



# **SOCIETY OF PLASTICS ENGINEERS**

## **BLOW MOLDING DIVISION**

Volume 2007 Edition 3

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## *Annual* **Blow Molding Conference**

**October 10-11, 2007**  
**Toledo, Ohio**

Coming soon, the Blow Molding Division of SPE will be hosting the premier forum for the blow molding industry.

The Annual Blow Molding Conference provides blow molders, resin manufacturers, mold-makers, and machinery manufacturers the opportunity to network and interact while learning about the latest innovations in blow molding technology.

Speakers from 25 companies will cover topics from every area of the blow molding industry.

Look for more details and registration information in this issue.

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a member**

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SPE  
Blow Molding  
Division**

**Conference  
Schedule**  
pages 6 thru 10



## Chairperson's Message



We are getting closer to the Annual Blow Molding Conference on October 10<sup>th</sup> and 11<sup>th</sup>. I am excited about the program that has been put together. I would like to thank Surendera Agarwal and Lew

Ferguson for the hard work they

have put into the conference. Thanks also goes to the rest of the board for the support they gave Surendra and Lew. Their hard work shows in the quality of the program. I would encourage you to attend. This is an event you should not miss.

We need your help! Please save our young men and women from jobs in the injection molding industry! Seriously, there is a pool of trained engineers that graduate each year that could be used to enhance your company. Even though most plastics programs are injection molding based, the students receive some

classroom and laboratory time on blow molding. There are several schools that have blow molding machines in their labs. Some schools have students who work on senior design or research projects in blow molding. The broad knowledge of the graduates in injection molding and other processes can be beneficial. Besides knowledge in other processes, new experimental techniques could also be used to solve design and processing problems.

The Blow Molding Division uses design competitions and scholarships to foster interest in the blow molding area. In my classes and projects, I try to get the students excited about blow molding. Every year I have students who are interested in a career in blow molding, but they sometimes cannot find jobs in this field. The Blow Molding Division is looking at ways to get those students resumes out to the industry. We are looking at putting something in the newsletter and on the web site. We need your help to take those students who have shown interest in blow molding and turn them into future engineers in this industry.



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# Annual Blow Molding Conference

The Blow Molding Division of the Society of Plastic Engineers presents

## "Blow Molding Challenges and Opportunities"

The **Annual Blow Molding Conference** is the technical and market driven event for End-users, blow molders, resin manufacturers, mold-makers, and machinery manufacturers.

- Learn about the advances in machinery, processes, and blow molding technology
- Network with End-user, processors, manufacturers, and suppliers
- Understand where the industry can grow

### Program Highlights

- ✓ Global blow molding issues and market conditions.
- ✓ Rigid packaging technical developments and issues facing the industry today.
- ✓ Automotive and industrial in a dynamically changing market.
- ✓ Education programs offered by industry experts.

### Speakers to present.....

- ✓ Market Overviews (Resin and demands)
- ✓ Sustainability/Bio-Polymers initiatives
- ✓ ISBM PP vs. PET
- ✓ Trends in machine design.
- ✓ Latest Blow molding innovations

#### Conference Site

Seagate Convention Center  
Toledo, OH

#### Hotel

Park Inn Toledo  
101 North Summit Street  
Toledo, Ohio 43604  
Tel: 419-241-3000  
Email: Pd\_tloh@parkinn.com

#### Exhibitor/Sponsors info

Contact: Ron Puvak  
Phone: 724 482-2163 Ext. 550  
E-mail: rpuvak@agrintl.com

#### Additional info

Contact: Surendra Agarwal  
E-mail: sagarwal@kraft.com

#### Lew Ferguson

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## Annual Blow Molding Conference

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Registration before September 14, 2007

Registration Fee: SPE Members \$350.00;  
Non-members: \$475.00 (This fee includes a 1 year SPE membership)  
Fee includes all materials, lunch, and dinner.

Registration after September 14, 2007 and at the door.

Registration Fee: SPE Members \$400.00;  
Non-members: \$525.00 (This fee includes a 1 year SPE membership)  
Fee includes all materials, lunch, and dinner.

PAYMENT METHODS:

- 1) Check - made payable to SPE Blow Molding Division, sent with registration to:  
ABC Conference 2006, P.O. Box 964, Holland, Ohio 43528-0964, USA  
OR
- 2) Corporate Credit Card - Call Scott Steele at 419 867 5403, E-mail  
s.steele@plastictechnologies.com  
OR
- 3) Paypal® (on-line payment service: [www.blowmoldingdivision.org](http://www.blowmoldingdivision.org) and choose conference  
link on left to register/buy)

Fees for students and multiple attendees from the same company please contact:  
Scott Steele at 419 867 5403

# 2007 Annual Blow Molding Conference

## Seagate Convention Center - Toledo, Ohio

### Schedule - October 9, 2007 Evening

|  |                        |                                                   |                                        |
|--|------------------------|---------------------------------------------------|----------------------------------------|
|  | <b>5:30 to 7:30 PM</b> | <b>Exhibition opening and cocktail reception.</b> | <b>Registration will also be open.</b> |
|--|------------------------|---------------------------------------------------|----------------------------------------|

