April 1998

Milwaukee Section

Editor: Dan Ziemann

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APRIL DINNER MEETING

Thursday, April 23, 1998

TOPIC: Metal Injection Molding (MIM)

SPEAKER: Mark Rasmussen, President of Phillips Plastics – Powder Metal Molding Division

- Overview of common metal forming methods
- Overview of the MIM process and technology
- Materials processed by MIM
- Markets served by MIM
- Design for MIM
- Future directions in MIM process technology



MEETING AGENDA

SOCIAL HOUR:

5:00-6:00 pm Zorba's Restaurant

20290 West Bluemound Road

Brookfield Wi. 414-782-8670

DINNER:

6:00 pm

PRESENTATION:

7:00 pm

MENU:

Roast Loin of Pork with Mashed Potato

or:

Extra Large Jumbo Breaded Shrimp with

Rice Pilaf

Both choices include soup, crisp garden salad, vegetables, rolls, chocolate parfait and beverage.

Dinner Costs:

Members & Non-members

\$16.00

Students:

\$8.00

Advance reservations are required for dinner. Please make reservations no later than April 21, 1998, by calling Christine at 414–549–3325. Spouses and guests of members are welcome. Please call to cancel at least 24 hours in advance if your plans change. "No-shows" with reservations will be billed. Fifty year members are entitled to one free meal per year.

SPEAKER BIOGRAPHY

MARK RASMUSSEN

Mark Rasmussen is President of Phillips Origen[™] Powder Metal Molding, a business unit of Phillips Plastics Corporation dedicated to advanced production metal injection molded components. He earned his degree in Mechanical Engineering from the University of Wisconsin in 1980 and has since held product development, marketing and business management positions with technology based companies.

GOVERNING BOARD ELECTIONS

The Governing Board of the Milwaukee Section SAE consists of volunteer engineers from local industry who are willing to donate an hour or so per week to section activities. Eight of the Governing Board positions are 'elective', in that the names of the candidates are published in the April newsletter, and a vote taken at the May membership meeting to elect said candidates.

The nominations for the 1998–1999 Milwaukee Section SAE Governing Board are as follows:

Chairman: Bill Schultz, Harley Davidson, Inc.

Vice Chairman: Richard Sievert, Robert Bosch Fluid Power Corp-

Secretary: Alicia Muszynski, J.I. Case

Treasurer: Jon Jeffords, Waukesha Engine Division.

Vice Chair Membership: Rainer Schnabel, Brooks Stevens Design

Vice Chair Student Activities: OPEN

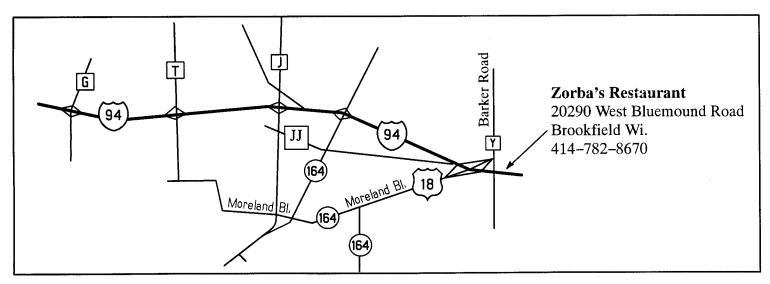
Vice Chair Math & Science, K-12: Kimberly Gleffe, Engineers & Scientists of Milwaukee, Inc

Delegate to SAE Annual Nominating Committee: Doug Bayerlein, Bay-San Co., Inc.

Five or more members in good standing of the section who are entitled to vote may constitute themselves as a special nominating committee with the same powers as the elected nominating committee. If a special nominating committee is to be formed, it should present its list of consenting candidates to Chairman Jim Wilkinson on or before May 1, 1998.

All section members, except student members, are eligible to vote on section matters, to hold section office and serve on section committees. To be eligible to vote and/or hold a section office, a member's dues must be paid in full.

Meeting Location Map



MEMBERSHIP

If you have questions about change of address, or other membership issues, call 1-800 TEAM SAE (1-800-832-6723)

Milwaukee Section 1996–1997 Governing Board

CHAIRMAN: Jim Wilkinson Pierce Manufacturing Inc.

