

Polymer Valley News

The Newsletter of the Akron Section of the Society of Plastics Engineers
Our 51st 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	7:00 p.m.

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

Coming Up:

- Next meeting – Nov. 16
- Board meeting – Oct. 5, 2009, 5:30 p.m. Polymer Eng. Center Conference Room

Technical Meeting

Monday, October 19, 2009
5:15 p.m.

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

"Biopolymers: PLA Property Improvement"

By Mr. Roger Avakian,

Authors: Roger Avakian and Jason Zhu

Scientific Development

PolyOne Corporation

PolyOne

PLA (polylactic acid, also known as polylactide) recently has attracted a lot of interest and publicity in both academia and industries because it is derived from renewable resources and possesses many interesting properties. However, compared to existing non-renewable plastics it meant to replace, PLA has inherent weakness in physical properties such as impact strength and heat resistance, which dramatically limits the use of PLA in many applications. For example, shaped articles made from PLA after industrial injection molding conditions have the distinct disadvantage of low heat distortion temperature (~54°C under 0.45 MPa load) and this drawback limit its use in durable goods applications. *(continued on page 3)*

See page 3 for
Mr. Avakian's biography

Oct. 2009, Page 1



President's Message

Welcome to the 2009-2010 SPE calendar year.

I hope everyone enjoyed their summer. I am looking forward to an exciting year of change that started on September 21st at Alpha Technologies with an excellent tour and technical presentation, "New Technology in Polymer Testing".

The Akron Section board is working hard to align this year's events with the SPE International mantra "Seize the Opportunity." I want to introduce our 344 members to our Section's "New Directions Initiative". The board is striving to provide you with opportunities to meet and greet others throughout the emerging polymer and "GREEN" industries. These meetings will present new cross-functional technical opportunities to you.



President Dave Katz welcomes members to meeting

Our Section has strong expertise in injection molding, blow molding, rotational molding and extrusion, along with color/specialty additives. We encourage you to bring a friend or colleague to enjoy the "New Directions Initiative" experience.

Your participation is what makes SPE work better for you. Remember our mantra -- "Seize the Moment".

See you in October!

Thanks,
David Katz,
President 2009-2010

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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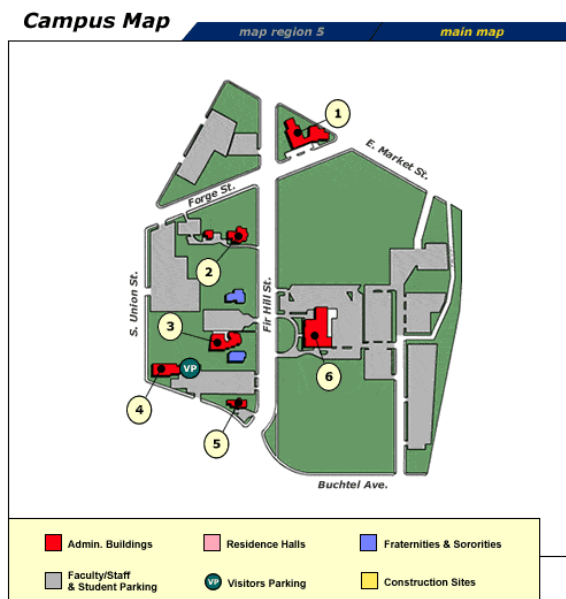


Map to Martin University Center 105 Fir Hill Street Akron, Ohio

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



Continued from page 1 ...

Our efforts and results to improve the properties of PLA will be reviewed. Our objective is to improve the properties of PLA based injection molded articles utilizing commercially acceptable processing parameters (no secondary thermal processing steps). These property improvements will greatly enable PLA to replace petroleum based plastics in many demanding applications that otherwise PLA currently cannot compete.

Roger W. Avakian Biography of Speaker

PolyOne Corp. Vice President, Scientific Development

Roger W. Avakian is currently Vice President, Scientific Development for PolyOne Corporation, a polymer services company, head-quartered in Avon Lake, Ohio. Roger is responsible for developing strategic technology “breakthroughs”. All of these efforts are aimed at delivering value-added products and services to PolyOne’s customers and securing valuable intellectual property protection.



Prior to this appointment, Roger was PolyOne’s Chief Technology Officer from PolyOne’s formation in September 2000, to May 2007.

