

# Polymer Valley News

The Newsletter of the Akron Section of the Society of Plastics Engineers  
Our 52<sup>nd</sup> Year of Education and Service to the Plastics Industry

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## Costs, Schedules, Reservations

Member	\$25.00
Guest and Member	\$50.00
Retiree	\$20.00
Student	\$15.00

Cash bar	5:15 p.m.
Dinner	6:00 p.m.
Program	following dinner

Contact Mark Holtman on or before  
Mar. 15 - 330/972-6008  
holtman@uakron.edu

Vegetarian dinner can be accommodated -  
let me know when making reservation

**Coming Up:**

- Next meeting – Apr. 19
- Board meeting – Mar. 1, 2010,  
5:30 p.m. Polymer Eng. Center  
Conference Room

## Technical Meeting

Monday, March 15, 2010  
5:15 p.m.

Martin University Center  
105 Fir Hill Street  
East Side of University of Akron Campus

## Coal and Coal Gas Fuel Cell Technology

By Prof. Steven S.C. Chuang

Presented by Felipe Guzman Moyanez

(Post Doctoral associate working with Dr. Chuang)

Department of Chemical and Biomolecular Engineering, U of Akron

The  
University  
of Akron

The Fuel Cell & Catalysis Laboratory has demonstrated the technical feasibility of a laboratory coal fuel cell that can economically convert high sulfur coal into electricity with near zero negative environmental impact. Scaling up this coal fuel cell technology to the megawatt scale for our nation's electric power supply requires two key elements: (i) developing the manufacturing technology for the components of the coal-based fuel cell and (ii) long term testing of a kW scale fuel cell pilot plant. This presentation will (i) compare the advantages and disadvantages of conventional coal-fired power generation, clean coal fuel cell power plants, and various alternative energy technologies and (ii) discuss the technical and economic feasibility of building a 250 kW pilot-plant and a megawatt scale fuel cell system.

See page 2 for  
Prof. Chuang's biography

Mar. 2010, Page 1

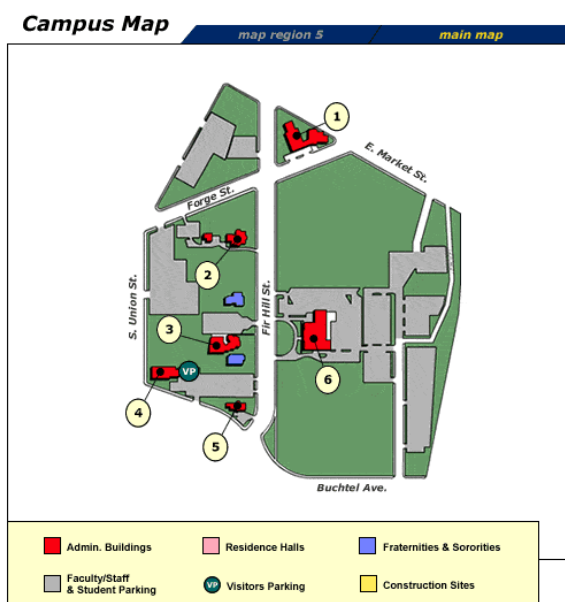


## Map to Martin University Center 105 Fir Hill Street Akron, Ohio

**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



## Biography of Author Steven S.C. Chuang

Steven S. C. Chuang obtained his Diploma in ChE from National Taipei Institute of Tech 1977, MS from New Jersey Inst of Tech in 1982, and Ph.D. from University of Pittsburgh, 1985. He joined Akron in 1986, served as Chair of Chemical Engineering from 1997-2005, and currently is professor of Chemical Engineering. He has published more than 100 papers in Fischer Tropsch Synthesis, hydroformylation, carbonylation, nitric oxide decomposition and reduction, sulfated ZrO<sub>2</sub>, CO<sub>2</sub> capture, CH<sub>4</sub> reforming, and solid oxide fuel cell. He currently leads a 27 member research team (3 postdoctoral research associates; one visiting scholar; 15 Ph.D. students, one mechanical engineer, 6 undergraduate assistants, and one program assistant). His team is and has been supported by FirstEnergy, U.S. Department of Energy, Ohio coal development office, U.S. Department of Defense, Babcox&Wilcox, U.S. Environmental Protection Agency, and U.S. National Science Foundation.



