

Polymer Valley News

The Newsletter of the Akron Section of the Society of Plastics Engineers
Our 45th Year of Education and Service to the Plastics Industry

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Costs, Schedules, Reservations

None noted at this time.

Education Scholarships

This year, the Akron Section Education Committee and Education Foundation members were able to award \$17,500 in scholarships to 13 worthy applicants from within the Akron Section boundaries. We had 5 new winners and 8 renewal awards this year. The winners are high school and college students who are interested in studying and pursuing a career in the plastics field. The Education fund is set up so that we can award similar amounts of money in future years. Congratulations to all our winners!

For more information on scholarships and other awards, look at our Education pages or contact Kathy Perevosnik, Education Committee chair, or Kevin Malpass, Education Foundation chair.

2004-05 SCHOOL YEAR

Nathan Klettlinger –
*Goodyear Tire and Rubber
Company Scholarship*
Kathleen Rollick –
Newell-Rubbermaid Scholarship
Alison Levy –
*Kenneth L. Sharp Memorial
Scholarship*

Akron Section SPE Special Merit Scholarships

Matthew D. Ebie
Will Harper
Paolo Hilj
Laura Jones
Tara McCoy
Jordan Michael Mihalik
Janet Christine Schiffer
Nehemiah Scott
Darnell White
Crystal Woodside

Coming Up:

- Board meeting Aug. 16, 5:15 p.m.
at Americhem, Broad Street



Scholarship Awardees

President's Message

Greetings,

I am honored to be the new president of the Akron Section and welcome you to the 2004-2005 SPE year. We continue to have a dedicated group of officers and members who have worked hard over the years to bring to our constituents exciting technical programs and social events throughout the year.

Many Section officers and active members have transformed our Section into one of the premier sections of SPE in the nation. Our members should be aware that our Section has now received the prestigious SPE Star Award from the National Office for three consecutive years. Our ranks have been rejuvenated with new members and we now have over 430 local members. We have created and maintained an informative and active website at www.akronspe.org that allows not only our local Section members access to our current schedule of programs and activities, but provides important links to national and regional activities in plastics related fields. We continue to play an important role in the heart of the plastics industry here in Northeast Ohio, and offer a unique forum for networking, educational, technical and social events.

As our industry continues to grow, the Akron Section wants to grow with it and you, providing our membership with the activities, events and information that interests you the most. We want your participation in as many activities as possible in the upcoming year and want to hear from you on the types of events and activities that interest you. Please feel free to contact me with your suggestions and feedback. I am looking forward to seeing more new faces at our schedule of events throughout the upcoming year.

I hope all of you have a happy and healthy summer.

Thanks,
Joe Mattingly, President



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Note From Program Chair

As the new Program Chair, I look forward to providing a grouping of interesting and instructive programs for the Akron Section meetings next fall and spring. My goal is to provide at least one program of interest to each of our 400+ members. If my math is right, we should then have at least 50 members present at each of the eight intended meetings, not to mention guests.

When you think about it, the reason for belonging to the SPE is to network with others in your field and learn about new products and developments. So, please send me your ideas for an interesting program, and then come out to support the Section and have a good time with your SPE friends and colleagues.

I look forward to hearing from you and meeting all of you in the next year.

Lloyd Goettler
lagoett@uakron.edu, phone: (330) 972-7467

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Section Treasury Statement

The financial condition of our section is very strong. While we have yet to close the books on our 2003/2004 calendar year, our Section's cash position grew significantly over the period by some \$16,000. I anticipate that our final cash position will be around \$33,000 at close.

Primary to this success was our involvement in the TPE TOPCON, dues rebates, E Newsletter and the responsible actions of your board. Donations made from the Section during this period include \$10,100 for the Education Foundation, \$2,000 for Polymer Student travel to ANTEC and \$380 donated for science fairs and essay contests.