Mr. Avakian had previously served as Vice President for M.A. Hanna’s Rubber Compounding division, joining M.A. Hanna in 1999 from GE Plastics. Roger had held several technical management positions during his 19 years at GE, including an assignment in Europe. He successfully led the commercialization of several polymer blends and plastics additives. These materials are currently utilized in various markets including automotive, packaging, medical, and industrial applications. His last position at GE was as the Global Technology Director for the Specialty Chemicals business in Parkersburg, WV, where he commercialized new products following CE’s Six Sigma philosophy.

Roger is a Master Black Belt in the Six Sigma quality methodology and has over 51 issued U.S. patents. He received his Bachelor’s degree in Chemistry from the University of California at San Diego.



The Cleveland Section will be joining us for all of the remaining technical meetings in 2009 and the Holiday Social . They will also be announcing these meetings to their section members.



Henry Pawlowski of Dynisco explains the operation of a Capillary Rheometer

The Akron Polymer Training Center Congratulates The Akron Section of SPE!



Thank you for providing outstanding service to the plastics industry for 50 years. We wish you continued success!

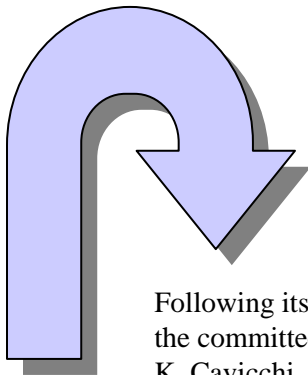
The Akron Polymer Training Center is committed to provide quality training courses for the plastics and rubber industries. Our classes are taught by University of Akron faculty and industry professionals. Visit our website at www2.uakron.edu/aptc for a complete list of our current course offerings.

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. 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

PolymerOhio Internships

The Third Frontier Internship Program links Ohio students with rewarding internship opportunities that provide hands-on experience within Ohio's private-sector business community. The goal is to build a young talented workforce for the future and assist students in gaining valuable work experience that can lead to permanent full-time employment in Ohio after graduation.

The program will reimburse 50% of each intern's wage up to \$3000 for a 12 month period. Following an intern's graduation, your firm will have the opportunity to offer full-time employment to an individual who is well prepared for a future career with your organization.

Internships may be full-time or part-time at anytime during the year.

The Internship Program is looking for participating businesses that can provide one or more of the following types of internships:

*Advanced manufacturing
Information technology*

*Advanced materials
Instruments, controls and electronics*

*Bioscience
Power and propulsion*

For more information please go to www.polymerohio.org. Roll your mouse over to "careers" in the top menu line to reach the link to the Polymer Ohio Internship Program page. If you are a company or a student, follow the procedures to register at www.ohio3fip.com.

For more information or assistance, call Rich Markham at 614-477-1133 or write to rmarkham@polymerohio.org.



Advertiser Index

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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 11) if you are interested.

Thank You!

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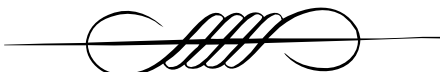
Programs for 2009 / 2010

Sept. 21	New Technology in Polymer Testing Alpha Technologies, H. Pawlowski <i>-- Pizza/Pasta buffet at Alpha</i>	Jan. 18	Water Desalination and Purification Using Polymer Membranes, Speaker TBA <i>-- Martin Center</i>
Oct. 19	Biopolymers: PLA Property Improvement PolyOne Corp., Roger Avakian <i>-- Martin Center</i>	Feb. 15	Recent Developments in Photovoltaics, Speaker TBA <i>-- Martin Center</i>
Nov. 16	Recent Medical Applications for Plastics, Czuba Ent., Inc., L. Czuba PMC Smart Solutions, P. Cashen CleveX, Inc., C. Haavista <i>-- Martin Center</i>	Mar. 15	Role of Polymers in Fuel Cell Technology, Speaker TBA <i>-- Martin Center</i>
Dec. 14	Holiday Gathering and Presentation Alternative Sources of Electric Power Generation, First Energy, T. McDonnell <i>-- Sheraton Suites, Cuyahoga Falls</i>	Apr. 19	Technology Transfer from Lab to Market Place, Speaker TBA <i>-- Martin Center</i>
		May 10	Awards Night <i>-- Raintree CC</i>

