The Newsletter of the Akron Section of the Society of Plastics Engineers

Our 56th Year of Education and Service to the Plastics Industry

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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  or 330-490-4743

Coming Up:
➢ October 13 – Nottingham-Spirk in Cleveland
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 11th 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
### Akron Section SPE Past Presidents

<table>
<thead>
<tr>
<th>Year</th>
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<td>1984-85</td>
<td>Anthony F. Dean, Jr.</td>
<td>2012-2013</td>
<td>Kevin Malpass</td>
<td>1985-86</td>
<td>Gene Buser</td>
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<tr>
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<td>2013-2014</td>
<td>Dan Jones</td>
<td>1986-87</td>
<td>Harry J. Barth</td>
</tr>
<tr>
<td>1986-87</td>
<td>Harry J. Barth</td>
<td>2014-2015</td>
<td>Vivian Malpass</td>
<td></td>
<td></td>
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</tbody>
</table>
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!
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

Visit 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.
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 Nordonia, 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.
--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 11th TPE TopCon in Akron, Ohio from Tuesday, September 16 through Thursday, September 18, 2014.
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

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

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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 ACESS
-- Hilton Fairlawn – Akron*

Feb. 9 Sabic 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
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President/Chair, Technical Program, TopCon 2014 vivian.malpass@tek-mark.com

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Treasurer, House

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Diebold, Inc. 330-490-4788 F
Councilor, Prior Past-President kevin.malpass@diebold.com

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Past-President daniel.h.jones@sbcglobal.net

TBD 330-734-7186 T
Student - U Akron Polymer Engineering tl43@zips.uakron.edu
Director, Student Chapter SPE Liaison

Kevin Cavicchi 330-972-8368 T
U Akron Polymer Engineering 330-258-2339 F
Director, Student Chapter Advisor, kac58@uakron.edu
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Director, Education Foundation, House

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Website Manager, Newsletter Editor/Advertising

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Director joe@mattingly.us

Mark Holtman 330-972-6008 T
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Director holtman@uakron.edu

Martin Mensch 570-441-8951 T
Case Western Reserve Univ. mwmsch@gmail.com
Director
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 for forms and rules

For more information contact:
Robert Wegelin  330-414-1498  robert.wegelin@att.net
Dr. Kevin Cavicchi  330-972-8368  kac58@uakron.edu
Society of Plastics Engineers

2015 "Wonders of Plastics" Essay Contest

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 13th 2015.
REQUIREMENTS FOR SUBMISSION

**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: ________________________________

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 13th 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 20th, 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 kae58@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