## SPE Pinnacle Award

We have finished review for the 2010 SPE Pinnacle Award program. I am writing to advise you that **Akron** has met the criteria to receive **Gold** recognition. Congratulations on your group's achievement! My special thanks to you for taking the time to capture this information so that your Section could be so recognized.

Formal notification and information about participating at the SPE Leadership recognition event in May is forthcoming. In the meantime, please share this good news with the rest of your Board.

Regards,

**Tricia McKnight**

Manager, Leadership Services  
Society of Plastics Engineers  
14 Fairfield Drive  
Brookfield, CT 06804 USA



## Membership Report

Akron had 4 new members join in January.  
Our membership number is at 306.

We had no transfers in or out of our section.

*Membership chair, Reza Sadeghi*

**New Member** - Say "hello and thanks for joining" if you know the following:

**Dave Rimbey, Win Plastic Extrusion LLC**  
**Thomas Allen, Cell-O-Core**  
**Christopher Seibel**  
**John Heaton, Flex-Pack Engineering, Inc.**

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Jim Williamson, Eastern Regional Sales Manager  
Phone 330-284-0600; Fax 330-365-3987;  
email: [jim.williamson@doverchem.com](mailto:jim.williamson@doverchem.com)

## Akron Polymer Training Center



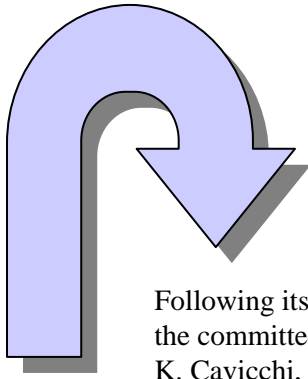
The Akron Polymer Training Center is committed to provide quality training courses for the plastics and rubber industries. Our classes are taught by University of Akron faculty and industry professionals. Visit our website at [www2.uakron.edu/aptc](http://www2.uakron.edu/aptc) for a complete list of our current course offerings.

### Customized Development and Delivery

The Akron Polymer Training Center also specializes in customized training developed specifically for your employees. Depending on your company's particular needs, our courses can be taught on site at your location, or at our state-of-the-art facility on the campus of The University of Akron. 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](mailto: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.



## *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.

*Lloyd Goettler*

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David Industrial Sales ( <i>live link ad</i> )	5
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Polysort	5
Price Fitters ( <i>live link ad</i> )	4
Picture your ad here .....	

**DIS** www.davidindustrialsales.com  
 Richfield: (330) 659-3157 Perrysburg: (419) 874-1359

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**ACS VALVES**

**Franklin** **SPROFLOW** **TBS**

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**The Akron Section is in need of New Board Members as this year continues. Please consider becoming a Board Member to help support your Section. Contact anyone currently on the board (see page 9) if you are interested.**

**Thank You!**

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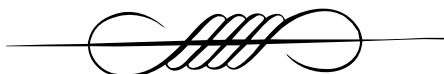
## Programs for 2009 / 2010

Sept. 21	<b>New Technology in Polymer Testing</b> Alpha Technologies, H. Pawlowski <i>-- Pizza/Pasta buffet at Alpha</i>	Jan. 18	<b>Water Purification via Reverse Osmosis,</b> Siemens Water, R. Stumm -- <i>Tangier Rest.</i>
Oct. 19	<b>Biopolymers: PLA Property Improvement</b> PolyOne Corp., R. Avakian <i>-- Martin Center</i>	Feb. 15	<b>Recent Developments in Organic Photovoltaics,</b> Polymer Engineering Dept., U of Akron, Prof. A. Karim <i>-- Martin Center</i>
Nov. 16	<b>Recent Medical Applications for Plastics,</b> PolyOne Corp., L. Johnson PMC Smart Solutions, P. Cashen CleveX, Inc., C. Haavista <i>-- Martin Center</i>	Mar. 15	<b>Coal and Coal Gas Fuel Cell Technology,</b> Chemical Engineering Dept., U of Akron, Prof. S. Chuang <i>-- Martin Center</i>
Dec. 14	Holiday Gathering and Presentation <b>Alternative Sources of Electric Power Generation,</b> First Energy Corp., T. McDonnell and D. Plusquellic <i>-- Sheraton Suites, Cuyahoga Falls</i>	Apr. 19	<b>Technology Commercialization,</b> Bright Idea Shops LLC, A. Robbins <i>-- Martin Center</i>
		May 10	<b>Awards Night</b> <i>-- Raintree CC</i>

2009 meetings are joint with Cleveland Section, all on Mondays at 5.30 pm unless otherwise stated.