2009 meetings will be joint with Cleveland Section. All meetings are on Mondays and will commence at 5.30pm 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 – September 14, 2009

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

Present: Joe Mattingly, Dave Schultz, Vivian Malpass, Lloyd Goettler, Dave Katz, Bob Wegelin, Reza Sadeghi, Sadhan Jana, Kevin Cavicchi and Mark Holtman (thank you for the help with parking passes)

Absent: Alexei Melnikov, Joe Pfeiffer, Michael Gintert, Gary Taylor, Kevin Malpass and Tony Dean
Special Note - Alexei Melnikov, Joe Pfeiffer, Michael Gintert - no longer Board Members

Guest: Steve Pastor- The Technology House- interest in Board.

Secretary: David Schultz

Changes made to Minutes - date TPE TOPCON set for Sept 13-15, 2010 plus clarification/discussion on comments relative to D and O Insurance - see Old Business. Minutes of June 8 meeting modified, reviewed and approved.

President: David Katz

- David welcomed all to new year for SPE and Akron Section. He feels that it will be very exciting with New Directions Committee and new Programs they are preparing for our Members!!
- David informed that ACCESS has asked for another contact - David Schultz has been involved in past and now will be official second in line contact for Akron Section. We do hope that we can get other Akron BOD involved in this impressive group of Professional societies.
- David also felt all went well at the Awards Night.

Past President: Joe Mattingly

- Joe echoed others and stated we must look into collaboration with other groups; i.e., Rubber Div-ACS, Medical, etc.
- Possible Bioplastics - TOPCON has been mentioned as a hot topic and local involvement – U of Akron.

President-Elect: No report - need Candidate for 2010.

Director: Lloyd Goettler

- Lloyd further confirmed his activities from late last year, i.e., record retention, an extensive review of By-Laws and reminds us rules reference Section - by Nomination and vote also attempt to get more involvement from Section Members in running Board. We must, as many Sections must, get new energy, new departments at University, graduates from Polymer-Engineering and Science in order to chart a NEW DIRECTION.
- Lloyd further suggests different media, i.e., Internet, Topic groups, networking moving forward as these new high energy people start to enter the Board.
- Lloyd also mentions that individuals as well as companies might be requested to help sponsors for upcoming meetings and maybe reduction in number of meetings will be reviewed - Paradigm shift is needed.
- Must look to other groups, SAMPE, Gordon Conference and pick the best of the best to help grow!
- Members of the New Directions Committee are Lloyd Goettler (Chairman), Vivian Malpass, Sadhan Jana, and Reza Sadeghi. Kevin Malpass added that he too would like to be on this committee. Lloyd has drafted New Directions Initiative as a guide.

Treasurer: Gary Taylor – no report.

Councilor: Joe Mattingly

Reports that SPE Intl recently approved Electronic Voting and attendance at Council on line!!

Budget available to Councilors for 2009-10 year- Sept. 24.

Council Meeting- East coast- Oct. 24, Joe will attend on line.



Minutes of Board Meeting – September 14 (cont.)

Hall of Honor: Dave Katz

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

Newsletter: Tony Dean

- Summer Edition was published. Have requested New Board Members as we move in the NEW DIRECTION.

Newsletter Advertising: Tony Dean

- Tony reports he is in the process of forwarding requests for past Advertisers to advertise for new year.

Membership: Reza Sadeghi

- Reza reports that we have 344 members for start of Year 2009/10.

Website/Public Interest: Tony Dean

- Tony Dean reported that website is updated; needs confirmation on new Directors and Officers names.
- Tony /Joe have met and discussed in detail the need for rebuilding of SPE Website - outdated and difficult to find needed information (a committee consisting of Joe Mattingly, Dave Katz and Tony Dean will look into rebuilding the website). Will consider different options moving forward.
- Tony Dean will take an inventory of the files - Confirm complete.

Program: Viv Malpass and Lloyd Goettler

- Viv and Lloyd reviewed the year as set by New Directions Committee-noted below are 2009.
- Sept. 21- Alpha- Dynisco- New Technology in Polymer Testing - Tour.
- Oct.19 – BioPolymers - Sustainable Alternatives to Oil-based Polymers - Martin Center.
- Nov 16 - Recent Developments in Medical Applications - Guys.
- Dec 14 - Christmas Social - Comparison of Alternative Sources of Electrical Power Generation - Sheraton Suites.

