

Polymer Valley News

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

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Costs, Schedules, Reservations

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

Registration	11:30 a.m.
Lunch	12:00 p.m.
Presentation	12:15 p.m.

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

(330) 849-5287 T; (330) 849-5594 F
cathy.herrin@santoprene.com

Technical Meeting

November 21, 2005
11:30 a.m.

Tangier Restaurant
532 West Market Street
Akron, Ohio

Electrospinning Technology
By Darrell H. Reneker, Professor
Department of Polymer Science, The University of Akron

Electrospun nanofibers are finding many new uses. Improved process control is required. We are collecting new kinds of process data, and relating it to a process model.



Coming Up:

- Next meeting – December 15, 2005
- Board meeting – Nov. 19, 2005, Akron Univ. Polymer Eng. Center

Nov., 2005, Page 1



President's Message

Fellow Members,

The functioning of your SPE Akron Section depends upon the voluntary efforts of a small fraction of the membership who serve on the Board of Directors. We should all be grateful for the years of service from many of the current BOD members. They have led our Section to great successes in the past - rewarding educational programs, valuable scholarships, interesting monthly section meetings, specialized conferences such as the Thermoplastic Elastomer TOPCONs and the Mini-Tecs. Some of the work has been less exciting but no less important – keeping the financial records, maintaining the web-site, sending out the newsletter.

I am taking this opportunity to expound on the subject of leadership in the Newsletter because I want to reach the full audience of our membership. We need new representation on the leadership team, both to complement and perhaps to replace some of our current members. Sectors of the technical and business community not currently represented need to participate in the planning processes to ensure new programs and activities that meet all of our members' interests and needs. .

Because we currently do not even have a sufficient number of directors on the board to fill all of the committee and officer positions, .I am calling for new volunteers to step forward from among the membership to take on the challenges and responsibilities of a Board position. Yes, you may be hesitant, apprehensive over a long-term or time consuming commitment. Perhaps you feel that others are more qualified. (They're probably not.) But, I am asking you to consider the opportunity. An *offer* to serve on the BOD is just that, and it can later be withdrawn if your participation becomes a burden.

Please be assured that BOD membership is not just a one-way sacrifice of time and effort. There are positive returns, like the satisfaction that you are contributing to a worthwhile cause, the accomplishment of demonstrating your ability to be a leader (which may also strengthen your resume) and finally the opportunity to expand your network, which can produce unexpected benefits.

So, please act on your good intentions and contact me or any current Board member about joining the leadership ranks.

Hoping to see you at a future BOD meeting,

Lloyd Goettler
President, Akron Section



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Map to Tangier Restaurant 532 West Market Street Akron, Ohio

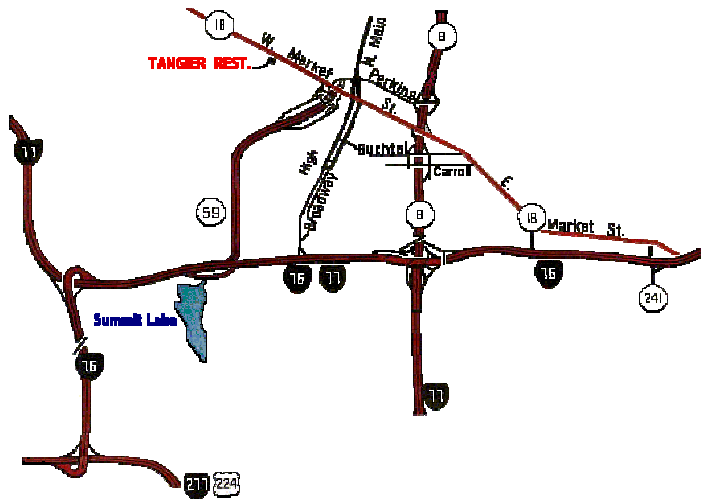
From North, Cleveland or Cleveland West - Route 71 South to Route 18 East (Market Street) to Tangier. Or Route 77 South to Ghent Road exit. Turn right onto Ghent Road. Proceed to W. Market Street (Route 18) and turn left to Tangier.

Cleveland East - Route 271 South to Route 8 South. Exit at Perkins Street. Turn right onto Perkins Street to High Street. Turn left onto High Street. Proceed to Market Street. Turn right onto Market Street.