### Akron Section SPE Past Presidents

*51 years of  
excellence*



1959-1960	Donald F. Siddall	1984-1985	Anthony F. Dean, Jr.
1960-1961	Milan Krajcik	1985-1986	Gene Buser
1961-1962	Foster J. Young	1986-1987	Harry J. Barth
1962-1963	Dickson L. Stoker, III	1987-1988	Judith A. Fallon
1963-1964	Edward L. Hillier	1988-1989	William E. Tosko
1964-1965	John R. Russell	1989-1990	Robert C. Wegelin
1965-1966	John R. Russell	1990-1991	Geraldine R. Stromquist
1966-1967	Clyde H. Jones	1991-1992	Spencer Kreiser
1967-1968	Alan Corry, Jr.	1992-1993	Robert C. Wegelin
1968-1969	Bernard M. Saffian	1993-1994	Anthony F. Dean, Jr.
1969-1970	Harold R. Schick	1994-1995	Wayne Decamp
1970-1971	Robert G. Hills	1995-1996	Melanie Stewart
1971-1972	John J. Satterfield	1996-1997	Kevin Hershfield
1972-1973	Alexis M. Gross	1997-1998	David Schultz
1973-1974	Francis J. Maurer	1998-1999	John Raab
1974-1975	Leverett A. Anderson, Jr.	1999-2000	Gary Taylor
1975-1976	Robert M. Hershey	2000-2001	Kevin Malpass
1976-1977	Richard L. Fleshman	2001-2002	Kenneth L. Sharp
1977-1978	David Curtis	2002-2003	Joseph E. Pfeiffer
1978-1979	John A. Zelek, Jr.	2003-2004	Robert C. Wegelin
1979-1980	Gerald W. Whitnable	2004-2005	Joseph Mattingly
1980-1981	Kathleen N. Bechter	2005-2006	Lloyd A. Goettler
1981-1982	Victor E. Giuffrida	2006-2007	John Woodside
1982-1983	James Steiner	2007-2008	Vivian Malpass
1983-1984	Robert G. Hills	2008-2009	Joseph Mattingly
		2009-2010	David A. Katz



# Minutes of Board Meeting – February 1, 2010

**Call to Order:** 5:30 PM at University of Akron - PEAC.

**Present:** Dave Katz, Vivian Malpass, Bob Wegelin, Mark Holtman, Dave Schultz, Steve Pastor, Reza Sadeghi and Tony Dean

**Absent:** Kevin Malpass, Chaitanya Pratiwada, Sadhan Jana, Gary Taylor, Kevin Cavicchi, Lloyd Goettler and Joe Mattingly

**Secretary:** David Schultz

- Minutes of January 4, 2010 meeting reviewed and approved.
- Tony Dean was acting secretary, Thanks for your help.

**President:** David Katz

- Dave informed that Award Nights letters have gone out to local companies to help sponsor.
- Gary Taylor will clarify the nature and time period of the rebate.
- Dave reviewed request of Vinyl Div to hold RETEC in Akron-2013 BOD reviewed and voted all for hosting 2013- Viv Malpass to inform Vinyl Chair-Rob Weiler.
- Dave reviewed recent response % per Jenny re Constant Contact-reviewed ideas for higher visibility ie postcard etc.

**President-Elect:** Lloyd Goettler

- Lloyd will begin planning program for 2010/2011 year. He will try to get speakers with more name recognition.

