



# *The* **SPECTRUM**

MIAMI VALLEY SECTION  
SOCIETY OF PLASTICS ENGINEERS

**Vol. 32 No. 4**  
**February 2004**

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## **SCIENTIFIC AND DECOUPLED MOLDING**

*February 5, 2004*

**Karl Bauer, Regional Account Manager, RJG, Inc.**

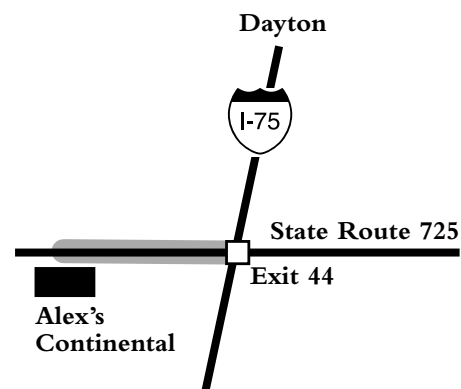
This presentation will review the areas of scientific and decoupled molding, and discuss their similarities and differences. While often considered to be the same, there are specific differences - especially when cavity pressure is used. Data will be offered to assist the listeners in deciding to what extent they may want to refine their processes. Additional differences are in the types of equipment used, as well as the types of training and education that are available. Available certification(s) will also be discussed.

Karl Bauer is a Regional Account Manager with RJG, Inc. and has over 37 years of experience in the plastics field. Prior to joining RJG he spent 11 years as a Product Manager with Kistler Instruments. His degree is in Industrial Technology, and he is a certified Master Molder. Prior to joining the supply side of the plastics industry, Karl spent 25 years on the user side in a number of process capacities, which included manufacturing and engineering roles for both injection molding and extrusion, as well as resin production. He has been involved in several patents, and has molded everything from telephones, to medical components, to contact lens accessories, to lawn furniture.



**Driving Directions**  
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Alex's is .5 mile on south side of 725.

## **ALEX'S CONTINENTAL DAYTON**



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## www.mvspe.org

Go to [www.mvspe.org](http://www.mvspe.org) if you are interested in receiving an e-newsletter and NOT a printed copy. Fill out the contact info and hit the submit button.

The screenshot shows the Miami Valley Section website with a contact form. The form includes fields for Name, Email, and Password. Below these are checkboxes for 'I want to receive the printed newsletter and just download my copy' and 'The information must be the same as found on the printed mailing list'. There is also a section for 'Contact Information' with fields for Member ID, Name, Company, Address, City/State, and E-mail. At the bottom of the form are buttons for 'Submit Information' and 'Reset Form'.

## DOWNLOADING SPECTRUM

Visit [www.mvspe.org](http://www.mvspe.org) and go to the download page.

Right Mouse Click (Windows) or Control Click (Macintosh) on the link and select "Save Target As." Select your Desktop from the pop-up window. This will download the file to your computer and allow you to easily flip from page to page.

You will need to have Adobe Acrobat Reader version 5.0 or higher (available at [www.adobe.com](http://www.adobe.com)) to properly view the file and be able to click links to SPE related articles.

## CALENDAR OF EVENTS

- Feb 5** Alex's–Dayton, Ohio  
Topic: *Scientific Molding-RJG*
- Mar 4** Plant Tour of Milacron  
Batavia, OH
- Apr 1** Alex's–Dayton, Ohio  
Education Night  
Topic: *A. Routsis*
- May 6** Alex's–Dayton, Ohio  
TBA
- June 14** Golf Outing  
Hamilton Elks

## MEETING NOTICE DETAILS

MEETING DATE: February 5, 2004  
Advance Reservation required by February 2, 2004  
To reserve, call or fax:

Dick Hauck	Mickey Brandon
Cincinnati	Dayton
513-521-8236	937-890-7834
	Fax 890-5854

## MEETING AGENDA - FEB 6., 2004

Board Meeting.....	4:30 - 6:00 pm
Networking .....	6:00 - 6:30 pm
Dinner .....	6:30 - 7:30 pm
Break .....	7:30 - 7:45 pm
Program .....	7:45 - 9:00 pm

MEMBERS \$20 NON-MEMBERS \$25 STUDENTS/RETIREEES \$10

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## PRESIDENT'S MESSAGE



Happy New Year to everyone. We are again back to meeting every month and are looking forward to seeing you at our meetings. We had to cancel the December outing at the car museum do to lack of participation and cost.

