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

Newsletter Contents

Meeting Announcement Meeting Schedule, Cost President's Message Meeting Location Map Advertiser Index Speaker Biography Akron SPE Past Presidents Firelands Fall Golf Outing Minutes of Aug. 16 Board Mtg. Note - Technical Program Akron Section Board Members SPE International Contacts Info on Technical Program TopCon Call for Papers	1 2 3 4 5 6 7 9 10 10 11 14
•	• •
Insertion Order form – 2004/05 SPE Membership Application SPE Educational Foundation	15 16 17

Costs, Schedules, Reservations

Member	\$25.00
Member and Guest	\$45.00
Retiree	\$15.00
Student	\$10.00
Social	5:30 p.m.
Dinner	6:15 p.m.
Presentation	7:15 p.m.

Call Cathy Herrin before noon, Sept. 13, and specify any dietary restrictions.

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



Technical Meeting

Monday, September 20, 2004

Tangier Restaurant

532 West Market Street Akron, Ohio

Novel Impact Modification in a TPO System

By Anna Ploplis Andrews, Product Development Chemist Ferro Corporation



An innovative TPO, based upon a complex fluid, is described which shows an unusual balance of physical properties.

The effects of complex fluid composition are addressed in a statistically designed experiment. Physical performance, rheological effects, thermal analysis, and morphological characterization are reported.

> See page 4 for Ms. Andrews' biography

Board meeting Sept. 13, 5:30 p.m. at Americhem





Greetings and welcome to the 2004-2005 SPE calendar year. I hope everyone's summer has been enjoyable and relaxing.

I am looking forward to an exiting year of events, starting on September 20th, with Anna Andrews of Ferro Corp. giving a presentation on Nano Fluid Technology.

The Akron Section board is working hard to make this year's events enriching to all. I want to remind our members that our meetings are an excellent way to network and learn about cross-functional technologies in the plastics field. Our Section has strong interests in molding, extrusion and color, and our board is striving to give you the opportunity to meet and greet others throughout the industry. We encourage you bring a friend or colleague to enjoy the SPE experience.

Your participation is what makes SPE work better for you.

See you in September!

Thanks, Joe Mattingly, President



Introducing Twin Screw University™

"COMPOUNDING 101"

Twin Screw Extrusion Training Seminars and Workshops

Location! Location! Twin Screw University's "Compounding for Profits" training seminars and hands-on workshops are conveniently located near compounders to minimize travel expense and downtime. Operators, engineers and supervisors return to the workplace armed with techniques to immediately improve quality, production rates and yield.

Dates

Location

April 19-20, 2004 October 19-20, 2004

Akron Polymer Training Center, Akron, OH Contact: Tayba Tahir (330) 972-8661 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!*

For information on other seminar and workshop locations, call Extrusioneering International, Inc. (973) 895-4088 or visit our website, www.b4uextrude.com.



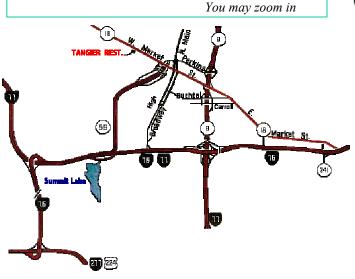
Map to Tangier Restaurant 532 West Market Street Akron, Ohio

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.





Plastic Raw Materials

Ben Maulorico Account Representative Osterman Trading Engineered Polymers Industries Prime Polymer Services International Polymer Services

17081 Greenwood Dr. Strongsville, OH 44149 (440) 572-4799 FAX: (440) 268-9160 CELL: (440) 382-0316 Customer Service: (413) 593-9600 E-mail: bmaulorico@osterman-co.com www.osterman-co.com



Advertiser Index

American Polymers, Inc	9
Ashland	10
D-M-E	3
David Industrial Sales	5
Extrusioneering International	2
Husky	4
Osterman & Company	4
Polymer Processing & Testing Services	8
Polymer Resources	4
PolyOne Distribution	3
Polysort	5



POLYMER RESOURCES LTD.

The Leader in Classic Engineering Plastic Compounds

- PRL PC Polycarbonate
- PRL PPX Modified PPO/PPE
- PRL TP PBT Polyester
- PRL PC/TP PC Polyesters • PRL PC/ABS - PC/ABS Blends
- PRL ABS ABS
- PRL PEI Polyetherimide
- PRL NY Polyamide

ROBERT SPANO

OFFICE: 330-633-9699 Fax: 330-633-9288

E-MAIL: rspano@PolymerResources.com CUSTOMER SERVICE: 800-243-5176 www.PolymerResources.com

Local support. Global competitiveness.

