

# Polymer Valley News

The Newsletter of the Akron Section of the Society of Plastics Engineers  
Our 46<sup>th</sup> 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,  
Jan. 19 and specify any dietary  
restrictions.

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

## Technical Meeting

**Monday, January 24, 2005**

**Martin University Center**

105 Fir Hill Street

*East Side of University of Akron Campus*

### Graphene-Based Polymer Nanocomposites

By Dr. Shing-Chung (Josh) Wong, Assistant Professor of  
Mechanical Engineering at the University of Akron

A novel design for polymer nanocomposites using nanoscale graphene plates (NGP) was investigated. Since the early 90's the discovery of high strength-high stiffness polymer nanocomposites by Toyota sparked a flurry of activities in Japan, Europe, the US and other countries in synthesizing exfoliated nanoclay, nanotube and other nanoparticle reinforced polymer-matrix nanocomposites. Processes for carbon nanotube (CNT), despite their great promise in maneuvering varied functionality, are expensive for composite applications. Instead of trying to discover much lower-cost processes for CNT, we make use of a mass production processing technology and formulate a distinct and cost-effective breed of nanoscale reinforcements. If successful, these polymer nanocomposites will be available at much lower cost and tailorable for different end-use requirements. The proposed nanocomposites are distinctly different from existing carbon black, CNT and nanoclay reinforcements. Yet they can be used as functional fillers like CNTs. Preliminary data showed that the resulting composites drastically reduced the percolation threshold, competitive with those of CNTs, for electrical transition from an insulator to a semiconductor.

See page 3 for  
Dr. Wong's biography

**Coming Up:**

- Next meeting – Feb. 21, 2005
- Board meeting Jan .10, 5:30 p.m. at  
AES Building, 1<sup>st</sup> floor conference room

Jan., 2005, Page 1



# President's Message

Greetings and Happy New Year to all of our SPE members,

I hope your holiday season has brought joy and happiness to you and your families.

I wanted to thank everyone who attended our Holiday Social at the Hower House. The house was splendidly decorated for the holiday season, and the tour of the home gave us a fascinating glimpse into the lifestyle of the Hower family in the late 1900's.

I'm looking forward to the remaining year of events, like January's discussion on nanocomposites by Prof. Shing-Chung (Josh) Wong, and February's presentation on "New advances in twin screw technology" presented by Dr. Martin Mack from Berstorff.

Hope to see you there!

*Joe Mattingly  
President, Akron Section*



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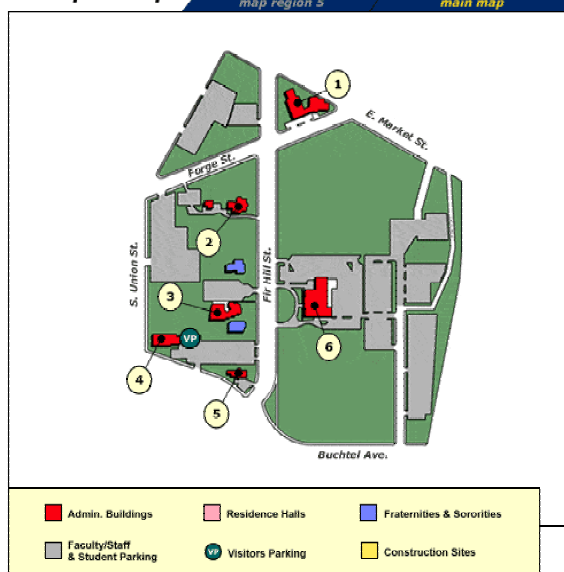
## Map to Martin University Center 105 Fir Hill Street Akron, Ohio

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

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

*You may zoom in*

### Campus Map



## Dr. Shing-Chung Josh Wong, Biography of Speaker

Dr. Shing-Chung Josh Wong, Assistant Professor of Mechanical Engineering at the University of Akron, received his Ph.D. degree from the University of Sydney, Australia in 1999 and his M.S. degree from the University of Massachusetts Amherst in 1995. He was awarded the Australian Postdoctoral Fellowship (top 50 Ph.D. applicants across all disciplines) from the Australian Research Council upon graduation.

Dr. Wong's research interests are focused on cost-effective fabrication of polymer nanocomposites, and his expertise is centered on materials engineering, which includes processing-structure-property relationships of polymers, alloys and blends, and biocomposites. He has published over 60 papers in journals and conference proceedings and graduated 1 Ph.D. and 4 M.S. students. His publications have been cited independently over 100 times by researchers worldwide.

