



# The SPECTRUM

MIAMI VALLEY SECTION  
SOCIETY OF PLASTICS ENGINEERS

**Vol. 32 No. 3**  
**November 2003**

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## GENERAL PRINCIPLES OF SCREW DESIGN

*November 6, 2003*

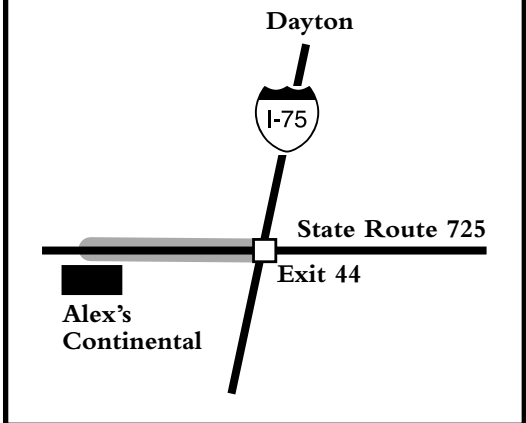
**Fred J. Scocchera, VP, Xaloy/New Castle Industries**

Screw design is basic for injection molding, blowmolding and extrusion. Without some knowledge of what the screw is doing to the plastic, we can make lots of mistakes in trying to develop processes.

We do not get to review the principles of screw design in a seminar type session, but the time is now. If you would like to join us for dinner, please show up before 6:30 with a reservation. If you would like to sit in on the program, please show up about 7:30 just as we start the evening program. The program parts of all SPE meetings are free to the members, dinner is optional.

**Driving Directions**  
**Alex's Continental**  
Exit 19 from I-75 to Muhlhauser Road.  
Alex's is .5 mile on south side of 725.

## ALEX'S CONTINENTAL DAYTON



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National Website**

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# Miami Valley Section Society of Plastics Engineers, Inc.

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## STANDING COMMITTEES

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Dean Kroger

### Auditing

Roland Bedard  
Mickey Brandon, Dean Kroger

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Mickey Brandon  
Tom Cross

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Don Keyes  
Tom Cross, Bob Rajkovich, Jack Bell,  
Dick Hauck, Mickey Brandon, Dan Tomo

### Golf Outing

Dan Tomo & Paul Moore  
Robert Jergens, Frank Maus, Bob Rajkovich,  
Dean Kroger, Mickey Brandon, Mike Rusconi

### House

Mickey Brandon  
Frank Maus, Dick Hauck, Jack Bell

### IT

Dean Kroger  
Ken Lewis, Bob Rajkovich

### Membership

Frank Maus  
Tom Cross

### Newsletter

Bob Rajkovich:  
bobr@gemcity1.com  
Dan Tomo

### Nominations

Frank Maus

### Program

Robert Jergens  
Mickey Brandon, Frank Maus, Jack Bell

### Public Information

Bob Rajkovich

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djcroger@ashland.com  
Bob Rajkovich, Mickey Brandon,

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Bob Rajkovich  
Tom Cross, Dick Hauck, Roland Bedard,  
Mickey Brandon, Dan Tomo

### Special Events

Mickey Brandon  
Paul Moore

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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 header with the logo and name. Below the header is a contact form titled "Contact Information". The form includes fields for Name, Email, and Phone. There are also checkboxes for "I would like to receive the printed newsletter and just one mail a year" and "If the information must be the same as found on the printed mailing list". At the bottom of the form are "Submit Information" and "Reset Form" buttons.

## 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

- Nov 6** Alex's–Dayton, Ohio  
*Topic: Screws & Barrels*
- Dec 5** Packard Auto Museum  
*Topic: Spouse/Date Night*
- Jan 8** Materials Night
- Feb 5** TBA
- Mar 4** TBA
- Apr 1** Education Night  
*Topic: RJG/A. Routsis*
- May 6** TBA
- June 14** Golf Outing

## MEETING NOTICE DETAILS

MEETING DATE: November 2, 2003  
Advance Reservation required by September 30, 2003  
To reserve, call or fax:

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

## MEETING AGENDA - NOV 6., 2003

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

MEMBERS \$25 AT THE DOOR WITHOUT A RESERVATION

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## PRESIDENT'S MESSAGE



I must begin this message with an apology, as many of you did not receive your notice for our October meeting until the day of the meeting. We had a glitch in our e-mail program, which delayed the notice. We feel we have corrected this problem and should now run smoothly. Even with the delay in the notices we had a good turn out for our first meeting. The program on robotics and EOAT was well done and informative. Those of you who missed this will have another opportunity later this year.

