

Polymer Valley News

The Newsletter of the Akron Section of the Society of Plastics Engineers
Our 46th Year of Education and Service to the Plastics Industry

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Costs, Schedules, Reservations

Member	\$25.00
Member and Guest	\$40.00
Retiree	\$15.00
Student	\$10.00

Social	5:30 p.m.
Dinner	6:15 p.m.
Presentation	7:00 p.m.

Call Cathy Herrin before noon,
Feb. 16 and specify any dietary
restrictions.

(330) 849-5173 T; (330) 849-5589 F
cathy.herrin@santoprene.com

Coming Up:

- Next meeting – Mar. 21, 2005
- Board meeting Feb. 7, 5:30 p.m.
at Americhem

Technical Meeting

Monday, February 21, 2005

Martin University Center

105 Fir Hill Street, Bldg. #6
East Side of University of Akron Campus



New advances in twin screw technology
By Martin Mack, Vice President of Research & Development
Berstorff in Florence, Kentucky

1. New twin screw elements for special mixing tasks:
 - Elongational flow elements for dispersing of highly viscous particles and gels.
 - Low shear Compex elements for compounding of organic fillers.
 - Closed cavity pumping elements for co-rotating twin screws to improve pressurizing efficiency with low viscous melt.
2. In-line processing by combining multiple extrusion steps:
 - The classic in-line compounding and sheet extrusion process for TPO and PVC laminates.
 - Polyolefin foam with single screw and twin screw combinations.
 - The "IMC" injection molder-compounder, a joint development between Krauss-Maffei and Berstorff.
 - TPV and TPE manufacturing with traditional rubber extruders in-line with twin screw compounders.

See page 4 for
Mr. Mack's biography

Feb., 2005, Page 1



President's Message

Greetings!

I want to start this year by thanking all of our active SPE members for their interest and participation in our Section's events.

I also want to encourage all of our members who have not attended recent activities, to join us in our quest to continually educate ourselves on the new developments in the plastics industry. Technology and business changes in the plastics industry are continuing to evolve faster than ever, and your local SPE chapter and your National SPE organization are continually trying to bring you news of the latest developments. Any organization is the sum of its parts, and SPE is in fact defined by its membership, and its members participation.

I'm looking forward to this month's presentation by Dr. Martin Mack on the latest developments in Twinscrew Technology.

I hope to see you there!

*Joe Mattingly
President, Akron Section*



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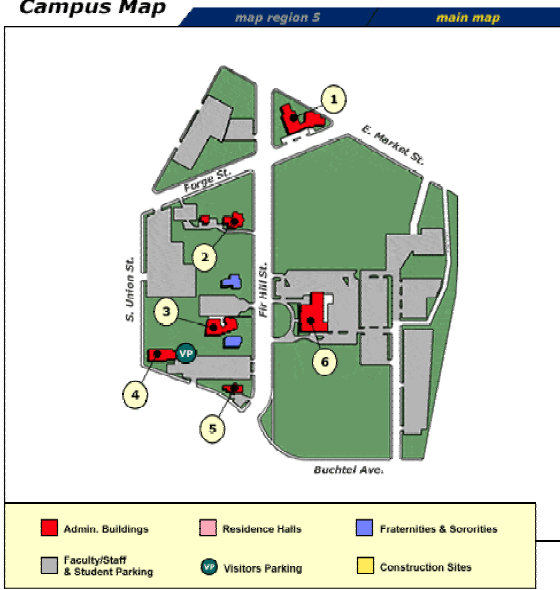
Map to Martin University Center
105 Fir Hill Street
Building #6
Akron, Ohio

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

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

You may zoom in

Campus Map



Mr. Martin Mack,
Biography of Speaker

Martin Mack is currently Vice President of Research and Development at Berstorff in Florence, Kentucky.

He received his engineering degree from the Stuttgart University.

He joined the Berstorff Company in Hanover, Germany as a project engineer for single and twin screw extruders, and was sent to the US on a 2 year assignment as lab manager to set up a new pilot plant for Berstorff in Charlotte, NC.

Martin has been a member of the SPE since 1984, and has served on the Board of the Extrusion Division for 11 years. He was Division Chairman in 1993/94.