From the South: Canton - Route 77 North to Perkins Street exit. Turn left onto Perkins Street. Proceed on Perkins Street to High Street. Turn left onto High Street. Proceed on High Street to Market Street. Turn right onto Market Street to Tangier.

From the East: Youngstown - Route 76 West to Broadway Street exit. Straight onto Broadway Street. (one way Street North) Proceed on Broadway Street to Market Street. Turn left onto Market Street to Tangier.

From the West - Route 76 East or Route 77 South to Route 59 North. Proceed on Route 59 to Market Street exit. Turn left onto Market Street. Proceed on Market Street to Tangier.



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Membership Report – September, 2005

Akron had 7 new members in September. This puts our total membership up to 408! See list below for new members.

We also had 2 transfers in and 4 out

Seven members also renewed in September, thank you.

Membership News from National

- National news, total membership is at 19,303. This number is 122 less members than one year ago.
- AIM is still running around a 21% conversion rate which is still much better than other methods. See the AIM web page for details, <http://www.4spe.org/communities/1d/aim.php>

Membership chair, Joe Pfeiffer,
Santoprene Specialty Products

New Members

New Members Welcome! All new members are invited to our next meeting free. Just show up with a copy of this printed article with your name on it and you get in free!

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

Gregory Anderson, Akron Polymer Products Inc.
Lesli Brooks, Mantaline Corp.
Patrick Burns, Quickey Manufacturing Inc.
Kelcey P. Cook, Multibase
Mike Mikolay, Struktol Company]
John Thompson, Omnova Solutions Inc.
Tulyapong Tulyapitak, University of Akron

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 4th 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. Thank you for your thoughts and ideas.



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SPE Student Chapter

SPE Student Chapter at the University of Akron held elections in August and the new committee is now in office. The new executive officers are Kaan Gunes (president), Rishi Kumar (vice president), Soojeoung Park (Treasurer) and Todd Lewis (Secretary). As the new committee, we are putting equal emphasis on both entertaining and educational activities.

Our leisurely activities started with the Welcome Picnic held on August 25th in the Monroe Falls Metro Park. This semester we will be holding activities including paintball, bowling night, fall carnival and Christmas party.

Our planned educational activities include career building seminars, plant trips and student seminars. For the career building seminar series, we welcome sponsorships and speakers from industry. We are planning to print a brochure of our department describing our facilities, faculty, current research and graduating students. We will be sending these brochures to industry aiming to increase sponsorship opportunities for activities and conferences as well as the number of jobs offered to graduating students. Our student chapter also funds students for conferences, and we need your suggestions and help to improve the interaction of students with industry. We would like to join SPE section meetings, especially plant tours. We are also planning to arrange more industrial trips for students, for which any contributions from SPE will be highly appreciated.

We are looking forward to interacting more with SPE Akron Section this year and would like to contribute to your activities whenever you need our help.

Kaan Gunes



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Programs for 2005 / 2006

Sept. 12-14	Thermoplastic Elastomers TOPCON -- Hilton Fairlawn	Feb. 27	Diamond Plant Tour Dinner Meeting
Oct. 17	JSW "Twin Screw New Technology" Lunch Meeting -- Tangier	Mar. 27	Mini-Tech Joint Meeting with ORPG and Firelands Stabilization of Rubber, TPE and Plastics
Nov. 21	Prof. Renecker of Polymer Science Akron University, "Electrospinning and Applications of Nanofibers" Lunch Meeting -- Tangier		3 to 6 papers on UV and light stabilizers, A.O., color stabilization and process aids Afternoon Meeting -- Guy's
Dec. 15	Student Union -- Univ. Of Akron	Apr. 24	Master Precision Molding "MUDD" Dinner Meeting
Jan. 23	Polymer Exchange Plant Tour (Plastic Recycler) and Eriez "Plastic Separation and Process" Dinner Meeting	May 12	Spring Golf Outing Joint Meeting with Cleveland - Barberton Brookside
		May 22	Awards Banquet Dinner Meeting




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 for a complete list of our current course offerings.