**Past President:** Joe Mattingly - No report.

**Director:** Lloyd Goettler - No report.

**Treasurer:** Gary Taylor - No report.

**Councilor:** Joe Mattingly - No report.

**Hall of Honor:** David Katz

- Digital picture frame will be placed on wall in Polymer Science Building in a protective enclosure.
- Dave Katz reports will continue to work with Sarah Thoroley at PEAC to obtain a suitable enclosure and lettering.

**Polymer Ambassador Program:** Vivian Malpass

- 8-10 Polymer Ambassadors (teachers) are coming to ExxonMobil Chemical in Akron on February 13, 2010.
- Vivian Malpass requested a donation to the Polymer Ambassadors from the Education Foundation.
- Bob Wegelin has confirmed after telecon with the Education Foundation Committee that we will provide donation- need contact info to send check.

**Newsletter:** Tony Dean - February newsletter has been published.

**Membership:** Reza Sadeghi - Confirm 4 new members for total 306.



# Minutes of Board Meeting – February 1 (cont.)

## **Newsletter Advertising:** Tony Dean

- \$1,575 has been sold for the 2009/2010 year.
- Efforts to get new advertisers have failed thus far; still trying.

## **Website/Public Interest:** Tony Dean

- Tony Dean reported that website has been updated with the latest announcements and photographs.
- The February 15 meeting announcement will be in Akron Beacon Journal (Business Section). The announcement also placed on the PolymerOhio website.
- A committee consisting of Joe Mattingly, Dave Katz and Tony Dean are looking into rebuilding the website; however, a student has not been found who could do it at a reasonable cost. Polysort would charge \$2,200. Mark Holtman to check with Univ of Akron- Computer Classes and Summit College.
- The remaining schedule for the 2009/2010 year has been published in the November/December issue of Plastics Engineering Magazine and will be published in subsequent issues until June.

## **Program:** Viv Malpass and Lloyd Goettler

- Program is set for Feb 15 - Photovoltaics; March 15 - Fuel Cells; April 19 - Commercial Technology; May 10 - Awards at Raintree

## **Student Chapter:** Chaitanya Pratiwada - No report.

## **Education Committee:** Kevin Cavicchi

- Kevin reports that he has recently judged along with Tony Dean a Science Fair at Walsh HS and plans to judge 2-3 more over next 2 months. He reported a few very good projects were seen - polymers as a subject.
- He has also sent out request for Essays to local HS.

## **Education Foundation:** Bob Wegelin - No report.

## **House:** Mark Holtman

- Mark reported that six people are signed up Feb 15 Meeting.
- Mark reports all set for next 3 meetings at Martin Center, will follow on details for Awards at Raintree.

## **TPE TOPCON:** Viv Malpass

- 26 abstracts received so far. Goal is minimum of 26 papers, possible 4-6 more by end of Feb.
- Vivian and Technical Program Committee are and will continue to contact potential authors personally.
- TOPCON Committee will meet on Feb 3.

## **Old Business:** D&O Insurance for Akron SPE Section

- Lloyd Goettler reported that he hit a snag pursuing a D&O insurance. In order to proceed with the insurance we needed to provide documentation that shows that the Education Foundation is a legally separate organization – Bob Wegelin supplied Lloyd with the necessary documentation at the meeting. Lloyd Goettler will pursue the D&O insurance quote for the Section.

## **New Business:** ACCESS Engineers week set for Feb 18.

**Closing Comments:** Meeting was adjourned at 6:15 p.m. The next meeting of the Akron SPE Board of Directors will be Monday, March 1, 2010 at the Akron Univ. Polymer Engineering Center starting at 5:30 pm.