He has published several papers and has contributed chapters to several books on the subjects of polymer mixing, devolatilization and reactive extrusion in twin screw extruders.



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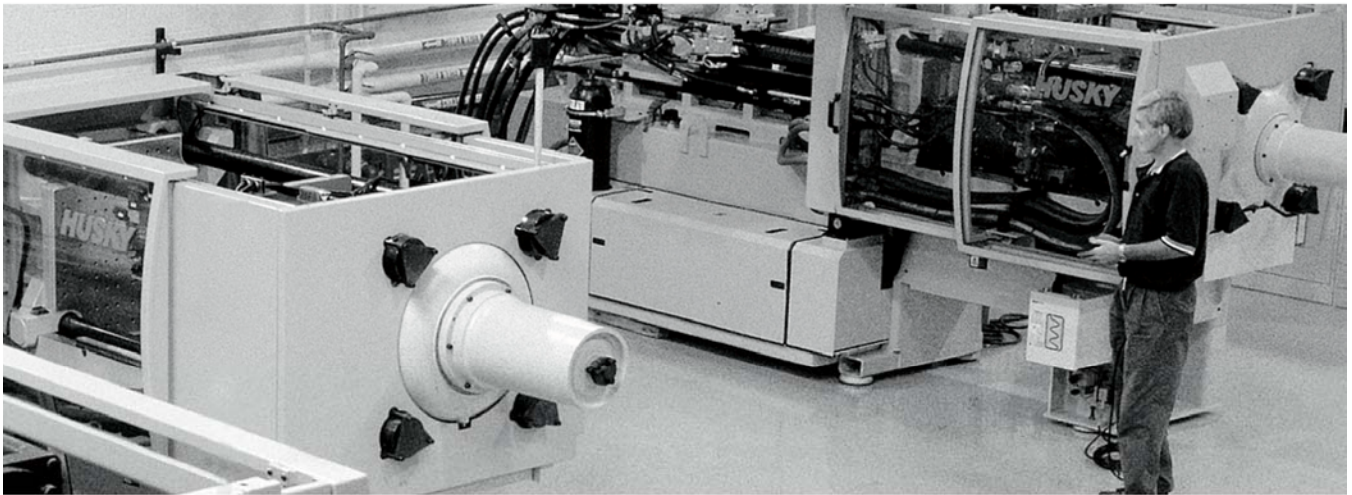


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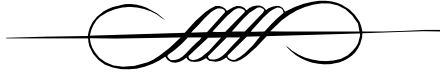
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excellence



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

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Programs for 2004 / 2005

Sept. 20	“Novel Impact Modification in a TPO System” Ferro Corp., Dr. Anna Andrews --Tangier Restaurant	Jan. 24	Nanocomposite program Featured speaker, Prof. Josh Wong , who is working in expanded graphite flake reinforcement for plastics -- University of Akron
Oct. 25	“The Changing Global Plastics Marketplace” Michael Day Enterprises Michael Day, President , lunch -- Tangier Restaurant	Feb. 21	Program by Berstorff
Nov. 15	Demag Plastics Group , tour of facility in Strongsville, OH -- Mapleside Farms	March 21	Lockheed Martin
Dec. 13	Social Program – still open -- Hower House, buffet	April 18	Vendor Night / Auction -- Martin Center
		May 23	Awards Banquet -- Martin Center



The University of Akron

The University of Akron Institute of Polymer Engineering

Polymer Processing and Testing Services

Don't want to invest in expensive equipment at this time? Don't know what equipment is best? Only need the use of the equipment for a short period of time?

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 lgoett@uakron.edu or Cameron Fraser at (330) 972-6008 cfraser@uakron.edu

Analysis and Testing

- x-ray
- scanning electron microscopy
- 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



Minutes of Board Meeting – Jan. 10, 2005

Call to Order: 5:35 p.m. at AES.

Present: Viv Malpass, Bob Wegelin, David Schultz, Kathy Perevosnik, Kevin Malpass, Joe Pfeiffer
Absent - Ron Miller, George Carroll, Bud Seymour, Jerry Robinson, Ernie Anderson, John Woodside, Tony Dean, Amruth Puttadriah, Zehra Kalkan, Lloyd Goettler, Cameron Fraser, Gary Taylor, Joe Mattingly, David Katz

Thanks to AES-Bob!! for hosting.

