

Polymer Valley News

The Newsletter of the Akron Section of the Society of Plastics Engineers
Our 48th Year of Education and Service to the Plastics Industry

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Costs, Schedules, Reservations

Member	\$25.00
Guests brought by Member	\$15.00
Retiree	\$20.00
Student	\$10.00
New Members	No Charge
Socializing	5:30 p.m.
Buffet Dinner	6:15 p.m.
Technical presentation	7:00 p.m.

Email Cameron Fraser on or before
Feb. 15 - cfraser@uakron.edu

Technical Meeting

Monday, February 19, 2007
5:30 p.m.

Martin University Center

105 Fir Hill Street

East Side of University of Akron Campus

The Future for Polymer Nanocomposites

By Dr. Lloyd A. Goettler

The University of Akron

This presentation will review recent progress in the development and the prospects for growth of polymeric materials containing nanoscale inclusions to provide property enhancement. While known for two decades, layered silicate nanocomposites are finally becoming commercialized in significant volumes for applications in automotive body parts (for mechanical performance), food packaging (for permeation barrier) and wire and cable insulation (for flame retardancy). Other specialized application arenas (electronic, optical, biological and medical) and specialized nanoscale components, such as carbon-based nanotubes, graphene platelets and silica networks are also beginning to appear in the marketplace. This technology is projected to continue developing along classical pathways, bringing with it sociological and ethical concerns that must also be addressed.

See page 3 for
Dr. Goettler's biography

- Next meeting – Mar. 19, 2007
- Board meeting – Feb. 5, 2007, 5:15 p.m., Polymer Eng. Center

Feb., 2007, Page 1



Coming Up:

President's Message

Dear SPE members

SPE is here to help you develop your future, too. Our monthly technical meetings allow those ambitious people to excel in knowledge vs. their peers and to provide their employers with employees that want to help their companies stay in business and succeed in these tough times where jobs are being lost because we are no longer competitive in our fields. Therefore, I encourage all of you to attend our meetings regularly and improve your knowledge to keep you competitive and employed.

02/19/07	Monday	The Future of Nanocomposites 2007 SPE ANTEC Plenary Speech	Lloyd Goettler
03/19/07	Monday	Vendor's Night---Injection Molding	
04/16/07	Monday	Bio Engineering with Polymers	CWSU Forward Medical
05/21/07	Monday	Awards Night	Akron Area Students

You can also find everything on our web site: <http://www.akronspe.org/>
Akron SPE board meetings are held at: 5:15 PM at Polymer Engineering and Academic Center
Akron University: Feb 5, Mar 5, Apr 2 and May 1.

Hope to see you soon.

John Woodside
President, Akron Section 2006-2007

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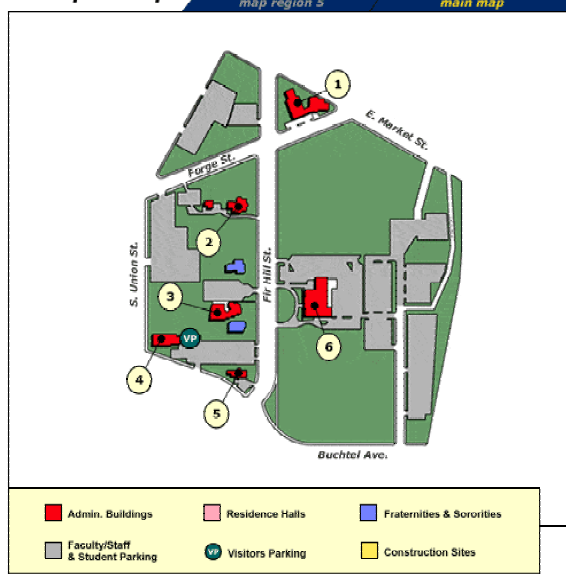
Map to Martin University Center 105 Fir Hill Street Akron, Ohio

Directions: Exit Ohio 8 at Buchtel Street (between Central Interchange with I-76/ I-77 and the high bridge). Go West one block to Fir Hill and turn North. Parking lot is on the north side of Martin University Center.

If the ramp from 76/77 to Route 8 is still closed, traffic from the West should use the Route 59 detour, exit at Cascade Plaza and come up Mill Street past the APTC to Forge and then Fir Hill.

