

# 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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## Awards Night Update

Monday, May 16, 2005

## Held at Guy's Party Centre

500 East Waterloo Road

Akron, Ohio 44319

This year's Awards Night was held on May 16 at Guy's Party Centre. Toth Mold, Inc., sponsored some great appetizers and shared a display on their capabilities. After a great meal, our guest speaker was Coach Gerry Faust, who had great words of wisdom to share with all of us. We presented 17 scholarships and 4 science fair awards. Thanks to Marty Sharp for coming to help us recognize Ken and this year's

winner of the Kenneth L. Sharp Memorial Scholarship. We had a special guest from SPE International, Tom Conklin, who helped us reenact the presentations of our 2005 STAR Award and the STRETCH Award won by the student section at the University of Akron. We also honored board member Joe Pfeiffer with the William C. Zekan Memorial Award for service to the section (good job Joe). Dean Frank Kelley made his annual appearance as we recognized all our members of the Plastics Hall of Honor.

See page 3 for additional winners.

## Spring Golf Outing



Coming Up:

- Next meeting – fall, 2005
- Board meeting - TBD

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# President's Message

Dear fellow SPE Akron Section members,


It is my distinct privilege to serve as your elected President for the coming year. I pledge to bring you the high level of service and benefit that you deserve as supportive members of the SPE. As a long-time SPE member affiliated with the Akron Section in the 1980's, I can relate to the growing importance of plastics in our local economy from then to today. My experience has also brought me involvement with both the industrial and academic aspects of the plastics sector, so I can relate to business issues as well as to innovations in technology. I am furthermore familiar with the Society, having served in numerous capacities at the international and division levels. My intent is to bring these exposures and experiences to bear on my leadership of the Akron Section. Together with a very capable Board of Directors, we aim to enhance the effectiveness of the Section's programs and services.

But this cannot happen without your help and involvement. First of all, we need your inputs 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 constitutes 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.

Please feel free to contact me at The University of Akron by phone (330-972-7467) or e-mail ([lagoett@uakron.edu](mailto:lagoett@uakron.edu)), or better yet, in person at one of our monthly meetings.

I'm looking forward to seeing you.

*Lloyd Goettler*  
*Incoming President, Akron Section*



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# Awards Night Update

I'm proud of all our winners! I hope to see everyone next year.

The winners of our special scholarships this year were:

Kenneth L. Sharp Memorial –

**Gihyun (Jenny) Myung** from Copley High School  
Rubbermaid –

**Kathleen Rollick**, Case Western Reserve University,  
Chemical/Polymer Engineering  
Goodyear Tire and Rubber –

**Nathan Klettlinger**,  
University of Akron, Chemical Engineering

The winners of the Akron SPE Special Merit Award Scholarships:

**Alicia Boykin** of Walsh Jesuit High School

**Michelle A. Cottrell** in Mechanical/Polymer Engineering at the U of Akron

**Grace Heinlein** of Hoover High School

**Paolo Hilj** in Mechanical/Polymer Engineering at the U of Akron

**Barbara Joy Jones** of Our Lady of the Elms HS

**Laura Jones** in PreMed at Miami University

**Alison Levy** in Chemical Engineering at Cornell University

**Sarah Mattingly** of Green High School

**Eric McClanahan** in Chemical Engineering at the U of Akron

**Tara McCoy** in Chemical Engineering at the U of Akron

**Jordan Michael Mihalik** in Electrical Engineering at Grove City College

**Mitch Shipman** in Chemical Engineering at the U of Akron

**Nathan Spencer** of Coventry High School

**Crystal Woodside** in Biology at John Carroll University

And the 2005 Science Fair Winners were:

**Akron Science and Technology Expo –  
Feb. 26, 2005**

Sae-Jin Chung and Emre Kuguoglu –  
Firestone High School

“How Strong Are Adhesives Really?”

**Western Reserve District Science Day –  
March 5, 2005**

Matt Dahar - Solon High School

“The Tensile Strength of Composites”  
and

Kyle Radin - Incarnate Word Academy  
“Don't Throw Away Money . . . Recycle It!”



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## THANKS FOR A GREAT YEAR!