Anna Ploplis Andrews, **Biography of Speaker**

EDUCATION

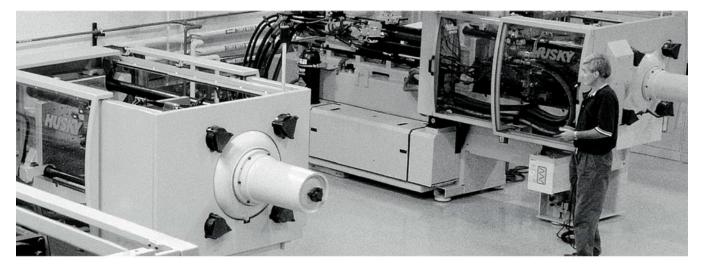
B.A. Physics, College of Wooster, Wooster Ohio M.S. Chemical Physics, University of Maryland, College Park MD Ph. D. Physical Chemistry, University of Maryland, College Park MD

WORK EXPERIENCE Assistant Professor of Physics, College of Wooster, 1993-1998 Product Development Chemist, Ferro Corporation, 1998-present

EXPERTISE

Nanocomposite plastic compounds Thermodynamics of equilibrium polymerization Applied physics

Philadelphia Technical Center



Our Technical Centers provide local access to a variety of services including:

- Equipment demonstrations
- Mold trials
- Resin trials
- Systems integration
- Service and spare parts
- Training

We focus on helping customers with automated systems solutions that drive operational and part costs lower.

Our product line includes: hot runners, machines, robots and complete systems. Other value-added services include factory planning, systems integration, training and optimization.

Husky. One company, one stop for all your injection molding needs.

Philadelphia Technical Center 105 Terry Drive, Suite 119 Newtown, Pennsylvania 18940 Tel. 215 497 9700 Fax 215 497 9701 Bruce Corey, Area Manager Cell: 330 806 2322

www.husky.ca





Akron Section SPE Past Presidents

45 years of excellence

1050 1060		1002 1002	
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

Gravimetric & Volumetric

A & J Mixing

Ribbon Blenders

· Single & Dual Rotor Mixers

Feeders

Vacuum Loaders

The Formula to Success on Internet

Content = 7raffic = Leads = Sales

Good web site **Content** brings highquality, high-volume **Traffic** that provides solid sales **Leads** and many opportunities for **Sales**.

For high-impact Internet marketing strategies, call (800) 326-8666 or (330) 665-5918.



Internet Marketing Experts for the Plastics and Rubber Industries





Dense & Dilute Phase Conveying
 Systems & Components



Crushers
 Shredders
 Mills

www.davidindustrialsales.com Richfield: (330) 659-3157 Perrysburg: (419) 874-1359



SPIROFLOWN?*



Rotary Air Locks
 Dust Collectors
 Components





W Monroe St Sandusky Menice Lake Erie Lima Sandusky Rd enice Ra Sandusko Aadarthur Park Bay 6 megardner Rd • Ranch Wood • Fairyiew Lanes 120 Sandusky South 110 Lincolnshire Tiffin Ave Southgate Acres 20 W Bogart Rd Sandusky-Clyde Rd • Castalia Columbus Park Bogart Wilmer 112 (101) Township Hwy 11 Weyers 13 Sand Hill Scheid Rd Bloomingville Township Hwy 32 Portland Rd kertown (99) Mason Rd Spears Com .0 km 1.5 mi @ 2004 Yahoo! Inc ©2003 NXV/TEQ



Woussickett Golf Course 6311 Mason Rd. Sandusky, OH 44870

Phone: (419) 359-1141

Minutes of Board Meeting - Aug. 16, 2004

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

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

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

Thanks for Americhem hosting, Joe Mattingly.

NOTE ACTION ITEMS - IN BOLD

Minutes: June minutes were approved, motion to accept - Joe Pfeiffer and second Tony Dean.

Treasurer: Gary reported the books are in good shape with all bills outstanding paid. There is a positive cash flow for 2003/04 year.

Officers, 2004: Dr.Lloyd Goettler is our new VP-Program for 2004/05 year-Thanks Lloyd!! John Woodside has agreed to be the 1st Vice President for 2004-05 year-Thanks John!! Dr. Viv Malpass will be our Councilor for 2004-05 year -Thanks Viv!! Viv will complete the remainder of Ken Kear's term - 2 years. Board Members have been requested to bring new candidates for Committee and/or Board Membership. We have completed the Officers for 2004-05 year - Need Auction Chair, Fall Golf Chair – 05 and Awards Night.