You may zoom in

Campus Map



Dr. Lloyd A. Goettler Biography of Speaker

Interim Assistant to the Dean for Distributive Education and head of the Akron Global Polymer Academy

Former Professor of Polymer Engineering and Director of the Institute of Polymer Engineering

College of Polymer Science and Polymer Engineering

Retired as Science Fellow from Monsanto Company (Solutia)

PhD in Chemical Engineering from University of Delaware and BChE from Cornell University

Past Akron Section President, Past EPSDIV Chair, Founder of TPE SIG



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Councilor's Corner

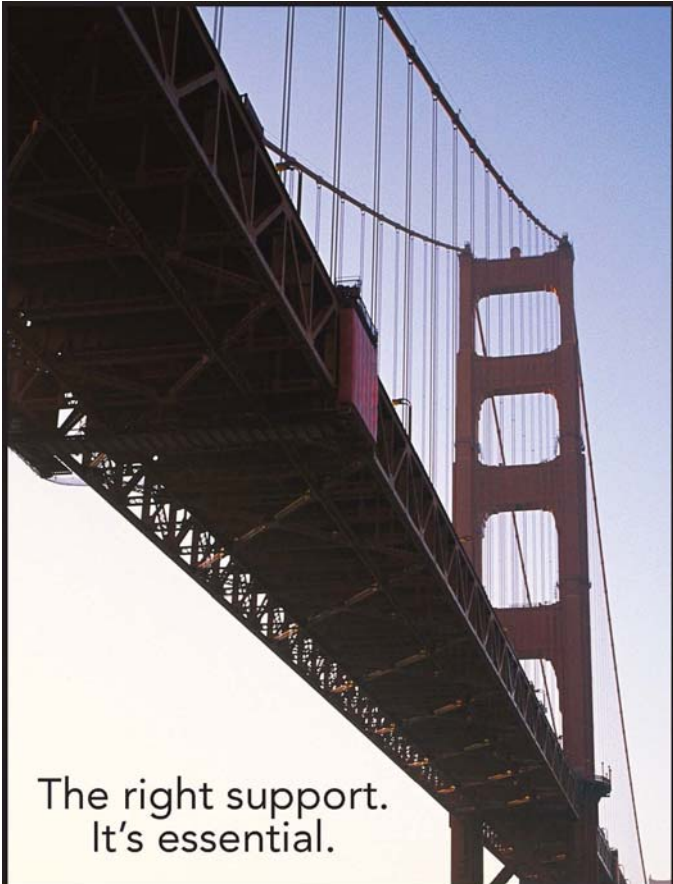
Hello from your Akron SPE councilor! I just returned from the fall meeting held in Charleston, South Carolina.

The main business accomplished was election of the national officers for the upcoming year. President-elect will be William J.J. O'Connell. Paul Anderson won for Senior Vice President. James Griffing won for Vice President, Divisions. Our friend from Pittsburgh, Dick Cameron, won for Chair for the C.O.W. committee.

The highlights of the section meeting were mainly around discussions on regionalization. Three "new" sections were formed from mergers of other sections. We also voted on 15 potential activities for council and sections over topics such as changing the current proxy system, regionalization, rebate changes, etc.

During the main council meeting there were several interesting presentations. The treasurer reported that SPE finished the year in the black but short of budget. The shortfall was mainly due to a lower than anticipated Antec attendance and the advertising revenues from Plastics Engineering were also lower than expected. Vickie Flaris current President-elect and soon to be President gave the operating plan for the upcoming year. Gail Bristol presented a summary of activities of the SPE foundation. I will write a more detailed report for next month's newsletter. Thank you!

J.E. Pfeiffer, Councilor



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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 www.akronspe.org. If you post a question we will post it in the following newsletter along with the answer.