NOTE: ACTION ITEMS – IN BOLD Note- OLD Business now has past Action Items- BOLD

Minutes: November-corrected minutes approved. Bud, not Bob, Seymour agreed to help in Spring Golf.

Treasurer: Bob Wegelin informed by Gary status of Checkbook-good.

Officers, 2004: Kathy Perevosnik agreed to head the Awards Night-Thanks Kathy!! Still need to confirm **Auction Chair, Fall Golf Chair –05.**

Awards 2004 Update: Bob Wegelin and Jo Pfeiffer will help.

Student Chapter: Zehra Kalkan informed us of plans for a Career Planning Night, they are still working on a newly modified website attached to Polymer Engineering and would like us to add it to our site. **A link will be added soon with Tony Dean's guidance. Need to confirm addition.** Student Corner in Newsletter-Biography / Technical input is planned **BOARD Members are Welcome and encouraged to attend PESO activities!**

Newsletter: If you have anything for newsletter be sure to forward to Joe Pfeiffer or Jenny Digiantonio by Jan 26: Presidents message, program list, board list, last year's ads, and a NEW Consultant's Corner- Technical Articles, Technical advice –SUGGESTIONS are encouraged.

Membership: Joe reports that current membership Dec 04 is 420. We are starting to climb with economic conditions improving. Letter being sent to all new Members inviting them to their first meeting at 50% Off.

Councilor's Report: It is now clear- letter sent informing of the amount we should have received- from rebates in 2004. Planning in place to restructure rebate system. There has been a small increase in Membership need to **PROMOTE AIM- Viv to get all details and work with D. Schultz to promote.** Viv plans to attend next Council Meeting in Atlanta- Jan 21-22- He needs Board input on Rebates for Future- How to handle- **Gary Taylor input would be very important!! AIM is Important Project – Board needs to be aware of work with bringing on new MEMBERS.** Important vote on Voter ID.

TPE TOPCON 2005: At present confirm 18 Papers, more up-date after Jan 12-Hilton 5:30 PM. Ed Tam-Teknor will confirm to Viv. Need Tentative 24 papers.

Education Committee: Kathy informed she sent out 130 notices on Essay Contest, no responses yet. IDEAS for Husky 2006 were noted as possible subjects to build a project around including: ACCESS new schools-PR, Local Business support of Scholarship- more PR, PR article- Beacon Journal, or Company of the Year Award re Past Presidents. Scholarship applications due in March 1. Kathy requested \$200 for Essay gifts. Approved by Board by Vote.



Minutes of Board Meeting – Jan. 10, 2005 (cont.)

Education Foundation: Check status of all contributors including Gen Corp. Amruth Puttadriah and Ron Miller are new members. Kevin plans to bring on 5 new Sponsors. ACTION: **Need format ideas as to how to inform Members of those companies that do contribute. Testimonial letters, Poster board etc.**

Website: Tony to check with Polysort re cost for additional hot links on website.

Advertising: Kathy reports she collected \$ 2195 from companies for 2004/05.

Program: Program has been finalized for Jan 2005- Martin Center, Feb meeting will be Feb 21 with Berstorff at Lab TBD. Cameron has confirmed Lockheed Martin for March 21- There will now be a Tour. Lloyd feels program needs to be very broad to attract a large audience, like new technology areas.

CONFIRM that all Sections surrounding Akron-Cleveland and Firelands have SAME dates. Suggest linking to speaker and tour companies on our website to increase attendance.

House: David Katz reports Jan set, need details for Feb and March. Thanks for GREAT!! Holiday Party-Spouses enjoyed and plan to do for 2005.

Fall Golf: No Golf for 2004.

Spring Golf: David Katz and or Bud Seymour will *help* a Chairperson- **Joe M. to contact** potential candidates. Date set May 13, 2005 at Barberton Brookside.

Board suggests that Auction format in the past is much more meaningful and is CRITICAL to continue. Joe Mattingly to contact Ron Miller re Auction Chair.

Old Business: Gary Taylor looking into Bonding Issues and Tony Dean to look into increased costs at Polysort.