## Akron Section Board of Directors

David Katz President	330-310-0156 T katzjeep@yahoo.com
Lloyd Goettler <i>Retired</i> President/Chair-elect	330-666-5180 T goet30@aol.com
Dave Schultz <i>Harwick Standard Dist. Corp.</i> Secretary	330-798-6535 T 330-798-9328 F schultzd@harwickstandard.com
Gary Taylor <i>Myers-Wadsworth</i> Treasurer	330-336-6621 T 330-334-7100 F gtaylor@po.akro-mils.com
Joe Mattingly Past-President, Councilor, Akron SPE Website Renewal	330-962 5299 T jsmatting@aol.com
Vivian Malpass <i>Tek-Mark International</i> Prior Past-President, Conf., TOPCON 2010	330-342-1120 T 330-342-1134 F vivian.malpass@tek-mark.com
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Reza Sadeghi <i>A. Schulman</i> Director, Membership	330-630-7108 T 330-630-3349 F reza_sadeghi@aschulman.com
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Lloyd Goettler <i>Retired</i> – Director, Section Renewal	330-666-5180 T goet30@aol.com
Steve Pastor <i>The Technology House, Ltd.</i> Director	440-248-3025 x120 T 440-248-3882 F steve@tth.com
Jenny Digiantonio <i>ExxonMobil Chemical</i> Newsletter	330-849-5166 T 330-849-5599 F jenny.digiantonio@exxonmobil.com

## Contacts at SPE INTERNATIONAL

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Newtown, CT 06470  
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*all phones in area 203 - all e-mail @4spe.org*

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Tobi Gebauer Senior Manager, Membership	tgebauer 740-5457
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Gail R. Bristol Managing Director, Foundation	grbristol 740-5447
Elizabeth Regan Online Technical Program Coordinator	ereagan 253-1368
Susan Oderwald Executive Director	seoderwald 740-5471
Peter Boergermann Technical Program Coordinator	pboergermann 740-5472
Bonnie Kaczowski Customer Relations Manager Membership	bakaczowski 740-5428
Tom Conklin Sr. Manager, Marketing	tconklin 740-5453

## 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](http://www.akronspe.org). If you post a question we will post it in the following newsletter along with the answer.*



## 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 330-414-1498 or e-mail at [robert.wegelin@sbcglobal.net](mailto:robert.wegelin@sbcglobal.net) 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	<a href="http://www.4spe.org/cc">www.4spe.org/cc</a>
	Local Section Affiliation	Network with members locally in over 75 countries	<a href="http://www.4spe.org/communities/sections">www.4spe.org/communities/sections</a>
	Online Membership Directory	Unlimited access provides the link to fellow members	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>
	Technical Affiliation	24 Divisions represent major industry specialties	<a href="http://www.4spe.org/communities/divisions">www.4spe.org/communities/divisions</a>
MEDIA	Newsletters	News & events about specific local & technical affiliations	<a href="http://www.4spe.org/communities/newsletters">www.4spe.org/communities/newsletters</a>
	<i>Plastics Engineering (PE)</i>	The official monthly publication of SPE	<a href="http://www.4spe.org/pub">www.4spe.org/pub</a>
	SPE Online	Your 24/7 source for Society information	<a href="http://www.4spe.org">www.4spe.org</a>
	Tech Focus	Monthly electronic newsletter offering society & industry news	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>
TECHNICAL	Online Technical Library	Searchable database of technical articles & conference papers	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>
	Message Forums	Online question & answer forum	<a href="http://www.askpip.com">www.askpip.com</a>
	Special Interest Groups	Emerging areas not currently covered by technical Divisions	<a href="http://www.4spe.org/communities/divisions/#sig">www.4spe.org/communities/divisions/#sig</a>
	SPE Journals	Read abstracts from our three technical journals	<a href="http://www.4spe.org/pub/journal">www.4spe.org/pub/journal</a>
CAREER	American Management Association	Through a partner alliance, access AMA's educational resources	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>
	Awards	Outstanding contributions recognized	<a href="http://www.4spe.org/awards">www.4spe.org/awards</a>
	Leadership Development	The opportunity to improve professionally & personally	<a href="http://www.4spe.org/communities/leadership">www.4spe.org/communities/leadership</a>
	Online Career Development	Career enrichment, job openings & resume database	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>
	Professional Recognition	Distinguished grades of membership recognize accomplishments	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>
	Scholarships & Grants	Awarded by The SPE Foundation	<a href="http://www.4spe.org/foundation">www.4spe.org/foundation</a>
	Student Benefits	Over 100 Student Chapters in nine countries	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>
	Unemployment Services	Benefits for the unemployed member	<a href="http://www.4spe.org/membercenter">www.4spe.org/membercenter</a>