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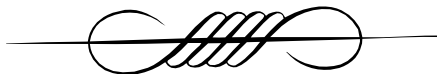
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1962-1963	Dickson L. Stoker, III	1985-1986	Gene Buser
1963-1964	Edward L. Hillier	1986-1987	Harry J. Barth
1964-1965	John R. Russell	1987-1988	Judith A. Fallon
1965-1966	John R. Russell	1988-1989	William E. Tosco
1966-1967	Clyde H. Jones	1989-1990	Robert Wegelin
1967-1968	Alan Corry, Jr.	1990-1991	Geraldine R. Stromquist
1968-1969	Bernard M. Saffian	1991-1992	Spencer Keiser
1969-1970	Harold R. Schick	1992-1993	Robert Wegelin
1970-1971	Robert G. Hills	1993-1994	Tony Dean
1971-1972	John J. Satterfield	1994-1995	Wayne Decamp
1972-1973	Alexis M. Gross	1995-1996	Melanie Stewart
1973-1974	Francis J. Maurer	1996-1997	Kevin Hershfield
1974-1975	Leverett A. Anderson, Jr.	1997-1998	Dave Schultz
1975-1976	Robert M. Hershey	1998-1999	John Raab
1976-1977	Richard L. Fleshman	1999-2000	Gary Taylor
1977-1978	David Curtis	2000-2001	Kevin Malpass
1978-1979	John A. Zelek, Jr.	2001-2002	Ken Sharp
1979-1980	Gerald W. Whitnable	2002-2003	Joe Pfeiffer
1980-1981	Kathleen N. Bechter	2003-2004	Robert Wegelin
1981-1982	Victor E. Giuffrida	2004-2005	Joe Mattingly
		2005-2006	Lloyd Goettler



Programs for 2006 / 2007

Sept. 18	Latest Advances in Engineering Thermoplastics Bob Moran, GE Plastics -- Martin Center	Jan. 22	Mini-Symposium: Is PVC Dying? Dan Kickel, PolyOne; Allan Marshall, Omnova; Lee Pfaffle, A.Schulman -- Guy's Party Center
Oct. 16	Presentation and Tour of Kent State Liquid Crystal Institute Dr. Philip J. Bos, LCI Associate Dir. -- Kent State Student Union	Feb. 19	The Future for Polymer Nanocomposites Lloyd Goettler, Akron U -- Martin Center
Oct. 23-24	EPSDIV / Akron SPE TOPCON: Recent Advances in Organic and Polymer Display Technologies -- Akron University	Mar. 19	Molders Night – Global Competitiveness Bob Beesley, Design Molded Prod.; Andy Moock, Alpha Security Prod.; Jerry Graf, DLH Ind. -- Guy's Party Center
Nov. 20	Latest Advances in Twin-Screw Compounding Extruders Paul Andersen, Coperion -- Guy's Party Center	Apr. 16	Bio-Engineering with Polymers Tony Walder, Noveon Thermedics; Larry Johnson, Foster; Judit Puskas, Akron U -- Martin Center
Dec. 14	Holiday Party (bring significant other) Christmas Special - For the Ladies; Deck the Halls; Madrigals -- Stan Hywet	May 21	Awards Night -- TBA
		May 18	Spring Golf Outing - with Cleveland -- Barberton Brookside CC



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Membership Report – December, 2006

•Akron had 4 new members join in December. Our membership number is at **399**. See list below for new members. We also had two members transfer into our section, and one transfer out, and nine membership renewals

Membership News from National

•National news, total membership is at 19146. Variance from 2005 is (587).

Membership chair, Joe Mattingly

New Members - Say “hello and thanks for joining” if you know the following people.

Gregory Costantino, Delphi

Mike Crawford

Christopher J Fagouri, Ciba Specialty Chemicals

Richard Keeley



Akron Polymer Training Center

Provides training classes for plastic and rubber processors taught by University of Akron faculty and industry professionals. Visit our website at www2.uakron.edu/aptc for a complete list of our current course offerings.

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Our programs are designed to enhance on-the-job effectiveness for all professionals working in the polymer field. If you are experiencing difficulty with polymer-related design or processing problems, contact us. Our reliable and dedicated staff will work with your team to develop a training strategy guaranteed to produce results. Contact Tayba Tahir by phone at **330.972.8661** or email Tayba at tahir@uakron.edu. If you don't see what you need, no problem! We have the resources to solve even the most vexing polymer processing and design issues.



Minutes of Board Meeting – January 8, 2007

Call to Order: 5:15 PM at Polymer Engineering and Academic Center

Present: Dave Schultz, Lloyd Goettler, Kaan Gunes, Reza Sadeghi, Cameron Fraser, Vivian Malpass, Gary Taylor and Joe Pfeiffer

Absent - Josh Wong, Sadhan Jana, Kevin Malpass, Amruth Puttarudraiah, Joe Mattingly, Bob Wegelin, Sylvain Seif, Gary Taylor, Hemant Thakkar, Tony Dean and John Woodside

We welcomed Visitor Carin Helfer to our Board Meeting from AGPA- Akron Global Polymer Academy.

