

Polymer Valley News

The Newsletter of the Akron Section of the Society of Plastics Engineers
Our 58th Year of Education and Service to the Plastics Industry

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Costs, Schedules, Reservations

Member and/or guest	\$25
Retired	\$20
Student	\$5
New Member - first meeting	Free
Social Time	5:30 p.m.
Dinner	6:00 p.m.
Program	Following dinner

Reservations must be in by noon on Friday, Oct. 7 and can be made to Gary Taylor at 330-419-4380 or akronspe1@gmail.com

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

Technical Meeting

Monday, October 10, 2016
5:30 p.m.

Vadxx Energy
Hilton Inn
3180 West Market Street
Akron, Ohio 44333

By James Garrett, CEO

Vadxx recycles waste plastic and produces high value EcoFuels and petrochemicals (diesel, naphtha, etc.). The company has built the first continuous, commercial waste plastic to fuel facility in the nation in Akron, OH. Commissioning runs were successful in July 2016. There is enough waste plastic feedstock being disposed of in landfill at cost, just in the US, for 1500 Vadxx plants (each plant takes in 25,000 tons/yr plastic and produces 125,000 bbls/yr).



Coming Up:

- Nov. 14 – Reuther Mold
- Dec. 5 – Holiday Party

See page 3 for
Mr. Garrett biography

Oct. 2016, Page 1



President's Message

Greetings, Akron SPE.

Our next meeting on October 10 at the Hilton Hotel in Fairlawn will be a fascinating follow up on a new start up business. Many of you will remember that we first learned of Vadxx several years ago when they presented their concept to us at an Akron SPE section meeting. Now they are up and running with a \$20 million facility in Akron. Learn how they developed this concept of recycling waste plastic into pure diesel fuel and, maybe more importantly, how they made it happen. This is not just an interesting recycling story, but represents a whole new concept of resource utilization. Come and see how this interesting idea became a reality and learn of the resources that could be available to develop other interesting ideas into reality.

I hope to see many of you at this meeting. Our monthly meetings are a great way to stay in touch with local developments and to meet old friends and make new ones. Please take time to join us. You will not be disappointed.

Best Regards,
Robert Weiler,
President 2016-2017 Akron Section of SPE
330-283-9024 rweiler@amfine.com



*Incoming President
2016/2017 Year,
Robert Weiler*

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Speaker Biography

James W. Garrett, CEO, Vadxx Energy

Mr. Garrett has served in various financial, operating and engineering management roles with energy and technology companies for 30 years. These have included executive officer roles with technology start-ups to Fortune 200 companies. Within the energy industry, he has worked with Marathon Oil Company, Consolidated Natural Gas (Dominion), American Gas Association and Energy West. Mr. Garrett has raised substantial capital from equity centers throughout the world and has completed numerous public equity offerings. Professional credentials include Registered Professional Engineer. Mr. Garrett has a BS Engineering and MBA, both from Case Western Reserve University. Mr. Garrett has served on numerous company and non-profit boards.



Presentation continued...

Vadxx's business plan is to achieve operating break-even of \$20/bbl. This is a lower all in oil production cost than almost all traditional "drill bit and refining" fuel production. Assuming \$50 long-term oil prices, the returns for future Vadxx units are expected to be exceptional. Vadxx provides far more economically attractive EcoFuel production with better environmental attributes than most traditional oil production. The Vadxx solution helps minimize a growing world concern of waste plastic polluting our oceans and waterways. The company is presently in discussions with large international corporations and financial institutions to implement Vadxx waste plastic to EcoFuel units worldwide.

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Technical Assistance

For technical polymer questions please use the SPE International forum "The Chain"

For local questions please contact the officers at akronspeweb@gmail.com

Directions to Akron Hilton, 3180 West Market Street, Akron, Ohio 44333

From Cleveland Hopkins Airport

Take 480 East to I-77 South. Exit at #138 to Fairlawn. Turn right on Ghent Rd. Follow south for two miles. The Hilton is at the intersection of West Market Street (Rt. 18) and Ghent Road. Turn Right on West Market Street. Hotel is located on the left.