I must apologize for the fact that we did not have a January newsletter. This was caused by several things that have been resolved and will not occur again.

We have two board members that are recovering from illnesses; Dan Tomo and Mickey Brandon. I ask that you keep them in your prayers.

We are looking forward to a good meeting in February and hope you will attend. The speakers subject is Scientific and Decoupled Molding and is outlined on the front cover. See you at Alex's on February 5th.

Paul Moore, President

## ONLINE SAVES TIME!!

- Register online for montly meetings
- See updated meeting info
- Sign up to receive the electronic version of The SPECTRUM
- Read past issues



*Click here!*

**OUR WEBSITE**  
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- Get Email updates for special events
- Update your contact information
- Pay your dues online!
- Stay up-to-date and get involved in *your* MVPSE

(if you are reading this newsletter online, you can click any URL with a light blue box and go directly to that site!)

## **OCTOBER 2, 2003 MEETING MINUTES**

Attendees: Dick Hauck, Bob Rajkovich, Paul Moore, Bill Mastison, Dan & Phyllis Tomo, Don Keyes, Tom Cross, Dennis Richmond, Rolly Bedard, Mickey Brandon, Jack Bell, Frank Maus.

Minutes: Approved

Advertising & Treasurer's Report: September has more income than expenses. We put more money in the CD (\$10,000). Fifth Third Bank said if we keep more than \$10k in the account, it will pay more than a CD. In October, the only expense is the newsletter. We still have 6 hole sponsors that we haven't collected from (\$1800). There are still 20 advertisers from last year that have not paid yet. Dick thinks that we will collect most of them. That potentially represents \$4000. The treasurer's report was approved. Dick has to have the tax returns and financials to National by November 15th.

House/Programs/Awards/Special Events: Where should we hold the Cincinnati Meetings? No one wanted to have it at the Elk's Golf Course. Robert J. was looking into getting a speaker from RTP. Next month's meeting will be at Alex's in Dayton. The meeting will be on Screws & Barrels. The Packard Museum tour will replace the December meeting.

IT: It was Thursday when the newsletter was approved, Versa did not post the newsletter to Dean Kroger. Andy at Versa forgot. Mickey made a motion to have the newsletter sent to everyone in hardcopy along with an email version. It was approved. Paul wants the IT/Newsletter committees to look at sending out a flyer instead of a newsletter. One idea was to finish this year out mailing newsletters because the shells are printed, and then next year go totally electronic and send out a postcard reminder once a month.

International Councilor: The national meeting got postponed to 24th and 25th of October because of Hurricane Isabel.

Recycling: Nothing

Membership: Frank needs a list of officers and board members.

Historian: Not present.

Golf: June 14th is the Golf Outing date.

Old Business: We did not need to pay \$300 for buses for the thermoforming conference. Kyle Spear sent a resume to see if we wanted to use her as a speaker. Section Timetables were handed out by Bob R. These show what we are supposed to be doing and when.

New Business: Bill Mastin was requested by the board to coordinate people, minutes, news and meetings between school SPE chapters. Bill is willing to take this task on. He needs to know who is the person responsible for the schools SPE activities. Dick made a motion to appoint Bill M. as this liaison. It was seconded and approved.

Education: Don Keyes said we need to get more info from the student chapters. Don wants to get the grant forms out by November 15th. Don needs to know how many people are willing to volunteer to be on the Education committee. Jack Bell is going to take Edison, Bob R. is going to take care of Sinclair and UD, Mickey Brandon and Bob R. will handle Shawnee State, Dick H. will handle Miami. CTC is a non-active student chapter. What we need to do is get Great Oaks involved. UC needs a contact. Dennis Richmond volunteered to handle UC.