Significant to our future is the planned withholdings of the rebates for the next two years by National. This is a sacrifice that is being spread to all sections with some hardship clauses when appropriate. We do not see this having a significant impact on the section during this period.

Plans are in the works for us to host the 2005 TPE TOPCON, which we have every confidence will be equally successful.

Gary Taylor



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THANKS FOR A SPECIAL YEAR!

The Akron Section had a great year. A big **THANKS!** to our Board of Directors for all their hard work this 44th year. We finished the year with 12% of our membership turning out for Awards night.

The Golf Outing and Auction was successful and we received lots of kudos on the structure of the event. Thanks Golf Committee.

Our House and Program Committees provided us with an excellent venue and menu this year. Keep up the fabulous job.

I started out the year with the message that my hope for this year would be to help our Section revitalize and provide incentives for our members to be a participating part of the Akron Section and International. Those incentives were:

Technology that is cutting edge presented at local meetings.

Interesting tours and pertinent business information to keeping us working with efficiency and integrity.

Networking, with our peers, to further expand our knowledge and careers.

Great fun and social events to help our thrust toward providing educational assistance for students pursuing a career in Polymers.

Lively articles in your personal copy of our newsletter and Plastics Engineering Magazine.

Exciting values on books, conferences and web training

We hope you to felt that Technical “**TINGLE**” with the possibilities that our Akron Section and SPE offered. Thanks to the members that felt it, I believe we stirred a few spirits and that the move forward will continue. The possibility for a merger with the Firelands Section is still brewing and could be a reality in the 2004-2005 year.

The Akron Section joined (ACCESS) Akron Council of Engineering and Scientific Societies. This will allow us to work deeper into the educational system by getting us in touch with the younger children (K-12) and interfacing with other societies such as ACS, ASME, SME and AIChE, to name a few.

As of this issue, our Section has **more members than the Cleveland Section**. This is also a plus, in that our Section has historically 100 to 220 members less than Cleveland.

We gave out \$18,000 in scholarships and about \$300 in prizes at science fairs. Our Education Committee spoke about plastics in the school classroom.

Thanks to the Webmaster for all his hard work to keep us electronically sound. Our all-electronic approach seems to be working.

The Section received the STAR Award from HQ.

Our 44th year was a good one. My personal thanks to all who contributed time and effort to keep our vision moving forward.

HELLO IS ANYBODY OUT THERE? YES, looks like there is, but please tell a board member **what will bring you out to a meeting next year!** (free doesn't work). It's **YOUR Section**; may we count on you to be a contributing part of it? Your opinion is valuable. **E: MAIL ME** robert.wegelin@santoprene.com

Have a blessed Summer!

See you at our next meeting !!! (Check the web site)

GET THAT **SPEcial COMPETITIVE EDGE**

Thanks,
Bob Wegelin, Past President



Spring Golf Outing - Brookside



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Email: tahir@uakron.edu

This two-day seminar focuses on optimization of process parameters and extruder configurations for most compounding applications. Enrollment is limited, so register early. ***Don't miss out on this opportunity to improve the productivity of your compounding resources!***

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Awards Night

The annual Awards Meeting was held on May 24 at the Martin Center at the University of Akron. Our guest speaker, Dr. Mike Fisch from Kent State, gave an inspiring opening message on plastics and how important they will be to our society in the coming years. Mike's words were especially meant for the students who were receiving the scholarship awards from our chapter.

Sabrina Arrick gave a speech on what her scholarship meant to her and how it has helped her in her plastics career. Kathy Perevosnik and Kevin Malpass gave out the scholarships to the deserving students.

The Zekan awards were presented to Kathy Perevosnik and Jeff Stachler. Bob Wegelin was presented with a special plaque in honor of his receiving the Honored Service Award from National Executive member Tim Wormer. Ken Kear and Eddie Shen received a special award from Bob Wegelin for serving the TPE SIG for many years. Both have recently retired from AES. Lastly, Roger Lux and John Hickman were inducted into the Akron Hall of Honor.

