

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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Pictures from Spring Golf Outing at Barborton Brookside are scattered throughout newsletter

Awards Night



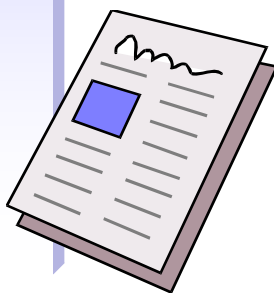
2007 Student Scholarship and Awards Winners

Reminder to our ~ Advertisers and Sponsors ~

This is the last edition of the 2006-2007 SPE Newsletter for the Summer. The 2007-2008 Newsletter season begins in August, 2007. We appreciate your support for our newsletter and welcome your advertisements for the next year.

Please see the insertion order request form on page 19.

We look forward to working with you in the future!



We had a great, grand finale for the awards meeting on May 21. Besides all the awards won by the Akron section, Joe Tomei and Lloyd Goettler received induction into the Akron Hall of Honor for Plastics. All the students that received education awards, as well as those for science projects, were recognized. The venue was great with a nice view of the roaring Cuyahoga river. It could have been better attended, but those of us who did attend had a pleasant evening.

We tried to get a representative of National to say a few words. Our incoming president, Vivian Malpass, stepped up to the plate with a nice history and summary of SPE and its values. **Congratulations to all those who received their just awards.**

... Continued on page 9

July 2007, Page 1



President's Message

Dear Member:

We will be commencing our 2007-2008 SPE year this coming September. I would like to welcome everyone to yet another interesting and educational year. We are currently working on finalizing our monthly technical program for the coming year. We kick off with our 8th TPE TOPCON on September 17-19 in the Akron-Fairlawn Hilton. The Conference will feature about 30 reviewed technical papers, a poster session, exhibits and two keynote lunch speakers. You can register at 4spe.org.

We hope to visit a number of plastics companies in our local area to promote more participation in our monthly meetings and in supporting our section educational activities. We plan to visit local schools to make them aware of the opportunities in the plastics industry and encourage participation in our scholarship programs.

We believe we are the best deal in town for providing excellent local education for our local employers and employees. In return, we would like to see more employers and employees join the SPE and come to our monthly meetings and conferences and participate in our Board of Directors to provide leadership and direction for the future.

Remember that SPE has 23 technical divisions which offer technical expertise in their respective areas and 24 hour internet access to current and past SPE journals. SPE also offers technical information online through their technical library and databases. The Akron Section supports the University of Akron Student Chapter, which interacts with students both at the University and the local schools. SPE now has over 80 geographical sections worldwide and 100 student chapters in nine countries.

Looking forward to seeing you at our TPE TOPCON and monthly technical meetings in the Fall.

Sincerely,
Viv Malpass
330-342-1120
vivian.malpass@tek-mark.com



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President's Message

Dear Section Member:

Thank you for taking time to read this important communication from your SPE Akron Section Board of Directors. You belong to one of the best sections in SPE and I hope you take advantage of this great organization.

We value your membership in the SPE and your support of your Section activities. In return, we want to bring value to you for your financial commitment to the SPE.

The Board of Directors aim is to enhance the effectiveness of the Section's programs and services. This cannot happen without your help, involvement and input. First of all, we need your input to help guide our planning for programs and events. Secondly, we need your attendance at those events, to enhance the opportunity for networking with peers, suppliers and customers that constitute such a large benefit of Society membership. Finally, we welcome your participation on our board, if you would be so inclined to volunteer your skills and time. We need your skills and talents to keep our society strong and prosperous.

We have a special TPE TOPCON this Sept 2007 (see Program and our web site (<http://www.akronspe.org/>) for details.

Please feel free to contact me by phone (216-741-6883), e-mail - johnwoodside@ameritech.net or, better yet, in person at one of our monthly meetings.

I'm looking forward to seeing you.

John Woodside
President, Akron Section 2006-2007



Newsletter Contest Award Retired

The Connecticut Section developed the concept for the Newsletter Award Contest in 1968, and for 40 consecutive years, SPE has been presenting these awards in recognition of the outstanding work of newsletter editors from our Sections and Divisions. We've had some good competitions over the years and have presented hundreds of awards in recognition of the work done by our dedicated editors. However, we've seen fewer entries over the past five or six years, and more effort being put into applications for the new Pinnacle Award. It was time to make a change.