- Cameron Fraser will look into D and O Insurance Local and Viv to look into General liability with Intl.
- Bob Wegelin has forwarded details /history of Twin Section United Kingdom- Joe Mattingly started conversations at K- Show and has sent all Board Members UK Section- Newsletter- look into continue swapping information. Need to have Key contact established. -Joe to determine who that will be in Akron Section.

New Business: ACCESS Meeting- Plans to have an SPE Board attend- need details.

Past Presidents Committee: Bob Wegelin confirmed that Akron Area SPE Company of the Year is the Project the Past Presidents will work on for 2006. Need to confirm Criteria. Bob plans follow up meeting for late Feb/early March.

Ohio Rubber and Plastics Group – First Meeting scheduled Feb 10th at Martin Center - see rubber.org for details.

Closing Comments: Continue to think of potential new board members and Committee Members for 2005-06. Next board meeting on Feb.7, 2005 at Americhem 5:30 PM.





Tech Talk

Do you have any ideas for helping us with this column? We would like to feature a technical article that has a connection with plastics. It should be short, 1 to 2 pages, and should not just be a copy of an article that has been published elsewhere.

All of you consultants out there, this article could be a good showplace to display your technical knowledge and “advertise” your skills.

Another possible idea is we could sponsor a general question and answer article for offering technical solutions to the general Akron plastics industry. If you had a question, you could email it to us and we would print the questions and answers in this column in the following monthly newsletters. I would attempt to answer to the best of my ability with help from other Akron area SPE members. I even have a clever name, “Dear Poly”. I am thinking of Dick Grossman and the excellent column he did previously in Plastics Compounding. The questions should have something to do with plastics and elastomers. They could be questions about processing, compounding, testing, etc.

So, any ideas, please send them in. My email is jepfeiffer@santoprene.com or call me at 330-849-5097. This could be your 15 minutes of fame.

Membership Report – Dec., 2004

Current total is **420** paid members.
5 New members. They will be sent welcome emails.
One transfer out of Section.
15 members renewed.

Membership News from National

- Total membership for December 2004 is 20,106.
Over 20,000 members for the first time in a few years.
- Ahead of last year by 631 members for December.
- AIM, 103 out of 457 have joined! Conversion rate of over 22% is strong and much more effective than direct mail campaigns. For details go to <http://www.4spe.org/communities/ld/aim.php>.
- For tracking and encouraging new members, go to the same above web page
- February 20-26, 2005 is National Engineers Week. For further information about National Engineers Week and a list of 50 ways you can help make a difference, visit www.eweek.org.
- Sample letters for dues reminders and suspended members were included with January membership packet.

New Members

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

Bhavin S. Brahmbhatt
Robert F. Duncan Jr., Diamond Polymers
Patrick J. Fleming, Tyco A&E Products Group
Terry Kahtri, Sancap Liner Technology
David R. Sander



Akron Section Board of Directors

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Johanna Baena <i>U Akron Polymer Engineering</i> Student Chapter Pres.	330-252-0225 T 330-252-0225 T johanna_baena@hotmail.com
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Jerry Robinson <i>Polymer Exchange, Inc.</i> Director	330-785-0111 T 330-785-1505 F jrobinson@polymerexchangeinc.com
John Woodside Director	440-238-3009 T 440-238-3009 T johnwoodside@ameritech.net
Amruth Puttarudraiah <i>Schulman</i>	330-972-5834 T 330-258-2339 F amruth@lycos.com
Jenny Digiantonio <i>AES</i> Newsletter	330-849-5166 T 330-849-5589 F jldigi@santoprene.com

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DEADLINE APRIL 15, 2005

AKRON SECTION SOCIETY OF PLASTICS ENGINEERS NOMINATION FORM FOR ELECTION OF CANDIDATES TO THE PLASTICS HALL OF HONOR

Election to the **Plastics Hall of Honor** is conferred annually upon Akron area men and women who meet the following criteria:

1. Exceptional effort and accomplishment in the field of plastics;
2. Extraordinary dedication over many years that has contributed to growth of the plastics industry;
3. Have not received National or International recognition.

The **Plastics Hall of Honor** seeks to recognize individuals for their quiet service, loyalty, and support over the years. They are the unsung heroes, the everyday foot soldiers of our industry – area employers, employees, and educators whose accomplishments are lacking only in recognition.