Awards 2004 Update: Joe Pfeiffer is still in process of getting all pictures of Hall of Honor recipients hung at Univ. of Akron.

Student Chapter: Johanna Baena informed us the Student Chapter will have an Orientation Picnic at Munroe Falls Park on Thursday, August 26 from 11 a.m. to 6 p.m. Munroe Falls Park is located east of Rt 91 (south of Rt-91 and Graham Rd intersection). **BOARD Members are Welcome and encouraged to attend!** A new President will be elected in Sept. for the Student Chapter.

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

Membership: Joe reports that current membership is 380 - anticipate Summer and renewal timing is cause for drop - **Joe to recheck with Intl**. We are starting to climb with economic conditions improving.

Councilor's report: Viv plans to attend Cleveland Council Meeting - Oct 9, 2004.

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. Gary Taylor has requested \$3,000 for seed money. A motion was made by Joe Pfeiffer and seconded by Tony Dean - Board voted to provide the seed money since the TOPCON 2003 returned seven-fold!!



Minutes of Board Meeting (continued) – Aug. 16, 2004

Education Committee: Kathy sent a report noting that the monies have been put in account and that Kevin should soon (Sept. 04) be sending out checks to Scholarship recipients. Kathy also reports that we still need to get the Committee together to create proposal for Husky Award next year- Need Volunteers-contact Kathy. Several ideas were noted as possible subjects to build a project around, including: ACCESS new schools-PR, Local Business support of Scholarship- more PR, PR article- Beacon Journal. Need to contact Sharon Kaffen re website maintenance-DRS to handle.

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 Whitnable 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 website is set for new year and all bills are paid. Tony to check with Polysort re cost for additional hot links on website. Tony will add New Officers and Program - Lloyd to forward finalized Program to Tony Dean.



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

- 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 drving
- sputter coating
- particle size reducing



Minutes of Board Meeting (continued) – Aug. 16, 2004

Program: Program has been all but finalized for 2004-05 year. Lloyd to finalize dates- during Board Meeting changed Van Dorn Demag - Nov 15 NOT 8, suggested to check on Barn re meal for Dec 6, also Cameron to confirm Lockheed Martin for March 21. Lloyd feels program needs to be very broad to attract a large audience, like new technology areas. **CONFIRM all Sections around Akron-Cleveland/Firelands have SAME dates.** Suggest linking to speaker and tour companies on our website to increase attendance.

House: David Katz reports September and October will be at Tangiers.

Fall Golf: Need a member to handle for this year 05.

Spring Golf: Bud Seymour will probably continue to handle - Need to confirm. Auction went well at Golf Outing - needs to be rescheduled at a more appropriate time if done again. <u>Board suggests that Auction</u> format in the past is much more meaningful and is CRITICAL to continue.

Old Business: Firelands merger with Akron. Bob Wegelin will continue to discuss with Dennis Meade. We believe this will happen but not officially until Jan 2005 after discussing with SPE Intl.

New Business:

 \cdot David Schultz had previously informed the Board that the Akron and Northeast Ohio Rubber groups merge has taken place – 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.**

· Cameron Fraser reports Univ. of Akron that Sponsor Day is Oct. 14 and Alumni Day is Oct 15.

· Bob Wegelin is looking into details/history of Twin Section United Kingdom.

Joe Pfeiffer moved and Tony Dean seconded the motion to adjourn. Meeting adjourned at 7:15 PM.

Closing Comments: Continue to think of potential new board members and Committee Members for 2004-2005. Next board meeting on Sept.13 ,2004 at Americhem 5:30 PM.



Note from Gary Casterline Cleveland SPE TOPCON

Profitable Quality Injection Molding Systems

Hi everyone,

I am helping to organize a technical program as part of the Cleveland Society of Plastics Engineers and the SPE Injection Molding Division. A copy of the program for this conference on October 11 and 12, as well as a copy of our advertisement, is included on pages 11 to 13 of this newsletter.

We have quite a wide variety of speakers broken up into Machine Technology, Processing Technology, Mold Technology and Plant Operations.

Thanks for any help you can give toward making this a successful event.