SAVINGS TO MEMBERS

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

WEBSITE LINKS SUBJECT TO CHANGE - CHECK [WWW.4SPE.ORG](http://WWW.4SPE.ORG) FOR FULL BENEFITS

## **WHY JOIN ?**

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

### **Active membership in SPE:**

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

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

**WHY NOT?**



**Akron Section Society of Plastics Engineers**  
Tony Dean, Advertising Manager  
330-929-9916

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**Insertion Order 2009-10**

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

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

This is the 51<sup>st</sup> year of the Akron SPE Section and rates are for entire season, September 2009 – Summer 2010. **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!**

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c/o Tony Dean  
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# Society of Plastics Engineers Membership Application

P.O. Box 403, Brookfield, CT 06804-0403 USA  
Tel: +1 203-740-5403 Fax: +1 203-775-8490  
www.4spe.org

European Member Bureau  
Eric Sasselaan 51, BE-2020 Antwerpen, BELGIUM  
Tel: 32 (0)3 541 7755 Fax: 32 (0)3 541 8425 www.speeurope.org

## Applicant Information

<b>Name:</b>		<b>Gender:</b> <input type="checkbox"/> Male <input type="checkbox"/> Female	
first	last	mi	
<b>Company Name and Business Address (or College):</b>			
company/college:			
job title:			
address:			
address:			
city:		state:	
zip:		country:	
Phone/Fax Format: USA & Canada: (xxx) xxx-xxxx All Others: +xx(xx) x xxx xxxx			
<b>Work Phone:</b>		<b>Fax:</b>	
Email: <i>used for society business only</i>			
<b>Home Address:</b>			
address:			
city:		state:	
zip:		country:	
<b>Home Phone:</b>			
<input checked="" type="checkbox"/> Preferred Mailing Address: <input type="checkbox"/> Home <input type="checkbox"/> Business			
<b>Birth Date:</b> (mm/dd/yyyy)			
<b>Demographics</b>			
<b>Job Function</b> (choose only one)			
<input type="checkbox"/> Consulting	<input type="checkbox"/> Purchasing	<input type="checkbox"/> Design	<input type="checkbox"/> Quality Control
<input type="checkbox"/> Education (Faculty)	<input type="checkbox"/> R & D	<input type="checkbox"/> Engineer	<input type="checkbox"/> Retired
<input type="checkbox"/> General Management	<input type="checkbox"/> Self-Employed	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Student
<input type="checkbox"/> Marketing/Sales	<input type="checkbox"/> Tech Support	<input type="checkbox"/> Other	
<b>Materials</b> (choose all that apply)			
<input type="checkbox"/> Composites	<input type="checkbox"/> Polyolefins	<input type="checkbox"/> Film	<input type="checkbox"/> Polystyrene
<input type="checkbox"/> General Interest	<input type="checkbox"/> TPEs	<input type="checkbox"/> Nylon	<input type="checkbox"/> Thermoset
<input type="checkbox"/> PET	<input type="checkbox"/> Vinyls	<input type="checkbox"/> Foam/Thermoplastics	<input type="checkbox"/> No Interest
<b>Process</b> (choose all that apply)			
<input type="checkbox"/> Blow Molding	<input type="checkbox"/> Injection Molding	<input type="checkbox"/> Compression	<input type="checkbox"/> Mold Making
<input type="checkbox"/> Compounding	<input type="checkbox"/> Product Design	<input type="checkbox"/> Engineering Properties	<input type="checkbox"/> Rotational Molding
<input type="checkbox"/> Extrusion	<input type="checkbox"/> Thermoforming	<input type="checkbox"/> Fabrication	<input type="checkbox"/> General Interest
<input type="checkbox"/> Foam	<input type="checkbox"/> No Interest		
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	<b>1yr.</b>	<b>2 yrs.</b>													
US	\$10.00	\$20.00													
Euros	€8.00	€15.00	_____												
<input type="checkbox"/> US (\$140.00)	<input type="checkbox"/> US (\$253.00)	<input type="checkbox"/> US (\$30.00)													
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<input type="checkbox"/> Color & Appearance (D21)	<input type="checkbox"/> Polymer Analysis (D33)														
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<input type="checkbox"/> Extrusion (D22)	<input type="checkbox"/> Thermoforming, European (D43)														
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