Minutes: December minutes were officially approved. Confirmed that no more Action needed to be taken re joint SPE/Rubber Div. Meeting on TPE- Must be no conflict in dates.

Reminder: All Committees that have Sequence of Events have been urged to supply John Woodside with that sequence to allow for follow-up currently and smooth transitions in the future.

Key Action: Still need to have in place a Program Chair for 2007-08. Viv has made contact with current Board Members.

President: Lloyd was acting Chair in absence of John Woodside. Lloyd introduced Carin Helfer to our Board.

Past President: Lloyd reported that ACCESS has suggested we host their multi-society meeting in April this year. This is excellent and brings an opportunity to have a much wider audience learn about SPE. More details soon.

1. ACCESS also will soon have instituted, at our request, a broader sharing of each other's schedules for meetings- already set with a page hosted by Kent State.
 2. Hemant most recently suggested there should be a broader polymer content in Science Fairs- have now discovered two key situations- first many schools - middle and high - need to learn what polymers are- very surprising and second-timing is critical- need to request April 2007 for 2008.
 3. Dr George Newkome- Univ of Akron encouraging Polymers within Science content using Ohio funding. Need to see where SPE can help.
 4. Lloyd reported that ACS- Akron now funnels a large amount of monies for named Scholarship through ACCESS. Plan to look into for future.
- Need to reconvene and review status of Award Meeting for 2007-08.

Special Presentation-AGPA: Carin provided us with her background including Chemical Engineering – Case and Goodyear Tire Engineering along with recent PhD Univ of Akron – Polymer and post doc work. She has a passion to help schools locally and nationally using latest technology- internet and hands on learning to teach about polymers. The local aim is to satisfy education requirements for K-12 for Summit, Stark and Portage Counties both Public and Private Schools. Currently provide Summer workshops- 2 weeks and soon will provide one Day In- Service. She wondered with the wide range of educational activities of Akron Section how she might help with networking. She currently works with several Science Curriculum Coordinators. The key areas appear to be need for Materials- we asked if we could have a list from Coordinators and could supply a list of Speakers and companies for tours. Lloyd suggested AGPA provide-online educational activities- Powerpoint for local schools- NO travel.



Minutes of Board Meeting – January 8, 2007 (cont.)

Treasurer: Gary provided report to the Board for year 2006.

Secretary: No report.

Awards: Hemant not present- looking at alternate hotel to host in May 2007. Need to start working on details.

Student Chapter: Kaan reported for Sylvain Seif - successful Holiday Party with Polymer Science. Requested help from Board companies with Tours for students and help with resumes and interviews for jobs. Suggested that local recruiter be contacted.

Newsletter: Joe Pfeiffer needs Newsletter items by Jan 24. Needs Tech articles, ESPDIV Topcon Abstracts and abbreviated papers were suggested for future Newsletters. Joe plans to confirm Blasts to Akron and Vinyl Div. for Jan 22 Meeting and Injection Molding Div for March- Molder's Night.

Membership: Joe Mattingly not present. Limited success with card mailer, decided that we will take 400 member list and make phone calls- KEY ACTION to help confirm e-mail addresses - Joe Pfeiffer or Joe Mattingly to provide list.

Councilor's Report: Next meeting late Jan in Charleston, SC.

EPSDIV TOPCON 2006: Need feedback from local Committee. Need to confirm Akron Section portion of proceeds.

TPE TOPCON 2007: Next meeting Jan 10th hosted by David Schultz for Viv. Key meeting have 16 of 28 papers, need more papers.

Education Committee: Hemant up to date on all activities-- awaiting Essays Jan 20th. Plans to resubmit original offering from 2006 for Husky 2007.

Education Foundation: No report.

Advertising: Need to confirm all Advertisers for 2006-07 year. AGPA has sent monies for advertising with SPE.

Public Interest / Website: Tony Dean reports via e-mail Plastic Engineering has all meeting information and that ABJ will run Meeting info Jan 15th . Tony has added Technical Question section to website- none to date. Tony looking into other sources of PR- Plastics News, Polymer Ohio. Plastic Projects-Need to get format changed for Polysort- Kaan to handle with Sylvain.