We are looking forward to another good presentation at our November meeting, which will covers Screws and Barrels. I hope to see you at this meeting on November 6th.

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**  
**www.mvspe.org**

- 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!)

## **SEPTEMBER 8, 2003 MEETING MINUTES**

Attendees: Mickey Brandon, Dick Hauck, Frank Maus, Robert Jergens, Dean Kroger, Paul Moore, Rolly Bedard, Tom Cross, Dennis Richmond, Dan Tomo, and Bob Rajkovich.

Treasurer's Report: There is still \$2000 from the golf outing. Dick thinks we are in good shape. It was discussed that newsletter ads are a good source of income. We need to work on that.

Awards: Nothing to report.

Special Event: September 11th is the Baseball outing. So far, Dick has 6 people signed up. More are coming.

House: The November meeting is on barrels and screws. The Cincinnati Milacron tour is setup. Jack Bell is handling this. This should occur in March or April. We have a commitment from Andy Riggs – A Routsis. (need spelling checked). This is a potential speaker for education night. The Packard museum in Dayton, OH is a potential meeting location and tour. It is planned for December 6th. (Saturday) We will need to send a down payment for us to hold the hall. This would be for Spouse date night (Packard Museum.). We are still trying to get the Honda Tour.

Education: Miami University sent minutes from a meeting. They will be published in the next newsletter. Don Keyes will be recruiting a new Education committee. Those who were in it last year are welcome if they want to be in it. Mickey wants us to write a letter to all of the chapters stating that if they want \$\$ from the MVSPE, they need to turn in their minutes. Bob R. has explained this to one chapter. We will reimburse up to \$500.

IT Committee: Ken Lewis updated the website on Friday. Dean asked Ken if he could get the software so Dean can update it himself. Dean updated the mailing list with the help from National. We had 1400 shells for the newsletter made up at \$850. Dean wants the links of all our current subscribers on our links page.

National: National published a budget report for the meeting in Charlotte. They lost a lot of money. In 2002, they lost \$318,000. They are expecting more losses in 2004 and 2005. To combat this shortfall, they let a bunch of people go. By 2004 they will have used \$650,000 dollars of their \$725,000 dollar credit line. The key vote is in January on the discontinuing of our rebate from national. Frank is going to the National meeting. Dan T. says it costs at least \$1000 to attend each meeting. Jack Bell or Don Keyes might go in his place. The board's position is for not giving up the rebate.

Newsletter: Bob R. needs a president's message by Thursday of next week. Advertising chair gets new ads from advertisers. Andy is our contact at VersaPrint

Recycling: Nothing

Membership: The stats are: 6 new members, 4 transferred in, 1 transferred out and 9 renewed for a total of 338 members. Frank Maus needs a List of officers and board members for National. This will facilitate better communication.

Historian: Nothing.

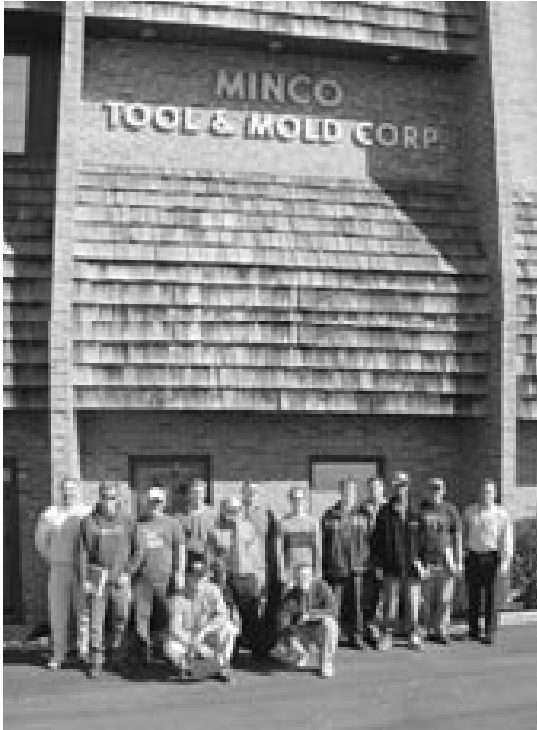
Golf Outing: Newsletter summarized the golf outing very well. June 14th is next years Golf outing. Dan thinks it should be at the Hamilton Elks next year. The board wants to keep it at the Hamilton Elks.