## **NOVEMBER 6, 2003 MEETING MINUTES**

Attendees: Dick Hauck, Bob Rajkovich, Dan Tomo, Paul Moore, Dwight Johnson, Dennis Richmond, Jack Bell, Rolly Bedard, Don Keyes, Tom Cross, Frank Maus. Mickey Brandon.

Minutes: One correction to the October Minutes- Don Keyes was left out of the attendees.

Treasurer: We have some new advertisers. Prorated amount for 6 months. 1112 cost for newsletter. Education funds have a change. There is \$1800 deducted from education, because of hole sponsors not paying. Tax return and financial statements are done. We need someone to help Rolly B. audit the returns. The minutes were approved.

House/program: Currently working on outstanding membership awards. No response at all on the Special Events. Mickey thinks we can cancel it. We can possibly reschedule in January.

Education: Grant forms were sent out to everyone to look at. Don K is going to send the Grant forms out to the students. Don wants education committee to meet before the mid Feb meeting. The committee needs to discuss distribution of money by class. Edison State wants to put together their chapter again. They need a student advisor. Bob R. brought up a large grant that was awarded to Polymer OH. Bob wants to contact them to try and get some money for our six schools. National is restarting two new awards for student chapters. We want to advise them that these awards are available for their organizations. 2003-2004 section education award \$5000. This is an opportunity for us to get \$5000 for our program. Husky sponsors it. This would be for 2004-2005.

Newsletter/IT: Directions were screwed up on the newsletter. We cannot unsubscribe from the written newsletter. Frank to put an IT meeting together. Frank needs info by middle of Dec. Mickey has a guy that wants to talk about in mold graphics as a talk to section.

National Report: Frank passed out a handout. The suspension of rebates was supported by Chicago, Detroit, and possibly Milwaukee. Topcon (Retec) guy from polymer div. In Cincinnati said that he would do it with us. Bob R. said we would work with him

Recycling: Dayton Rotary club is not doing the Earth Day at mall this year. It is moving to next Sept. at the Dayton Convention center. Cincinnati has a recycling (Earth day) at the Museum center.

Membership: nothing right now.

Historian: Bob R. to find out where John Is

Golf: June 14th is the date.

New/Old Business: Don K. said we had a screw design sent to him. There are 4-6 people coming from 3m to see tonight's talk. No December board meeting. Jan 8th is the next meeting.

## **SPE NEWS & NOTES**

### **Who Speaks for SPE?**

The answer is that no one does unless the statement or policy has been approved by the SPE Council.

More frequently than ever before, we, in the plastics industry, are finding ourselves commenting or perhaps even testifying before groups or committees on behalf of plastics. In this role, no member is authorized to make a statement on behalf of SPE or to represent or infer that the Society has taken a position on a specific issue.

This also extends to use of Society, Section or Division letterhead in presenting your opinions on an issue. Such a letter should be written on your personal stationery or company letterhead, if you are so authorized.

In making statements on plastics, you may wish to enumerate on personal credentials (education, corporate affiliation, job function) to establish your professional expertise. Here you may indicate that you are a member of SPE, but you should not, under any circumstances, infer that your statement represents the position of the Society or any of its Sections or Divisions.

All inquiries regarding SPE policy and/or positions should be referred to either the President or Executive Director for response.

### **February 22-28, 2004 is National Engineers Week**

National Engineers Week celebrates the many contributions engineers make to our quality of life. There are many ways that you can make a difference in the engineering profession during National Engineers week. One way is to develop a plastics engineering awareness program. For further information about National Engineers Week and a list of 50 ways you can make a difference, go to [www.eweek.org](http://www.eweek.org).

### **ANTEC Action**

Save up to \$110 when you register as an Early Bird for the ANTEC 2004 Conference! Early Bird Registration ends on January 31, 2004. Click here to register now. ([http://www.4spe.org/forms/antec04early\\_bird\\_reg.htm](http://www.4spe.org/forms/antec04early_bird_reg.htm))

COMING SOON - SPE Event Management is pleased to announce the advent of an online scheduling module which will enable ANTEC 2004 Conference attendees to review the technical presentations and build their own schedules through an interactive website! This new complimentary service will be available beginning in March 2004.