### Schedule - October 10, 2007 Morning

| <b>Session #</b>       | <b>Time</b>      | <b>Topic</b>                                                                 | <b>Name/ Company</b>                                                                              |
|------------------------|------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>General Session</b> | <b>Room</b>      |                                                                              | <b>Moderator – Surendra Agarwal, Kraft Foods</b>                                                  |
|                        | 8:30 to 9:00 AM  | Keynote Speaker – Current State of the Industry – Challenges & Opportunities | Ashok Sudan – Graham Packaging Co., LP                                                            |
|                        | 9:00 – 9:30      | Global PE View                                                               | Nick Vafiadis, CMAI                                                                               |
|                        | 9:30 – 10:00     | PET Outlook                                                                  | Chase Willett, CMAI                                                                               |
|                        | 10:00 – 10:30    | Blow Molding North American Market Analysis                                  | Angela DeRosa, Plastics News                                                                      |
| <b>BREAK</b>           | 10:30 – 11:00    | Networking Opportunity                                                       |                                                                                                   |
| <b>Session 1A</b>      | <b>Main Hall</b> | <b>Packaging-Material Advancements</b>                                       | <b>Moderator – Scott Steele, PTI</b>                                                              |
|                        | 11:00 – 11:30 AM | Bimodal HDPE Innovations                                                     | Babli Kapur, Dow                                                                                  |
|                        | 11:30 – 12:00 PM | Advancements in Blow Molding                                                 | Shawn Sheppard, Milliken & Company                                                                |
|                        | 12:00 – 12:30    | Polypropylene Resins                                                         | Mike Musgrave, Total                                                                              |
| <b>Session 1B</b>      | <b>Room</b>      | <b>Industrial – Automotive Applications</b>                                  | <b>Moderator – Bill Galla, GE Plastics</b>                                                        |
|                        | 11:00 – 11:30    | Monolayer Solutions for Low Permeation Small Engine Fuel Tanks               | Paolo Marriuto, GE Advanced Materials-Americas                                                    |
|                        | 11:30 – 12:00 PM | Metallization of All Plastics                                                | Tom Schmoyer, Surface Activation Technologies & Dr. Jack McCaskie, Rohm Haas Electronic Materials |
|                        | 12:00 – 12:30 PM | Barrier Material for Automotive Fuel Systems                                 | Maria Gallahue, Solvay Advanced Polymers LLC                                                      |

## Schedule - October 10, 2005 Afternoon

|            |              |                                                                                               |                                                                                     |
|------------|--------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Lunch      | 12:30 – 1:30 | Guest Speaker –<br>“Where Are We Going: Down or Up?”                                          | Sam Belcher,<br>Sabel Plastechns, Inc.                                              |
| Session 2A | Main Hall    | Packaging – Innovations                                                                       | Moderator – Gary Carr,<br>Bekum American Corp.                                      |
|            | 1:30 – 2:00  | Co-Polyester Material for Clear<br>Handleware Bottle Production                               | Calvin Becker, Eastman<br>Chemical Company                                          |
|            | 2:00 – 2:30  | High Output Production<br>of Co-Polyester Bottle<br>Production                                | Charles Walls, Bekum<br>America Corporation                                         |
|            | 2:30 – 3:00  | Automated Handling and Post-<br>Mold Finishing of<br>Blow Molded Parts                        | Tom Ballay,<br>Autotec Inc.<br>Dr. Jack McCaskie,<br>Rohn Haas Electronic Materials |
|            | 3:00 – 3:30  | The Development and<br>Challenges of the One<br>Gram Vial for the “Over<br>the Counter Drug.” | Sam Belcher,<br>Sabel Plastechns, Inc.                                              |

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|--------------------------|------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------|
| <b>Session 2B</b>        | <b>Room</b>      | <b>Industrial –<br/>Automotive Applications</b>                             | <b>Moderator –<br/>Bob Jackson,<br/>Jackson Machinery, Inc.</b> |
|                          | 1:30 – 2:00      | Achieving Perfect Wall Thickness Distribution for Critical Automotive Parts | Frank Kennedy,<br>Davis Standard LLC                            |
|                          | 2:00 – 2:30      | Blow Molding Using Internal Blade Techniques                                | Mike Moran,<br>International Automotive Group, North America    |
|                          | 2:30 – 3:00      | Low Permeation Suction Blow Fuel Filler Tube                                | Chad McClung,<br>Stant Manufacturing, Inc.                      |
| <b>Paper</b>             | 3:00 – 3:30      | Cost Effective Automotive Automated Tooling                                 | Jaume Guma,<br>Andre Lanhoso,<br>AMB-Moldes                     |
| <b>BREAK</b>             | 3:30 – 4:00      | Networking Opportunity                                                      |                                                                 |
| <b>Education Session</b> | <b>Main Hall</b> |                                                                             |                                                                 |
| Concurrent Sessions      | 4:00 – 5:15      | Introduction to PET/Reheat Stretch Blow Molding                             | Scott Steele,<br>Plastic Technologies, Inc.                     |
|                          | 4:00 – 5:15      | Overview of Polyolefins for Blow Molding Applications                       | Terry Glass,<br>Dow Chemical Co.                                |
|                          | 4:00 – 5:15      | Accumulator Head:<br>Blow Molding 101                                       | Bob Jackson,<br>Jackson Machinery, Inc.                         |

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|               |                |                                                                 |                                                               |
|---------------|----------------|-----------------------------------------------------------------|---------------------------------------------------------------|
|               | 4:00 – 5:15    | Increasing Productivity & Improving Quality While Reducing Cost | John Headrick, NAMPAC, assisted by Ben Lopez, Uniloy Milacron |
| SPECIAL EVENT | 5:30 – 7:00 PM | Reception                                                       |                                                               |
| SPECIAL EVENT | 7:30 – 10:00   | Blow Molding Awards Banquet                                     |                                                               |

### Schedule - October 11, 2007 Morning

| Session    | Room          | General Session                                                            | Moderator –<br>Lew Ferguson, PARISONS                 |
|------------|---------------|----------------------------------------------------------------------------|-------------------------------------------------------|
|            | 8:30 – 9:00   | Global Regulatory Trends Affecting Plastics                                | Joseph DeLorme, GE Plastics                           |
|            | 9:00 – 9:30   | Current and Proposed Evaporative Emission Regulations for Non-Road Engines | Alan Stout, EPA                                       |
|            | 9:30 – 10:00  | Intellectual Property (IP) Strategy                                        | Harold Fullmer, Woodcock Washburn                     |
|            | 10:00 – 10:30 | Secrets of Buying Resin at the Right Prices                                | Mike Dewsbury, RTI                                    |
| BREAK      | 10:30 – 11:00 | Networking Opportunity                                                     |                                                       |
| Session 3A | Main Hall     | Packaging - Sustainability Updates                                         | Moderator –<br>Ron Puvak, Plastics Technologies, Inc. |