Driving South on I-77

Exit at #138 to Fairlawn. Turn right on Ghent Rd. Follow south for two miles. The Hilton is at the intersection of West Market Street (Rt. 18) and Ghent Road. Turn Right on West Market Street. Hotel is located on the left.

Driving North on I-77 (From Akron/Canton Airport)

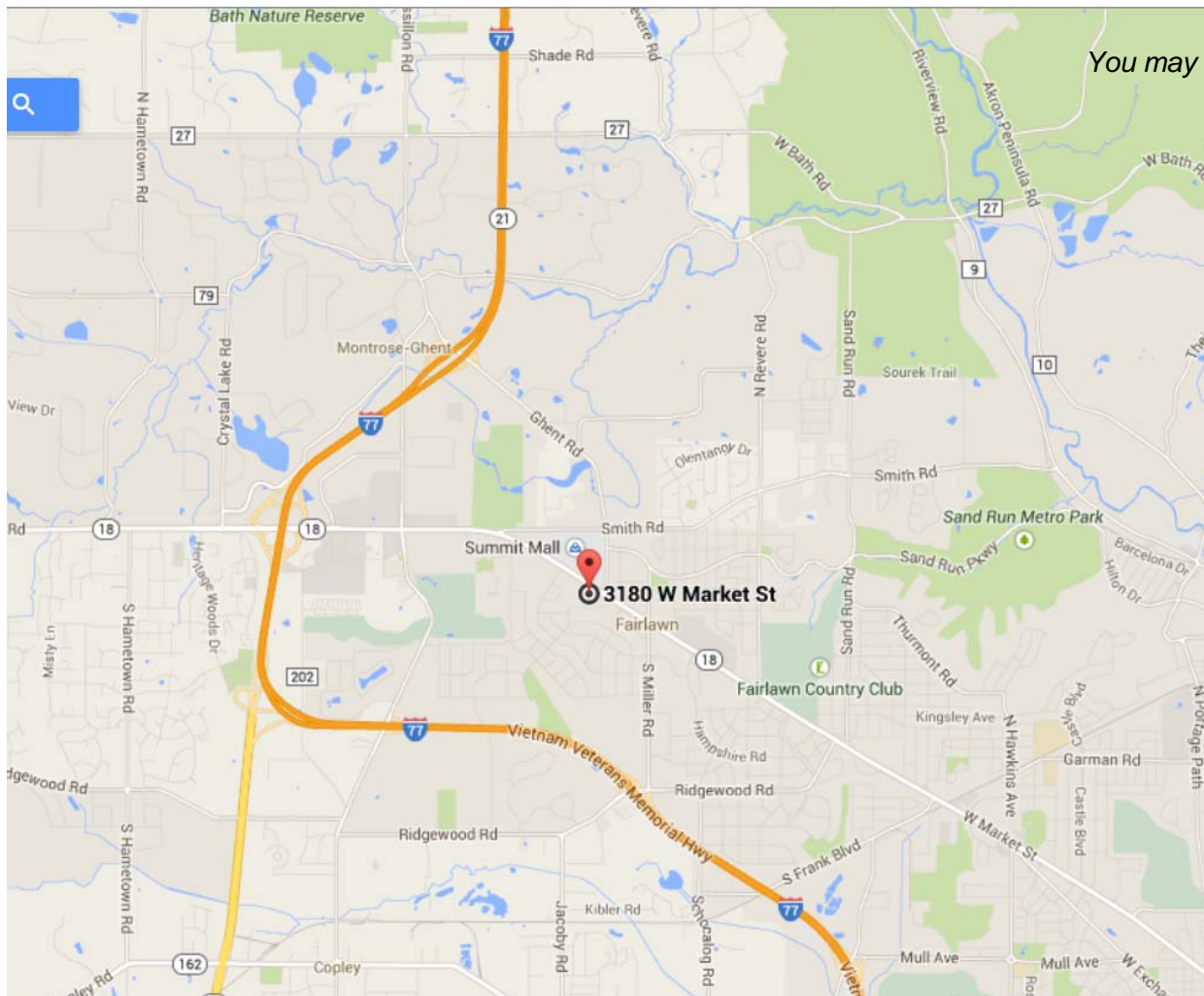
Exit at #133 – Ridgewood/Miller Rd. Go straight through the exit for approximately 2 miles. Turn left on Market Street (2 blocks). The Hotel is located on the left