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FAX: (203) 775-8490

## ANTEC



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Student, Full Conference*	\$75	\$125	\$100	\$150	\$125	\$175	_____
*does not include conference proceedings or Monday Business Luncheon							
NOTE: All Speakers Must Be SPE Members							
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DECEMBER 2003

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New Members: My Primary Division is \_\_\_\_\_. Check other(s) as additional Divisions at a cost of \$6 each.

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|--|---|---|
| <input type="checkbox"/> Automotive (31)                         | <input type="checkbox"/> Extrusion(22)                | <input type="checkbox"/> Polymer Modifiers/Additives (38)     |
| <input type="checkbox"/> Blow Molding (30)                       | <input type="checkbox"/> Injection Molding (23)       | <input type="checkbox"/> Product Design & Development (41)    |
| <input type="checkbox"/> Color & Appearance (21)                 | <input type="checkbox"/> Marketing & Management (37)  | <input type="checkbox"/> Rotational Molding (42)              |
| <input type="checkbox"/> Composites (39)                         | <input type="checkbox"/> Medical Plastics (36)        | <input type="checkbox"/> Thermoforming (25)                   |
| <input type="checkbox"/> Decorating & Assembly (34)              | <input type="checkbox"/> Mold Making/Mold Design (35) | <input type="checkbox"/> Thermoplastic Materials & Foams (29) |
| <input type="checkbox"/> Electrical & Electronic (24)            | <input type="checkbox"/> Plastics Environmental (40)  | <input type="checkbox"/> Thermoset (28)                       |
| <input type="checkbox"/> Engineering Properties & Structure (26) | <input type="checkbox"/> Polymer Analysis (33)        | <input type="checkbox"/> Vinyl Plastics (27)                  |
| <input type="checkbox"/> European Thermoforming (43)             |   |   |

## II. Special Events

### Sunday, May 16

Fun Walk \_\_\_\_\_ Tickets per person @ \$15 each \$ \_\_\_\_\_  
 \_\_\_\_\_ Tickets per couple @ \$25 each \$ \_\_\_\_\_

SPE Foundation Opening Reception

**Complimentary with Full Conference Registration**

### Monday, May 17

Annual Business Luncheon

**Complimentary with Full Conference Registration (n/a for Students)**

Exhibition Ribbon Cutting Ceremony & Reception

**Complimentary with Full Conference Registration**

### Tuesday, May 18

Exhibition Raffle

**Complimentary with Full Conference Registration**

### Wednesday, May 19

Exhibition Mixer

**Complimentary with Full Conference Registration**

SPE Celebrates! Banquet

\_\_\_\_\_ Tickets per person @ \$75 each \$ \_\_\_\_\_  
 \_\_\_\_\_ Table of 10 @ \$700 each \$ \_\_\_\_\_

## III. Guest Registration (Pre-Registration is recommended for these events; capacities may be limited)

Guest Name \_\_\_\_\_ (first) \_\_\_\_\_ (last)

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Phone \_\_\_\_\_

Monday, May 17: Chicago Highlights Tour \_\_\_\_\_ Tickets @ \$35 each \$ \_\_\_\_\_

Chicago Architectural Cruise \_\_\_\_\_ Tickets @ \$48 each \$ \_\_\_\_\_

Tuesday, May 18: North Shore Gardens \_\_\_\_\_ Tickets @ \$45 each \$ \_\_\_\_\_

Wednesday, May 19: Frank Lloyd Wright Home & Studio \_\_\_\_\_ Tickets @ \$45 each \$ \_\_\_\_\_

### Guest Program Registration & Cancellation Policy:

Participant cancellation must be received in writing at SPE Headquarters no later than April 1, 2004, and will be refunded less a 10% administrative fee. Refunds will not be granted after April 1, 2004. Refund requests should be directed to:

**ANTEC/Customer Relations Department,**  
 SPE, 14 Fairfield Drive, P.O. Box 403, Brookfield, CT 06804-0403  
 By Fax: (203) 775-8490