Greetings to all SPE Members,

The past year has been an exciting and fun-filled year for me as President of the Akron SPE chapter. The experience of meeting many of our members throughout the year at our monthly events has been most gratifying to me. The comradery and fellowship of the group is strong and has been evident in the our success of the past year. You should be proud of our local leadership, who spends much of their time bringing our members the best insights into the plastics industry

I want to thank the Board and all of our members for a terrific year, and I look forward to the 2005/2006 year

President of our Chapter next year will be Dr. Lloyd Goettler from the University of Akron. I am sure he and the board will continue to motivate us with great schedule of events.

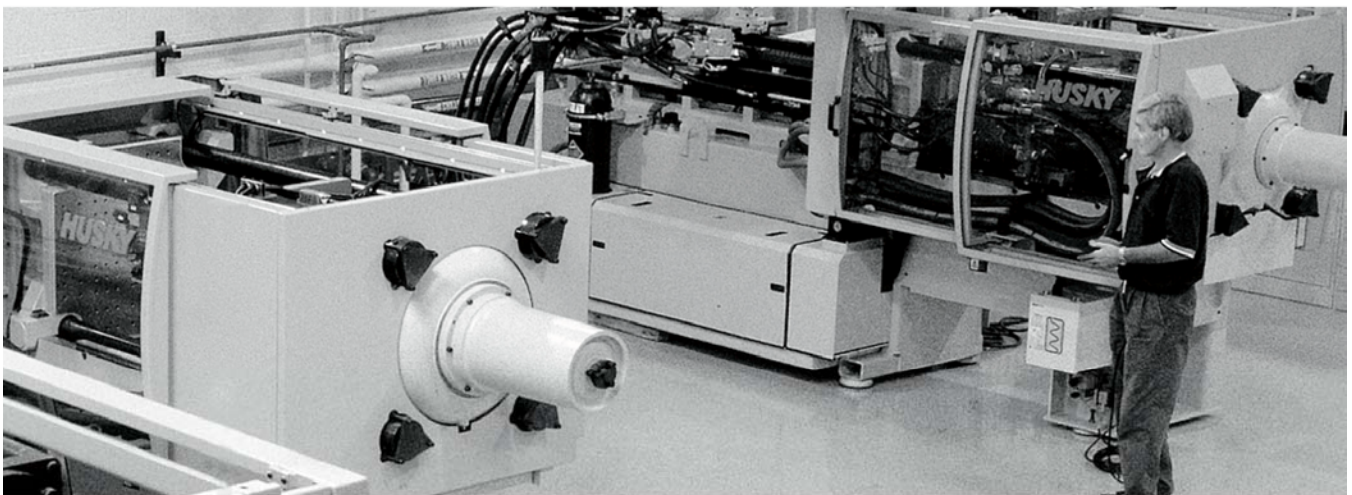
Many Thanks,

*Joe Mattingly*

*Outgoing President, Akron SPE*

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## Membership Report – May, 2005

I have not had the opportunity to do the membership report with the latest information. For that, I apologize.

The Section continues to grow at roughly the same rate as National. Our numbers are now up to 430+ and counting. Thanks to all the members who have picked Akron as their home section!

I would also to thank all of the members who have made our meetings this year. We are looking for ideas for next year. Please email me or John Woodside at [johnwoodside@ameritech.net](mailto:johnwoodside@ameritech.net). John is our new Program Manager next year, and now is a good time to send him some ideas and input for next year.

To all of the Akron Section members, have a nice summer and see you in the fall!



### Akron Polymer Training Center

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](http://www2.uakron.edu/aptc) for a complete list of our current course offerings.

#### Customized Development and Delivery

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

Our programs are designed to enhance on-the-job effectiveness for all professionals working in the polymer field. If you are experiencing difficulty with polymer-related design or processing problems, contact us. Our reliable and dedicated staff will work with your team to develop a training strategy guaranteed to produce results. Contact Tayba Tahir by phone at **330.972.8661** or email Tayba at [tahir@uakron.edu](mailto:tahir@uakron.edu). If you don't see what you need, no problem! We have the resources to solve even the most vexing polymer processing and design issues.