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

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



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Akron Section SPE Past Presidents

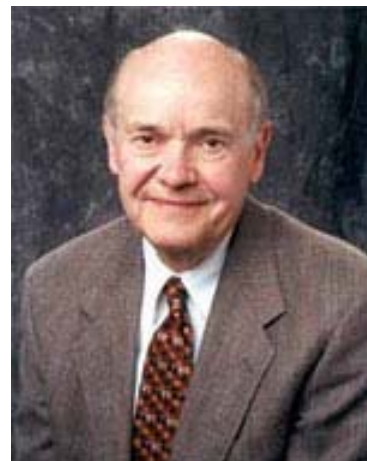
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1963-1964	Edward L. Hillier	1986-1987	Harry J. Barth
1964-1965	John R. Russell	1987-1988	Judith A. Fallon
1965-1966	John R. Russell	1988-1989	William E. Tosco
1966-1967	Clyde H. Jones	1989-1990	Robert Wegelin
1967-1968	Alan Corry, Jr.	1990-1991	Geraldine 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



Darrell H. Reneker, Biography of Speaker

Professor of Polymer Science
1959 Ph. D., physics, University of Chicago 1955 M. S.,
physics, University of Chicago 1951 B.S., electrical
engineering, Iowa State University



Research Interests:

Polymer physics; computer modeling of conformational defects in polymer crystals; morphology; scanning probe of microscopy polymers; electrospinning of polymer nanofibers.



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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

- 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



Councilor's Corner

Your Councilor attended the Sections Meeting, Council-of-the-Whole(COW) and Council Meeting in Milwaukee on September 23-24, 2005.



Sections Committee

At the Sections Committee, the need for improving communications was again stressed. We seem to be doing most of the suggested best practices—electronic Newsletter, website, welcoming new members, use many different ways to communicate. A Task Force has been formed to improve communications between sections and divisions.

The Western Michigan Section was spotlighted and their Councilor gave a brief description of their successes and failures. They are trying to promote jobs in the plastics industry because of the trend of high schools de-emphasizing plastics programs.

I contacted Dick Cameron of the Pittsburg Section and we agreed to exchange their experiences on revitalizing their section and our successes with TPE Conferences.

The most important achievement was the vote to recommend approval of a simplified version of the Pinnacle Award to replace both the STAR award for Section Achievement and PRIDE Award for Division Achievement.

Four candidates were submitted for VP Sections.

COW

Two main topics were discussed after presentations at the COW—the Proposed 2006 Budget and changes to the SPE Constitution and By-Laws both in preparation for voting at the main Council Meeting. Other topics discussed were the revised nomination process for Honored Service Member, membership, AIM program, regionalization of SPE and SPE Education Awards.

SPE Council Meeting

President Len Czuba described a newly created Hurricane Relief Blog to help SPE members who are victims of Katrina and Rita.

Treasurer Paul Anderson introduced the proposed SPE Budget for 2006. The budget shows a gross income of \$5,636,000, direct expenses of \$3,513,000, staff and overhead expenses of \$2,044,000 and a net income of \$79,000. Major assumptions are a 2% increase in membership and a successful ANTEC at Charlotte, NC next May. Council approved the budget by a clear majority vote.

The following motion was approved by Council: ***To amend the Constitution of the SPE by dissolving it*** As a result of the passage of this motion a special SPE Business Meeting will be held on Saturday, January 21, 2006 in conjunction with next Council Meeting in Albuquerque, New Mexico. This special meeting is required to vote on the dissolution of the SPE Constitution. A positive vote will allow this motion to be sent to the entire SPE membership for an all-member vote as required by the current Constitution.

At the Council Meeting in Albuquerque there will be a second reading of and vote on the *Adoption of the new SPE By-Laws*. These will replace the existing Constitution and Bylaws. The new Bylaws have been revised to have clearer wording, make it easier to read and use and align with current practices. It is important to note that a separate Policy Manual is being developed which will contain policies established by the Council, some of the committees and by Staff. This has allowed considerable simplification of some of the Bylaws.

If you have any questions or suggestions please contact me at tekmark@worldnet.att.com or phone 330-342-1120.

Viv Malpass



Minutes of Board Meeting – October 10, 2005

Call to Order: 5:38 PM at Akron University Polymer Engineering Center.