Therefore, a decision has been made to retire the Newsletter Award Contest. A portion of the Pinnacle Award deals directly with how effectively our Sections and Divisions communicate with members about SPE offerings and events to foster a sense of community, and to allow those members a means of responding to the Section/Division board of directors. We believe this Communication section of the Pinnacle Award adequately provides a way for outstanding newsletter editors to contribute to their Section's or Division's receipt of the award.

We thank all of you who serve as newsletter editors for the time and effort you spend on behalf of your Section or Division, maintaining communication and sharing information with your members. Your work is truly appreciated!

The Akron section has received the Newsletter Award for the past two consecutive years, along with the Pinnacle award.

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Councilor's Corner



The spring meeting was held at ANTEC in Cincinnati at TopCon. The meeting was well attended by councilors from all over the globe.

One idea presented at a section meeting was to develop a points/awards systems to encourage and reward volunteers. I presented an idea to develop a database on ideas for technical meetings.

The recent member survey was summarized, with the highlights being accented in a special presentation. The main results of the survey were that members value SPE for its technical information and that sections and divisions have "decreased" value to members. What this means is that SPE will be concentrating on adding technical value for its members, like more on-line information and seminars. One new initiative that was announced was an on-line Plastics encyclopedia that should launch before the end of the year.

We also voted to go from three meetings to two meetings per year in 2008-2009. The next meeting is in late September in Southern California.

If you have any ideas or want me to discuss anything, please let me know at joseph.pfeiffer@exxonmobil.com. Thank you all for your continuing support of the award winning Akron Section!

Joseph E. Pfeiffer

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
Advanced materials
Bioscience
Information technology
Instruments, controls and electronics
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.



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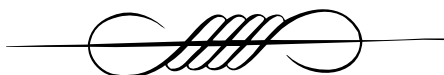
Technical Assistance Initiated On Akron SPE Web Site

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.



Akron Section SPE Past Presidents

*47 years of
excellence*



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



Tentative Programs for 2007 / 2008

Sept. 17-19	TPE TOPCON -- Hilton Inn	Feb. 25	Compounding and Auxiliary Equipment Reduction Eng. -- TBA
Oct. 15 or 22	Advanced Composites (NASA) – with Cleveland -- TBA	Mar. 24	Vendor’s Display Program (suppliers, tooling, etc.) -- TBA
Nov. 26	Blow Molding Steere Enterprises -- TBA	Apr. 28	Color Technology – with Firelands Americhem’s new R&D -- TBA
Dec. 13	Holiday Party -- TBA	May 16	Spring Golf Outing -- TBA
Jan. 28	Extrusion / Blown Film Midwest Polytech -- TBA	May 19	Awards Night -- TBA

The Program Committee is in the middle of finalizing the above program. It looks to be another great selection of technical programs designed to increase your plastics and materials knowledge. Joe Mattingly is our Program Chair, so if you have any ideas or comments, please send him an email!



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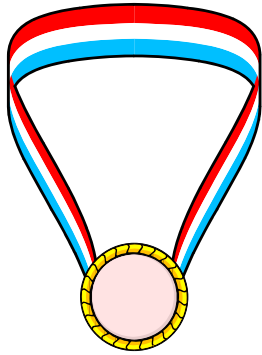
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Awards Night *(cont. from page 1)*



John Woodside (left) accepts Zekan Award from Cameron Fraser



Lloyd Geotler (right) accepts Plastics Hall of Honor Award from Vivian Malpass



Joseph Tomei (right) accepts Plastics Hall of Honor Award from Joe Pfeiffer

Membership Report – June, 2007

- Akron had 1 new member join in June. Our membership number is at **399**. See list below for new members. We also had no members transfer in to our section, and four transfer out, and 36 membership renewals.

Membership News from National

- National news, total membership is at 19427 as of June 30, 2007.
- Effective July 1, 2007, dues will increase \$3.00 to \$118.00. Dues for student and emeritus members will increase \$2.00 to \$30.00. Initiation fees for new and returning members will remain \$10.00.