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|                   |                  |                                                                      |                                                                      |
|-------------------|------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
|                   | 11:30 – 12:00 PM | Electric vs. Hydraulic Packaging Machinery                           | Moreno Minghetti,<br>Techne SpA                                      |
|                   | 12:00 – 12:30    | The WalMart Scorecard:<br>A View From The Outside                    | Dave Cornell,<br>DD Cornell Associates LLC                           |
|                   | 11:00 – 11:30    | End-User Perspective on<br>Sustainability of Food Packaging          | Roger Zellner,<br>Kraft Foods                                        |
| <b>Session 3B</b> | <b>Main Hall</b> | <b>Industrial – Design</b>                                           | <b>Moderator –<br/>Daryle Damschroder,<br/>Fremont Plastic Molds</b> |
|                   | 11:00 – 11:30    | Simplifying Tool Design for<br>Cost Reduction                        | Mike Biddle,<br>Progressive Components                               |
|                   | 11:30 – 12:00 PM | Engineering Thermoplastics for<br>Industrial/Automotive Applications | Bill Galla,<br>GE Plastics                                           |
|                   | 12:00 – 12:30    | High Purity Large Part Blow Molding                                  | Robert Huebner,<br>US Coexcell, Inc.                                 |

### **Schedule – October 11, 2007 Afternoon**

|                   |                  |                                                          |                                                                                       |
|-------------------|------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------|
| Lunch             | 12:30 – 1:30     | Guest Speaker – Sustainability:<br>Now and in the Future | Rob Krebs,<br>American Chemistry Council                                              |
| <b>Session 4A</b> | <b>Main Hall</b> | <b>Packaging – Designs</b>                               | Moderator – Babli Kapur,<br>Dow Chemical Co.                                          |
|                   | 1:30 – 2:00      | Economic Modeling for Packaging<br>Choices               | Eric Mogensen,<br>Allied Development Corp. &<br>Jason Brodil.<br>The Dow Chemical Co. |
|                   | 2:00 – 2:30      | The Value in Using the Right<br>PET Preform              | Larry Mucha, ZDM Group<br>& Scott Steele, PTI                                         |
|                   | 2:30 – 3:00      | The Key to a Successful Product<br>Launch                | Thomas Arndt,<br>Y Water, Inc.                                                        |
| <b>Session 4B</b> | <b>Room</b>      | <b>Industrial Applications</b>                           | <b>Moderator: Jon Meckley,<br/>Penn State Erie</b>                                    |
|                   | 1:30 – 2:00      | Flexible Production on Large<br>Blow Molding Machines    | Thomas Berghöfer,<br>Kautex Maschinenbau GmbH                                         |
|                   | 2:00 – 2:30      | Advanced Parison Profiling                               | Marco Solinas,<br>Uniloy Milacron, Italy                                              |
|                   | 2:30 – 3:00      | Automated Machine Data<br>Acquisition                    | Pierre Maillett,<br>CyFrame                                                           |
|                   | 3:00 – 3:30      |                                                          | Timothy Hoeller,<br>DQR Testing Services                                              |

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## Graham Engineering Corporation Continuing Education Grant Program

The Blow Molding Division of the Society of Plastics Engineers and Graham Machinery Group co-sponsor a program for continuing education of blow molding industry workers. By making financial resources available to Blow Molding Division member companies, this program will assist more people in obtaining continued education in blow molding and improve their job-related skills.

Up to \$500 per person is available to attend an SPE Blow Molding Conference, an SPE Seminar in Blow Molding, or other program applicable to blow molding.

### Eligibility Criteria:

1. The employee must be a full-time employee of one of our member companies (having at least one current member of the SPE Blow Molding Division).
2. The employee's job function must be blow molding related.
3. The employee's academic training must not be higher than Associate Degree.
4. The employee must have company recommendation and support.
5. Costs exceeding \$500 will be the responsibility of the employee or employer.

### How to enroll:

1. Submit a request to the Blow Molding Division at the following address:  
Mark Heitker  
Innovene Tech Center  
1230 Battleground Road  
LaPorte, TX 77571  
[Mark.Heitker@innovene.com](mailto:Mark.Heitker@innovene.com)
2. Include a letter of support from your company.
3. You will be notified of acceptance before the event that you wish to attend.

## Resin Costs Continue Early 2007 Trend

by Jeffrey Light, A-ToP Polymers, Inc.

The upward movement in PE, PP and PET prices which started in the first quarter of 2007 has continued until the date of this article, August 28, 2007. Each of these three separate and independent markets is highlighted below and carries its own month over month graph detailing the change in market price off baseline to capture the January 2007 market movement. Specifics regarding each of the three major material categories are detailed below.

### High-Density Polyethylene

The price of HDPE resin in 2007 has been consistent, that is consistently up. In fact, the price has moved north more than half of the months beginning January 1. Also noteworthy is the fact that there have been no decreases in the HDPE market price for 2007. To date, the per pound resin investment figure is 15-cents higher than it was New Years Eve (see accompanying graph for month over month reflections). Many are wondering if the 2007 campaign will mirror that of 2006. In 2006 prices rose the first part of the year and fell in the second half.

