us for our 11<sup>th</sup> TPE TopCon in Akron, Ohio from Tuesday, September 16 through Thursday, September 18, 2014.**

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Email: [cmcglathlin@doverchem.com](mailto:cmcglathlin@doverchem.com)



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## 2<sup>nd</sup> Bioplastic Materials Topical Conference® 2014

*The World of Biopolymers  
Expanding Markets, Materials & Applications*



September 30, 2014  
Tutorial

October 1-2, 2014  
Conference

Chicago, Illinois USA

*Sponsored by the  
SPE Bioplastics SIG in partnership  
with the SPE Chicago Section*

### Exhibitor & Sponsorship Opportunities

Companies interested in  
table-top displays and/or  
sponsorship opportunities may  
contact:

**Kelvin Okamoto**  
TopCon Co-Chair  
[kelvin@greenbottomline.com](mailto:kelvin@greenbottomline.com)

or

**Kimberly Rush**  
Chicago Section  
TopCon Co-Chair  
[krush@polyformproducts.com](mailto:krush@polyformproducts.com)

## Join us in Chicago for the Bioplastics Conference

### KEYNOTE SPEAKERS

**KENNETH MILLER**, Retired from Sabic: *"Sustainability"*

**WILLEM DE VOS**, SPE CEO: *"Innovating in the Age of Interaction"*

### ADDITIONAL SPEAKERS

Edwin Tam, Teknor Apex

Doug Hirt, Clemson University

Ala Wattawi, Clemson University

Alex Utracki, Coperion

Kelvin Okamoto, Green Bottom Line

Kevin Cai, Teknor Apex

Amy Yousefi, Miami University

Robert Joyce, Innovative Plastics & Molding

Dorie Yonz, Segetis

Meg Sobkowicz-Kline, UMass Lowell

Samaneh Rahimi, Michigan State University

Sam McCord, MCG BioComposites

Keisha Walter, Mississippi State University

Alan Boardman, Brigham Young University

Maik Feldmann, University of Kassel

### REGISTER ONLINE

<http://tinyurl.com/bioplasticstopcon>

### HOTEL INFORMATION

Embassy Suite Hotel  
Schaumburg, IL  
PH: + 1 847-397-1313  
Group Code: SPE

### QUESTIONS? CONTACT:

Edwin Tam, SPE Bioplastics Co-Chair  
PH: +1 339-222-8076 | [etam@teknorapex.com](mailto:etam@teknorapex.com)



## International Elastomer Conference

- featuring the International Rubber Expo, 186th Technical Meeting & Educational Symposium

**October 14-16, 2014 – Nashville, TN**

Rubber Division, ACS is the only organization dedicated to the advanced technologies of the rubber industry. Our International Elastomer Conference is the premier place where customers, suppliers of materials, equipment, tools and services, and educators come together. It provides a forum for the exchange of ideas, observations, regulatory reforms and emerging scientific technologies, as well as learning, networking, seeing current customers and making new ones.

- over 160 companies/organizations exhibiting at the expo
- over 100 speakers ready to share their knowledge at the Technical Meeting
- 7 courses at our Educational Symposium
- expo theater presentations, Student Colloquium & Poster Session, career fair, 5K walk/run and more will be featured

Visit [www.rubberiec.org](http://www.rubberiec.org) for details.

Plastics News-- July 28, 2014 Page 6

## PERSPECTIVE

DAVID PETERSON

# Finding the true value of mentoring

There's a common thread when I speak with thought leaders in the plastics industry. Most of them attribute a big part of their success to having a great mentor.

Mentoring is more than simply answering occasional questions or providing ad hoc help to mentees. Mentoring is about an ongoing personal relationship of learning and having a dialogue with a more experienced or more knowledgeable person who helps to guide a less experienced or less knowledgeable person.

Mentors help us learn from their experiences, successes and mistakes. They can also help build a foundation of industry knowledge and skills and help you achieve the level of success you want.

There are four types of mentorship programs that organizations specializing in plastics offer:

- **Formal mentoring:** Protégés are usually matched with a mentor by a program administrator or a mentoring committee.
- **Informal mentoring:** Takes place in organizations that develop a culture of mentoring but do not have formal mentoring program in place.
- **New-hire mentorships:** Newcomers to the organization are paired with more experienced people in order to obtain information,

good examples, and advice as they advance their careers.

- **High-potential mentoring:** Used to groom up-and-coming employees deemed to have the potential to move up into leadership roles.