Dave Schultz, Bob Wegelin, Tim Wormer



Alison Levy, Kevin Malpass

We had a total of approximately 50 members and guests. It was a very uplifting and rewarding finish to a good year for our technical meetings. Hope to see more of you at next year's meeting. I would like to thank everyone who helped me carry off another successful awards meeting.

Joe Pfeiffer



*Joe Pfeiffer,
Dr. Mike Fisch*



Joe Pfeiffer, John Hickman



Joe Pfeiffer, Roger Lux, Mark Welker





Reduce Set-Up Times – Without \$\$\$ Investments

Manufacturers are finding that machine set up times can be reduced to less than 30 minutes without significant investment. Many world class manufacturers' set up times are 10 minutes or less.

The Need for Set-Up Time Reduction

As industry becomes more sophisticated, more products are constantly made available to consumers. At the same time, more and more diversified varieties of products are appearing, to suit individual tastes. Henry Ford's observation, "You can choose any color you want, as long as it's black", no longer applies and is rarely mentioned, except in industry history classes. Not only do today's manufacturers have to produce a product of the highest quality, but they must also be flexible enough to produce a whole range of products, as demanded by their customers. All this without increasing lead times or prices!

Unless you have dedicated lines for the different products (a very expensive option), this need for flexibility causes changeovers and set-ups for the new production runs. If you ask production managers what their biggest headache is, most will respond with 'low volume, high variety products and frequent changeovers'.

For a very long time, the belief was held that the effect of changeovers on production could be reduced through long runs or large lots. This solution, however, increases the inventory of finished goods, and the resulting cost of working capital could offset the savings in terms of lower unit cost. The concept of 'Economic Lot Size' is based on the lot size where the sum of set-up cost and inventory holding cost is at a minimum.

This concept is theoretically correct, but it is based on the flawed assumption that set up time is a given and cannot be reduced. In fact, the Single Minute Exchange of Dies (SMED) technique showed that set-ups could be reduced to below 10 minutes on most equipment.

6-Step Set Up Reduction Plan

Step 1:

Put in place some measurements so you can tell if you are improving. Determine the following and display the data graphically. Be sure to update the graphs weekly.

- Current Work-in-Progress (WIP) - measured in terms of \$\$\$ or total pieces
- Current average lead-time (in days)
- Average set up times (in minutes) of the "worst" 20% of all machines or processes
- Average number of late orders at any point in time
- Average batch size

Step 2:

Implement a set up reduction project on the machine/process that is the biggest bottleneck in the facility. Your initial goal is to reduce the set up time by 50% without spending money.

Step 3:

After you've reduced set up time on the #1 problem by about 25%, begin reducing set up times on the next 2-5 worst offenders. Again, your initial goal is to reduce the set up time by 50% on each of these without spending money.

Step 4:

When these initial setup reduction projects are complete, reduce batch sizes by at least 25%.

... continued

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Step 5:

By the time you reach this point, your lead-times should be down by 25%, and late orders probably won't exist. Your WIP is also down 25%, along with corresponding inventory carrying costs. Now, that most of the low-hanging fruit is gone, go back and review your original bottleneck. Were there any ideas suggested for reducing set up time further, with small capital investments? If so, implement them, and reduce batch sizes similarly. If not, investigate other ways to increase the productivity of this machine (constraint management).

Step 6:

As soon as the facility is operating smoothly with a 25% reduction in WIP, reduce batch sizes again, this time by 10-15%. Issues (other than set up) will come to light, exposing additional opportunities for improvement. For example, large batch sizes mask quality problems, machine downtime, absenteeism, material shortages, etc. Address these as they arise, and continue reducing batch sizes. Keep in mind that set up reduction is a continuous improvement activity.