Student Chapter: Chaitanya Pratiwada

- New PESO President has been elected - No report.
- Sadhan Jana will try to revitalize PESO.
- Joe Mattingly to forward pdf format information for U of A- PESO website.

Education Committee: Kevin Cavicchi

- No report, Lloyd Goettler has agreed mentor.

Education Foundation: Bob Wegelin - Chair

- Board has asked for confirmation of members and recent report that has been written for review of activity.
- Bob Wegelin will provide for Board.
- Lloyd Goettler has asked to be removed and has been replaced with David Schultz.

House: Mark Holtman

- No report - Bob Wegelin to mentor.



Minutes of Board Meeting – September 14 (cont.)

TPE TOPCON: Viv Malpass

- Viv reports that new date is set and confirmed for Sept 13-15, 2010- Rebound with TPE - Title, New SIG Chair - Tom Bell, plus new Tech Program Chair- Tim Buckley- Ticona.
- Target 35 Papers and Posters -Univ. of Akron- 5-7 and Case Western-3-5.

Old Business: D&O Insurance for Akron SPE Section

- Lloyd Goettler has asked for further review even though initial/previous response from Joe Mattingly confirmed that Intl feels this Insurance is not necessary as we have no employees.
- It has been decided that we will contact surrounding Sections - Cleveland- Viv, Chicago- David Schultz, Detroit- Reza Sadeghi and Pittsburgh- Bob Wegelin to determine if they have or have considered in the recent past.
- Joe Mattingly in addition will confirm with Intl further details and review policy coverage.

New Business: Section Renewal – Lloyd Goettler

1. Section Renewal - Lloyd Goettler

- Lloyd renewed discussion and mentioned other forms of media and groups that we could align ourselves with on ACTIVE basis to help as we move forward with NEW DIRECTIONS including to try new techniques for meetings; i.e., Internet, Group Networks and more local groups such as ACCESS, ACS Rubber Group, ASC and the Akron-Physics Club.
 - Lloyd proposed a paradigm change in a new direction to revitalize the section slowly over the next year or two. The section would continue running as usual in the transition period.
 - Lloyd suggested new areas of interest and research at University of Akron such as Biomedical, Medical Plastics, Energy, Nanomaterials, etc.
2. Jenny requested to forward members reminder to clear SPE-Akron Section from Spam at places of employment.
 3. ACCESS has requested help from participating societies for Annual Award Banquet, also need to decide if Akron Section will provide money for Scholarship this year- BOD to decide and vote-October.
 4. Cleveland Section has further informed that they would like to be listed on all Akron Section activities for 2009/10 . Viv to get confirming details with Gary Casterline.
 5. Confirmed Board for 2009-2010 as noted below.

President - David Katz

President Elect - TBD

Past President - Joe Mattingly

Councilor - Joe Mattingly

Treasurer - Gary Taylor

Secretary - David Schultz

Web - Tony Dean

Education Foundation - Bob Wegelin

Education - Kevin Cavicchi with Lloyd Goettler mentor

House - Mark Holtman with Bob Wegelin - mentor

Student Chapter - Dr. Sadhan Jana - President - Chaitanya Pratiwada

Closing Comments: Meeting was adjourned at 7:08 PM. The next meeting of the Akron SPE Board of Directions is Oct 5- PEAC at Univ of Akron - 5:30 PM.