Peterson

While types of mentorship programs differ, they are similar when it comes to the steps needed to create and develop effective mentorship programs: seek out people who are truly passionate about being a mentor and helping others succeed; identify or nominate the mentees for participation in the program; match the right mentor with the right mentee; and schedule meetings for all participants to connect and share their experiences.

In a global marketplace that is "on" 24/7, mentorships are very advantageous. Mentors are ready to guide and advise mentees as well as make their career path smoother and more successful. In fact, a study done by Sun Microsystems University Mentoring Program followed the career progress of mentees over a 5 year period and it showed that mentees were 20 percent more likely to get a raise sooner than other employees and were promoted five times more often.

Here's five main ways mentors help mentees get ahead faster:

**Knowledge and contacts:** A unique benefit that can only be gained from a good mentor is a combination of detailed industry knowledge and personal introductions to the mentor's contacts which may not otherwise be readily available to you.

**Insight:** A good mentor can arrange experiences which will enable you to get insight into an organization's culture and systems.

**Wisdom and learning from past experiences:** You can learn from hearing the lessons that your mentor has learned along the way ... both their successes and failures.

**Improved performance:** A good mentor will provide you with valuable feedback or make suggestions that will enable you to improve your skills or to experience personal growth.

**Talent development:** Where a mentor is an expert in a particular field, they'll often be able to spot your unique talents and make suggestions about how you can further develop and make the most of your talents and gifts.

There's high value in mentorship programs. The sharing of knowledge and expertise in this way, benefits all of the participants and helps build and strengthen an organization's competitive standing.

*David Peterson is a managing partner and the director of Direct Recruiters Inc.'s plastics division.*

# Programs for 2014 / 2015

Sept. 16-18 **TPE TOPCON**  
**Building New Bonds**  
*-- Hilton Fairlawn*

Oct. 13 **Nottingham-Spirk**  
 Industrial Design, Tour at 11:00 a.m.  
 Lunch buffet following at 1:00 p.m.  
*-- Cleveland\**

Nov. 10 **ColorMatrix / PolyOne Corp.**  
 Liquid Coloring of Plastics  
*-- Hilton Fairlawn – Akron\**

Dec. 8 **Holiday Celebration**  
*-- Wolf Creek Winery – Akron\**

Jan. 12 **PolyOne Corp.**  
 Innovation at PolyOne  
 Joint with ACCESS  
*-- Hilton Fairlawn – Akron\**

Feb. 9 **Sabco Innovative Materials**  
 Structural Foam Molding Processes  
 and Materials  
*-- Hilton Fairlawn – Akron\**

Mar. 9 **Thogus Molding, Tour**  
 Two part molding / Over molding  
*-- Avon Lake – Cleveland\**

Apr. 13 **Earth First Plastics** (plastics supplier)  
 Sustainability of Plastics  
*-- Hilton Fairlawn – Akron\**

May 18 **Akron Section Awards Night**  
*-- Hilton Fairlawn – Akron*

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

## Akron Section Board of Directors

Vivian Malpass 330-342-1120 T  
*Tek-Mark International* 330-342-1134 F  
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 vivian.malpass@tek-mark.com

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*Case Western Reserve Univ.*  
 Director  
 mwmensch@gmail.com



## Akron Section Society of Plastics Engineers Educational Foundation



1-15

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 three years that the foundation has been in existence, it has provided scholarships to over 245 young men and women totaling in excess of \$310,000 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 18, 2015.

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*







# **The Akron Section of the Society of Plastics Engineers (SPE)**

## **Education Committee**

Announces:

### **2015 Essay Contest**

First prize: \$100

Second prize: \$50

Sponsoring teacher: \$50

**Please see attached entry form:**

Entries due Feb 13, 2015

### **2015 Scholarship Awards**

From \$250 – \$3,000 awarded per student annually

For undergraduate students interested in  
polymer/plastics careers

Entries due March 13, 2015

**Contacts below or [www.akronspe.org](http://www.akronspe.org) for forms and rules**

### **For more information contact:**

Robert Wegelin	330-414-1498	<a href="mailto:robert.wegelin@att.net">robert.wegelin@att.net</a>
Dr. Kevin Cavicchi	330-972-8368	<a href="mailto:kac58@uakron.edu">kac58@uakron.edu</a>



Society of Plastics Engineers

## 2015 "Wonders of Plastics" Essay Contest

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The Society of Plastics Engineers (SPE) presents the 15th annual “Wonders of Plastics” essay contest. Open to all middle/junior high and high school students, the essay must be sponsored by a teacher and must meet certain requirements (see *Requirements for Submission*, p 2).