Given the global nature of our industry, North American producers have been able to increase prices as a result of global supply imbalances. While domestic HDPE inventory at the producer level has been lean, producers have been able to profitably export pounds as a result of operating problems at resin production facilities in Europe and South America. This momentous demand pull, which started in the fourth quarter of 2006, coupled with the weak US dollar has made domestic resin very attractive on the global marketplace. The resin producer's ability to move product abroad has more than compensated for non-stellar domestic demand in many segments here, thus keeping excess inventory from building. Overall, domestic blow molding grade HDPE demand is slightly off for the year. It has been reported that producer days of inventory are starting to move towards a balanced position from tight, as the overseas production facilities come back on line.

Looking forward, PE producers have two increase announcements in play at this time. The first is for 4-cents per pound effective September 1, originally announced effective August 1<sup>st</sup>, while the second announcement requests 5-cents per pound effective September 15.

*continued on next page*

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## PET

As is almost always the case, polymer price market movements are driven by the change in the costs of its chemical raw materials and the anticipated demand for the finished pellet by the conversion market. These basic economic realities can certainly be applied to the 2007 PET resin market.

Generally speaking, the PET resin market has seen it's per pound resin investment figure increase for the majority of the year. To date, June was the month in which prices were the highest; however, it was followed by a reduction in July (see accompanying graph for month over month reflections). PET prices are up 6-cents from the first of the year. Throughout the PET "busy season", spring and summer, there have been a number of feedstock supply disruptions, coupled with seasonal high bottle demand to which the increase in pellet prices can be attributed.

PET resin manufacturers have had to react to declarations of Force Majeure within the Meta Xylene, Isophthalic Acid, and Acetic Acid markets. Further, these manufacturers are now faced with potentially higher prices for Ethylene Glycol attributable to reports of possible lengthy overseas outages. However, on the demand side, one has to wonder where the market will equalize as a result

of the high season for bottles passing and the ongoing constraints within the fiber market, mainly carpet, due to the North American real estate/housing woes. Currently, there are several PET producers with price increase nominations on the table in the amount of 4-cents.

## POLYPROPYLENE

To date, the 2007 PP prices have been much like 2006 with the first half of each calendar year seeing prices generally move upward. PP resin prices have continued to rise throughout 2007, albeit not at the pace seen earlier in the year (see accompanying graphs for month over month market reflections). YTD, PP prices are up 11-cents since January 1. Only time will tell if the similarities between the 2006 and 2007 PP markets continue. For the record, the market price for PP resin, like PE, fell in the second half of 2006.

As reviewed within the Spring Newsletter article, PP prices have a history of tracking the changes in the propylene monomer market. That stated, it is easy to understand why PP has risen from January through August as producers seek to maintain margin. Similarly, the recent fall in crude oil prices is a factor in a slight decrease in the spot price of monomer,

*continued on next page*



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*Martin Cass, Fremont Plastic Molds*

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which could in turn result in contract monomer prices falling. However, there are many other reasons this might *not* occur, i.e. unforeseen refining outages, weather related concerns that could affect this oversimplified observation. In addition, the seasonality of PP consumption, the affects of the weak housing sector (again carpet, etc.) as well as any significant change affecting export dynamics must be taken into consideration. Each and every one of these possibilities, alone or combined is enough to change a market.

To date, there are several PP resin manufacturers with price increase nominations in play for September 1, in the amount of 3-cents per pound.

The data points used to create the accompanying graphs are based on general market knowledge and should not be viewed or understood to reflect the actions, prices, or efforts of any one resin manufacturing company, institution or organization.

**PP Market Movements (¢) January 2007 - August 2007**



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## Executive Meeting

Ron Puvak  
Benjamin Lopez  
Jonathan Meckley  
Mark Barger  
Gary Carr  
Mark Heitker  
Bob Jackson  
John Rathman  
Surendera Agarwal  
Scott Steele

### □ Meeting @ 8:55

- Review BOD meeting action items guidelines and follow-up procedures
- Conference call to be scheduled as required
- Set procedures on conferences (follow given agenda and time limit)
- Expose the value of the ABC within our industry
- Sponsorship – increase jobs relationships and connections
- Job opportunity (Website Opportunity)
  - Job Postings
  - Students / Normal
  - Assign a group update (using the SPE link)
- Pinnacle Award (tasks)
  - Co-Sponsor 2 days @ ANTEC
  - ANTEC papers – expand interest topics
  - TPC – ANTEC Chair position
  - On-line media-books
  - Partnering with SME / SAE groups (Member Benefits)
  - Target ABC attendance increase

## PARISONS

*Knowledge Workers in Blow Molding*

### LEWIS FERGUSON

APPLICATION DEVELOPMENT, PROJECT MANAGEMENT, TRAINING  
MATERIAL SELECTION, PROCESS DEVELOPMENT, MARKET ANALYSIS

PHONE: 1-609-368-7230

FAX: 1-609-368-7229

EMAIL: PARISONS@AOL.COM (US)

PO BOX 483 , STONE HARBOR, NJ 08247 USA



The advertisement features a large industrial reciprocating blow molding machine in the center. Above the machine, the Uniloy Milacron logo is displayed with the website www.uniloy.com. To the right of the machine, a list of product applications is provided: dairy product containers, water, juice, food and drink containers, automotive and recreational products, and household chemical containers. A small diagram of the machine's reciprocating mechanism is shown in the top right corner. At the bottom of the advertisement, a row of various plastic containers (jugs, bottles, and tubs) is shown. The word 'UNILoy' is written vertically in large white letters on a red background on the right side of the image.

**UNILoy MILACRON**  
www.uniloy.com

**Uniloy Milacron Reciprocating**

- ▶ dairy product containers
- ▶ water, juice, food and drink containers
- ▶ automotive and recreational products
- ▶ household chemical containers

UNILoy



AMERICAN TOOL & ENGINEERING, INC.