Basic Tips to Reduce Set Up Times

- Make sure your definition of set-up is: "the time between the last good piece off the current run and the first good piece off the next run, while running at optimum rate".
- Understand the difference between internal and external activities.
 - Internal activities are those that MUST be done while the machine is NOT running. For example, on a welding machine, changing the welding probes is internal – you have to change them while the machine is stopped.
 - External activities are just the opposite – activities that are done while the machine is running. For example, retrieving parts and tools for the upcoming order can be done while the machine is running.
- Now that you know the difference, make sure to actually perform external activities AS external activities. For example, if the machine operator is also responsible for getting parts for the next order, have someone else do this while the machine is still running. There are numerous examples of operators taking lunch or breaks during the changeover of a 5-digit dollar figure machine with limited capacity – have someone else fill in on the changeover and make "lunch" a true external activity.
- Change as many internals as possible to externals. Get parts, tools, etc. ahead of time. If the changeover is being help up pending first-piece inspection, do a study to determine the risk of running while first-piece inspection is being done. Specifically, if this part has NO history of failing first-piece, then go ahead and run, isolating part just in case this is a once-in-a-lifetime failure. Another example, if a part (die, mold, etc.) needs to be hot to operate properly, pre-heat it offline.
- Reduce the time it takes to do internals. Use two people to perform the changeover. Replace bolts with dowel pins or notches. Use quick disconnects.

Additional Specific Suggestions

- Use a gopher to do external tasks. Don't allow a \$100,000+ asset to remain idle for the sake of a \$10/hour material handler. Ensure that everything needed for the changeover is already organized and on hand BEFORE the changeover begins.
- Try to position and orient everything so that the changeover operator moves arms but not legs.
- Color code to prevent mistakes.
- Use guides and stops for quick placement of fixtures and dies. Eliminate variable adjustments (use block gauges).
- Put changeover tasks in a checklist. Revise the list as the set up procedure (i.e., time) is improved.
- Graph your progress. Set goals/objectives (50% reduction; 75% reduction; 10 minutes; etc.) and draw these in on the graph.
- Do not allow deviation from die and jig standards.
- Videotape the changeover and review for opportunities for improvement.
- Use teams for additional ideas.
- Eliminate bolts – on those you can't eliminate, remove most of the threads. Use a few common sizes of bolts/nuts to reduce the effort/time required to find wrenches, etc.
- Organize work areas. Organize tool cribs.
- Pre-heat and install parts hot. Remove hot.



Minutes of Board Meeting – May 10, 2004

Call to Order: 5:30 p.m. at AES.

Present: Ron Miller, Joe Mattingly, David Katz, Bob Wegelin, Joe Pfeiffer, Lloyd Goettler, Johanna Baena, Ernie Anderson

Absent - Kathy Perevosnik, George Carroll, John Woodside, Bud Seymour, Jerry Robinson, Gary Taylor, Tony Dean, Kevin Malpass, David Schultz

NOTE ACTION ITEMS – IN BOLD

Minutes: April minutes as prepared by Dave Schultz were reviewed and approved.

Treasurer: Gary was present and provided a Treasurer's report showing a balance of \$33,146.80 as of 5/10/2004 without collecting April's meeting receipts or paying out the costs of the April meeting.

Officers, 2004: Dr. Lloyd Goettler has recently stepped up to be our new VP-Program for 2004/05 year.

Awards 2004 Update: The banquet arrangements are in place. Joe Pfeiffer has found the older pictures from the past and will arrange for their placement at Akron University. The group reviewed the candidates for the honors banquet awards: Roger Lutz and John Hickman will be honored, Mike Fish will be the presenter from Kent State. The William Zeken award will be presented to Jeff Stackler and Kathy Perevosnik.

Student Chapter: Johanna Baena was present and informed the group of a student chapter picnic at Monroe Falls Park. Polymer Processing Society Conference PPS-20 will be held in June. Scientists will attend from all over the world. SPE should be prominently displayed as a Sponsor - with Table Top.