Old Business: Nothing.

New Business: Group wants us to pay for the busses to take the children to the presentation from Marjorie Winery. The busses bring school children to the Thermoforming conference. Dan thinks we should do it and take out of Education Committee. Mickey makes the motion that we give no more than \$300 for this. This motion was approved. The location for the conference will be at the convention center downtown. Next board meeting will be at 4:30pm on Oct 2nd.

**SEPTEMBER MEETING PHOTOS**





## **SINCLAIR STUDENTS TOUR MINCO TOOL & MOLD CORP.**

To get a better understanding of manufacturing, 40 Sinclair students toured Minco Tool and Mold and All Service Plastic Molding. They had the opportunity to see part design, mold design, moldmaking, injection molding, and several secondary operations.

The tour was coordinated by Charlie Winarchick of the Industrial Engineering Technology department, and Randy Hardin of the AIM Center. Joe Kavalasuskas, Dwight Bruggeman, and Tom Rex conducted the tours.

## **BUDGET REPORT TO COUNCIL**

As a result of this situation, Council will be asked at the September meeting to adopt the recommendation of the Finance Committee to suspend the payment of rebates in 2004 and 2005 to Sections and Divisions except in instances of demonstrated hardship. Participating Sections and Divisions wishing to avail themselves of extended electronic services and member-marketing programs initiated by headquarters will be able to do so. The way in which we will approach this vote is via a motion to suspend Bylaw B-51, paragraph 1. The content of that Bylaw is as follows:

### **B-51**

The Executive Director shall remit to each Section, Section-in-Formation, Division and Division-in-Formation Treasurer in January of each year rebates and/or funds as set by the Council following the approved procedure set forth in Bylaw B-9. A rebate to a Section-in-Formation or Division-in-Formation shall be for a period of no more than two years.

Per Roberts Rules, a first reading of this suspension would be made at the September meeting, with a second reading and vote at the January 2004 Council meeting. This decision by the Finance Committee was difficult to reach, but it was the consensus of the group that this step is necessary to support the long-term viability of SPE. A full discussion of this topic will be on the Council Committee of the Whole agenda, as well as at Council. In addition, as mentioned in the Executive Summary, the Finance Committee will be holding a virtual presentation on Tuesday, September 9, at 1 PM Eastern Time for Councilors and Section/Division Board Members interested in discussing this issue.

### **Conclusion**

SPE is facing very difficult financial times. The budget presented reflects that the Society must spend additional resources, particularly in sales and marketing-related activities to fully capitalize on its existing base of products, events and membership. At the same time, SPE needs to continue to move in a direction where member value is enhanced and communicated to both potential members and key industry decision-makers. This budget further recognizes that further cutbacks in staffing or programs will undermine SPE's ability to fulfill its mission.

Cash resources, especially in the first quarter of 2004, will be required to fully implement this plan. SPE's cash situation has become critical and will require some relief if SPE is to avoid higher long-term debt, which would put the organization on a more expensive and perilous path. There is no question that SPE as a whole must respond in concert to this difficult situation. As a result, in addition to the cutbacks already implemented at SPE headquarters, the Finance Committee is recommending that the payment of rebates for 2004 and 2005 be suspended. A vote on this budget and on the rebates will take place at the Council meeting held in Charlotte, NC, on Saturday, September 20, 2003.