Membership chair, Joe Mattingly

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

Ted A. Hays, Dow Corning



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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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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.



Minutes of Board Meeting – June 11, 2007

Call to Order: 6:30 PM at China Gourmet Restaurant, Akron, Ohio.

Present: John Woodside, Vivian Malpass, Gary Taylor, Lloyd Goettler, Sadhan Jana, Cameron Fraser, Reza Sadeghi, Hans Gunn, Kevin Malpass and Tony Dean (Scribe)

Absent - Dave Schultz, Amruth Puttarudraiah, Hemart Thakkar, Bob Wegelin, Joe Pfeiffer, Josh Wong and Joe Mattingly

Vivian Malpass, new section president for 2007-2008 ran the meeting.

Thank you John Woodside, 2006-2007 president.

Minutes: No report.

President: No report.

Past President: No report.

Treasurer: Gary Taylor reported that the section was close to budget for the 2006-2007 year. Written report submitted to board. Documents included Income and Expense Report and Check Registry. Checking account balance as of June 11, 2007 was reported.

Secretary: Tony Dean was acting secretary for the meeting.

Awards: No report.

2007/2008 Akron SPE Organization: Vivian Malpass

Preliminary list of Officers and Directors sent out by Tony Dean. Items that need to be changed or completed are:

- (1) Bob Wegelin is House Chairman.
- (2) Joe Mattingly will remain as Newsletter Advertising Chair.
- (3) **Vivian Malpass will ask all Officers and Chairpersons what their key dates are.**
- (4) **Kevin Malpass suggested a 1st Vice President office at some future time.**
- (5) **Tony Dean to put list of Officers and Directors on one page spreadsheet similar to Lloyd Goettler's 2006-2007 spreadsheet.**

Program: John Woodside (for Joe Mattingly) went over program that committee developed:

- A. September 17-19, 2007 - TPE TOPCON
- B. October 15 or 22, 2007 - Advanced Composites (NASA); joint with Cleveland Section
- C. November 26, 2007 - Blow Molding (Steere Enterprises)
- D. December 13, 2007 - Social Outing (place to be determined)
- E. January 28, 2008 - Extrusion/Blown Film (Midwest Polytech)
- F. February 25, 2008 - Compounding and Aux. Equipment (Reduction Eng.)
- G. March 24, 2008 - Vendors Display Program (suppliers, tooling, etc.)
- H. April 28, 2008 - Color Technology (Americhem's new R&D); joint with Firelands Section
- I. May 16, 2008 - Spring Golf Outing
- J. May 19, 2008 - Awards Night

Vivian Malpass said that he would like to see a lot more detail on the program.



Minutes of Board Meeting –June 11, 2007 (cont.)

Student Chapter: No report.

Newsletter: No report.

Membership: No report.

Councilor's Report: No report.

TPE TOPCON 2007: Have received 17 finished papers to date. Expecting 29 to 30 papers. Will have Poster session. Next committee meeting is July 11, 2007.

Education Committee: No report.

Education Foundation: John Woodside for Bob Wegelin

Bob Wegelin has to have an Education Foundation Committee meeting before the end of June. **He will schedule and have Education Foundation Committee meeting on or before June 30.**

Advertising: No report.

Public Interest / Website: No report.

Fall Golf: No report.

Spring Golf: Bob Wegelin reported that attendance was poor despite good weather. Will plan to have Spring Golf Outing in 2008.

House: Cameron Fraser reported that the section was close to breaking even on meetings of the 2006-2007 year with the exception of the Christmas Party and Awards Night. Total meeting deficit for 2006-2007 year was reported. For the most part, if people can't attend at the last minute they have informed Cameron Fraser.

ACCESS: No report.

20/20 Program: No report.

Polymer Ohio: No report.

Other Matters - All

(1) Little booklet with list of 2007-2008 Officers/Directors and schedule is needed. Jenny Digiantonio made up 2006-2007 booklet. **Vivian Malpass will see about one being made for current year.**

(2) Lloyd Goettler said Sadhan Jana will be nominated for SPE Fellow this year.