**Register Online at [www.antec.ws](http://www.antec.ws)!**

## IV. ANTEC 2004 SEMINAR SCHEDULE & REGISTRATION

To register, enter an X next to your selection(s).  
SAVE \$200 BY REGISTERING EARLY

Selection	Category	Title	# of Days	Scheduled				Registration Fees		
Please enter an X next to selection.	BLOW MOLDING	Seminar Title / Instructor		Mon. May 17	Tues. May 18	Wed. May 19	Thurs. May 20	Advanced Member Rate by 3/31/04	Member Rate After 3/31/04 or On-site	Non-Member Rate
	SBM	Success in Blow Molding / Norman C. Lee	2			X	X	\$575	\$775	\$925
	EXTRUSION	Seminar Title / Instructor								
	FE	Fundamentals of Extrusion / Keith Luker	1				X	\$395	\$595	\$745
	TSET	Twin Screw Extrusion Technology / Adam Dreiblatt	2	X	X			\$575	\$775	\$925
	PEDAP	Profile Extrusion Design & Advanced Processing / Daniel Cykana	2			X	X	\$575	\$775	\$925
	PAMR	Practical Applications for Melt Rheology in Polymer Processing / Pravin Shah	2	X	X			\$575	\$775	\$925
	EEP	Extrusion of Engineering Plastics / Pravin Shah	2			X	X	\$575	\$775	\$925
	CEPP	Co-Extrusion: Principles & Practices / Eldridge Mount	1				X	\$395	\$595	\$745
	DDEP	Die Design Principles for Extrusion of Polymers / Leonard Sansone	2			X	X	\$575	\$775	\$925
	INJECTION MOLDING	Seminar Title / Instructor								
	IMT	Injection Molding Technology / William Frizelle	2	X	X			\$575	\$775	\$925
	IMACA	Injection Molding - Advanced Concepts and Analyses / Lawrence Schmidt	2			X	X	\$575	\$775	\$925
	VWIMT	Virtual Workshop in Injection Molding Troubleshooting / Robert Beard	2	X	X			\$575	\$775	\$925
	MATERIALS	Seminar Title / Instructor								
	FPMP	Fundamentals of Plastic Materials & Processing / Jean-Michel Charrier	1	X				\$395	\$595	\$745
	FRP	Flame Retarding Plastics / Joseph Green	1		X			\$395	\$595	\$745
	TE	Thermoplastics Elastomers / Vivian Malpass	1		X			\$395	\$595	\$745
	CMBP	Crystallization & Mechanical Behavior of Polymers / Pravin Soni	2	X	X			\$575	\$775	\$925
	PPBA	Principles of Polymer Blending and Alloying / Don Witenhafer	1	X				\$395	\$595	\$745
	OTHER	Seminar Title / Instructor								
	PCSPCM	Plastic Color Science, Pigments and Color Matching / Robert Charvat	2			X	X	\$575	\$775	\$925
	MDMB	Mold Design & Mold Building / Robert Dealey	2		X	X		\$575	\$775	\$925
	SPWP	Snap-fits, Press-fits & Welding of Plastics / Jordan Rotheiser	1	X				\$395	\$595	\$745
	THERMOFORMING	Seminar Title / Instructor								
	TTIA	Thermoforming Technology for Industrial Applications / William McConnell	2	X	X			\$575	\$775	\$925
	TDD	Thermoforming Design for Designers / Robert Browning	1				X	\$395	\$595	\$745
	TPAT	Testing of Plastics-Its Application to Thermoforming / Donald Hylton	1			X		\$395	\$595	\$745
	TT	Thermoforming Tooling / Arthur Buckel	1			X		\$395	\$595	\$745

No Refunds will be granted after April 15, 2004. Substitutions may be sent in place of the registrant at any time with prior notification to SPE.

Cancellation for seminars are subject to a \$100 processing fee.

Registration Fees: \$ \_\_\_\_\_

**Register Online at [www.ante.ws](http://www.ante.ws)!**

## V. ANTEC 2004 Registration Cancellation Policy and Payment Instructions

Conference registration refunds are available less a \$100 processing fee. Requests must be received in writing at SPE Headquarters by April 1, 2004. No refunds will be granted after the April 1, 2004, deadline.