Dr. Wong is an active reviewer and panelist for over 8 international journals and federal funding agencies. He has been an SPE member since 1994 and served as the founding advisor for the SPE Student Chapter in North Dakota State University and SPE ANTEC 2004 co-chair for the EPSDIV technical program.



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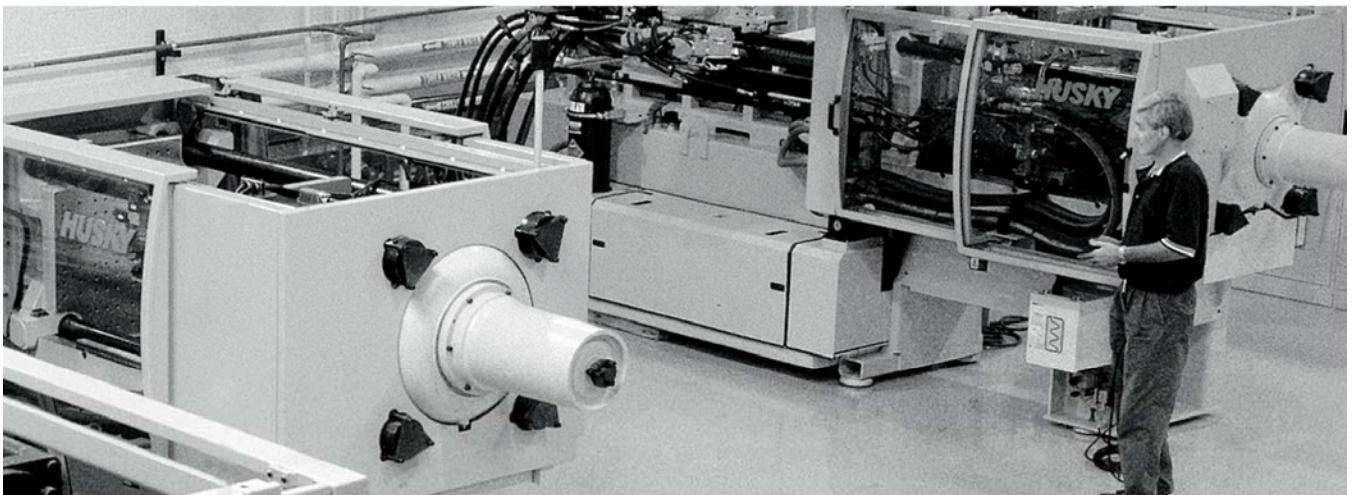


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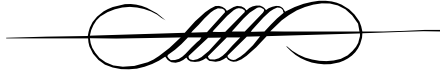
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1960-1961	Milan Krajcik	1983-1984	Robert G. Hills
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1962-1963	Dickson L. Stoker, III	1985-1986	Gene Buser
1963-1964	Edward L. Hillier	1986-1987	Harry J. Barth
1964-1965	John R. Russell	1987-1988	Judith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

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# Programs for 2004 / 2005

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



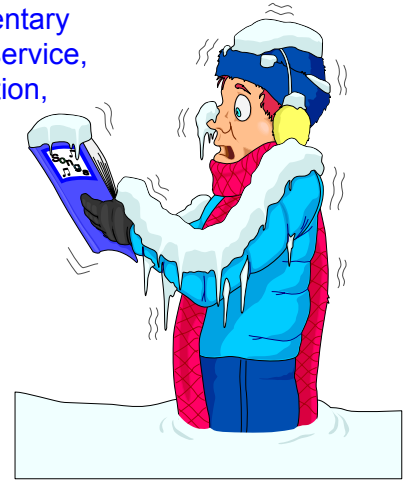
# Report on December Meeting

The December Section meeting took the form of a holiday social event that was held at the Hower House adjacent to The University of Akron campus. The cheeriness of the holiday decorations in the historical building was enhanced by the snowy winter weather outside. In fact, the blizzard conditions did prevent some of our members from attending, so that only about thirty-five were present, instead of the expected fifty.

Those who did make it were rewarded with a warm haven from the storm, good hot food and plenty of refreshments from the complimentary bar. An unanticipated glitch in the catering caused some delay in service, but the time until further food arrived was filled with good conversation, holiday piano music by Gary Pinter, the organist and choir director at Fairlawn Lutheran Church, and tours of the historic house. The enjoyable event concluded with the singing of carols and holiday songs.