(3) Vivian Malpass will talk to Joe Mattingly about updating e-mail list for section members.

Old Business: No report.

New Business: No report.

Closing Comments: Adjourned 8:30 pm. **Date, time and place of first board meeting of 2007-2008 year to be announced by Vivian Malpass.**



Mold base selection

By Chuck Azzopardi, D-M-E Global Business Manager

In the process of selecting a mold, most people pay more attention to certain details, such as the core and cavity. But the wrong mold base can severely limit a mold's productivity. Proper attention to choosing the base itself will lead to greater profitability and cost-effectiveness, which is why we're providing you with the following information about mold base selection.

Mold Base Styles

Standard Styles

- **A-Style** – This four-plate design is the most common. Moldmakers will typically machine through pockets in the "A" and "B" plates to accept just about any kind of core and cavity insert.
- **B-Style** - A two-plate economy version of the A-Style. These are best used when part design can be machined directly into the cavity plates. Its compact configuration is also useful whenever overall mold height is limited.

Special-Purpose Mold Bases

- **X-Style** – A three-plate base, the stripper ("X") plate engages the edge of a part and pushes it off the core. The X-style is typically used when molding round parts like cups, caps and containers.
- **AX-Style** – Similar to an A-Style, but used for parts requiring core detail in the cavity side of the mold. When the mold opens, the core detail is pulled so the part remains on the ejector side of the mold.
- **T-Style** - This three-plate mold base operates with two parting lines and is used to separate the part from the runner in a tool. This configuration allows runners to be ejected separately from the part being produced.

Know Your Steel Types

- **No. 1 steel** - Machines easily and permits faster, smoother cutting. Best for short-run, low-cavitation production.
- **No. 2 steel** - Ideally suited for retaining multiple cavity and core inserts for medium to long production runs.
- **No. 3 steel** - Exceptionally clean and easily machined and polished. Ideal for cutting core and cavity details directly into the mold plate.
- **No. 7 steel** – Best for humid environments, corrosive plastics or clean-room requirements. Stainless, easily machined and corrosion resistant.

Machine Considerations

Choosing the right mold base is not just about the part; the molding machine also comes into play. What type of

machine will it run on? What are the volume requirements? Does the mold have a mold action device? What kind of ejection does it need? In addition to these questions, consider:

- **Height** - Determine mold-base height based on the maximum daylight available in the press.
- **Stroke** - Consider the maximum stroke required to eject the part from the mold.
- **Locating ring** – Must match the platens of the machine where the mold will be running. The most common size is 3.99-inch OD.
- **Sprue bushing**: Orifice and radius of the sprue bushing must match the machine nozzle. Use a high-conductivity, copper-alloy bushing when sprue weight > part weight, when using sprue pickers or when minimizing scrap.
- **Clamp-slot**: Must be compatible with the thickness of the top clamping plate on your mold base. Quick-change systems may require special bolster plates or a unique clamp slot.

Consider Supplier's Capabilities

Just as important as finding the right steel and mold base style is having the right supplier. Look for these value-added offers that save you time and money.

- **Off-the-shelf** availability, same-day shipment or quick delivery programs allowing you to receive you mold bases on time, keeping your delivery dates for your customers.
- **Special machining** capabilities can help smaller shops that don't have the volume or resources to get a big bore mill and larger shops that don't want to assign time and equipment to mold base machining. Every shop benefits by having more time to concentrate on cavity and frame work.
- **Contour roughing** services allow moldmakers to receive bases with nearly 90 percent of the material cut out for the part without the need for an insert, again saving valuable time.
- **Parting-line preparation** requires special tools and resources that many shops don't have. Mold base suppliers should be able to provide that service.

To talk to a D-M-E mold base specialist in your area, please call 800-626-6653 or email Customer_Service@dme.net. D-M-E is proud to be an essential resource to moldmakers and molders by providing them with mold bases and advice to meet increasingly demanding lead times and cost challenges. Visit www.dme.net to learn more.



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The University of Akron Institute of Polymer Engineering

Polymer Processing and Testing Services

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Perhaps the best answer to these questions is to contract our polymer processing and testing services.