Driving North or South on I-71

Take Route 18 – Medina Exit #218. Drive east on route 18 approximately 10 miles. The Hilton will be located on the right side opposite the Summit Mall

Ohio Turnpike

Take the Cleveland/Akron I-77 Exit #173 off the Ohio Turnpike. Take I-77 south to exit #138 to Fairlawn. Turn right on Ghent Rd. Follow south for two miles. The Hilton is at the intersection of West Market Street (Rt. 18) and Ghent Road. Turn Right on West Market Street. Hotel is located on the left.



You may zoom in

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Picture your ad here

And also on www.akronspe.org

Membership report – July 2016

Akron Section has 280 active members. Three new members added in July, all of which were Professional memberships.

Month Active - Added

Jan	302	1
Feb	296	2
Mar	313	22
Apr	--	1
May	276	4
Jun	278	4
Jul	280	3

Say "hello" to:

Kyle Frank
Michelman, Inc.

Gabriel Friedman
Plastic Process Equipment, Inc.

Duane Morris
Plastic Process Equipment, Inc.

September 2016 Meeting Review

Forty members of the SPE Cleveland and Akon sections gathered at The Technology House (TTH) to tour the facility and hear the presentation of the Carbon CLIP process to make functional solid plastic parts from various materials. The materials are liquid when added to the machine. The durometer can be varied from flexible for seal type parts to structure solid parts. See the TTH web site to get details on the materials used. The process was demonstrated and explained as part of the tour and a presentation by Mark Horner following the tour. TTH has several processes shown on the tour used to create 3D solid parts used for sales demonstration and functional testing. TTH is a beta center for the Carbon Corporation that is located in California. The objective is to use this process to produce small production quantities. The physical properties of the parts are equal to the injected molded parts. Photos shown were taken during the presentation by Mark Horner. The photos show the size and type of parts that have been produced by TTH for various customers.



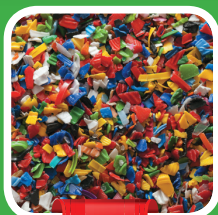
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(co-exhibiting with VELOX GmbH)
Please visit us at Hall 6 / A23

Minutes of Board Meeting – August 29, 2016

Call to Order: 5:30 PM

Present: Bob Weiler, Tom McQuaide, Keith Pelfrey, Marcos Pantoja, David Schultz, Sahil Gupta, John Fellenstein, Nicole Brostowitz, including New PESO representatives - Tzu Yu Lai and Anisa Cobaj

Absent: Kevin Cavicchi, Gary Taylor, Viv Malpass, Kevin Malpass, Tony Dean, Joe Mattingly and Bob Wegelin

Review and approve Minutes of June 6 BOD meeting---Dave Schultz

President- Bob Weiler welcomed all for a new Year and as well our New PESO Representatives and we carried out Introductions/Background of all current BOD and Committee Members.

Minutes from June 6, 2016 were reviewed and approved.

Officers and Committee Members were reviewed and changes made- Tony Dean will make changes and forwarded to BOD.

Bob Weiler noted he will review present Goals and provide BOD with an updated version for 2016-17 for discussions and development of new Goals.

Committee Reports:

Technical Program Review—Bob Weiler

Bob Weiler - Past Program Chair reviewed the current Program for the year and informed he felt it was 75% complete and will continue to fine tune and confirm topics and locations.