Akron Section Board of Directors

David Katz President	330-310-0156 T katzjeep@yahoo.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
Chaitanya Pratiwada <i>Student - U Akron Polymer Engineering</i> Student Chapter President	330-780-6415 T 330-258-2339 F chaitanya.pv@gmail.com
Bob Wegelin <i>Retired</i> Director, Education Foundation	330-414-1498 T robert.wegelin@sbcglobal.net
Kevin Malpass <i>Diebold, Inc.</i> Director	330-490-4743 T 330-490-4788 F kevin.malpass@diebold.com
Sadhan Jana <i>U Akron Polymer Engineering</i> Director, Student Chapter Advisor	330-972-8293 T 330-258-2339 F janas@uakron.edu
Tony Dean <i>Retired</i> – Director, Public Interest, Website Manager, Newsletter Editor, Newsletter Advertising	330-929-9916 T francis@neo.rr.com
Reza Sadeghi <i>A. Schulman</i> Director, Membership	330-630-7108 T 330-630-3349 F reza_sadeghi@aschulman.com
Kevin Cavicchi <i>U Akron Polymer Engineering</i> Director, Education	330-972-8368 T 330-258-2339 F kac58@uakron.edu
Mark Holtman <i>U Akron Polymer Engineering</i> Director, House	330-972-6008 T 330-258-2339 F holtman@uakron.edu
Lloyd Goettler <i>Retired</i> – Director, Section Renewal	330-666-5180 T goet30@aol.com
Jenny Digiantonio <i>ExxonMobil Chemical</i> Newsletter	330-849-5166 T 330-849-5599 F jenny.digiantonio@exxonmobil.com

Open Positions:
President-Elect
Awards Committee

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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

Board Of Director Meeting Dates (Monday):

2009--9/14, 10/5, 11/2, 12/7

2010--1/4, 2/1, 3/1, 4/5, 5/3, 6/7



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 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
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	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
Tony Dean, Advertising Manager
330-929-9916

Insertion Order 2009-10

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 51st 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!**

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	\$200
	Double	One column, 2 to 4" high	\$300
	Triple	One column, 4 to 6" high	\$400
	Half Page	One column, 10" high	\$500
	Half Page	Page width (7.5"), 5" high	\$500
	Hotlink to company website	N/A	\$75 / year

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

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Mail checks, payable to AKRON SECTION SPE, to:
Akron Section SPE
c/o Tony Dean
Akron SPE
P.O. Box 1417
Akron, OH 44309



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

Name: first last mi		Gender: <input type="checkbox"/> Male <input type="checkbox"/> Female	
Company Name and Business Address (or College): company/college: job title: address: address: city: state: zip: country:		Birth Date: (mm/dd/yyyy)	
Phone/Fax Format: USA & Canada: (xxx) xxx-xxxx All Others: +xx(xx) x xxx xxxx		Demographics	
Work Phone: Fax:		Job Function (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	
Email: used for society business only		Materials (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	
Home Address: address: city: state: zip: country:		Process (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	
Home Phone:		The SPE Online Membership Directory is included with membership. Your information will automatically be included. <input type="checkbox"/> Exclude my email from the Online Member Directory <input type="checkbox"/> Exclude all my information from the Online Member Directory <input type="checkbox"/> Exclude my address from 3rd party mailings	
(✓) Preferred Mailing Address: <input type="checkbox"/> Home <input type="checkbox"/> Business			

Payment Information

New Member 1 Year <input type="checkbox"/> US (\$140.00) <input type="checkbox"/> Euro** (€124.00)	New Member 2 Years * <input type="checkbox"/> US (\$253.00) <input type="checkbox"/> Euro** (€224.00)	Student Member <input type="checkbox"/> US (\$30.00) <input type="checkbox"/> Euro** (€23.00)	Students must supply graduation date: _____
My Primary Division is (choose from below) _____			Membership Amount _____
Additional Divisions are available for a fee. Check below to select Additional Divisions.			Primary Division FREE
<input type="checkbox"/> Additives & Color Europe (D45) <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"/> Extrusion (D22) <input type="checkbox"/> Thermoforming, European (D43) <input type="checkbox"/> Flexible Packaging (D44) <input type="checkbox"/> Thermoplastic Materials & Foams (D29) <input type="checkbox"/> Injection Molding (D23) <input type="checkbox"/> Thermoset (D28) <input type="checkbox"/> Marketing & Management (D37) <input type="checkbox"/> Vinyl Plastics (D27)			Additional Division(s) costs for each Additional Division 1yr. 2 yrs. US \$10.00 \$20.00 Euros €8.00 €15.00
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PAYMENT MUST ACCOMPANY APPLICATION
No Purchase Orders Accepted

Checks must be drawn on US or Canadian banks in US or Canadian funds.

Dues include a 1-year subscription to *Plastics Engineering* magazine—\$38.00 value (non-deductible).
SPE membership is valid for twelve months from the month your application is processed.
*extra savings. **European membership dues include a program fee to support SPE's activities in Europe.

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