Akron Section Board of Directors

Joe Mattingly	330-929-4213 x274 T
Americhem	330-929-4144 F
President	jmattingly@americhem.com
Lloyd Goettler U Akron Polymer Engin President Elect / Prog.	330-972-7467 T seering 330-258-2339 F
Gary Taylor	330-336-6621 T
<i>Myers Wadsworth</i>	330-334-7100 F
Treasurer	gtaylor@po.akro-mils.com
Dave Schultz	330-798-9300 x212 T
Harwick Standard Dist.	Corp. 330-798-9328 F
Secretary	schultzd@harwickstandard.com
Bob Wegelin	330-849-5179 T
AES	330-849-5589 F
Past-President	robert.wegelin@santoprene.com
Joe Pfeiffer	330-849-5097 T
<i>AES</i>	330-849-5589 F
Membership / E-News	jepfeiffer@santoprene.com
Kevin Malpass <i>GE Polymerland</i> Educ. Foundation / Fall Golf	216-573-7467 T 216-524-4409 F kevin.malpass@gepex.ge.com
Kathy Perevosnik	330-849-5119 T
<i>AES</i>	330-849-5597 F
Ed. Committee / Ads	kaperevosnik@santoprene.com
Tony Dean	216-750-6664 T
Ferro	216-750-6915 F
Webmaster / Public Inte	erest dean@ferro.com
Viv Malpass	330-342-1120 T
<i>Tek-mark International</i>	330-342-1134 F
Councilor	tekmark@worldnet.att.net
Dave Katz	330-849-5139 T
<i>AES</i>	330-849-5676 F
House	david.katz@santoprene.com
Cameron Fraser	330-972-6008 T
<i>U Akron Polymer Engin</i>	eering 330-258-2339 F
U Akron Liaison	cfraser@uakron.edu
Johanna Baena <i>U Akron Polymer Engir</i> Student Chapter Pres.	
Bud Seymour	330-849-5177 T
AES	330-849-5589 F
Spring Golf	bud.seymour@santoprene.com
Ron Miller	330-497-4255 T
Director	smiller17@neo.rr.com
Jerry Robinson	330-785-0111 T
<i>Polymer Exchange, Inc</i>	330-785-1505 F
Director jrob	inson@polymerexchangeinc.com
John Woodside	440-238-3009 T
Director	johnwoodside@ameritech.net
Jenny Digiantonio	330-849-5166 T
<i>AES</i>	330-849-5589 F
Newsletter	jldigi@santoprene.com

Contacts at SPE INTERNATIONAL

14 Fairfield Drive Brookfield, CT 06804-0403 Phone: 203-775-0471 • Fax 203-775-8490 Web: www.4spe.org

all phones in area 203 - all e-mail @4spe.org

NAME / Function	e-mail / phone
Susan Oderwald	seoderwald
Deputy Executive Director	740-5471
Marie Salzo	mcsalzo
Executive Assistant	740-5422
Deborah Daily	dadaily
E-Services Manager	740-5468
Nancy Herdegen	nbherdegen
Training Products Manager	740-5440
Laurie McDougal	lamcdougal
Training and Education Coord.	740-5432
Clive Bullard	cbullard
Advertising Sales	740-5427
Tobi Gebauer	tgebauer
Manager, Member Recruitment/Reten	tion 740-5457
Tricia McKnight	tmcknight
Liaison, Leadership ServSection Adr	nn. 740-5430
Lesley Kyle	lskyle
Senior Event Manager	740-5452
Gail R. Bristol	grbristol
Managing Director, Foundation	740-5447



ASHLAND DESTRIBUTION COMPANY

Where you need it.

When you need it.

What else do you need?

We have the products and services for all your plastics needs.

Contact your local ADC representative at: 800-828-7659 or www.ashdist.com



(0) Registered understark of Ashland Inc. (0) Ashland Inc. 2003 * Responsible Care is a registered service mark of the American Chemistry Council in the United States and of the Canadian Chemical Producer' Association in Canada.



TOPCON

PROFITABLE QUALITY INJECTION MOLDING SYSTEMS

October 11-12, 2004

Cleveland, Ohio

Sponsored by the Cleveland Section and the Injection Molding Division of the Society of Plastics Engineers Corporate Sponsors: IMS Company, Bayer Materialscience, Krauss Maffei, DuPont

Conference Site: Embassy Suites Cleveland - Rockside (Independence)

Conference Theme

The goal of the TOPCON is to supply practical information to owners of small molding operations and to plastics engineers at both custom and captive molders, by highlighting proven technology and systems that improve molding operations, resulting in improved part quality, higher prime yield, higher efficiency and better profitability.