A. calendar for 2006/07

B. Investigate possible awards for website

Program: Vivian Malpass confirmed– Dec 14- Holiday Event at Stan Hywet went well - plan to return in 2007 or 08. Program and Speakers set for remainder of year-Jan 22-Is PVC Dying?- Panel, Feb 19- Nanocomposites- Lloyd Goettler, March 19 –Molder's Night- Panel April 16-Biomedical Applications- Judit Puskas with ACESS. Need to determine key actions- Audience - number attendees, format and table top for SPE plus May 21- Award location TBD.



Minutes of Board Meeting – January 8, 2007 (cont.)

Fall Golf: No report.

Spring Golf: No report.

House: Cameron Fraser taking e-mail/Fax reservations for 2006/2007 regular meetings. Plan to look at other locations for Awards- Sheraton or Hilton. ACCESS: Note report Past President.

ACCESS: No report.

20/20 Program: The Past Presidents have taken on the challenge to carry out 20/20 Program. Viv, Lloyd and David had an excellent visit with Americhem. We discussed 20 Reasons to Belong, and have set follow-up Action Items. Plan to set two other meetings for 1st Quarter-07 with Mentors on current Board.

Old Business: Nothing to report.

New Business: Viv thanked Board on behalf of IPECs- John Long for prompt action and financial support



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The Institute of Polymer Engineering has a wide variety of specialized equipment needed for polymer processing, characterization, analysis and testing. Some of that equipment is listed here below.

To further discuss your needs, please contact Dr Lloyd Goettler at (330) 972-7467 lagoett@uakron.edu or Cameron Fraser at (330) 972-6008 cfraser@uakron.edu

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- film casting
- film blowing
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SOCIETY OF PLASTICS ENGINEERS

**Announcement and Call For
Student Posters**

TPE TOPCON 2007

Sponsored By:

The SPE Thermoplastic Elastomers SIG and the Akron section of SPE

We are looking for student posters on thermoplastic elastomers for the TPE TOPCON 2007. Subject areas are new chemistry, processing or applications for TPEs.

If you are a student or a professor who has a student who would like to display a student paper during this poster session, please send contact information to the below by May 1, 2007. Final paper should be sent by June 1. More details will follow on the preparation of the actual posters. We will be awarding the following prizes for submissions after the event:

1st Place: \$200

2nd Place: \$100

Honorable mentions (3): \$50

Dates: September 17-19, 2007

Location: Fairlawn, Ohio

Reply to: Joe Pfeiffer

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Akron Section Society of Plastics Engineers, Inc.

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, Inc., 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 twelve years that the foundation has been in existence, it has provided scholarships to over 250 young men and women, totaling in excess of \$200,000 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 three named scholarships – ***Omnova***, ***Rubbermaid*** and ***Goodyear***. We are asking your company to help with the growth of well-trained individuals in the local polymer industry. Please check below:

\$30,000 lump sum \$10,000 / yr next 3 yrs. \$5,000 / yr next 6 yrs.

Other _____

Our named scholarship donors are recognized at the annual Awards Night of the Akron Society of Plastics Engineers. We invite you to present your donation at our Awards Night, which will be scheduled in May.

We are looking forward to your support of this very worthwhile cause by your fine company. Please contact me at 330-849-5179 or e-mail at robert.wegelin@santoprene.com with any questions. Thank you for your consideration.

Sincerely,
Bob Wegelin, Chairman
Akron Section Society of Plastics Engineers, Education Foundation Committee



SPE MEMBER BENEFITS GUIDE



FREE TO MEMBERS

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

SAVINGS TO MEMBERS

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

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

WHY JOIN ?

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

Active membership in SPE:

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

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

WHY NOT?



Akron Section Society of Plastics Engineers

Joe Mattingly, Advertising Manager
330-929-4213, ext. 1274

Insertion Order 2006-07

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.