### **Topics to consider**

Advantages of plastics in food packaging  
Creative use of recycled plastics  
How plastics benefit humankind  
How plastics improve our lifestyle

Plastics in the environment  
Plastics usefulness in society  
What plastics has done for me  
Why the bad reputation of plastics is wrong

All essay submissions must be received at the SPE Section address, listed below, along with the entry form, by the announced deadline.

The winning entry for each participating local affiliation (Section) will be publicized in the Section’s Newsletter. In addition, the winning essay for each Section will be forwarded to SPE Headquarters for additional publicity and inclusion in the International Essay Contest. The International Essay Contest winner will receive a plaque and \$1000 honorarium. An additional \$1000 will be given to the winner’s school.

Entry forms may be copied, but each essay must be attached to a form; essays will not be returned and become the property of SPE. Essays may be co-authored.

### ***Submit your Essay to:***

**Akron SPE Section Essay Contest**

**Dr. Kevin Cavicchi**

**Address: 250 S. Forge St. Akron, OH 44325-0301**

**Tel: 330-972-8368 |**

**Email: kac58@uakron.edu**

**Entry must be received by February 13<sup>th</sup> 2015.**

## REQUIREMENTS FOR SUBMISSION

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### **General**

- Length: Between 500 and 1,000 words
- Format: Typewritten in English on 8 ½ x 11 paper (for North America), title to appear as heading on each page; no name on any page except the entry form that must accompany each essay; 1-inch margins minimum on all sides

### **Organization**

The organization structure of the essay will be “logical,” including the following considerations:

- Introduction: Optional
- Thesis: Several sentences
- Development: This section will be several paragraphs and will discuss the theme, analyze it, feature informal research about the theme, etc.
- Conclusion: This section will be at least one paragraph in which the author summarizes the ideas presented in the essay

### **Mechanics**

Spelling will be correct; syntax will be readable; punctuation will be conventional. Essay will be free of sentence fragments. Diction (word choice) will be appropriate to the subject and the writer’s understanding of the topic. Point of view will be appropriate to the topic/subject and will remain constant and consistent. A mixture of first and third person is acceptable if it is appropriate to the voice of the essay, however, the use of second person (“you” either stated directly or implied) will change the “voice” of the essay in a manner damaging to its effectiveness.

### **Judging**

A panel consisting of SPE members, an editor, and a science teacher will judge essays. In order to be a finalist, the essay must meet all the conditions as stated in the organization and mechanics above, with only incidental errors in mechanics. It must meet the assigned minimum length and must be submitted following the prescribed format.



## ENTRY FORM

Title: \_\_\_\_\_

By: \_\_\_\_\_  
Type or print

### *About the author(s)*

Name \_\_\_\_\_ age \_\_\_\_\_  
\_\_\_\_\_ age \_\_\_\_\_

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

Phone number(s)/e-mail(s) \_\_\_\_\_

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

Address \_\_\_\_\_  
\_\_\_\_\_

Phone/fax \_\_\_\_\_

Class \_\_\_\_\_

Teacher \_\_\_\_\_

Interest/hobbies \_\_\_\_\_

### *Submit your Essay to:*

**Akron SPE Section Essay Contest**

**Dr. Kevin Cavicchi**

**Address: 250 S. Forge St. Akron, OH 44325-0301**

**Tel: 330-972-8368 |**

**Email: kac58@uakron.edu**

**Entry must be received by February 13<sup>th</sup> 2015.**



# 2015 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 20<sup>th</sup>, 2015 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)



## AKRON SECTION SOCIETY OF PLASTICS ENGINEERS



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

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

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

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

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

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

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

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

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

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

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

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

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

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

**PLEASE MAIL THIS FORM TO ARRIVE BY APRIL 24, 2015 to:**  
**Bob Wegelin                      13206 Kaufman Ave. NW                      Hartville, OH 44632**  
**PHONE: 330-414-1498**

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

*Nominate a co-worker, employer, teacher, media person, leader, or any unsung hero who deserves this honor!*  
Honorees will be installed in the Plastics Hall of Honor at the Annual SPE awards night 2014  
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!*