Monday – 11 Oct 2004 Registration 7:30 to 8:30

Session I: Machine Technology (Chair: Jeff Dininger, Visteon) M Barr Klaus, Electric Injection Services: How to get the most out of your electric injection molding equipment

Jim Moran and J. Krage, Engel Machinery: Innovative Processing Technologies for Today's Challenging Molding Market

Lee Prettyman, Glycon: Maximizing Equipment Performance

Peter Lipp, Krauss Maffei: Increased Productivity and ROI Using Inline Compounding Technology and Automation

Larry Doyle, Demag: Think Global, Act Local

Monday Afternoon

Session II: Plant Operations (Chair: Gary Casterline, Delphi Corp.)

Chuck Mansfield, Delphi Corp: Integrated Injection Molding Manufacturing System Joe Portelli, FANUC Robotics America:

How to Successfully Implement Robots into Plastics Manufacturing

Nathan Kitts, Star Automation Inc.: What is new in the field of robotic part removal? John Hahn, MGS Mfg.Group: Multishot Tooling Considerations -

An Engineering Case Study

David Kazmer, University of Massachusetts Lowell:

The Economics of Lights Out Manufacturing

Combined evening meeting and dinner with Cleveland Section SPE

Hotel Accomodations

Embassy Suites Cleveland – Rockside (Independence) \$99/ night special conference rate. Make Reservations directly with the hotel at (216) 986-9900. *Mention this conference to get the \$99 rate.*

Information

For information on the conference, sponsorships or exhibits call Henry Forsythe at (216) 447-7370

Tuesday - 12 Oct 2004

Session III: Processing Technology (Chair: Brad Johnson, Penn State-Erie) Frank Long & Mike Schrieber, DVT Corporation: Advancements in Machine Vision for Injection Molding Terry Good, Maguire Products, Inc.: Advancements in Drying Technology - The Benefits of Vacuum Drying Susan Montgomery, Priamus System Technologies LLC: Advanced Process Control Solutions for Injection Molding Al Duff, Moldflow Corporation: Automating Process Set-up and Control Karl Bauer, RJG Technologies, Inc.: An Update on Instrumentation and Data Acquisition in Injection Molding Lunch: Keynote Speaker - TBA Tuesday Afternoon Session IV: Mold Technology (Chair: Jerry Blayne, Noveon Corp.) David T. Baker, Eas Mold & Die Change Systems: Taking The Mystery Out Of Quick Mold Change Payton Lewis, P. R. Lewis Consulting: Highly Conductive Cavities Combine Variable Mold Temperature To Create More Efficient Molding Harry Raimondi, Bales Mold Service: Coatings & Finishes For Mold Repair & Maintenance John Beaumont, Beaumont Runner Technologies Inc.: Troubleshooting And

Controlling Imbalances In Multicavity Hot & Cold Runner Molds

ADVANCE REGISTRATION

Advance registration discount by September 1, 2004 only. Make check (US funds) payable to SPE/IMD Cleveland TOPCON, or fill out credit card information. Mail with registration (separate copies if multiple attendees) to:

ATTN: TOPCON MOLDERS CHOICE INC 27000 Richmond Rd, Unit 9 Solon, OH 44139

Name:	
Company:	
Position:	
Address:	
State:	Zip:
Ph:	Fax:
Email:	

Notes or Special Accomodations Needed:

SPE Member		SPE ID#			
Non Member		Student			
	Advance			On-Site	
SPE Member:	\$365			\$465	
*Non-Member	\$465			\$565	
Student (full-time)	\$125 (II	D required)			
No of Registrations_					
Check Total	USD	Credit Car	rd Total		_USD
Credit Card Number	r				
Exp Date:		Visa	MC	AMEX	

* Non-member cost includes 1-year SPE membership.

Cancellation charge is \$50. No cancellations after September 18, 2004

CONFERENCE PROGRAM

Program Subject to Change

Sunday - 10 Oct 2004

Registration 2:00 p.m. to 5:00 p.m.

Monday - 11 Oct 2004

Registration 7:30 to 8:30

Session I - Machine Technology Moderator - Jeff Dininger, Visteon Corp

- 8:30 How to Get the Most Out of Your Electric Injection Molding Equipment M. Barr Klaus, Electric Injection Services
- 9:10 Innovative Processing Technologies for Today's Challenging Molding Market Jim Moran and J. Krage, Engel Machine
- 9:50 Maximizing Equipment Performance Lee Prettyman, Glycon

10:30 - 10:45 Break

- 10:45 Increased Productivity and ROI Using Inline Compounding Technology and Automation Peter Lipp, Krauss Maffei
- 11:25 **Think Global, Act Local** Larry Doyle, Demag

12:00 Lunch Speaker - R. Groleau, RJG What the Molding Industry Needs to Do to Stay Alive in the Next Decade

Session II - Plant Operations Moderator- Gary Casterline, Delphi Corp.