Best regards and wishes for a Happy New Year.

*Lloyd*



## Membership Report – Dec., 2004

Activity for November:

Current total is **414** paid members.  
9 New members. They will be sent welcome emails.  
One transfer in and 0 out for section.  
12 members renewed.

### Membership News from National

- Total membership for November 2004 is 19,809.
- Ahead of last year by over 350 members for November.
- AIM, 98 out of 322 have joined! Conversion rate of over 30% is strong and much more effective than direct mail campaigns. For details go to

<http://www.4spe.org/communities/ld/aim.php>.

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](http://www.eweek.org).

### New Members

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

R Keith Brower, Consolidated Container Co.  
Bruce Corey, Husky Injection Molding  
Janice Evers, MAC Tec  
Ibrahim Sedat Gunes, University of Akron  
Douglas S. Hardesty, Barberton, Ohio  
Jayson T. Humble, Delta Systems Inc.  
Michael J. Lauck, Diamond & Network Polymers  
Shinji Massamura, INOAC Corporation  
John Petroski, Excello Specialty Co.



## Akron Section Board of Directors

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Jenny Digiantonio <i>AES</i> Newsletter	330-849-5166 T 330-849-5589 F jldigi@santoprene.com

## Contacts at SPE INTERNATIONAL

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# Society of Plastics Engineers

## “Wonders of Plastics”

### 2005 International Essay Contest

The Society of Plastics Engineers (SPE), with sponsorship from the SPE Sections, 12th annual "Wonders of Plastics" essay contest. Open to all junior high and high school students, the essay must be submitted to the local Section. It can be sponsored by a teacher and **must** meet certain requirements. (see next page)

The winning entry at the Section level will be published and publicized in the Section newsletter and forwarded to the Society's headquarters to compete with winning essays from Sections around the world. The international first prize consists of \$1,000 honorarium and plaque for the student and a \$1,000 honorarium for the school. The winning essay will be printed in SPE's official magazine, [\*Plastics Engineering\*](#).

Some suggested topics to consider:

**Plastics in the environment**  
**Plastics usefulness in American society**  
**Creative use of recycled plastics**  
**How plastics benefit humankind**  
**What plastics has done for me**  
**Why the bad reputation of plastics is wrong**  
**How plastics improve our lifestyle**  
**Advantages of plastics in food packaging**

All essay submissions must be received at the SPE Section address, listed below, along with the entry form, by the announced deadline. Deadline: Jan. 14, 2005

SUBMIT ESSAY TO:

Akron SPE Section Essay Contest

Contact: Kathy Perevosnik

Address: Advanced Elastomer Systems

388 S. Main St.

Akron, OH 44311

Phone/fax/email: 330-849-5119 T,

330-849-5597 F,

[kaperevosnik@santoprene.com](mailto:kaperevosnik@santoprene.com)

**Deadline: Jan. 14, 2005**

# Society of Plastics Engineers

## “Wonders of Plastics”

### Essay Contest Requirements -- 2005

#### GENERAL

Length: Between 500 and 1,000 words

Format: Typewritten in English on 8 ½ x 11 paper (for North America), title to appear as heading on each page; no name on any page except the entry form that must accompany each essay; 1-inch margins minimum on all sides

Deadline: January 14, 2005 to Kathy Perevosnik, Akron Section Contact.

#### ORGANIZATION

The organization structure of the essay will be “logical,” including the following considerations:

Introduction: (optional)

Thesis paragraph: several sentences

Development (body): this section will be several paragraphs and will discuss the theme, analyze it, feature informal research about the theme, etc.

Conclusion: this section will be at least one paragraph in which the author summarizes the ideas presented in the essay

#### MECHANICS

Spelling will be correct; syntax will be readable; punctuation will be conventional. Essay will be free of sentence fragments. References will be used when applicable. Diction (word choice) will be appropriate to the subject and the writer’s understanding of the topic. Point of view will be appropriate to the topic/subject and will remain constant and consistent. A mixture of first and third person is acceptable if it is appropriate to the voice of the essay, however, the use of second person (“you” either stated directly or implied) will change the “voice” of the essay in a manner damaging to its effectiveness. Footnotes and references must be included when necessary.