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!
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<thead>
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<th>Department</th>
<th>Contact Person</th>
<th>Phone Number</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Outreach</td>
<td>Gail Bristol</td>
<td>+1 203-740-5447</td>
<td><a href="mailto:grbristol@4spe.org">grbristol@4spe.org</a></td>
</tr>
<tr>
<td>Annual Awards</td>
<td>Kathy Schacht</td>
<td>+1 203-740-5430</td>
<td><a href="mailto:kschacht@4spe.org">kschacht@4spe.org</a></td>
</tr>
<tr>
<td>ANTEC Booth Sales</td>
<td>Chuck Herrholtz</td>
<td>+1 770-576-4974</td>
<td><a href="mailto:cherrholtz@naylor.com">cherrholtz@naylor.com</a></td>
</tr>
<tr>
<td>ANTEC Conference Management</td>
<td>Barbara Spain</td>
<td>+1 203-740-5418</td>
<td><a href="mailto:bspain@4spe.org">bspain@4spe.org</a></td>
</tr>
<tr>
<td>ANTEC Paper Submission</td>
<td>Barbara Spain</td>
<td>+1 203-740-5418</td>
<td><a href="mailto:bspain@4spe.org">bspain@4spe.org</a></td>
</tr>
<tr>
<td>ANTEC Conference Sponsorship</td>
<td>Barbara Spain</td>
<td>+1 203-740-5418</td>
<td><a href="mailto:bspain@4spe.org">bspain@4spe.org</a></td>
</tr>
<tr>
<td>Book Orders</td>
<td>Bonnie Kaczowski</td>
<td>+1 203-740-5428</td>
<td><a href="mailto:b.kaczowski@4spe.org">b.kaczowski@4spe.org</a></td>
</tr>
<tr>
<td>Change of address</td>
<td>Customer Relations</td>
<td>+1 203-775-0471</td>
<td><a href="mailto:customerrelations@4spe.org">customerrelations@4spe.org</a></td>
</tr>
<tr>
<td>Communications Excellence Award</td>
<td>Kathy Schacht</td>
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<td><a href="mailto:kschacht@4spe.org">kschacht@4spe.org</a></td>
</tr>
<tr>
<td>Conference Sponsorship (TopCons)</td>
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<td>+1 203-740-5471</td>
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</tr>
<tr>
<td>Corporate Outreach</td>
<td>Gail Bristol</td>
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<td><a href="mailto:g.bristol@4spe.org">g.bristol@4spe.org</a></td>
</tr>
<tr>
<td>Dues billing &amp; payments</td>
<td>Customer Relations</td>
<td>+1 203-775-0471</td>
<td><a href="mailto:customerrelations@4spe.org">customerrelations@4spe.org</a></td>
</tr>
<tr>
<td>Employment Advertising</td>
<td></td>
<td>+1 888-491-8833 Ext. 1063</td>
<td><a href="mailto:customerservice+64639@support.boxwoodtech.com">customerservice+64639@support.boxwoodtech.com</a></td>
</tr>
<tr>
<td>Fellow &amp; Honored Service Nominations</td>
<td>Kathy Schacht</td>
<td>+1 203-740-5430</td>
<td><a href="mailto:kschacht@4spe.org">kschacht@4spe.org</a></td>
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<td>Governance Liaison</td>
<td>Kathy Schacht</td>
<td>+1 203-740-5430</td>
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</tr>
<tr>
<td>Marketing/Membership Director</td>
<td>Tom Conklin</td>
<td>+1 203-740-5453</td>
<td><a href="mailto:t_conklin@4spe.org">t_conklin@4spe.org</a></td>
</tr>
<tr>
<td>Membership Processing/Questions</td>
<td>Customer Relations</td>
<td>+1 203-775-0471</td>
<td><a href="mailto:membership@4spe.org">membership@4spe.org</a></td>
</tr>
<tr>
<td>Membership Programs/Retention</td>
<td>Sue Wojnicki</td>
<td>+1 203-740-5420</td>
<td><a href="mailto:swojnicki@4spe.org">swojnicki@4spe.org</a></td>
</tr>
<tr>
<td>Pinnacle Award</td>
<td>Kathy Schacht</td>
<td>+1 203-740-5430</td>
<td><a href="mailto:kschacht@4spe.org">kschacht@4spe.org</a></td>
</tr>
<tr>
<td>Plastics Engineering magazine advertising</td>
<td>Roland Espinosa</td>
<td>+1 908-748-6819</td>
<td><a href="mailto:respinosa@wiley.com">respinosa@wiley.com</a></td>
</tr>
<tr>
<td>Sections, Divisions &amp; Special Interest Group Administration</td>
<td>Kathy Schacht</td>
<td>+1 203-740-5430</td>
<td><a href="mailto:kschacht@4spe.org">kschacht@4spe.org</a></td>
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<tr>
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</tr>
<tr>
<td>SPE Foundation / Scholarships &amp; Grants</td>
<td>Gail Bristol</td>
<td>+1 203-740-5447</td>
<td><a href="mailto:grbristol@4spe.org">grbristol@4spe.org</a></td>
</tr>
<tr>
<td>SPE Industry Resource Guide</td>
<td>Gail Bristol</td>
<td>+1 203-740-5447</td>
<td><a href="mailto:grbristol@4spe.org">grbristol@4spe.org</a></td>
</tr>
<tr>
<td>Student Chapters</td>
<td>Scott Marko</td>
<td>+1 203-740-5442</td>
<td><a href="mailto:smarko@4spe.org">smarko@4spe.org</a></td>
</tr>
<tr>
<td>Submission of editorial material for <em>Plastics Engineering</em>; questions regarding SPE journals</td>
<td>Gail Bristol</td>
<td>+1 203-740-5447</td>
<td><a href="mailto:grbristol@4spe.org">grbristol@4spe.org</a></td>
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<tr>
<td>Topical Conference Planning</td>
<td>Sue Wojnicki</td>
<td>+1 203-740-5420</td>
<td><a href="mailto:swojnicki@4spe.org">swojnicki@4spe.org</a></td>
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<tr>
<td>Topical Conference Registration</td>
<td>Sue Wojnicki</td>
<td>+1 203-740-5420</td>
<td><a href="mailto:swojnicki@4spe.org">swojnicki@4spe.org</a></td>
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<tr>
<td>Webinars (non-registration)</td>
<td>Scott Marko</td>
<td>+1 203-740-5442</td>
<td><a href="mailto:smarko@4spe.org">smarko@4spe.org</a></td>
</tr>
<tr>
<td>Webinar registration</td>
<td>Bonnie Kaczowski</td>
<td>+1 203-740-5428</td>
<td><a href="mailto:membership@4spe.org">membership@4spe.org</a></td>
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<tr>
<td>Website Administration</td>
<td>Pedro Matos</td>
<td>+1 203-740-5438</td>
<td><a href="mailto:pmatos@4spe.org">pmatos@4spe.org</a></td>
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### SPE MEMBER BENEFITS GUIDE