- 1:30 Integrated Injection Molding Manufacturing System Chuck Mansfield, Delphi Corp
- 2:20 How to Successfully Implement Robots into Plastics Manufacturing Joe Portelli, FANUC Robotics America

3:10 - 3:30 Break

- 3:30 What is New in the Field of Robotic Part Removal Nathan Kitts, Star Automation, Inc.
- 4:15 Multishot Tooling Considerations An Engineering Case Study
- John Hahn, MGS Mfg. Groups 4:55 The Economics of Lights Out Manufacturing
- David Kazmer, University of Massachusetts Lowell 5:30 End of Session
 - 5:45 to 6:30 Mixer

6:30 Cleveland Section SPE meeting/dinner Speaker - Roger F. Jones, Franklin International LLC. Surviving Globalization

Tuesday - 12 Oct 2004

Session III - Processing Technology Moderator - Brad Johnson, Penn State-Erie

- 8:30 Advancements in Machine Vision for Injection Molding Frank Long & Mike Schrieber, DVT Corporation
- 9:15 Advancements in Drying Technology -The Benefits of Vacuum Drying Terry Good, Maguire Products, Inc.

10:00-10:15 Break

- 10:15 Advanced Process Control Solutions for Injection Molding Susan Montgomery, Priamus System Technologies, Inc.
- 10:45 Automating Process Set-up and Control Al Duff, Moldflow Corporation
- 11:30 An Update on instrumentation and Data Acquisition in Injection Molding Karl Bauer, RJG Technologies, Inc.

12:15- 12:45 Lunch

Session IV - Mold Technology Moderator- Jerry Blayne, Noveon Corp

- 1:30 Improving Profitability Through Thermally Efficient Inserts (and Conformal Cooling) Chuck Azzopardi, DME
- 2:00 Taking the Mystery Out of Quick Mold Change

David T. Baker, EAS Mold & Die Change Systems

2:30 Highly Conductive Cavities Combine Variable Mold Temperature to Create More Efficient Molding Payton Lewis, P.R. Lewis Consulting

3:00 - 3:15 Break

 3:15 Coatings & Finishes for Mold Repair and Maintenance Harry Raimondi, Bales Mold Service
 4:30 Controlled Melt Rotation for Eliminating Shear Induced Flow Imbalance in Hot Runner Systems John Beaumont, Beaumont Runner Technologies, Inc.

5:15 Conference Ends



PROFITABLE QUALITY INJECTION MOLDING SYSTEMS

Cleveland, Ohio

11-12 Oct 2004

Sponsored by The Cleveland Section and The Injection Molding Division of The Society of Plastics Engineers

> Corporate Sponsors IMS Company Bayer Materialscience DuPont Krauss Maffei

Conference Site: Embassy SuitesCleveland - Rockside Independence, Ohio

CONFERENCE THEME

The goal of the TOPCON is to supply practical information to owners of small molding operations and to plastic engineers at both custom and captive molders, by highlighting proven technology and systems that improve molding operations, resulting in improved part quality, higher prime yield, higher efficiency and better profitability. Mark Your Calendar Mark Your 11-12, 2004 October 11-12,

TOPCON Profitable Quality Injection Molding Systems 520 Wooster Road W. Barberton, Ohio 44203

Pre-Sorted Standard U.S. Postage PAID Permit No. 277 Barberton, Ohio

TOPCON Committee

General Chair	Henry Forsyth Noveon Corp (216) 447-7370
Vice-Chair	Gary Casterline Delphi Corp (330) 373-5000
Treasurer	Don Haeske, Chempute (440) 333-8754
House & Registration	Pete Nenadal (216) 524-5293
House & Registration	Stephanie Hall Alternative Plastics (440) 708-2440
Publicity	Doug Bartlett, IMS (440) 543-1615

TOPCON Technical Committee

Chair, Jerry Blayne, Noveon, (216) 447-5258 Jeff Dininger, Visteon, (419) 627-6319 Brad Johnson, Penn State University-Erie (814) 898-6148