#### JUDGING

Essays will be judged by a panel of Akron SPE members. The International contest will be judged by a panel consisting of SPE Members, an editor and science teacher. In order to be a finalist, the essay must meet all the conditions as stated in the organization and mechanics above, with only incidental errors in mechanics. It must meet the assigned minimum length and must be submitted following the prescribed format.

Society of Plastics Engineers  
2005 “Wonders of Plastics”  
Essay Contest – Entry Form  
(type or print)

Title: \_\_\_\_\_

By: \_\_\_\_\_

about the author(s)  
name(s) \_\_\_\_\_ age(s) \_\_\_\_\_  
address(es) \_\_\_\_\_

phone number(s) \_\_\_\_\_  
e-mail(s) \_\_\_\_\_

school \_\_\_\_\_ grade \_\_\_\_\_  
school address \_\_\_\_\_

phone/fax \_\_\_\_\_  
class \_\_\_\_\_  
teacher \_\_\_\_\_  
interest/hobbies \_\_\_\_\_

**SUBMIT TO: (Deadline Jan. 14, 2005)**  
Akron SPE Section Essay Contest  
Kathy Perevosnik  
Advanced Elastomer Systems  
388 S. Main St.  
Akron, OH 44311

Phone: 330-849-5119  
Fax: 330-849-5597  
Email: [kaperevosnik@santoprene.com](mailto:kaperevosnik@santoprene.com)

## 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

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Kenneth L Sharp Memorial  
Scholarship

SPE - Akron Section  
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Advanced Elastomer Systems  
388 S Main St.  
Akron, OH 44311  
330-849-5119  
kaperevosnik@santoprene.com

The Society of  
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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:

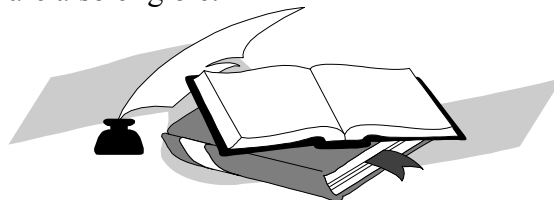
1. Scholastic Achievement
  - a. Grade point average.

- 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](mailto: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**

3180 West Market Street

Akron, OH 44333-3365

Presenting the latest in:

- **Market Trends and Economics**
- **Advances in Processing Technologies**
- **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 7<sup>th</sup> 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](mailto: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

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**Insertion Order 2004-05**

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

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

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](mailto:kaperevosnik@santoprene.com)**

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<b>(please X)</b>	<b>Ad Size</b>	<b>Dimensions</b>	<b>Price for year</b>
	Business Card	One column by 2" high	\$200
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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

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

## Payment Information

<b>New Member 1 Year</b> <input type="checkbox"/> US (\$117.00) <input type="checkbox"/> Canada (\$175.50) <input type="checkbox"/> Euro (€143.00)	<b>New Member 2 Years *</b> <input type="checkbox"/> US (\$202.00) <input type="checkbox"/> Canada (\$303.00) <input type="checkbox"/> Euro (€249.00)	<b>Student Member</b> <input type="checkbox"/> US (\$26.00) <input type="checkbox"/> Canada (\$39.00) <input type="checkbox"/> Euro (€27.00)	<b>Membership Amount</b> _____												
<b>My Primary Division is</b> (Division names are below) _____			<b>Primary Division</b> <b>FREE</b>												
<b>Additional Divisions are available for a fee. Check below to select Additional Divisions.</b> <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)			<b>Additional Division(s)</b> _____ cost for each Additional Division <table border="0"> <tr> <td></td> <td><b>1 year</b></td> <td><b>2 years</b></td> </tr> <tr> <td>US</td> <td>\$6.00</td> <td>\$12.00</td> </tr> <tr> <td>Canada</td> <td>\$9.00</td> <td>\$18.00</td> </tr> <tr> <td>Euros</td> <td>€6.00</td> <td>€12.00</td> </tr> </table>		<b>1 year</b>	<b>2 years</b>	US	\$6.00	\$12.00	Canada	\$9.00	\$18.00	Euros	€6.00	€12.00
	<b>1 year</b>	<b>2 years</b>													
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Checks must be drawn on US or Canadian banks in US or Canadian funds. Dues include a 1-year subscription to <i>Plastics Engineering</i> magazine. SPE membership is valid for twelve months from the month your application is processed. *save over 10%	www 03/06