UA's Institute of Polymer Engineering works with all types of clients in the polymer industry, large companies and small firms, well-established businesses and start-ups. Companies turn to the Institute for assistance because they do not have the capabilities (equipment or personnel) to conduct their own research and testing.

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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- atomic force microscopy
- optical microscopy
- laser microscopy
- TGA
- DSC
- FT-IR
- DMA
- APA
- stress strain testing
- rheology
- biaxial stretching

Polymer Processing

- single-screw extruding
- twin-screw extruding
- film casting
- film blowing
- fiber spinning
- injection molding
- compression molding
- vacuum molding
- blow molding
- compounding

Sample Preparation

- microtoming
- vacuum drying
- sputter coating
- particle size reducing



Akron Section Board of Directors

Vivian Malpass 330-342-1120 T
Tek-Mark International 330-342-1134 F
President/Chair, vivian.malpass@tek-mark.com
Conf. TOPCON 2007

Joe Mattingly 330-929-4213 x1274 T
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Joe Pfeiffer 330-849-5097 T
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Councilor joseph.pfeiffer@exxonmobil.com

John Woodside 216-533-1324 T
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Past-President johnwoodside@ameritech.net

Lloyd Goettler 330-666-5180 T
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Prior Past-President

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U Akron Polymer Engineering 330-258-2339 F
Student Chapter President sss14@uakron.edu

Amruth Puttarudraiah 330-630-7107 T
A. Schulman 330-630-3349 F
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Director kg23@uakron.edu

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Sadhan Jana 330-972-8293 T
U Akron Polymer Engineering 330-258-2339 F
Director, Student Chapter Advisor janas@uakron.edu

Hemant Thakkar 330-794-6600 T
ARDL 330-794-6610 F
Director, Education hemant_thakkar@ardl.com

Cameron Fraser 330-972-6008 T
U Akron Polymer Engineering 330-258-2339 F
Director cfraser@uakron.edu

Tony Dean 330-929-9916 T
Retired - Director, Public Interest, 330-929-9916 T
Website Manager francis@neo.rr.com

Josh Wong 330-972-8275 T
U Akron Polymer Engineering 330-972-6027 F
Director swong@uakron.edu

Contacts at SPE INTERNATIONAL

14 Fairfield Drive
P.O. Box 403
Brookfield, CT 06804-0403
Phone: 203-775-0471 • Fax 203-775-8490
Web: www.4spe.org
all phones in area 203 - all e-mail @4spe.org

NAME / Function	e-mail / phone
Daniel Domoff Managing Editor	djdomoff 740-5429
Roger Ferris Editorial Director	rmferris 740-5425
Nicole Woodson E-Services Manager and Webmaster	nwoodson 740-5468
Ray Filbert Advertising Sales Manager	rflbert 740-5427
Laurie McDougal Event Coordinator, Training/Education Coord.	lamcdougal 740-5432
Jackie Salzo Advertising Coordinator	jsalzo 740-5411
Tobi Gebauer Senior Manager, Membership	tgebauer 740-5457
Alyson Tabot Editorial Assistant	abtabot 740-5421
Tricia McKnight Senior Liaison, Leadership Services Section, Division, SIG, Student Chapter Admn.	tmcknight 740-5430
Maria Russo Sales Account Manager	mrusso 740-5431
Lesley Kyle Senior Event Manager	lskyle 740-5452
Gail R. Bristol Managing Director, Foundation	grbristol 740-5447
Linda Roos Customer Relations Associate - BookStore	lroos 740-5449
Marissa Antosh Online Program Coordinator	mantosh 740-5472

Akron Section *Continued*

Reza Sadeghi A. Schulman Director, Membership	330-630-7108 T 330-630-3349 F reza_sadeghi@aschulman.com
Dave Katz Advanced Elastomer Systems Newsletter Editor	330-849-5139 T 330-849-5589 F david.a.katz@exxonmobil.com
Jenny Digiantonio Advanced Elastomer Systems Newsletter	330-849-5166 T 330-849-5599 F jenny.digiantonio@exxonmobil.com



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

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Joe Mattingly, Advertising Manager
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Telephone: +1.203.740.5403 Fax: +1.203.775.8490
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