## Who Can Help You Society of Plastics Engineers

13 Church Hill Road, Newtown, CT 06470

Phone: +1 203-775-0471

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

Academic Outreach	Gail Bristol	+1 203-740-5447	<a href="mailto:grbristol@4spe.org">grbristol@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>
Book Orders	Bonnie Kaczowski	+1 203-740-5428	<a href="mailto:bakaczowski@4spe.org">bakaczowski@4spe.org</a>
Change of address	Customer Relations	+1 203-775-0471	<a href="mailto:customerrelations@4spe.org">customerrelations@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	+1 203-740-5471	<a href="mailto:swojnicki@4spe.org">swojnicki@4spe.org</a>
Corporate Outreach	Gail Bristol	+1 203-740-5447	<a href="mailto:grbristol@4spe.org">grbristol@4spe.org</a>
Dues billing & payments	Customer Relations	+1 203-775-0471	<a href="mailto:customerrelations@4spe.org">customerrelations@4spe.org</a>
Employment Advertising		+1 888-491-8833 Ext. 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>
Marketing/Membership Director	Tom Conklin	+1 203-740-5453	<a href="mailto:tconklin@4spe.org">tconklin@4spe.org</a>
Membership Processing/Questions	Customer Relations	+1 203-775-0471	<a href="mailto:membership@4spe.org">membership@4spe.org</a>
Membership Programs/Retention	Sue Wojnicki	+1 203-740-5420	<a href="mailto:swojnicki@4spe.org">swojnicki@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	+1 908-748-6819	<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	Gail Bristol	+1 203-740-5447	<a href="mailto:grbristol@4spe.org">grbristol@4spe.org</a>
SPE Industry Resource Guide	Gail Bristol	+1 203-740-5447	<a href="mailto:grbristol@4spe.org">grbristol@4spe.org</a>
Student Chapters	Scott Marko	+1 203-740-5442	<a href="mailto:smarko@4spe.org">smarko@4spe.org</a>
Submission of editorial material for <i>Plastics Engineering</i> ; questions regarding SPE journals	Gail Bristol	+1 203-740-5447	<a href="mailto:grbristol@4spe.org">grbristol@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)	Scott Marko	+1 203-740-5442	<a href="mailto:smarko@4spe.org">smarko@4spe.org</a>
Webinar registration	Bonnie Kaczowski	+1 203-740-5428	<a href="mailto:membership@4spe.org">membership@4spe.org</a>
Website Administration	Pedro Matos	+1 203-740-5438	<a href="mailto:pmatoss@4spe.org">pmatoss@4spe.org</a>

# SPE MEMBER BENEFITS GUIDE



FREE TO MEMBERS

SAVINGS 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>	
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	<a href="http://www.4careersolutions.org">www.4careersolutions.org</a>
	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

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### Website, E-Blast & Newsletter Advertising

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#### Insertion Order 2014-15

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 56<sup>th</sup> year of the Akron SPE Section and rates are for entire season, September 2014 – Summer 2015. **Payable in Advance. Please let me know if you need an invoice.**

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

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

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

(please X)	Ad Size	Dimensions	Price for year
	Business Card	One column by 2" high	\$100
	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

13 Church Hill Road  
Newtown, CT 06470 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 30. 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  
we may apply payment to the correct person.

**USD:** WELLS FARGO: 108 Federal Road, Danbury, CT 06811 USA  
ACCT #2040607562129 ABA #121000248 SWIFT CODE #WFBUS66

**EURO:** HSBC Bank: 9 Penn Road, Beaconsfield, Buckinghamshire HP9 2PT UNITED KINGDOM  
ACCT #70841841 IBAN #GB03MIDL40051570841841 SWIFT CODE #MIDLGB22 SORT CODE #400515

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 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.

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

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

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

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

- |   |   |
|---|---|
| <input type="checkbox"/> Advanced Energy - 024                  | <input type="checkbox"/> Non-Halogen Flame Retardant Tech. - 030    |
| <input type="checkbox"/> Alloys and Blends - 010                | <input type="checkbox"/> Plastic Pipe & Fittings - 021              |
| <input type="checkbox"/> Applied Rheology - 013                 | <input type="checkbox"/> Plastics Educators - 018                   |
| <input type="checkbox"/> Bioplastics - 028                      | <input type="checkbox"/> Plastic in Building and Construction - 027 |
| <input type="checkbox"/> Composites Europe - 026                | <input type="checkbox"/> Process Monitoring & Control - 016         |
| <input type="checkbox"/> Extrusion Europe - 025                 | <input type="checkbox"/> Quality/Continuous Improvement - 005       |
| <input type="checkbox"/> Failure Analysis & Prevention - 002    | <input type="checkbox"/> Radiation Processing of Polymers - 019     |
| <input type="checkbox"/> Joining of Plastics & Composites - 012 | <input type="checkbox"/> Rapid Design, Eng. & Mold Making - 020     |
| <input type="checkbox"/> Marketing & Management - 029           | <input type="checkbox"/> Thermoplastic Elastomers - 006             |
| <input type="checkbox"/> Nano/Micro Molding - 023               |   |

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

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