ALL REGISTRATIONS MUST BE ACCOMPANIED BY A CREDIT CARD NUMBER OR CHECK. We regret that we cannot accept purchase orders. Please make checks in US Dollars payable to SPE 62nd ANTEC.

**Return your completed registration form and payment to:**

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<b>GRAND TOTAL</b>		<b>\$ _____</b>

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### Hotel Registration Instructions (please contact hotels directly)

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#### Hyatt Regency Chicago

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www.hyatt.com  
Group Code: G-ESPE

Shuttle Busses will operate on a regular basis between Navy Pier, the Sheraton Chicago Hotel & Towers and the Hyatt Regency Chicago Hotel. All technical sessions will be conducted at Navy Pier.



☐ Check box if you or your spouse/guest require special accommodations to fully participate in ANTEC 2004. Please attach a written description of your needs.

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## **THE CHINA CHALLENGE: HOW TO COMPETE AND WIN**

Conference Date: Thursday, February 5, 2004

Time: 8:30 a.m. – 12:10 p.m.

Place: Bank One Corporate Center, Polaris Parkway, Powell, Ohio

Sponsors: Bank One, Benesch Friedlander, 889 Global Solutions, Plante Moran, and Polymer Ohio

Conference Fee: \$45.00 per attendee (includes continental breakfast)

### **AGENDA:**

8:30-9:00 **INTRODUCTIONS AND OPENING REMARKS**

- **Welcome and Introductions**
- **Macro Economic Overview/Importance of Guanxi:** Mike W. Peng, Professor, OSU Fisher College of Business.

9:00-9:25 **GENERAL SESSION**

- **Protection of Intellectual Property Rights:** Steven M. Auvil, Chair of the Intellectual Property Practice Group, Benesch Friedlander Coplan & Aronoff, LLP

9:30-10:10 **CONCURRENT WORKSHOPS**

- **Imports (Sourcing from China):** Judy Huang Lewis, President and CEO of 889 Global Solutions, Ltd., and Martha Hall, CFO of American Pacific Enterprises
- **Exports (Exploiting Chinese Markets):** Diane Reynolds, Partner in Benesch Friedlander's Corporate and Securities Practice Group, will moderate a panel discussion with Kirk Merritt, Deputy Director, International Trade Division, Ohio Department of Development, Roberta Ford, Director, U.S. Export Assistance Center, Columbus, Ohio, U.S. Department of Commerce, Mark Schuetz, President, Replex Plastics, and Don McCloskey, Vice President, International Business, Franklin International

10:25-10:50 **GENERAL SESSION**

- **Financing Import/Export Transactions:** Terry Barrett, First Vice President, Global Trade Services, Bank One

Assistance Center, Columbus, Ohio, U.S. Department of Commerce, Mark Schuetz, President, Replex Plastics, and Don McCloskey, Vice President, International Business, Franklin International

10:55-11:35

## CONCURRENT WORKSHOPS

- **Utilization of Buying Cooperatives to Control Costs:** James B. Farmer, Partner in Benesch Friedlander's Corporate and Securities Practice Group
- **Manufacturing in China:** Plante Moran, will moderate a panel discussion with J. John Foo, Ph.D., Products Manager-Asia, Casting Solutions, Ashland Specialty Chemical Company, Tom Gibson, Vice President, Corporate Development, Allied Mineral Products, Inc., and Erik C. Meyer, Vice President Planning and Development, Liebert International, a Division of Emerson Network Power

11:40-12:10

## CLOSING PANEL DISCUSSION

- **Developing Successful Manufacturing Strategies in a Changing World:** Benesch Friedlander will moderate this panel discussion with Wayne Earley, Executive Director, Polymer Ohio Association, Eric Burkland, Executive Director, Ohio Manufacturers' Association, and Russ Murray, Executive Director, Ohio Cast Metals Association.

## REGISTRATION

If you are interested in attending this conference, you may register online with a credit card at [www.polymerohio.org](http://www.polymerohio.org), or you may forward the following information together with a \$45.00 check covering the conference fee for each attendee to Cathy Rhoades at Benesch Friedlander Coplan & Aronoff, LLP, 88 East Broad Street #900, Columbus, Ohio 43215.

Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Please note that although reservations will be limited by space restrictions, we will make best efforts to accommodate all reservations. Accordingly, we will contact you approximately a week prior to the event to confirm your attendance and to notify you of any venue changes.

### DIRECTIONS

**DIRECTIONS**

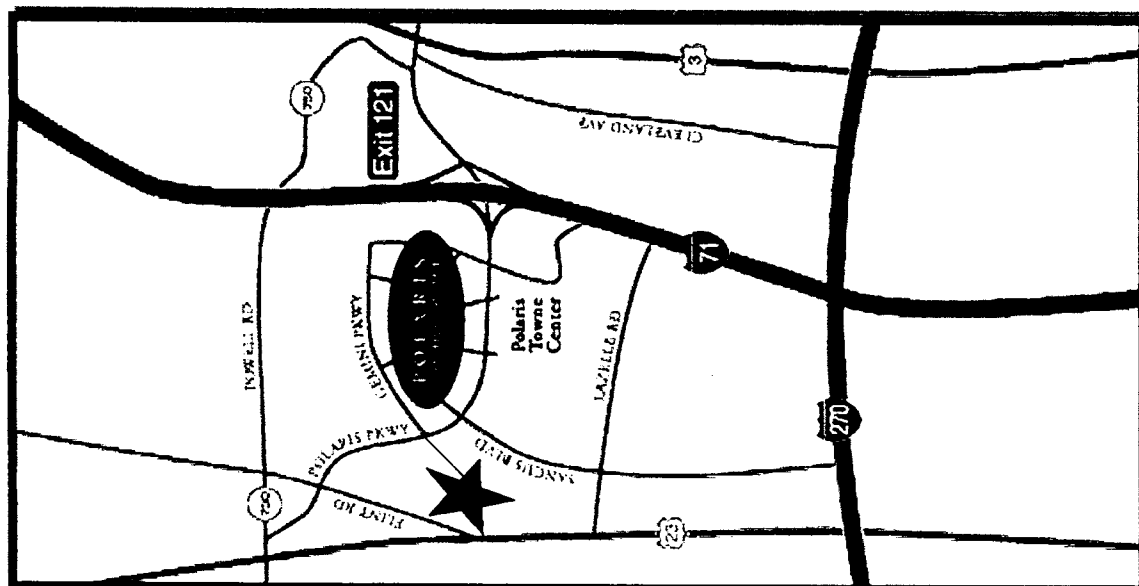
**I-71 to Polaris Parkway (exit 121).** Turn west onto Polaris Parkway. Proceed west for approximately 1 mile. After passing Sancus Boulevard, turn left into the Bank One Corporate Center. Proceed to Visitor Parking Lot A. Enter the Corporate Center through Building Wing Entrance B.

**From Cincinnati:** I-71N to Polaris Pkwy. exit #121. Turn left onto Polaris Pkwy.

**From Cleveland:** I-90W to I-71S toward Columbus. I-71S to the Polaris Pkwy. exit #121. Turn right onto Polaris Pkwy.

**From Indianapolis:** I-70E to I-270N exit, exit #93B-toward Cleveland. Take the exit on the left. Take I-71N exit #26B-toward Cleveland. Merge onto I-71N. Take the Polaris Pkwy. exit #121. Turn left onto Polaris Pkwy.

**From Pittsburgh:** Take I-70W toward Wheeling. Merge onto I-70W. Take I-71N exit #101A-toward Cleveland. Merge onto I-71N. Take the Polaris Pkwy. exit #121. Turn left onto Polaris Pkwy.



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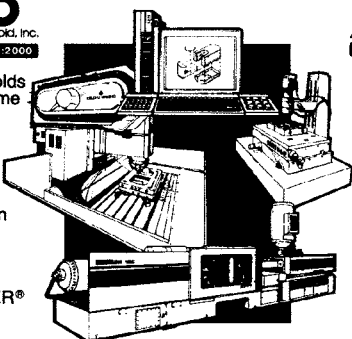


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