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

House—Gary Taylor/Bob Wegelin

All venues are set for this year- Akron Section developed at Hilton and Tavern of Richfield- Holiday Party plus Firestone for Awards Banquet Note: Cleveland Section meetings set at Tours and one at Hilton.

Program Committee—Tom McQuaide

Tom will begin work along with new Committee members potentially to develop next year's programs using results from survey from this past year and options noted for this year.

Membership--Sahil Gupta

Sahil reports that current membership is at 280. He as well developed a list of persons not renewed- Lapsing members to-date, plans to potentially contact to determine status. Sahil reviewed latest results of Survey and informed that a couple of surveys have been completed recently. Sahil will request Jenny send out for one last time as year begins.

Reminder to forward Welcome Letter to new Members and to check Jenny for potential updated Member list

Treasurer--Gary Taylor

Gary was not present but he has supplied us with baseline for start of new SPE year on monies we have in the Account.

Councilor--Kevin Malpass

Kevin not present but he did have a Proxy set up for recent Council meeting located in Canada- report to follow in Oct.

Minutes of Board Meeting – August 29 (cont.)

Student Chapter—Marcos Pantoja with Tzu Yu Lai and Anisa Cobai

Marcos will mentor the new PESO representatives and review items that Student Chapter usually does including new ideas and increased involvement.

Fall Picnic scheduled for Friday Sept 9 at 4:30 PM- Munroe Falls Park- BOD Members welcome.

Public Interest/Website/Advertising—Tony Dean

Tony provided a report covering all up-dates on posting of meetings in local newspapers, along with in PE Magazine, request new advertisers and thanked current four advertisers for 2016-17

BOD Suggested that we determine potential interest of Vinyltec advertisers from past year to continue for upcoming year

Need to review potential Education oriented article.

Website Improvement/utilization—Tony Dean/Nicole Brostowitz

Nicole reports based on website activity and responses that The Chain is starting to develop a real presence with different groups and different subjects- she has encouraged use.

Notes as well changes ongoing re ANTEC format and NPE-SPI plans for future that are being discussed.

BOD suggests we consider placing Student postings for job interest as we most recently last year started posting Industrial positions.

Newsletter--Utilization/Advertisers—Tony Dean

Awards—Keith Pelfrey

Keith reports that he will handle development for Awards for this year including International recognition , local and Section . We have noted that Section Awards- Pinnacle and Communications maybe changing and will need to confirm as year proceeds- will await Councilor up-date

Education Committee—John Fellenstein

John reports that all is set as we start new year --Scholarships potentially will be sent sooner to a more diverse group of students with aspirations in the STEM arena as engineers dealing with polymers and various other materials along with physics majors so we can gather more students Tom McQuaide will continue to help and provide input along with Kevin Cavicchi.

John will look into PEAC- electronic picture frames and get up-dated status- plan to add information for meetings for PESO students.

John has noted in spring 2017 a number of Science Fairs for students including; Science Olympiad- March 11, Science- District 5- March 18 and Akron Public Schools- TBD plus interest potential in Rubber Band Contest-engineering aspects.

Education Foundation—Bob Wegelin

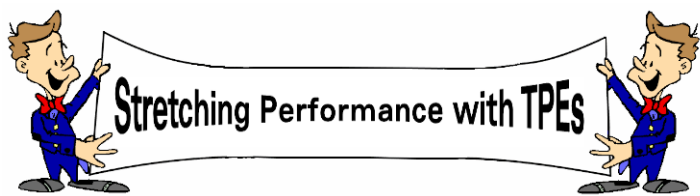
New Business:

Teacher Grant –ACCESS: David Schultz- President Elect for ACCESS has requested BOD to review a particular proposal that has plastic ties reference recycling for funding this year- sent under separate cover Teacher proposal from NIHF STEM High School in Akron for review.

BOD to review and respond at next meeting Oct 3 or possibly by e-mail if need input at an earlier date.