Newsletter: If you have anything for newsletter be sure to forward to Joe Pfeiffer or Jenny Digiantonio by June 25th: Presidents message, program list, board list, last year's ads, and a NEW Consultant's Corner- Technical Articles.

Membership: Joe reports that current membership is 423!!

Councilor's report: **None.** Dr. Viv Malpass has offered to be our Councilor for 2004-05, replacing Ken Kear.

TPE TOPCON 2005: The group is awaiting approval of the conference from National.

Education Committee: Scholarship winners were notified and invitations sent out for the awards banquet. Kathy represented our Section at McKinley High School. Husky award will need to be reviewed in the fall.

Education Foundation: Kevin was absent, but reported to Bob that things were going well.

Website: Pictures from golf outing will be available for the website; Bob H will take pictures for Tony.

Program: We have had a successful year with increasing attendance at events; we need to continue the trend into next year. Lloyd will be working on new ideas as Program chair, with the SPE officers.



Minutes of Board Meeting (*continued*) – May 10, 2004

House: David Katz reports all locations seemed to have worked very well last year, particularly Erie Street Depot.

Fall Golf - Status is unknown for this year.

Spring Golf: Bud Seymour, David Katz reports 48 are signed up for the event. Shotgun start at 7:30 am. Ernie Anderson needs \$300 for seed money for prizes. The group approved.

Old Business: Firelands merger with Akron. Bob Wegelin is waiting to hear from Dennis Meade. ACCESS board meeting is planned for June 3. We can have 3 delegates - the president and two designees.

New Business: Group must encourage through personal contact the participation of our members, this seems to work best!

Gary Taylor moved and Ernie Anderson seconded the motion to adjourn. Meeting adjourned at 7:12 p.m.

Closing Comments: Continue to think of potential new board members and Committee Members for 2004-2005. Next board meeting TBD for dinner meeting.



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

Analysis and Testing

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- scanning electron microscopy
- atomic force microscopy
- optical microscopy
- laser microscopy
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- 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 – June 29, 2004

Call to Order: 5:30 pm at Piscatelli's.

Present: Ron Miller, Joe Mattingly, David Katz, Kathy Perevosnik, Tony Dean, Kevin Malpass, Bob Wegelin, Joe Pfeiffer, Lloyd Goettler, David Schultz

Absent - George Carroll, John Woodside, Bud Seymour, Jerry Robinson, Johanna Baena, Ernie Anderson, Gary Taylor

Welcome to two new Board Members and SPE members - Thanks to Dr. Lloyd Goettler - Cameron Fraser, Univ of Akron and Amruth Puttarudraiah, A. Schulman.

NOTE ACTION ITEMS – IN BOLD

Minutes: May minutes as prepared by Joe Mattingly will be dispersed with June minutes. Unofficially were approved, but will be reviewed by Board.

Treasurer: Gary was not present, but the books are in good shape with all outstanding bills paid. Joe Mattingly and David Schultz have bills being sent.

Officers, 2004: Dr. Lloyd Goettler has recently stepped up to be our new VP-Program for 2004/05 year - Thanks Lloyd!! **Board Members have been requested to bring a new candidate for Committee and/or Board Membership.** We have completed the Officers for 2004-05 year - **Need Auction Chair, Fall Golf Chair and Awards Night. Dr. Viv Malpass will be our Councilor for 2004-05.**

Awards 2004 Update: Joe Pfeiffer will hang all pictures at Univ. of Akron.

Student Chapter: Johanna Baena was not present but Lloyd informed us that all 25 students that attended ANTEC-Chicago greatly appreciated the Akron Section's help which allowed them to attend and participate at ANTEC 2004. Polymer Processing Society Conference PPS-20 – **plan to add some pictures to newsletter** - went very well, attended by 350 scientists from all over the world. SPE was very prominently displayed as a Sponsor - hard copy proceedings and with Table Top - Thanks to Joe Pfeiffer and Joe Mattingly for helping to man the Table Top. New President will be elected Sept., 2004.