## American Tool & Engineering, Inc.

- Complete tool design from start to finish
- Machined & Cast aluminum molds
- On-time delivery
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For more information  
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*Quality Molds by Design*

*Dedicated to building quality molds  
for the Blow Molding, Thermoforming &  
Pressure Forming Industries*



GRAHAM ENGINEERING CORPORATION

## HOW THE TOP PRODUCERS PRODUCE

### Extended Shelf Life. Extensive Processing Options.

Single layer or multilayer, low, medium or high volume. Shuttle or wheel technology. Single machines to turn-key systems. Graham has the equipment and the expertise to help you meet your PSI and packaging needs. From resin to dairy cases, we can help you create packaging with consumer appeal and product protection. Graham also supplies a full line of industrial accumulator feed machines to meet your extrudative and industrial molding requirements.

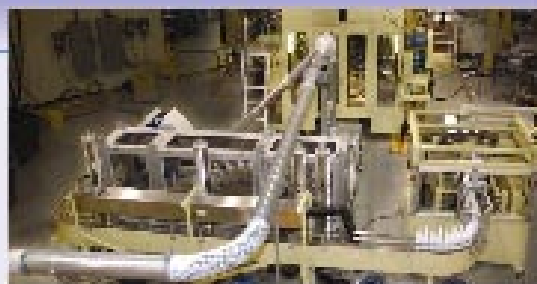
**Hit us with your best shot. Graham has a solution for every production requirement.**

Industry's highest production is made possible by a proportionally controlled, high-speed, hydraulic clamping system. It is just one of the innovations offered by our vertical lines. Others include a screen changer combined with our Shot-hot technology and the X&M Reingard™ FC Blow Molding Controller, which can be expanded with optional PLC position programming, for effective lightweight bottle production.



GRAHAM ENGINEERING CORPORATION

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Richard Nolan, Regional Sales Manager • (408) 290-0352 • [rnolan@grahamengineering.com](mailto:rnolan@grahamengineering.com)  
Sandra Weaver, Sales Development • (415) 443-1100 • [sweaver@grahamengineering.com](mailto:sweaver@grahamengineering.com)



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## Board of Director's Meeting

Minutes of the Board of Directors of the  
Blow Molding Division of SPE,  
Meeting held on May 08, 2007  
at the Millennium Hotel Cincinnati, Ohio.

### Call to order at 3:15

BOD Members present:  
Ron Puvak, Benjamin Lopez,  
Bob Fitch, Scott Steele,  
Jonathan Meckley, Mark Heitker,  
Win Burrington, Bob Jackson,  
Mridula Kapur, Bill Galla,  
Gary Carr, Surendera Agarwal,  
John Rathman, Kyle Grodzinski,  
Terry Glass, Daryle Damschroder,  
Mark Barger, Geoff Ward,  
Jeff Light, John Headrick

BOD Members Excused:  
Lewis Ferguson, Marta Janowitz

Guest: Tricia McKnight (SPE – Liaison)

- Recognized as visitors to the meeting - Tricia McKnight
- Reading of Non-Disclosure/Non-Compete Statement

### Treasurer's Report – John Rathman

**Spring Treasurer's Report -**  
**Since the last report dated February 26, 2007:**

### Operating Fund Highlights:

#### Expenses

\$ 1950 – 4th Q 2005 & 1st Q 2006 Web Site support services-Alex Weber  
\$ 491 – Lunch at March BOD Meeting  
\$ 272 – March BOD Meeting Room  
\$ 239 – Insurance Policy for ABC facility and BOD meetings  
\$ 71 – BOD Teleconference Meetings  
\$ 46 – Office Supplies & Postage  
\$ 10 – Bankcard Processing Fee  
\$ 3079 – Total

#### Income:

\$ 1032 - SPE 2nd Quarter 2007 Membership Rebate  
\$ 298 - Interest  
\$ 1330 - Total

### Disbursement Fund Highlights:

#### Expenses

\$ 1742 – Pennsylvania State Univ. Erie – School Grant Program

### M.C. Molds, Inc

125 Industrial Drive - Williamston, MI 48095  
P. 517-956-6481  
F. 517-956-4828  
Email - sales@mcmolds.com  
800 576-6666 - Sales

Extrusion Blow Molds, Spun Trimmers,  
Foam Molds, Vacuum Molds & Repairs /  
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3000lb Long Stroke Blows

Blow Trimming

Stretch Blow Molds

ABS Molds & Blow Molds

Foam & Vacuum Molds

Spun Trimmers

Transfer and Film Tools

Recin Molds

### JB

Products & Machinery

Inline Deflasher

Inline Deflasher with Tool

Hydraulic Deflasher

Hand Load Deflasher

Inline Block Finishing

### Income:

\$ 5000 – ExxonMobil 2007 Donation to SPE Scholarship Fund  
\$ 4000 – Captive Plastics' 06-07 Scholarship Contribution  
\$ 2000 – Graham Engineering Corp. 06-07 Scholarship Contribution  
\$ 56 - Interest  
\$ 11056 - Total

Currently part of the Disbursement Fund is invested in a 12 month \$20,000 Certificate of Deposit maturing February 29th, 2008, earning 5.2% interest, and another 12 month \$15,000 CD, maturing on June 21, 2007, earning 5.1% interest.

### Grant Fund Highlights:

Currently earning 4.5 % interest in the SPE Investment Plan (about \$600/month).

### Our 3 fund's balances are:

| Fund         | Balance                 |
|--------------|-------------------------|
| Operating    | \$ 35,390.72            |
| Disbursement | \$ 22,897.15 + \$35,000 |
| in CD's      |                         |
| <b>Grant</b> | <b>\$ 179,563.23</b>    |
| Total Funds  | \$ 272,851.10           |

Mark / Bob - Motion to retain any surplus funds greater the prudent reverse in the Operating Fund at the end of the 2006-2007 fiscal year, instead of transferring the surplus to the Disbursement Fund. Voted and 2/3 vote met approved.