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<tr>
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<td><strong>NETWORKING</strong></td>
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<tr>
<td>Business Networking Resources</td>
<td>Connect to industry experts</td>
<td><a href="http://www.4spe.org/cc">www.4spe.org/cc</a></td>
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<tr>
<td>Local Section Affiliation</td>
<td>Network with members locally in over 75 countries</td>
<td><a href="http://www.4spe.org/communities/sections">www.4spe.org/communities/sections</a></td>
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<tr>
<td>Online Membership Directory</td>
<td>Unlimited access provides the link to fellow members</td>
<td><a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a></td>
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<td>Technical Affiliation</td>
<td>24 Divisions represent major industry specialties</td>
<td><a href="http://www.4spe.org/communities/divisions">www.4spe.org/communities/divisions</a></td>
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<td><strong>MEDIA</strong></td>
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<td>Newsletters</td>
<td>News &amp; events about specific local &amp; technical affiliations</td>
<td><a href="http://www.4spe.org/communities/newsletters">www.4spe.org/communities/newsletters</a></td>
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<td><em>Plastics Engineering (PE)</em></td>
<td>The official monthly publication of SPE</td>
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<td>SPE Online</td>
<td>Your 24/7 source for Society information</td>
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<td>Tech Focus</td>
<td>Monthly electronic newsletter offering society &amp; industry news</td>
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<td>Online Technical Library</td>
<td>Searchable database of technical articles &amp; conference papers</td>
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<td>Message Forums</td>
<td>Online question &amp; answer forum</td>
<td><a href="http://www.askppl.com">www.askppl.com</a></td>
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<td>Special Interest Groups</td>
<td>Emerging areas not currently covered by technical Divisions</td>
<td><a href="http://www.4spe.org/communities/divisions/#sig">www.4spe.org/communities/divisions/#sig</a></td>
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<td>SPE Journals</td>
<td>Read abstracts from our three technical journals</td>
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<td><strong>CAREER</strong></td>
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<td>American Management Association Awards</td>
<td>Through a partner alliance, access AMA's educational resources</td>
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<td>Leadership Development</td>
<td>Outstanding contributions recognized</td>
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<td>Online Career Development</td>
<td>The opportunity to improve professionally &amp; personally</td>
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<td>Professional Recognition</td>
<td>Career enrichment, job openings &amp; resume database</td>
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<td>Scholarships &amp; Grants</td>
<td>Distinguished grades of membership recognize accomplishments</td>
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<td>Student Benefits</td>
<td>Over 100 Student Chapters in nine countries</td>
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<td>Unemployment Services</td>
<td>Benefits for the unemployed member</td>
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<td><strong>TRAINING</strong></td>
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<td>ANTEC</td>
<td>Largest annual technical conference in the industry</td>
<td><a href="http://www.antec.ws">www.antec.ws</a></td>
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<td>Career Coaching</td>
<td>For-a-fee services for career enhancement</td>
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<td>e-Learning Center</td>
<td>Online self-paced courses, live &amp; archived presentations</td>
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<td>In-plant Training</td>
<td>Seminar instruction at member's company</td>
<td><a href="http://www.4spe.org/training/seminars">www.4spe.org/training/seminars</a></td>
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<td>Seminars</td>
<td>Expert instruction on current plastics topics</td>
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<tr>
<td>Technical Journals</td>
<td>Subscribe to peer-reviewed articles. Available online and in print</td>
<td><a href="http://www.4spe.org/pub">www.4spe.org/pub</a></td>
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<td>Topical Conferences</td>
<td>Targeted at specific technical &amp; management disciplines</td>
<td><a href="http://www.4spe.org/conf">www.4spe.org/conf</a></td>
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<td>Training Products</td>
<td>Developed by SPE &amp; other leading providers. Some Spanish titles</td>
<td><a href="http://www.4spe.org/training/products">www.4spe.org/training/products</a></td>
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<td>Career Transition Services</td>
<td>Outplacement program offered to member's company</td>
<td><a href="http://www.4careersolutions.org">www.4careersolutions.org</a></td>
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<td>Group Health Insurance</td>
<td>Health, disability &amp; life insurance at attractive group rates</td>
<td><a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a></td>
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<td>Online Job Posting</td>
<td>A source for companies to find qualified staff</td>
<td><a href="http://www.4careersolutions.org">www.4careersolutions.org</a></td>
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<td>SPE BookStore</td>
<td>Discounts on 250+ reference books &amp; training products</td>
<td><a href="http://www.4spe.org/training/products">www.4spe.org/training/products</a></td>
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<td>SPE/MBNA Credit Card</td>
<td>SPE Platinum Plus Mastercard® (US &amp; Canada only)</td>
<td><a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a></td>
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**WEB SITE 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 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 56th 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
If you don’t include your email address, we have no way of sending you each issue!