Present: Lloyd Goettler, Cameron Fraser, Tony Dean , Kaan Gunes, Dave Schultz, Vivian Malpass, John Woodside

Absent - Amruth Puttarudraiah, Kevin Malpass, Joe Mattingly, Bob Wegelin, Hemant Thakkar, Josh Wong, Rishi Kumar, Joe Pfeiffer, Gary Taylor, Dave Katz, Sadhan Jana

Note: OLD Business now has past Action Items

Minutes: September minutes were amended for oversights of past business, corrected day for Christmas Gathering with Student Chapter- Thursday, Dec. 15, 2005 and modification for NEW Topcon leadership and approved.

President: No report.

Treasurer: Gary not present but submitted report. We are in good standing. We will soon get seed money returned from TOPCON 2005.

Officers, 2005: Nothing noted.

Awards 2005 Update: Cameron reports there are many Awards that we will be applying for including: Star Award and Pinnacle both since this is Transition year (reversed decision from Sept. Board Meeting). Board agreed we should shoot for the Gold Pinnacle level- especially after Viv Malpass added information from Council Meeting. This will be handled by John Woodside and Joe Mattingly may help. In addition Newsletter- Joe Pfeiffer, Husky- Hemant Thakkar, Stretch- Student Chapter- Kaan Gunes. We will also nominate Tony Dean for Honored Service Member. Viv Malpass is Nominating Tony. Cameron plans to have all paper support complete by Oct 30 Deadline for HSM.

Student Chapter: Kaan Gunes reported they had a Paintball Outing- early October went well. Planning to have a Bowling Outing in Nov. set for Student Union Univ of Akron- date TBA. This will replace the Fall Carnival, will replace then have a Spring Carnival. The Xmas Party set for Student Union December 15, 2005 and would like to have many Board Members and Section Members present. Kaan-Will request help and input from David Katz or Bob Wegelin. Job Fair is still being planned, also request sites for Tour-Facility and Lab. Kaan reports they have also planned a Resume Book with next 6 months Graduates data ready by Oct.26. Sponsors Day at Polymer Engineering set for October 27-28.

Newsletter: Joe Pfeiffer not present: (1) All to supply Joe Pfeiffer with newsletter items by Oct. 21. (2) Joe to contact TPE TOPCON 2005 authors for short Technical article.

Membership: Joe reports we have 408 members for Sept. Joe will welcome all in newsletter and Invite as our Guests to October Meeting- Lunch.

Councilor's Report: Vivian attended the Councilor's Meeting in Milwaukee, WI on September 24. Main items include: 1--Approval of 2006 Budget based on 21,000 members, anticipate surplus for 2006 year. 2- ANTEC 2005 did well in Boston, 3--In process of replacing existing Constitution-replace with By Laws, create Policy Manual. ANTEC 2006 is in Charlotte, NC. Also NPE- June 2006- Chicago.



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

TPE TOPCON 2005: Plan wrap meeting for Oct 19 with Viv- details soon.

Education Committee: Hemant submitted a report: Essay contest set to go- requested monies for Essay Winners- \$50/\$100 plus \$50 for Teacher- Board agreed to provide. Also requested that essay from other areas be accepted- Board decided - NO other areas should be included. Kevin met with Hemant and Kathy Education Foundation details, concerning Out Reach. Need ideas!!!

Education Foundation: No report. Need to confirm Omnova's contribution for future. The goal this year is to get five new companies to donate at least \$2,000 a year. Suggested to contact Bridgestone/Firestone Charities since they will now host World Series of Golf for 2006 for Donation to Education Foundation- Need to confirm WSOG as potential. Joe Mattingly to help as NEW Member.

Advertising: We currently have about 8-10 ads running; more are needed. Action Item: Joe Mattingly to send rate page to BOD members.

Website: Tony Dean reported that website is up to date. Tony has discussed cost increase with Polysort. We are set to continue to grow our communication network. Plan to add Cleveland and maybe Firelands Calendars to site.

Auction: Nothing to report.

Program: Nothing to report.

House: Meetings are set for Location- October 17- Tangiers- Lunch, Nov.21- Tangiers- Lunch and Dec 15- Student Union- Univ. Of Akron. David Katz to confirm Jan 23- Plant Tour- Martin Center, Feb. 27 - Diamond Plant Tour-- Guy's, March 27- Mini- Tech- Guy's, April 24---MUDD- Martin Center and May 22- Awards- Martin Center.

Fall Golf: Nothing to report.

Spring Golf: Bob reported that the Spring Golf Outing will be May 12, 2006 at Barberton Brookside Country Club.