Adjournment

Meeting was adjourned at 7:15 p.m. Next BOD Meeting October 3 at U of A Polymer Engineering.



September 21 - 22, 2016
Akron, Ohio



Thermoplastic Elastomers 12th Topical Conference™

*TPE TOPCON Co-Chairmen,
Vivian Malpass (left) and Bill Blasius*

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Conference



Poster Session



Poster Session



Wine & Cheese Reception



Technical Program Chairmen
Mark Berard (left) and Bill Blasius



Question and Answer Time

Exhibits



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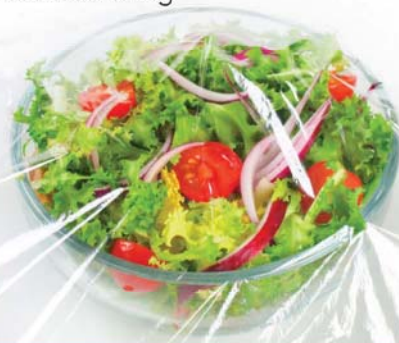
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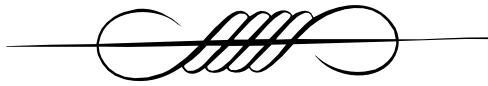
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1962-1963	Dickson L. Stoker, III	1991-1992	Spencer Kreiser
1963-1964	Edward L. Hillier	1992-1993	Robert C. Wegelin
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1965-1966	John R. Russell	1994-1995	Wayne Decamp
1966-1967	Clyde H. Jones	1995-1996	Melanie Stewart
1967-1968	Alan Corry, Jr.	1996-1997	Kevin Hershfield
1968-1969	Bernard M. Saffian	1997-1998	David Schultz
1969-1970	Harold R. Schick	1998-1999	John Raab
1970-1971	Robert G. Hills	1999-2000	Gary Taylor
1971-1972	John J. Satterfield	2000-2001	Kevin Malpass
1972-1973	Alexis M. Gross	2001-2002	Kenneth L. Sharp
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1983-1984	Robert G. Hills	2012-2013	Kevin Malpass
1984-1985	Anthony F. Dean, Jr.	2013-2014	Dan Jones
1985-1986	Gene Buser	2014-2015	Vivian Malpass
1986-1987	Harry J. Barth	2015-2016	Keith Pelfrey
1987-1988	Judith A. Fallon	2016-2017	Robert Weiler

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

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

**Contact anyone currently
on the board (see page 17)**

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

**The Akron SPE Section
is happy to post local
job openings in the
plastics industry for 90
days for any member.
Please contact a board
member if you are
interesting in posting.**

Programs for 2016 / 2017

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

Sept. 20-22 **12th TPE TopCon**
Stretching Performance with TPEs
-- Hilton Fairlawn – Akron*

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

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

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

Jan. 9 **A. Schulman, Inc.**
-- Hilton Fairlawn – Joint ACCESS*

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

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

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

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

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

Akron Section Board of Directors

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Amfine Chemical Corp. rweiler@amfine.com
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A. Schulman 330-630-3349 F
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Director, Student Chapter SPE Liaison

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U Akron Polymer Engineering 330-258-2339 F
Director kac58@uakron.edu



Akron Section Society of Plastics Engineers Educational Foundation



1-16

The Akron Society of Plastics Engineers Educational Foundation operates exclusively for the benefit of and to carry out the purposes of the Akron Section of the Society of Plastics Engineers, which is to promote scientific and engineering knowledge relating to plastics by making educational scholarship grants to deserving students in the field of plastics engineering and related subjects. The Organization is supported primarily by contributions from the Akron Society of Plastics Engineers, the Society's individual members and corporations like yours affiliated with the polymer industry.

Since the inception in 1988, the Akron Society of Plastics Engineers Educational Foundation has grown to its current position through the hard work of many volunteers and the generosity of the local business community. Over the twenty-seven years that the foundation has been in existence, it has provided scholarships to over 250 young men and women totaling in excess of \$320,000 to assist them in furthering their careers in the polymer industry.