2600 American Dr.

P.O. Box 2017 Appleton, WI 54913-2017 E-Mail: wilkinson@piercemfg.com

Work: (920)832-3163 Fax: (920)832-3092

VICE - CHAIRMAN: Bill Schultz Harley-Davidson Motor Co. Inc.

11800 W. Capital Dr.

P.O. Box 25527 Wauwatosa, WI 53225-5527

E-Mail: dunkleed@aol.com Work: (414)616-1286 Fax: (414)616-1338

SECRETARY: Richard Sievert Robert Bosch Fluid Power Corp. 7505 Durand Ave. Racine, WI 53406 E-Mail: Rais1998@sol.com

E-Mail: Baja1998@aol.com Work: (414)554-7100 Fax: (414)544-7217

TREASURER: Jon Jeffords Waukesha Engine Division

1000 W. St. Paul Ave. Waukesha, WI 53188 E-Mail: Jon_Jeffords@wed.dresser.com

Work: (414)549-2718 Fax: (414)549-2690

VICE CHAIR - MEMBERSHIP:

Rainer Schnabel Brooks Stevens Design

1415 Donges Bay Rd. Mequon, WI 53092 E-Mail: rainer@brkstevens.com

E-Mail: rainer@brkstevet Work: (414)241-3800 Fax: (414)241-3812

VICE CHAIR - MATH & SCIENCE AWIM

Kim Gleffe

Engineers & Scientists of Milw., Inc. c/o Marquette College of Engineering

1515 W. Wisconsin Ave. Milwaukee, WI 53233

E-Mail: esm@www.eng.mu.edu Work: (414)288-3483 Fax: (414)288-7082

VICE CHAIR - STUDENT ACTIVITIES

Alicia Muszynski Case Corporation

24th & Mead Streets Racine, WI 53403 E-Mail: amuszynski@casecorp.com

Work: (414)636-0422 Fax: (414)636-5720

VICE CHAIR - GOLF OUTING

Bill Burke

Young Radiator Co.

2825 Four Mile Rd. Racine, WI 53404

E-Mail: none

Work: (414)639–1010 Fax: (414)639–1013

HISTORIAN: Norm Mollinger

7707 W. Cedar Ridge Ct. Franklin, WI 53132

E-Mail: npmoll@execpc.com Home: (414)425-1244

VICE CHAIR-PLANT REP.

John Brackin

Simplicity Manfacturing, Inc.

500 N. Spring St.

P.O. Box 997 Port Washington, WI 53074-0997

E-Mail: jbpbkin@execpc.com Work: (414)284-8761 Fax: (414)284-8657

From Your Chairman:

Our thanks to Mr. Jim Gralton and Hovercraft America for an excellent March dinner meeting presentation. The hovercraft is a truly a unique land, sea and air "mobility" vehicle.

Our April meeting focuses again on the technology sector. Metal and ceramic injection molding offers a low cost way to produce complex and precision—shaped parts from a variety of materials. Plan now to attend our April dinner meeting and get a quick lesson on how plastics and powder metals work together to make complex metal parts.

While a leader in providing a mobility industry standards, SAE is in search of programs, activities and services with value and relevant benefits to your professional interests. How do SAE and the Milwaukee Section fit in the era of downsized companies, multi-functional teams and increasing demands on the engineer as a manager? A recent SAE survey identified and ranked several key issues facing the mobility industry today. The issues (in ranked order) are as follows:

Integrated Product Development Regulations / Standards Workforce Customer Expectations Electronics Global Reuse / Recycling Human Factors

If you have any comments regarding how SAE or the Milwaukee Section of SAE can help address these issues please contact any of the Governing Board members listed in this newsletter.

Jim Wilkinson 1997 / 1998 Chairman Milwaukee Section SAE

FREE MEAL DEAL From the Milwaukee Section

When a guest attends a dinner meeting bearing a completed membership application and dues payment, both the guest and his/her sponsor will receive a certificate good for a free dinner that evening or any other meeting of their choice during the Section year. NOTE – This offer is not effective for application for student membership.



April Dinner Meeting

Metal Injection Molding Phillips Powder Metal Molding

Milwaukee Section SAE

Meeting Sponsorship

We would like to thank the following organizations for their continued support of the Milwaukee Section:

Waukesha Engine Division of Dresser Industries, Inc.

For more information on becoming a sponsor, please contact: Jim Wilkinson (920)832-3163