Injection Molding Division Officers

Peter Lipp

Chair	
Chair-Elect	
Councilor	
Secretary	
Treasurer	

Elect Brad Johnson Ilor Nick Fountas ary Larry Cosma rer Jim Wenskus

Cleveland Section Officers

ACCOMMODATIONS

EMBASSY SUITES CLEVELAND — ROCKSIDE (INDEPENDENCE) 5800 Rockside Woods Boulevard Independence. OH 44131 Ph: 216-986-9900 Fax 216-986-9901

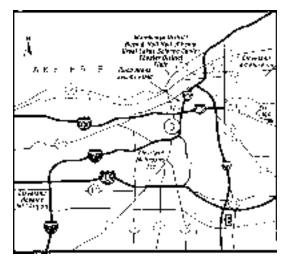
Make your reservations directly with the hotel to receive the conference room rate. Mention the injection molding conference to receive a rate of \$99.00 per night. All accomodations are suites and include breakfast and a Manager's Receptions 5:30 p.m. - 7:30 p.m. daily.

Location:

From the airport, take I-480 East to I-77 South. Exit Rockside Road, turn left, go three blocks, turn left on Rockside Woods Blvd. Hotel is $\frac{1}{2}$ mile on left.

From I-77 South, exit Rockside Road and follow above directions from exit.

From I-77 North, exit Rockside Road, turn right, go two blocks and turn left on Rockside Woods Blvd. Hotel is $\frac{1}{2}$ mile on left.



ADVANCE PROGRAM

This TOPCON will supply practical information to owners, managers and engineers of custom and captive molders at plants of all sizes, by highlighting proven technology and systems that will improve molding operations resulting in improved part quality, higher prime yield, higher efficiency and better profitability.

The conference's emphasis will be on proven technology. Presentations on commercial technologies are expected to include testimonials from users of the technology, along with question and answer sessions with the audience.

The limited number of academic presentations will cover studies of real-world manufacturing operations.

MARKETING OPPORTUNITIES

Table Top Exhibits

Six foot tables will be available for exhibitors to meet and greet conference attendees. The cost is a low \$250 plus the registration fee for attendees.

Displays may be manned any time Monday and Tuesday when the technical speakers are not in session.

Sponsorship Opportunities

Sponsorships are available at various levels for snack-breaks, luncheons and social mixers.

For sponsorship information, contact Henry Forsyth at 216-447-7370.

Monday - 6:30 p.m.

Cleveland Section SPE will have their monthly dinner meeting. *All Conference Attendees are Welcome* The speaker will be Roger F. Jones "Surviving Globalization"

ADVANCE REGISTRATION

Advance registration discount by September 17, 2004 only.

Make check (US funds) payable to SPE/IMD Cleveland TOPCON, or fill out credit card information. Mail/fax with registration (separate copies if multiple attendees) to:

> ATTN: TOPCON MOLDERS CHOICE INC 27000 Richmond Rd, Unit 9 Solon, OH 44139 Fax: (440) 349-6176

Name:	 	 	
Company: _			
Position:			
Address:			
City:			
State:			
Ph:			
Fax:			
Email:			

Notes or Special Accommodations Needed:

SPE Member	_ SPE ID#	
Non Member	Stude	nt
	Advance	On-Site
SPE Member:	\$365	\$465
*Non-Member	\$465	\$565
Student (full-time)	\$125 (ID	required)
6' Tabletop	\$250 (plu	s registration)
Mon. Dinner (opt)	\$ 37	
No of Registration	IS	
Total		USD
Credit Card No.		
Exp Date:	🗆 Visa 🛛	
* Non-member cost ir Cancella	icludes 1-year tion charge is	

No cancellations after September 29, 2004

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
- Latest TPE Material Developments
- Advances in Processing Technologies
- Latest Annlication Developments

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

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

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

Abstract Deadline: November 1, 2004 Completed Paper Deadline: May 15, 2005

Akron Section Society of Plastics Engineers

Kathy Perevosnik, Advertising Manager 330-849-5119

Insertion Order 2004-05

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

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

Rates are for entire season, September 2004 – Summer 2005. **Payable in Advance. Please let me know if you need an invoice.**

Ad format must be electronic (but we can scan your original artwork). File size should be limited based on the size of the ad ordered. Oversized ads will be charged an additional fee. Acceptable formats are .bmp, .pcx, .jpg, .tif, .gif, or MS PowerPoint or Word (if you have any issues with format, please email us and we can provide assistance). **Color is Free! Color helps your ad stand out**!

Email artwork and this Insertion Order (completed) as an attachment to kaperevosnik@santoprene.com

If you don't include your email address, we have no way of sending you each issue!