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<th>Ad Size</th>
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<td>Triple</td>
<td>One column, 4 to 6” high</td>
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<td>Half Page</td>
<td>One column, 10” high</td>
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The cost on a per issue basis will be calculated by dividing the “Year” price by 10

Contact Person: 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
## Contact Information

Please print clearly

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<thead>
<tr>
<th>First Name (Given Name)</th>
<th>Middle Name</th>
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Preferred Email (This will be your member login and is required for usage of online member services)

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### Membership Types

- **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. [ ]
3. [ ]
4. [ ]

Additional groups may be added for $10 each. Add special interest groups at no change.

1. [ ]
2. [ ]
3. [ ]
4. [ ]

Dues include a 1-year subscription to Plastics Engineering magazine-$30 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 $________
- □ Visa □ Mastercard □ American Express □ Other
- Expiration Date: __________
- Account Number: __________
- CIN: __________
- Last 3 digits from back of MC/Visa __________
- 4 digits from 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

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<tr>
<th>USD: WELLS FARGO 106 Federal Road, Danbury, CT 06810 USA</th>
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<tr>
<td>ACH: #12000248 SWIFT CODE #WFBKHSW1</td>
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<td>EURO: HSBC Bank 106 Federal Road, Danbury, CT 06810 USA</td>
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<td>ACH: #12000248 SWIFT CODE #WFBKHSW1</td>
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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 __________

<table>
<thead>
<tr>
<th>Date</th>
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### Special Interest Groups

- **Advanced Energy** - 024
- **Alloys and Blends** - 010
- **Applied Rheology** - 013
- **Bioplastics** - 028
- **Composites Europe** - 026
- **Extrusion Europe** - 025
- **Failure Analysis & Prevention** - 002
- **Joining of Plastics & Composites** - 012
- **Marketing & Management** - 029
- **Nano/Micro Molding** - 023
- **Non-Halogen Flame Retardant Tech** - 030
- **Plastic Pipe & Fittings** - 021
- **Plastics Educators** - 018
- **Polyesters** - 028
- **Process Mapping & Control** - 016
- **Quality/Continuous Improvement** - 005
- **Radiation Processing of Polymers** - 019
- **Thermoplastic Elastomers** - 006

Recommended by (optional) ________ ID: ________ INTRO-1L