### □ Councilor's Report – Mark Barger

Council Meeting Summary for Blow Molding Division  
Meetings attended May 5th and 6<sup>th</sup>

- Divisions Committee
- Committee of the Council of the Whole (C-COW)
- Council I (3rd Council Meeting of 2006 – 2007)
- Council II (1st Council Meeting of 2006 – 2008)
- A brief summary of those meetings follow
- A full report will be subsequently issued
- The entire package of council materials can be obtained from the Councilor upon request

### Highlights:

- SPE doing OK financially
- Best ANTEC in years, based on several metrics:
  - Financials
  - Attendance
  - Papers
  - Exhibits

**Don't gamble with your mold and tooling alloys.**

**MOLDMAX®**  
MOLD ALLOYS

Brush Wellman's MoldMAX® family of mold and tooling alloys is helping injection and blow molders realize:

- **FASTER CYCLES**
- **THERMAL MANAGEMENT SOLUTIONS**
- **IMPROVED PART QUALITY**

**MoldMAX® Family of mold & tooling alloys:**

| Product Name   | Alloy                        | Hardness | Typical Applications                       |
|----------------|------------------------------|----------|--------------------------------------------|
| MoldMAX® HH    | Copper Beryllium             | 40 Rc    | Injection & blow molds                     |
| MoldMAX® LH    | Copper Beryllium             | 30 Rc    | Injection & blow molds                     |
| MoldMAX® SC    | Copper Beryllium             | 20 Rc    | Injection & blow molds, hot runner systems |
| MoldMAX® XL    | Copper Nickel Tin            | 30 Rc    | Injection molds                            |
| NEW MoldMAX® V | Copper Nickel Silicon Chrome | 28 Rc    | Injection & blow molds                     |

**Why Brush Wellman Mold Alloys?**

| A Mold Must             | Brush Wellman Mold Alloys Provide:               | Benefits:                                                                     |
|-------------------------|--------------------------------------------------|-------------------------------------------------------------------------------|
| Transfer heat rapidly   | The highest thermal conductivity available       | • Rapid heat transfer<br>• Faster cycle times<br>• Lower processing costs     |
| Transfer heat uniformly | Uniform cooling                                  | • Dimensionally correct parts<br>• Minimized warpage<br>• Reduced scrap rates |
| Sustain 1M+ cycle life  | Excellent hardness, wear resistance, non-galling | • Higher cycle life with lower maintenance costs<br>• Less downtime           |
| Be easily fabricated    | Faster machining rates than tool steels          | • Lower mold fabrication costs                                                |

**BRUSH WELLMAN**  
ALLOY PRODUCTS

For more information, contact us at 888-MoldMAX (888-665-3629) or visit [www.MoldMAX.com](http://www.MoldMAX.com).

- International efforts continue: emphasis on Europe and India, still trying to figure out China
- Member survey completed and results summarized.
  - Councilor has a full copy which will be shared with the Board. Every board member should review this information

### Financial Summary:

- 2006 Audit complete, ended \$71k operating surplus
- Non-operating surplus \$232k
- Total surplus \$304k
- Negative retained earnings reduced to \$550k versus > \$1MM in 2003
- SPE Foundation: \$1.35MM
- 2007 revenue through March down slightly versus plan and recent years, reasons:
  - Slow ANTEC pre-registration (late surge in registrations have made this a non-issue)
  - Wiley payments (journal and publications) evenly spread over the year versus front-end loaded as done previously
  - PE magazine ad revenues lagging (remains an issue)
- Expenses on track with plan

### Plastics Engineering Magazine Issues:

- Ad revenue still lagging and will negatively impact 2007 financials if not addressed
- So why not discontinue the magazine?
  - People do not join the Society for the magazine, but...
  - Once a member, people see the magazine as a key member benefit (the survey supports this point)
  - HQ is worried about membership impact if hard copy is discontinued.
- HQ estimates a 250k revenue hit (due to reduced membership) for 2 to 3 years if hard copy was discontinued.
- Therefore emphasis for the next few months will be on restoring lost ad revenue and then ultimately grow it

### Plastics Encyclopedia

- New member benefit under development
- Beta testing beginning
- Not really an encyclopedia, more of a resource for current technical content
- Structured along the lines of Wikipedia using a collaborative format
- Member supplied content (after vetting process)
- This could be a good outlet for our Division to supply technical content (versus doing a stand



**Turning New Ideas into Blow Molded Products**

**KAUTEX MASCHINENBAU**

*"I was surprised by what Kautex Maschinenbau was able to do for us."*

With the innovative design of blow molding machine from Kautex Maschinenbau, all necessary changes for increased production and cost efficiency.

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alone activity at our website). Recommend that the Website Committee take this under consideration.

## Sections and Divisions

- Sections:
  - Four mergers within the past year
  - Four Sections voted to be placed in abandonment
  - One Section placed in Provisional status
- Divisions:
  - Several new SIG's in formation:
    - Nano-technology, still looking for a champion
    - Biopolymers, potential conflicts with Environmental Division – issues to work through
    - Building & Construction, plan to petition Council at Sept 2007 Council meeting
  - Two SIG petitions approved:
    - European Extrusion
    - European Composites
  - Mini-tech guidelines being prepared
  - Continuing to ask Divisions to provide updated Speakers List: Registration can now be done on-line
  - Reminder that each Division can send one News Brief per month free of

charge (see Leadership Services webpage at 4spe.org for more information)

## International Committee:

- International membership up 500 since year 2000:
  - 3370 versus 2850
- Europe and India doing well
- Still trying to build SPE name recognition in China:
  - Hollow Parts Conference planned there next April
  - Looking for 16 speakers (any interest from the BOD)
- India conference planned for Dec 2007
- Australia conference planned for 2008
- SPE Europe may plan a European ANTEC in ~2009

## ANTEC:

- 2007 ANTEC, "best since Orlando in 2000"
- 14% more papers (739) versus prior year
- 121 Technical Sessions
- Registrations up and ahead of plan
- Plastics Encounter partnership with Plastics News very successful: \$428k revenue versus \$275k in previous best at San Francisco ANTEC in 2002
- 130 exhibitors, 28 of these are new. Exhibit area nearly sold out

# ***YOUR EXPERIENCED PARTNER IN ON-LINE PLASTIC CONTAINER INSPECTION***



**NexGen Rotary**

The current population of ALPS rotary, linear and integrated leak testing machines is assuring the integrity of more than 50 billion bottles per year.