Our goal is to continue to grow the assets of the Foundation in order to increase the number of scholarships awarded, as well as the size of the awards, and to do so in perpetuity. In doing this, we hope to be able to contribute to the supply of well-trained individuals to support the growth of the polymer industry in the Northeast Ohio area today and well into the future.

When the Foundation began its fund raising activities in 1988, we offered those companies who contributed \$30,000 a scholarship in their name. To date we have five named scholarships, Newell/Rubbermaid, Goodyear, Ken Sharp Memorial and Jim Steiner Memorial scholarships. We are asking your company to help with the growth of well-trained individuals in the local polymer industry. Please print this page, fill out the information and mail it to Bob Wegelin, 13206 Kaufman Ave. NW Hartville, OH 44632.

Akron SPE Scholarship Donation Commitment

- ☐ \$30,000 lump sum. _____
- ☐ \$10,000/yr. next 3yrs. _____
- ☐ \$5,000/yr. next 6 yrs. _____
- ☐ Other: _____

Company name: _____

Contact person: _____

Ph. # or email: _____

Our named scholarship donors are recognized at the annual Awards Night of the Akron Society of Plastics Engineers. We invite you to present your tax deductible donation at our Awards Night, which is scheduled on May 9, 2016.

We are looking forward to your support of this very worthwhile cause by your fine company. Please contact me at (330) 414-1498 with any questions. Thank you for your consideration.

Sincerely,
Bob Wegelin, Foundation Chair
Akron Section Society of Plastics Engineers, Educational Foundation





Who Can Help You Society of Plastics Engineers

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

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Mobile App – SPE Events	Scott Marko	+1 203.740.5442	smarko@4spe.org
Pinnacle Award	Kathy Schacht	+1 203.740.5430	kschacht@4spe.org
<i>Plastics Engineering</i> magazine advertising	Roland Espinosa	+1 201.748.6819	respinosa@wiley.com

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

SPE MEMBER BENEFITS GUIDE



FREE TO MEMBERS

SAVINGS TO MEMBERS

BENEFIT		DESCRIPTION	WEBSITE LINK
NETWORKING	Business Networking Resources	Connect to industry experts	www.4spe.org/cc
	Local Section Affiliation	Network with members locally in over 75 countries	www.4spe.org/communities/sections
	Online Membership Directory	Unlimited access provides the link to fellow members	www.4spe.org/membercenter
	Technical Affiliation	24 Divisions represent major industry specialties	www.4spe.org/communities/divisions
MEDIA	Newsletters	News & events about specific local & technical affiliations	www.4spe.org/communities/newsletters
	<i>Plastics Engineering (PE)</i>	The official monthly publication of SPE	www.4spe.org/pub
	SPE Online	Your 24/7 source for Society information	www.4spe.org
	Tech Focus	Monthly electronic newsletter offering society & industry news	www.4spe.org/membercenter
TECHNICAL	Online Technical Library	Searchable database of technical articles & conference papers	www.4spe.org/membercenter
	Message Forums	Online question & answer forum	www.askpip.com
	Special Interest Groups	Emerging areas not currently covered by technical Divisions	www.4spe.org/communities/divisions/#sig
	SPE Journals	Read abstracts from our three technical journals	www.4spe.org/pub/journal
CAREER	American Management Association	Through a partner alliance, access AMA's educational resources	www.4spe.org/membercenter
	Awards	Outstanding contributions recognized	www.4spe.org/awards
	Leadership Development	The opportunity to improve professionally & personally	www.4spe.org/communities/leadership
	Online Career Development	Career enrichment, job openings & resume database	www.4spe.org/membercenter
	Professional Recognition	Distinguished grades of membership recognize accomplishments	www.4spe.org/membercenter
	Scholarships & Grants	Awarded by The SPE Foundation	www.4spe.org/foundation
	Student Benefits	Over 100 Student Chapters in nine countries	www.4spe.org/membercenter
	Unemployment Services	Benefits for the unemployed member	www.4spe.org/membercenter
BENEFIT		DESCRIPTION	WEBSITE LINK
TRAINING	ANTEC	Largest annual technical conference in the industry	www.antec.ws
	Career Coaching	For-a-fee services for career enhancement	www.4careersolutions.org
	e-Learning Center	Online self-paced courses, live & archived presentations	www.4spe.org/elearning
	In-plant Training	Seminar instruction at member's company	www.4spe.org/training/seminars
	Seminars	Expert instruction on current plastics topics	www.4spe.org/training/seminars
	Technical Journals	Subscribe to peer-reviewed articles. Available online and in print	www.4spe.org/pub
	Topical Conferences	Targeted at specific technical & management disciplines	www.4spe.org/conf
	Training Products	Developed by SPE & other leading providers. Some Spanish titles	www.4spe.org/training/products
OTHER	Career Transition Services	Outplacement program offered to member's company	www.4careersolutions.org
	Group Health Insurance	Health, disability & life insurance at attractive group rates	www.4spe.org/membercenter
	Online Job Posting	A source for companies to find qualified staff	www.4careersolutions.org
	SPE BookStore	Discounts on 250+ reference books & training products	www.4spe.org/training/products
	SPE/MBNA Credit Card	SPE Platinum Plus Mastercard® (US & Canada only)	www.4spe.org/membercenter