(please X)	Ad Size	Dimensions	Price for year
	Business Card	One column by 2" high	\$200
	Double	One column, 2 to 4" high	\$300
	Triple	One column, 4 to 6" high	\$400
	Half Page	One column, 10" high	\$500
	Half Page	Page width (7.5"), 5" high	\$500
	Hotlink to company website	N/A	\$75 / year

The cost on a per issue basis will be calculated by dividing the "Year" price by 10

Contact Perso	on Billing Information:
Company:	
Name:	
Address:	
Phone #:	
Fax #:	
Email address:	

Mail checks, payable to AKRON SECTION SPE, to:

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



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

MEMBERSHIP APPLICATION

Applicant Information	
Name:	Home Address: (please provide)
first last mi	address:
Applicant Type:	address:
 Member Student (must supply graduation date) 	city: state:
	zip: country:
Job Title:	Preferred Mailing Address:
Company Name and Business Address (or College):	Home Business
company/college:	Job Function: Gender:
address:	(choose only one)
address:	□ Consulting (11) □ Design (02) Birth Date: (mm/dd/yyyy)
city: state:	Education (08) General Management The SPE Online Membership
zip: country:	Library (10) Directory is included with
	□ Marketing (07) will automatically be included.
Work Phone: Fax: () ()	□ Purchasing (06) □ Quality Control (05) □ Exclude my email from Online
Home Phone:	R & D (03) Member Directory Retired (98) Retired (98)
()	Exclude all my information from Online Member Directory
Email: used for society business only	Other (99) Exclude my address from all 3rd party mailings
Payment Information	
New Member 1 Year New Member 2 Years * Studer US (\$117.00) US (\$202.00) US (\$ Canada (\$175.50) Canada (\$303.00) Canada	t Member \$26.00) ada (\$39.00) p €27.00) Membership Amount
New Member 1 Year New Member 2 Years * Studer US (\$117.00) US (\$202.00) US (\$ Canada (\$175.50) Canada (\$303.00) Canada (\$	\$26.00) Ada (\$39.00) Membership Amount
New Member 1 Year New Member 2 Years * Studer □ US (\$117.00) □ US (\$202.00) □ US (\$ □ Canada (\$175.50) □ Canada (\$303.00) □ Can □ Euro (€143.00) □ Euro (€249.00) □ Euro	\$26.00) ada (\$39.00) Image: Membership Amount ada (\$39.00) Image: Example of the state of
New Member 1 Year New Member 2 Years * Studer US (\$117.00) US (\$202.00) US (\$ Canada (\$175.50) Canada (\$303.00) Can Euro (€143.00) Euro (€249.00) Euro My Primary Division is (Division names are below)	\$26.00) ada (\$39.00) Image: Second state in the image: Second state
New Member 1 Year New Member 2 Years * Studer US (\$117.00) US (\$202.00) US (\$ Canada (\$175.50) Canada (\$303.00) Can Euro (€143.00) Euro (€249.00) Euro My Primary Division is (Division names are below)	\$26.00) ada (\$39.00) Image: Constraint of the second state of th
New Member 1 Year New Member 2 Years * Studer US (\$117.00) US (\$202.00) US (\$ Canada (\$175.50) Canada (\$303.00) Can Euro (€143.00) Euro (€249.00) Euro My Primary Division is (Division names are below)	\$26.00) ada (\$39.00) Image: Second system Image: Second system (a) (\$39.00) Image: Second system Image: Second system Image: Second system (a) (\$27.00) Image: Second system Image: Second system Image: Second system Image: Second system (a) (\$27.00) Image: Second system Image: Second
New Member 1 Year New Member 2 Years * Studer US (\$117.00) US (\$202.00) US (\$ Canada (\$175.50) Canada (\$303.00) Can Euro (€143.00) Euro (€249.00) Euro My Primary Division is (Division names are below)	\$26.00) ada (\$39.00) Image: Second system Image: Second system (a) (\$39.00) Image: Second system Image: Second system Image: Second system (a) (\$27.00) Image: Second system Image: Second system Image: Second system Image: Second system (a) (\$27.00) Image: Second system Image: Second
New Member 1 Year New Member 2 Years * Studer US (\$117.00) US (\$202.00) US (\$ Canada (\$175.50) Canada (\$303.00) Can Euro (€143.00) Euro (€249.00) Euro My Primary Division is (Division names are below)	\$26.00) ada (\$39.00) Image: Second sec

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