*Visit our web site today for information on our entire line of leak testing products!*

**www.alpsleak.com**



**LeakMonitor**  
FOR BLOW MOLDERS



**SS-100**



**RS-100**



**DB-100 Downed Bottle Ejector**

**ALPS**  
Assuring Plastic Container Integrity  
A division of TASI

- Plastics News partnership will continue for 2008
- Write Now Guidelines updated and made as interactive web content
  - Different paper types will be considered/ accepted at future ANTECS:
    - Submitted papers
      - Technical papers (classic ANTEC paper)
      - “Commercial” papers (relaxed guidelines)
        - Keynote presentations
        - Tutorials
        - Roundtable discussion
- This represents a significant change and allows us to easily fill a good ANTEC session with invited papers from our prior year ABC. This allows for Blow Molding technical content to be presented to a broader audience. Next year’s ANTEC TPC should take note

#### Future Council Meetings

- 28-29 September 2007: Irvine, CA
- 25-26 January 2008: Savannah, GA
- 2008/2009 Council meeting format will change:
  - Fall and Winter Council meetings will be combined into one Council meeting likely held in October or November

#### □ TPC – Ron Puvak

- ABC 2006 \$24k = 5% increase
- ABC 2007 Updates -
  - Surendra Agarwal/ Lew Ferguson
    - Seagate Center, Toledo, OH
    - Title: “ Blow Molding – Challenges and Opportunities”
    - October 10, 11 – 2007
    - BOD meeting Oct 09
    - K-show Year
    - Call for Papers at ABC 2008
    - Preliminary announcement posted
    - Keynote Speaker (3 Candidates)
    - Preliminary Agenda Structured
    - Follow-up hotel details
- ABC 2008 Updates -
  - Lew Ferguson/ John Rathman
    - Chevron-Phillips – John Rathman
    - Bartlesville, OK
    - Split expenses with CPC
    - Call for Papers at ABC 2009
- ABC 2009 Updates
  - OPEN/ Co-Chair Scott if in Toledo/ Jon Meckley/ Gary Carr if in Atlanta.
  - Conference in Toledo, OH or Atlanta, GA
    - Joint with Section?
  - October 10-12

Polysort is a portal for the plastics and rubber industry, providing news, links and networking opportunities.

Through the Power of Many, we help manufacturers of plastic and rubber resin and materials, machines, products and services leverage the popularity of our site to reach prospects through online advertising.

As a longtime member of the plastics and rubber industries, Polysort has demonstrated expertise in web site design, including search engine optimization and marketing services.



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Suite 140  
Akron, Ohio 44333  
800-326-8666**

- NPE Year
- ANTEC 2008, Milwaukee
  - Surendra Agarwal/ Bob Jackson
- ANTEC 2009, St. Antonio
  - Bob Jackson/Ron Puvak
- ANTEC 2010, Orlando
  - Ron Puvak / Babli Kapur

## Education – Mark Heitker

To: Board of Directors:

SPE Blow Molding Division May 5, 2007

**Subject: ANTEC Education Committee Report – Activities since Winter BOD Mtg**

### Memorial Scholarship program:

Our new scholarship recipients are:

**Russell Ankerbrandt** – Ferris State University – 1<sup>st</sup> year Carrie Fox Solin Memorial Scholarship. **Dr. Lawrence Solin** plans to present this scholarship to Russell at the conclusion of our ANTEC blow molding session at 11:00 am Wednesday May 9<sup>th</sup>.

**Jason Merkle** -Ferris State University – 1<sup>st</sup> year John Raymonds Memorial Scholarship

Their semi-annual \$2000 awards begin in the fall 2007 semester.

Our current scholarship recipients are:

**Matthew Gross** - Pennsylvania College of Technology – 1<sup>st</sup> year Carrie Fox Solin Memorial Scholarship

**Daniel Dempsey** - Penn State Erie – 1<sup>st</sup> year John Raymonds Memorial Scholarship

**Matthew Loeffler** - Penn State Erie – 2<sup>nd</sup> year Carrie Fox Solin Memorial Scholarship

Our scholarship program is being managed through the SPE Foundation. Program info can be found at the SPE website. [www.4spe.org/foundation/scholarships.php](http://www.4spe.org/foundation/scholarships.php)

We also plan to recognize the newest fellow of our division, our 2005 Lifetime Achievement awardee Professor **Saleh Jabarin**, at the conclusion of our ANTEC blow molding session at 11:00 am Wednesday May 9<sup>th</sup>. Our 3 current scholarship recipients also plan to be there. Please join us for this event.

### Corporate Educational Sponsors:

A \$4000 contribution was received from Captive Plastics' for continuing support of the John Raymonds Memorial Scholarship.

### 2007 Student Design Competition:

We have received 33 abstracts from **Penn State Erie** and 5 from **Western Washington University**. Final

project submissions have been received by Bob Fitch. A subcommittee will review and choose a winner. The recipient of the \$1000 award will be invited to prepare a poster display on their project for our next ABC.