WEBSITE LINKS SUBJECT TO CHANGE - CHECK WWW.4SPE.ORG FOR FULL BENEFITS

WHY JOIN ?

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

Active membership in SPE:

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

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

WHY NOT?



Akron Section Society of Plastics Engineers

Tony Dean, Advertising Manager
330-929-9916

Website, E-Blast & Newsletter Advertising

Insertion Order 2016-17

Polymer Valley News: Akron Section SPE Newsletter
Delivered via email, stored at <http://www.akronspe.org/newsletter.htm>

Please check ad size wanted. One column is 3-7/8" wide.

This is the 58th year of the Akron SPE Section and rates are for entire season, September 2016 – Summer 2017. **Payable in Advance. Please let me know if you need an invoice.**

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

Email artwork and this Insertion Order (completed) as an attachment to francis@neo.rr.com

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

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

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

Contact Person

Billing Information:

Company:

Name:

Address:

Phone #:

Fax #:

Email address:

Mail checks, payable to AKRON SECTION SPE, to:

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



Society of Plastics Engineers

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

Membership Application

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

Contact Information *Please print clearly*

First Name (Given Name) _____		Middle Name _____
Last Name (Family Name) _____		
Company Name/University Name (if applicable) _____		
Mailing Address is: <input type="checkbox"/> Home <input type="checkbox"/> Business Gender: <input type="checkbox"/> Male <input type="checkbox"/> Female (for demographic use only)		
Address Line 1 _____		
Address Line 2 _____		
Address Line 3 _____		
City _____		State/Province _____
Country _____	Zip/Postal Code _____	Phone _____
Preferred Email (This will be your member login and is required for usage of online member services) _____		
Alternate Email _____		
Date of Birth (Required for Young Professional membership) _____		
Graduation Date (Required for Student membership) _____		Job Title _____

Membership Types *Check one*

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

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

1. _____ 2. _____

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

1. _____ 2. _____

3. _____ 4. _____

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

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

☐ Check Enclosed Amount _____

Charge: ☐ Visa ☐ Mastercard ☐ American Express Expiration Date: _____

Account Number: _____

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

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

Signature of Cardholder: _____

Payment by Wire Transfer Instructions

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

USD: WELLS FARGO: 108 Federal Road, Danbury, CT 06811 USA
ACCT #2681786097 ABA #121000248 SWIFT CODE #WFBUS6S

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

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

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

Signature _____ Date _____

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

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

Geographic Section Member Groups - Network with local industry colleagues.

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

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

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

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

Recommended by (optional) _____ ID# _____