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www.4spe.org

I am applying as a:  Member  Student (Must supply grad date: \_\_\_\_\_)

Name: \_\_\_\_\_  
(First) (Middle) (Last)

Check preferred address:  Company/College  Home  
Professional Information

Date of Application: \_\_\_/\_\_\_/20\_\_\_  
Personal Information

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Position: \_\_\_\_\_

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Fax: (\_\_\_\_\_) \_\_\_\_\_

Country: \_\_\_\_\_ Zip: \_\_\_\_\_

E-mail: \_\_\_\_\_

Phone: (\_\_\_\_\_) \_\_\_\_\_

Date of Birth: \_\_\_/\_\_\_/\_\_\_  
(Month) (Day) (Year)

Fax: (\_\_\_\_\_) \_\_\_\_\_

Gender:  Male  Female

E-mail: \_\_\_\_\_

### Statement of Fees

SPE membership is valid for twelve months from the month your application is processed.

**NEW MEMBER(1-yr)** US - \$115.00 (\$105 + \$10 initiation fee)  
Canada - \$184.20 Euros- • 141.00

**NEW MEMBER(2-yr)** US - \$199.00  
Canada - \$318.80 Euros- • 246.00

**STUDENT MEMBER** US - \$26.00 (no initiation fee)  
Canada - \$41.60 Euros- • 27.00

Dues include a 1-year subscription to *PLASTICS ENGINEERING* magazine and a CD-Rom Membership directory and guide.

Check enclosed  (Payable to: Society of Plastics Engineers)  
Charge my:  VISA  AMEX  MasterCard

Card # \_\_\_\_\_

Exp. Date: \_\_\_\_\_

**PAYMENT MUST ACCOMPANY APPLICATION**

I certify that the statements made in the application are correct. I agree to be governed by the Constitution and Bylaws of the Society and to promote the objectives of the Society.

Signature in ink

Date

Recommended by Member (optional)

ID#

Origin Code: H

### What is your primary job function? (check one only)

- 01 General & Corporate Management
- 02 Design & Design Engineering
- 03 R&D Engineering
- 04 Production Manufacturing
- 05 Quality Control
- 06 Purchasing
- 07 Sales / Marketing
- 08 Education (Faculty)
- 09 Student
- 10 Library
- 11 Consultant
- 12 Technical Support
- 98 Retired
- 99 Other \_\_\_\_\_

### Division Choice - My primary Division is: \_\_\_\_\_

Check (✓) others below as additional Divisions.

- 21 Color & Appearance
- 22 Extrusion
- 23 Injection Molding
- 24 Electrical & Electronic
- 25 Thermoforming
- 26 Engineering Properties & Structure
- 27 Vinyl Plastics
- 28 Thermoset
- 29 Thermoplastic Materials & Foams
- 30 Blow Molding
- 31 Automotive
- 33 Polymer Analysis
- 34 Decorating & Assembly
- 35 Mold Making & Mold Design
- 36 Medical Plastics
- 37 Marketing & Management
- 38 Polymer Modifiers & Additives
- 39 Composites
- 40 Plastics Environmental
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## MIAMI UNIVERSITY SPE CHAPTER MEETING MINUTES

September 24, 2003

Attending: Jessica Irons, Matt Schroder, Jeff Macasek, Chris Mantz, Tim Godward, Dr. Moller, and Charly Visconti

Meeting Start: 6:10pm

Topics Discussed:

Injection molding machine tours

Decided on Tuesdays at 1pm (tentatively)

Next SPE Meeting will be 4 weeks from today: October 22

Possible to have speakers at next meeting

Dr. Moller suggested Roger Howe—Miami Board of Trustees chair; former president of U.S. Precision Lens; worked with Professor McKeever

State of Department meeting: October 15th @5pm—should all attend

Miami Valley SPE meetings—need to look into when and where those will be held.

Find out more information at [www.mv.spe.org](http://www.mv.spe.org)

Possibly sell coffee & doughnuts in Kreger in the morning to make some money

Need to look into rules about doing so

Chris could talk with Bagel and Deli to work out bagels instead

Project Goals

Definitely finish Frisbee project by year end

Should we get a digital camera for events?

Can rent the one from the Kreger computer lab if necessary

Need to send a plan for the year to the Miami Valley chapter

Jess and Jeff will get together to discuss this

Possibly get t-shirts made

Flag football team

Sign up deadline: Sept 25th

Need at least 7 people (will need to recruit)

All officers need to spread the word about SPE

Work with SME and SWE to do bigger events

Talk to other SPE chapters at other schools to get ideas

Edison may have Frisbee molds

Talk to the Miami Valley chapter to get ideas

Meeting Adjourned: 6:45pm





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