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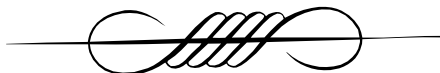
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## Akron Section SPE Past Presidents

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1959-1960	Donald F. Siddall	1982-1983	James Steiner
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



## Past President's Team

The Past Presidents team met several times over this last SPE year. We reviewed possible projects for the team of 12. The one project that seemed to interest all was the "Business of the Year" Award. We defined some criteria and are still refining it at this point. We expect to have it in place for the 2005-2006 SPE year. We've had good turnouts at our meetings. It's fun to reminisce about the events of the past and how the Akron Section and the society have evolved over the years. Have a great summer.



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 [lagoett@uakron.edu](mailto:lagoett@uakron.edu) or Cameron Fraser at (330) 972-6008 [cfraser@uakron.edu](mailto: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

## SPE Student Chapter News

Hello!! My name is Jane Fujyama Novak. I am currently a Graduate student at the University of Akron. I would like to have you get to know me. I was born in Brazil and I got my Bachelor and Master degrees in chemical engineering.

During 10 years I enjoyed a great challenge while working in a petrochemical company and I feel that I could play an important part in your company. I came to the University of Akron to study polypropylene nanocomposites with Professor Miko Cakmak because of his world renowned reputation on investigation of structure and property relationships in various polymer processes.

For further information about my academic/industrial interests or graduate work, please feel free to contact me at e-mail address [janeopp@yahoo.com.br](mailto:janeopp@yahoo.com.br). I will be available for company interviews after May 2005 and I will complete my degree work on September 2005.



# Minutes of Board Meeting – May 9, 2005

**Call to Order:** 5:35 p.m. at Americhem

**Present:** Viv Malpass, David Schultz, Tony Dean, Lloyd Goettler, Gary Taylor, Joe Mattingly, Kathy Perevosnik, Amruth Puttarudraiah, Joe Pfeiffer, Josh Wong

Absent - Bob Wegelin, Kevin Malpass, George Carroll, Bud Seymour, Jerry Robinson, Ernie Anderson, Zehra Kalkan, Ron Miller, John Woodside, Cameron Fraser, David Katz, Hemant Thakkar

Thanks to Americhem for hosting.

**SPECIAL CONGRATULATIONS TO TONY DEAN - RETIRING FROM FERRO- MAY 31- 20 YEARS AND 5 MONTHS!!! He still plans to stay involved with SPE- THANKS, TONY**

Note: OLD Business now has past Action Items

**Minutes:** April minutes were approved. No corrections.

**Treasurer:** Gary reports that the checkbook is in good shape. Kathy reports she will forward some new Advertising money.

**Officers, 2005:** Nothing noted.

**Awards 2005 Update:** Kathy reports that: all is going well, last minute details being worked out- No Hall of Honorees for this year, Zekan Award will go to Joe Pfeiffer- longtime very active Board Member!! Congratulations Joe!!! Need others to help too!! Cameron to contact Kathy with additional details on Gerry Faust. Tom Conklin- Administrative Director- International SPE. Joe Mattingly to provide Kathy with past Star Awards, Joe Pfeiffer will also. Need contact from Goodyear re PR.

**Student Chapter:** Prof. Goettler reported that all went well with Students at ANTEC, there may be additional monies left from initial money provided to Student Chapter. Cameron and Lloyd will review and report.-- ANTEC-Boston 2005. A Univ. of Akron Reception went well. Lloyd reports that Exhibits were not well attended. Need to rethink format at International. Technical talks well attended. 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 May 27 for Summer- last issue.. Presidents message, Councilors notes, program list, board list, last year's ads, and a NEW Consultant's Corner-Technical Articles, Technical advice, Graduate Student review of Qualifications.

**Membership:** Joe reports we are now at 429 and steadily growing. International currently up from 2004 to 20,699!! Joe plans to provide list of Members and their Divisions to help in planning for 2005/06.

**Councilor's Report:** Viv reports that he attended both Council Meetings at ANTEC Boston. High Priority-Vote on Rebate- much discussion and emotion- Plan to budget rebates and pay Qtrly to Sections/Divisions starting 2006 at same rate as in the past.--- PROMOTE AIM- Viv has stressed Akron BOARD Members- those ACTIVE in Leadership roles need to Promote AIM. In addition alternate methods besides word of mouth from the Leaders should be explored as well.