If you personally know of such a deserving candidate, please forward your nomination to the Selection Committee, using this or any mailer.

Name of Nominee (include title) _____

Address _____ Phone No. _____

City _____ State _____ Zip Code _____

Present Affiliations (Plastics) (Including dates and positions held) _____

Former Affiliations (Plastics) (Including dates and positions held) _____

Specific Contributions (Patents, Publications, Concepts, etc. to Plastics Industry or Companies) _____

Related Plastics Activities (Clubs, Organizations) _____

Brief Statement Supporting the Candidate (Attach Additional Pages if Necessary): _____

Membership in SPE not required to nominate or to be nominated

Name of Nominator _____ Signature _____

Address _____ Phone _____ Fax _____

PLEASE REFOLD, SEAL, AND MAIL OR FAX THIS FORM BY APRIL 15, 2005

To: Advanced Elastomer Systems, 388 S. Main St. Akron, Ohio 44311, J. Pfeiffer

**FOR ADDITIONAL INFORMATION PLEASE CALL JOSEPH E. PFEIFFER AT (330)849-5097, fax to (330)849-5589
OR VIA E-MAIL AT jepfeiffer@santoprene.com**

Nominate a co-worker, employer, teacher, media person, leader, or any unsung hero who deserves this honor.

Honorees will be installed in the **Plastics Hall of Honor** in May at a special SPE awards night. Their names and photographs will be displayed in the **Hall of Honor** within the University of Akron, Polymer Science Building.

Frank N. Kelley, Honorary Chair,
Dean, University of Akron, College of Polymer Science and Polymer Engineering
Joseph E. Pfeiffer, Senior Applications Specialist, Advanced Elastomer Systems, L.P.

2004 Award Recipients

Rubbermaid

Kathleen Rollick, Case Western Reserve U

Goodyear Tire & Rubber Co.

Nathan Klettlinger, The U of Akron

Kenneth L. Sharp Memorial

Alison Levy, Cornell University

Akron SPE - Special Merit

Matthew D. Ebie,

Will Harper, The U of Akron

Paolo Hilj, The U of Akron

Laura Jones, Miami U

Tara McCoy, The U of Akron

Jordan Mihalik, Grove City College

Janet Christine Schiffer, The U of Akron

Nehemiah Scott, The U of Toledo

Darnell, White, The U of Akron

Crystal Woodside, John Carroll U

Scholarships

Available

Goodyear Tire & Rubber
Company

Rubbermaid

Kenneth L Sharp Memorial
Scholarship

SPE - Akron Section
Special Merit Awards

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Engineers, Inc.
Akron Section
Education Committee Chairman
Kathy Perevosnik
Advanced Elastomer Systems
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Akron, OH 44311
330-849-5119
kaperevosnik@santoprene.com

The Society of
Plastics
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Akron Section

Educational
Foundation



2005
Scholarship
Program
Information

Background

The purpose of the Akron Section SPE Scholarship Program is to promote knowledge in polymer science, engineering, and technology. Started in 1990, it has awarded over \$211,000 to area students. Particular emphasis is given to students enrolling in two- and four-year programs with a plastics application.

Scholarships for up to \$3,000 per year will be granted for tuition, books, laboratory fees, and other educational costs for courses necessary to earn a certificate or associate or baccalaureate degree in preparation for a career in polymers.

General Information

The Scholarship Selection Committee consists of three to five Akron Section SPE members appointed by the President of the Akron Section.

Committee tasks include:

1. Judging candidates based on established criteria and selecting scholarship recipients for Board approval.
2. Monitoring recipients' performances.
3. Determining eligibility for scholarship renewals.

The criteria for candidate selection are:

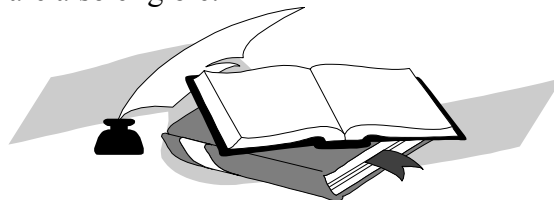
1. Scholastic Achievement
 - a. Grade point average.