Newsletter: If you have anything for newsletter, be sure to forward to Joe Pfeiffer or Jenny Digiantonio by June 30: Presidents message, program list, board list, last year's ads and a NEW Consultant's Corner - Technical Articles.

Membership: Joe reports that current membership is 435!! We are starting to climb with economic conditions improving.

TPE TOPCON 2005: Dates are set for TOPCON next year – Sept. 12-14. Ed Tam-Teknor will be representative from TPE-SIG working with Viv Malpass. First Local arrangements Committee Meeting set for July 7th at Hilton-Fairlawn at 5:00 p.m.

Education Committee: Kathy reported that Certificates have been sent out for all Scholarship recipients for 2004-05. We gave out \$18,500 in Scholarship monies for 2004-05 year. GREAT job to all!! ACCESS is using us as example of having an excellent Scholarship program - fly the SPE flag!! **Kathy reports she plans to get a Committee together over the summer to create proposal for Husky Award next year**
Need Volunteers - contact Kathy.



Minutes of Board Meeting (*continued*) – June 29, 2004

Education Foundation: Kevin reports that we are financially sound with growth continuing for the Foundation. Goodyear and Rubbermaid will probably be exiting the Foundation due to financial situations. Kevin to check status of all contributors including Gen Corp. We replaced past Education Foundation Members - Gerry Whitnoble and John Lesnewski, with Amruth and Ron Miller. 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 Dean reports is set at site.

Program: Program is being developed for 2004-05 year. Lloyd has put together a Committee including Bob Wegelin, Cameron Fraser and Joe Pfeiffer which will meet July 13 - Martin Center. Need input and ideas for Tours, meeting topics, locations, etc. Lloyd feels program needs to be very broad to attract a large audience, like new technology areas. Suggested Century Extruder Meeting with U of A- Sept. 12.

CONFIRM that all Sections surrounding Akron-Cleveland and Firelands have SAME dates. They must COMMUNICATE with us, i.e., Tour of Akron Plastic Lumber!!

Suggest linking to speaker and tour companies on our website to increase attendance.

House: David Katz reports all locations seemed to have worked very well last year, particularly Erie Street Depot.

Fall Golf: Need a member to handle for this year.

Spring Golf: Bud Seymour will probably continue to handle. Auction went well at Golf Outing - needs to be rescheduled at a more appropriate time if done again.

Board suggests that Auction format in the past is much more meaningful and is CRITICAL to continue.

Old Business : Firelands merger with Akron. Bob Wegelin has discussed with Dennis Meade. Dennis reports that he needs to have further discussion with his Board - plans to do that June 24 and get back to Bob. We believe this will happen but not officially until Jan. 2005 after discussing with SPE Intl.

New Business:

•David Schultz had previously informed the Board that the Akron and Northeast Ohio Rubber groups will merge – Jan., 2005 starts the new Group that will be called called North Coast Rubber and Plastics Group. **NEED ideas on how we can both prosper by the move.**

•**Thank you Akron Section - Joe Mattingly for Dinner. We all worked hard throughout the YEAR. Congrats to Bob Wegelin - three timer!!!**

Joe Pfeiffer moved and Ron Miller seconded the motion to adjourn. Meeting adjourned at 7:22 p.m.

Closing Comments: Continue to think of potential new board members and Committee Members for 2004-2005. Next board meeting on Aug 16, 2004 at Americhem 5:15 p.m.

HAPPY SUMMER to ALL !!!



Akron Section Board of Directors

| | |
|---|---|
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Akron Section Society of Plastics Engineers

Kathy Perevosnik, Advertising Manager
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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!**

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| 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 <table border="0"> <tr> <td></td> <td>1 year</td> <td>2 years</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> | | 1 year | 2 years | US | \$6.00 | \$12.00 | Canada | \$9.00 | \$18.00 | Euros | €6.00 | €12.00 |
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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 with any questions. Thank you for your consideration.

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