Rates are for entire season, September 2006 – Summer 2007. **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!**

Email artwork and this Insertion Order (completed) as an attachment to jmattingly@americhem.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
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	Half Page	One column, 10" high	\$500
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c/o Joe Mattingly
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PO Box 1417
Akron, OH 44309



Society of Plastics Engineers

PO Box 403, Brookfield, CT 06804-0403 USA
Telephone: +1.203.740.5403 Fax: +1.203.775.8490
www.4spe.org

MEMBERSHIP APPLICATION

Applicant Information

Name: _____ first _____ last _____ mi		Home Address: <i>(please provide)</i> address: _____ address: _____ city: _____ state: _____ zip: _____ country: _____	
Applicant Type: <input type="checkbox"/> Member <input type="checkbox"/> Student (must supply graduation date _____)		Preferred Mailing Address: <input type="checkbox"/> Home <input type="checkbox"/> Business	
Job Title: _____		Job Function: <i>(choose only one)</i> <input type="checkbox"/> Consulting (11) <input type="checkbox"/> Design (02) <input type="checkbox"/> Education (08) <input type="checkbox"/> General Management <input type="checkbox"/> Library (10) <input type="checkbox"/> Manufacturing (04) <input type="checkbox"/> Marketing (07) <input type="checkbox"/> Purchasing (06) <input type="checkbox"/> Quality Control (05) <input type="checkbox"/> R & D (03) <input type="checkbox"/> Retired (98) <input type="checkbox"/> Student (09) <input type="checkbox"/> Tech Support (12) <input type="checkbox"/> Other (99)	
Company Name and Business Address (or College): company/college: _____ address: _____ address: _____ city: _____ state: _____ zip: _____ country: _____		Gender: <input type="checkbox"/> Male <input type="checkbox"/> Female Birth Date: (mm/dd/yyyy) _____	
Work Phone: () ()	Fax: () ()	<p>The SPE Online Membership Directory is included with membership. Your information will automatically be included.</p> <input type="checkbox"/> Exclude my email from Online Member Directory <input type="checkbox"/> Exclude all my information from Online Member Directory <input type="checkbox"/> Exclude my address from all 3rd party mailings	
Home Phone: () ()			
Email: <i>used for society business only</i>			

Payment Information

New Member 1 Year <input type="checkbox"/> US (\$117.00) <input type="checkbox"/> Canada (\$175.50) <input type="checkbox"/> Euro (€143.00)	New Member 2 Years * <input type="checkbox"/> US (\$202.00) <input type="checkbox"/> Canada (\$303.00) <input type="checkbox"/> Euro (€249.00)	Student Member <input type="checkbox"/> US (\$26.00) <input type="checkbox"/> Canada (\$39.00) <input type="checkbox"/> Euro (€27.00)	Membership Amount _____ Primary Division FREE Additional Division(s) _____ <small>cost for each Additional Division</small> <table> <tr><th></th><th>1 year</th><th>2 years</th></tr> <tr><td>US</td><td>\$6.00</td><td>\$12.00</td></tr> <tr><td>Canada</td><td>\$9.00</td><td>\$18.00</td></tr> <tr><td>Euros</td><td>€6.00</td><td>€12.00</td></tr> </table> TOTAL _____		1 year	2 years	US	\$6.00	\$12.00	Canada	\$9.00	\$18.00	Euros	€6.00	€12.00
	1 year	2 years													
US	\$6.00	\$12.00													
Canada	\$9.00	\$18.00													
Euros	€6.00	€12.00													
My Primary Division is (Division names are below) _____															
Additional Divisions are available for a fee. Check below to select Additional Divisions. <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"/> Extrusion (D22) <input type="checkbox"/> Thermoforming, European (D43) <input type="checkbox"/> Injection Molding (D23) <input type="checkbox"/> Thermoplastic Materials & Foams (D29) <input type="checkbox"/> Marketing & Management (D37) <input type="checkbox"/> Thermoset (D28) <input type="checkbox"/> Medical Plastics (D36) <input type="checkbox"/> Vinyl Plastics (D27)															

<input type="checkbox"/> CHECK <input type="checkbox"/> VISA <input type="checkbox"/> AMEX <input type="checkbox"/> MASTERCARD _____ card number _____ expiration date (mm/yyyy)	<p align="center">PAYMENT MUST ACCOMPANY APPLICATION Sorry, No Purchase Orders Accepted</p> <p>Checks must be drawn on US or Canadian banks in US or Canadian funds.</p> <p>Dues include a 1-year subscription to <i>Plastics Engineering</i> magazine. SPE membership is valid for twelve months from the month your application is processed. *save over 10%</p>
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By signing below I agree to be governed by the Constitution and Bylaws of the Society and to promote the objectives of the Society. I certify that the 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 _____

recommended by member (optional) _____ id # _____

www 03/06