# Minutes of Board Meeting – May 9, 2005 (cont.)

**New News:** Pittsburgh Section has been resurrected Thanks to Dick Cameron- Viv to check with Dick to determine plans of Action for Akron- reference- companies. Columbus Section has to be disbanded and members sent to other local Sections- Need to determine which ones we might have from Columbus.

**TPE TOPCON 2005:** At present confirm 34-36 Papers, more update after May 11-Hilton 5:30 PM. Need to have attendees. Prof. Goettler will contact interested Sponsor re with Akron Section- Toth Mold- Tom Shaugnessey to determine interest in TOPCON sponsorship along with Awards for 2005.

**Education Committee:** Essays for next year to tie with ACESS for future targets. IDEAS for Husky 2006 were noted as possible subjects to build a project around including: ACESS 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 have been awarded.. Kathy will continue with Education but will not be a Member of the Board- Good luck Kathy and keep up the hard work on behalf of Education!!

**Education Foundation:** Check status of all contributors including Gen Corp. Amruth Puttarudraiah 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. Need latest information re investments for last Meeting- June 8??

**Website:** Tony has confirmed Polysort wants to work on yearly deal. Tony will confirm what price they will need to pay for Advertising in Newsletter. Need to continue to ad links to common groups in Akron area- Tony dean to handle- Ohio Rubber and Plastics, Akron Section- ACS, Chemical Engineers Society.

**Advertising:** Need to have new person for Advertising soon for summer set of Advertisers. Kathy to hand over the books. GREAT job Kathy!!!

**Auction:** Decide how to proceed for 2006.

**Program:** Program has been finalized for Guys- May 16- Awards Night. Suggest linking to speaker and tour companies on our website to increase attendance.

**House:** David Katz to contact Appetizer Sponsor- Toth Mold and confirm type and monies.

**Fall Golf:** No Outing for 2005.

**Spring Golf:** Date set for May 13, 2005 at Barberton Brookside. Cleveland Section has expressed interest. David Katz and or Bud Seymour will help a Chairperson- Gary Taylor and Cameron Fraser have also both agreed to help. Joe will handle photos for Tony.

## Old Business:

- Viv was to check with International on Student Chapter- PESO status at ANTEC.
- Viv checked and confirmed that Intl. Determined that Directors and Officers Insurance would cost \$1200/year. Cameron was to check with Local agent on similar insurance. It was decided that TOPCON-TPE would be a large enough event to be involved with and it might merit Akron Section to pursue. The TPE TOPCON Committee reviewed and decided that it was not necessary to add as an Expense. This will be reviewed further.

•Joe Mattingly officially requested each Board Member to contact and document 5 potential candidates to be a SPE Member---AIM PROGRAM.



# Minutes of Board Meeting – May 9, 2005 (cont.)

## New Business:

- NEED to look into Company Sponsor idea for Events or portions of events.
- ACCESS Meeting- Joint Society Meeting planned for April 28.
- 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. It is in process after meeting in late February.

**Closing Comments:** Adjourned 7:07 PM. Next board meeting is tentatively June 8 at 5:30 PM- at Erie Street Grille or Casa Mi Mi's.

Dinner and Wrap up year 2005

Separate e-mail to be sent- determine place and time.



## Spring Golf Outing – May 13, 2005

The spring golf outing was a fine event this year. We had a chilly day to start off but by the time the golfers were doing the back nine, the sun came out and we finished with the great lunch organized by Dave Katz. We had 47 golfers turn out for the event. Bob Burwell won low gross, but the longest drive went to the rookie, Ryan Seyler.

Thanks to all who participated and thanks to the committee for organizing the event.



## SPE Student Chapter News

Hello!! My name is Karnav Kanuga and I am currently a Graduate student at the University of Akron. I would like to have you get to know me. I was born in India and pursued my bachelors in Chemical/Plastics Engineering from Gujarat State University.

I came to the University of Akron to study polymers with Prof. Cakmak because of his world renowned reputation for polymer optics, nanocomposites as well as film processing and morphology studies. My research work involves developing and characterizing novel polyester based nanocomposites, studying the optical as well as mechanical properties of polymer films and structural studies. It is now my goal upon graduation to help an employer develop new polymer products, understand structure-property relationships especially with nanocomposites and optics.