- b. Courses and exposure to polymer related subjects).
2. Interest in a plastics career
 - a. Submitting an essay outlining career interests and goals.
 3. Financial need
 4. Social qualities
 - a. Leadership.
 - b. Extracurricular activities.
 5. Two letters of reference from instructors or supervisors. (to be included with application)
 6. Residence within area covered by Akron SPE.

First-time Applicants

Interested students from local high schools, technical, and vocational schools, and area colleges are encouraged to fill out the attached SPE Scholarship Application form, including the essay, references, and current transcript.

All scholarships are awarded for one year with option for renewal. The awards are for full-time students only. Co-op students are also eligible.



Scholarship applications should be forwarded to:

Kathy Perevosnik, Chairman
Akron SPE Scholarship Committee
Advanced Elastomer Systems
388 S. Main St.
Akron, OH 44311

Deadline is March 1, 2005.

Renewal Applicants

The scholarship recipient must:

1. Maintain a minimum **2.5/4.0** grade point average or equivalent.
2. Submit grade reports and course selections demonstrating polymer-related curriculum **prior to start of next semester.**
3. Apply for renewal scholarship using SPE application form. (References and essay are not required for renewal.)

Names of scholarship recipients will be distributed to donor companies for possible internship or cooperative programs.

The number of scholarships awarded per year will be variable depending on the number of qualifying applicants.



2005 Scholarship Application Akron Section - Education Committee

1. Applicant Name: _____
2. Home Address: _____
City: _____ Zip: _____ Home Phone: _____
3. School Address: _____
City: _____ Zip: _____ School Phone: _____
Email address: _____
4. Current School: _____
Course of Study: _____
5. School/College to be attended: _____
Proposed Course of Study/Major: _____
Expected Degree: _____ Cumulative GPA: _____

New Applicants Only, please continue:

6. Please briefly describe how you intend to finance your education: _____

7. Current and Past School Activities: (attach separate sheet if necessary) _____

8. On a separate sheet of paper, type a short discourse (no more than two pages) describing your enthusiasm and interest in pursuing a career in plastics, as well as how your intended field of study will help you achieve your career goals.
9. Have **two** academic references (instructors or supervisors) provide the committee with their insights on your social qualities, scholastic activities, work habits, and interests. Attach these references to this application.

All applications must include a current transcript.

All Applicants return application by March 1, 2005 to the following address:

Kathy Perevosnik
Akron SPE Scholarship Committee
Advanced Elastomer Systems
388 S. Main St.
Akron, OH 44311

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 200 young men and women, totaling in excess of \$100,000 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 two named scholarships -- ***Newell/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.

I am looking forward to your support of this very worthwhile cause by your fine company. Please contact me at 216-573-7467 or e-mail at kevin.malpass@gepolymerland.com with any questions. Thank you for your consideration.

Sincerely,
Kevin Malpass, Chairman
Akron Section Society of Plastics Engineers, Education Foundation





SOCIETY OF PLASTICS ENGINEERS

Announcement and Call For Papers

Thermoplastic Elastomers Topical Conference 2005

Bounce Back With TPEs!

Expanding Materials, Applications & Markets

Sponsored By:

The SPE Thermoplastic Elastomer SIG

In Partnership with

The Akron Section of The Society of Plastics Engineers

September 12-14, 2005

Hilton – Akron/Fairlawn

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Akron, OH 44333-3365

Presenting the latest in:

- **Market Trends and Economics**
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- **Latest TPE Material Developments**
- **Latest Application Developments**

The Thermoplastic Elastomers Special Interest Group (SIG) and the Akron Section of SPE invite the submission of papers for presentation at the 7th TPE TOPCON 2005

Please submit paper title, abstract, author/presenter name, affiliation, phone number and e-mail address to:

Edwin Tam,
TPE TOPCON 2005
Technical Program Chairman,
c/o Christie Pourtau
Teknor Apex Company
300 Industrial park Road
St. Albans, VT 05478
USA
Tel: 781-259-3757 (O)
E-mail: etam@teknorapex.com

Abstract Deadline: November 1, 2004

Completed Paper Deadline: May 15, 2005

Akron Section Society of Plastics Engineers

Kathy Perevosnik, Advertising Manager
330-849-5119

Insertion Order 2004-05

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

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

Rates are for entire season, September 2004 – Summer 2005. **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 kaperevosnik@santoprene.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