Past President's Committee: Joe will get together with Bob Wegelin regarding plans for committee. Original plan to run a Meeting for 2005-06.

ACCESS: Lloyd did not attend the past ACCESS Meeting- out of town that date-last Thursday of Month. Awards set for Nov 3- need representation. Dan Jones reports all Equipment from East HS. ACCESS appreciates the gift for their Awards and Scholarship Program.

Old Business: Nothing to report.



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

New Business: Program (John Woodside): Comments were:

- Program set for Oct 17- Lunch- Tangiers- need to confirm AV Equipment needed-John Woodside.
- Mini- Tech set for March 27, 2006 at Guy's. Details about Program in process-plan to invite Pittsburgh SPE Section and Ohio Rubber and Plastics Group- Topic Additives for Plastics, TPE and Rubber. Plan Meeting Time 1:00 PM until 7:00PM , 7 papers, Dinner Cost may be more than typical Meeting.
- Tentative- Polymer- Broad Overview C. Rader- Lloyd to check
- UV Absorbers- Everlight- John Woodside- Confirmed
- Ceramic Fillers- Cerco- Confirmed
- Color- Bob Charvat- Confirmed??
- Process Aids- Struktol-John Vanderkooi - Lloyd to confirm
- Specialty type Mixer- Process Controls Tom Worcester- Need to confirm
- Nano MBs- PolyOne- Lloyd to confirm
- John suggested that Reminder Wallet Schedule would be Good for 2005-06 Year- Contact Bob Wegelin for details and possible preparation
- Action Item: Lloyd or John to make calls to confirm.
- April 24- MUDD- Cleveland would like to attend- per Gary Casterline and Jeff Dininger

New TOPCON: Cameron reported for Josh that TOPCON on Display Technology is confirmed for October 23-24 at Univ.of Akron Student Center. Need help in logistics- Hotel, Meals, etc. Sponsorship- Exhibits and Publicity- Kevin Malpass has agreed to Guide on Sponsors and Exhibits. Plan to contact Bill Greenstreet for Brochure and CD suggestions/help. D Schultz :Noted that Oct 20-Polymer Ohio has Conference at Kent State- Liquid Crystals and Advanced Display.

Mentoring: OHIO- Central Ohio and PITTSBURGH Sections have asked for a Special Meeting to discuss: TOPCON- how to organize and run, Pittsburgh- Panorama for Success- Dick Cameron, other general KEY topics re Organization of a SUCCESSFUL Section.Central Ohio in process of getting started again!! Viv to discuss option of Youngstown for mutually close site- Avalon CC- for Nov 2005- on a Tuesday or Thursday. Need Board Members to attend!!!

Directors and Officers Insurance: Cameron Fraser brought worksheet- will continue to review and determine along with Lloyd if necessary for Akron Section.

The next board meeting will be Nov.19, 2005 at the Akron Univ. Polymer Engineering Center. Adjourned 7:19 PM.



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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.
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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





SPE EPSDIV TOPCON 2006: Recent Advances In Organic And Polymer Display Technologies

**October 23-24, 2006
University of Akron, Ohio**

Call for Papers



This topical conference will provide an update on the latest research in display technologies, with an emphasis on molecular and polymer light emitting materials and liquid crystal polymers. Major technical challenges will be addressed. Focus will be on materials design rules and processing and fabrication technologies. Confirmed invited speakers include:

**Dr. Ching Tang (Eastman Kodak Company)
Dr. Mike Lu (Universal Display Corporation)
Prof. Mary Galvin (University of Delaware)
Prof. Tom Jackson (Pennsylvania State University)
Prof. Stephen Cheng (University of Akron)
Prof. Satyen Kumar (Kent State University)**

Topics of Interest include but are not limited to liquid crystal and polymers materials design and synthesis; photolithographic and non-conventional patterning and processing technologies for device fabrication; device characterization; lifetimes and reliability.

Abstract Submission Deadline: February 1, 2006

Please submit abstracts to:

Prof. Lynn Loo, Technical Program Chair

**Department of Chemical Engineering, University of Texas, Austin, CPE 4.422, C0400,
Austin, TX 78712**

Tel: 512-471-6300, Fax: 512-471-7060, Email: lloo@che.utexas.edu

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