I enjoy a challenging work environment while working with a team of people. For further information about my academic/industrial interests or graduate work please feel free to contact me at e-mail address [kdkanuga@yahoo.com](mailto:kdkanuga@yahoo.com) or at my contact no. 330 714 3353.

I will be completing my degree work by August 2005.



## Councilor's Corner

Your Councilor attended the Section, Council of the Whole and two council meetings at the Boston ANTEC from April 29-May 4. The main topic at most of these meetings was discussion and voting on a new rebate policy for SPE. Basically, the new rebate policy was approved to commence in 2007. The old existing policy will be reinstated for 2006 only. The new policy requires inclusion of total rebate dollars in the SPE budget, quarterly payments to Sections and Divisions instead of every January, rebates to be calculated based on dues-paying members only and submission of required financial statements as before. Division rebates will now be based on a tiered system similar to the Section's rebate calculation. No rebates will be paid to Sections or Divisions if their council seat has been declared vacant (no council attendance for 3 consecutive council meetings) or if regular communications cannot be demonstrated or if no activities plan is submitted for the year. Council must approve the budget each year, which will include the total rebate for that year. Spreading the rebate payments out helps with managing the cash flow of the Society.

At the Sections Meeting, the main item discussed was the proposed new Pinnacle award for Sections and Divisions (which will replace the existing Star Award for Sections and Pride Award for Divisions). More information sharing and discussion was requested. TOPCONs continue to be a major success for the Society. Your Councilor invited everyone to attend our TPE TOPCON this coming September. Dick Cameron of the Pittsburgh Section gave an excellent account of "renewing" their Section by personally recruiting younger new Board members from local industries and actively seeking support from local companies. We can learn from their rebirth as an active Section!

Items discussed at the COW were the state of the Society, the status of the ANTEC repositioning to attract more industry support and participation, SPE/SPI interaction and regional cooperation. SPE membership is on track to increase by 2% for 2005, with the new AIM program contributing 20% new members out of those contacted. The ANTEC registration was 2658, which was close to budget. Society expenses are down and a net income should be realized this year. Your Councilor gave a short presentation on ANTEC repositioning. ANTECs continue to be a major financial uncertainty and value concern to the Society. The status of the ANTEC Revamp Committee was discussed, as was their plans to "IMPROVE" ANTEC. The future of ANTEC will be a continuing focus for the Society, and the need for prioritization and effort to improve was emphasized.

The Council approved the charter for the new Flexible Packaging Division and two new SIGs were presented to Council: Nanotechnology and Micromolding. A Student Chapter was established at the University of Mississippi.

Len Czuba is your new International SPE President for 2005-2006. His theme is: Connect, Collaborate, Compete.

The next Council Meeting will be in Milwaukee, Wisconsin on September 24, 2005.

Have a Wonderful Summer!!!

*Viv Malpass*



# Akron SPE Section Meeting Questionnaire

1. What type of meetings would you like to attend (technical, tours, entertainment, special events [auctions, awards], etc.)? Or do you just prefer a mix as we presently do?
2. Our meeting frequency is monthly from October through May. Do you feel this frequency is good and, if not, how often should we meet? Also our meetings have been every 4<sup>th</sup> Monday evening of the month. Would a different day increase attendance?
3. Do you have a preferred location and, if so, where would that be? Or do you prefer a variety of venues?
4. Is the time after work from 5:30 to 8:00 p.m. convenient, or would you prefer having more luncheon meetings?
5. Any other comments on how we can increase attendance and make our meeting more attended?

Send responses back to [jepfeiffer@santoprene.com](mailto:jepfeiffer@santoprene.com). Thank you for your thoughts and ideas.



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## 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



**Akron Section Society of Plastics Engineers**

Joe Mattingly, Advertising Manager  
330-929-4213, ext. 274

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**Insertion Order 2005-06**

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Delivered via email, stored at <http://www.akronspe.org/newsletter.htm>

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# Society of Plastics Engineers

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# 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)  
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**Gender:**  
 Male  Female

**Birth Date:** (mm/dd/yyyy)  
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signature \_\_\_\_\_ date \_\_\_\_\_

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