Contact Person

Billing Information:

Company: _____

Name: _____

Address: _____

Phone #: _____

Fax #: _____

Email address: _____

Mail checks, payable to AKRON SECTION SPE, to:

Akron Section SPE
c/o Kathy Perevosnik
962 Morningstar Dr.
Akron, OH 44307



Society of Plastics Engineers

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

MEMBERSHIP APPLICATION

Applicant Information

Name:

 first last mi

Applicant Type:
 Member
 Student (must supply graduation date _____)

Job Title:

Company Name and Business Address (or College):
 company/college:

 address:

 address:

 city: state:

 zip: country:

Work Phone: () _____ **Fax:** () _____

Home Phone: () _____

Email: *used for society business only*

Home Address: *(please provide)*
 address:

 address:

 city: state:

 zip: country:

Preferred Mailing Address:
 Home Business

Job Function:
(choose only one)
 Consulting (11)
 Design (02)
 Education (08)
 General Management
 Library (10)
 Manufacturing (04)
 Marketing (07)
 Purchasing (06)
 Quality Control (05)
 R & D (03)
 Retired (98)
 Student (09)
 Tech Support (12)
 Other (99)

Gender:
 Male Female

Birth Date: (mm/dd/yyyy)

The SPE Online Membership Directory is included with membership. Your information will automatically be included.
 Exclude my email from Online Member Directory
 Exclude all my information from Online Member Directory
 Exclude my address from all 3rd party mailings

Payment Information

New Member 1 Year <input type="checkbox"/> US (\$117.00) <input type="checkbox"/> Canada (\$175.50) <input type="checkbox"/> Euro (€143.00)	New Member 2 Years * <input type="checkbox"/> US (\$202.00) <input type="checkbox"/> Canada (\$303.00) <input type="checkbox"/> Euro (€249.00)	Student Member <input type="checkbox"/> US (\$26.00) <input type="checkbox"/> Canada (\$39.00) <input type="checkbox"/> Euro (€27.00)
-------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------

Membership Amount _____

My Primary Division is (Division names are below) _____

Primary Division **FREE**

Additional Divisions are available for a fee. Check below to select Additional Divisions.

<input type="checkbox"/> Automotive (D31)	<input type="checkbox"/> Mold Making & Mold Design (D35)
<input type="checkbox"/> Blow Molding (D30)	<input type="checkbox"/> Plastics Environmental (D40)
<input type="checkbox"/> Color & Appearance (D21)	<input type="checkbox"/> Polymer Analysis (D33)
<input type="checkbox"/> Composites (D39)	<input type="checkbox"/> Polymer Modifiers & Additives (D38)
<input type="checkbox"/> Decorating & Assembly (D34)	<input type="checkbox"/> Product Design & Development (D41)
<input type="checkbox"/> Electrical & Electronic (D24)	<input type="checkbox"/> Rotational Molding (D42)
<input type="checkbox"/> Engineering Properties & Structure (D26)	<input type="checkbox"/> Thermoforming (D25)
<input type="checkbox"/> Extrusion (D22)	<input type="checkbox"/> Thermoforming, European (D43)
<input type="checkbox"/> Injection Molding (D23)	<input type="checkbox"/> Thermoplastic Materials & Foams (D29)
<input type="checkbox"/> Marketing & Management (D37)	<input type="checkbox"/> Thermoset (D28)
<input type="checkbox"/> Medical Plastics (D36)	<input type="checkbox"/> Vinyl Plastics (D27)

Additional Division(s) _____
 cost for each Additional Division

	1 year	2 years
US	\$6.00	\$12.00
Canada	\$9.00	\$18.00
Euros	€6.00	€12.00

TOTAL _____

CHECK VISA AMEX MASTERCARD

 card number

PAYMENT MUST ACCOMPANY APPLICATION
Sorry, No Purchase Orders Accepted

expiration date (mm/yyyy) _____
 Checks must be drawn on US or Canadian banks in US or Canadian funds.

Dues include a 1-year subscription to *Plastics Engineering* magazine.
SPE membership is valid for twelve months from the month your application is processed.
*save over 10%

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 # _____