### Graham Engineering Corporation Continuing Education Grant Program (Former Workplace Scholarship):

No new awards since Flambeau grants last summer. The **GEC** 2007 contribution for \$2000 was received. This is the 5<sup>th</sup> contribution toward their pledge of \$15,000 consisting of seven annual \$2000 contributions with a \$1000 contribution in the 8th year.

Students have the design rights – design returned to the students after competition.

### Blow Molding Division School Grant Fund:

Grants from The SPE Foundation/Blow Molding Division are available to educational institutions seeking funding for the purchase of blow molding equipment or educational resources pertaining to blow molding. Eligible items include machinery, tooling, auxiliary equipment, instrumentation, controls, finishing equipment, software, and training or educational modules. This program is being promoted by the SPE Foundation.

A grant of \$1742 was sent to **Penn State Erie** for preventative maintenance service work on their Bekum blow molding machines after being moved to a new lab building has been received.

### Awards:

One nominee for the Blow Molding Division's **Lifetime Achievement Award** has been received for **William Gaiser** from Sam Belcher. Please submit additional nominees ASAP as we need to choose a finalist very soon.

### Awards Subcommittee:

#### □ Awards Report – John Headrick

- Lifetime Achievement
  - Nominations – Candidate Voted & Approved
  - Reviewed the opportunity for the Lifetime Achievement recipient to direct a donation to the school of their choice.
- Fellows Nominations
  - Saleh Jabarin
- Honored Service Nominations
  - Ron Puvak and Bob Jackson
- Outstanding Board Member Service
  - Surendera Agarwal

#### □ Next Newsletter – May 2007

- Marketing – Ron Puvak current – Gary Carr to assume task)
- After ANTEC meeting – Need content.
- Focus on ABC 2007,

- Going to quarterly issues,
- Ben – Industrial , Trends in material pricing  
– Jeff Light/Bill Galla, Glass to Plastic  
Conversions – Surendra

- Survey at ABC 2007 – Ron / Scott
- E-mail lists
- Deirdre possible duty later in the effort. BOD  
members can send their list to her each year.

❑ **Newsletter – September 2007**

- Before ABC 2007 – Will need content.
- Focus on ABC 2007,
- Pre K-show Article. Sponsors and BOD  
members to send their information

❑ **Newsletter – November 2007**

- After ABC 2007 – Will use materials from  
conference.
- Summary of ABC 2007,
- **Focused columns - Authors.**
- PET SBM column – Scott Steele.
- Column Extrusion blow – Gary Carr.
- Industrial Blow Molding column –  
Ben Lopez.
- Injection Blow Molding column –  
Ben Lopez.
- **News Briefs**
- One a month. First one completed and sent  
– Will continue use for ABC 2007  
announcements.
- **How effective is the electronic newsletter?**
- SPE Tracking of the hits - Ron

❑ **Newsletter – Interest and Topic Leaders**

- PET SBM column – Scott Steele.
  - Column Extrusion blow – Gary Carr.
  - Industrial Blow Molding column – Ben Lopez.
  - Injection Blow Molding column – Ben Lopez.
  - Material forecast – Bill Galla
  - K07 product review
  - Focus on highlights / key issues
  - Open participation to the BOD
  - Survey – ABC input
  - Newsletter review (focus on highlights &  
key issues)
  - Rework our Mission Statement – Gary Carr
- ❑ Membership – Lew Fergusson –
- Report this at the meeting**
- Date as of April 30
  - Primary - 619
  - Secondary - 400
  - Total - 1019
  - Lew update on e-mails to new members?
  - Welcome packets and letters – Lew will

## **ONE WEEK PROTOTYPING** **HDPE, P.P, PVC, PET, P.C....**

**GIVE US YOUR IDEA, WE WILL PROVIDE SAMPLE BOTTLES  
IN ONE WEEK, MADE FROM A REAL PRODUCTION MOLD,  
RUN ON A REAL BLOW MOLDING MACHINE.**

- 1. BOTTLE DRAWINGS-1 DAY**
- 2. SAMPLES-1 WEEK (SINGLE CAVITY MOLD-1 WEEK**
- 3.PRODUCTION BLOW MOLDS-2 WEEKS**

**“WE BRING GOOD THINGS TO BLOW MOLDING”**

**EXTRUSION BLOW MOLDING MACHINES**  
**P.E.T. STRETCH BLOW MOLDING MACHINES**  
**MEDICAL ASEPTIC BLOW-FILL-SEAL MACHINES**

**RAO DESIGN INTERNATIONAL, Inc.**

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**Tel: (847) 671-6182 Fax: (847) 671-9276**

- send copies to Marketing Committee
- SPE Survey action items
- Action Item #2: Enhance outreach to SPE members, with the aim of increasing renewal rates, by launching a membership communications campaign designed to increase awareness and use of member benefits, give members a chance to share feedback with the Society, and generally enhance the value of SPE in the members' minds. Begin with first-year and student members.
- Low to revise current programs and focus on the new members and students.
- Suggest contacting them and engaging them early.

□ Sponsorships – Ron Puvak

- **We have 22 as of last ABC**
- Need to get to 25 for this ABC.
- **Have begin new cycle**
- May will begin and renew existing sponsors.
- Needs list of new potential sponsors from BOD members – Send to Mary
- Deadline date for sponsorship – August 1st.
- Three new sponsors already in house – Confer, A-Top Polymers, JSP (Diamond)

- Updated Sponsorship materials. – Need to revise the proposal. Ron
- Update of Presentation – Gary Carr
- New Sponsorship levels defined – Diamond level - Ron
- Gary Carr to update SPE Blowing Division Mission Statement
- Major groups to market
- Resin Suppliers
- Mold Makers/Secondary Operations
- Machinery Manufacturers
- End-users
- Update sponsorships options
- Additional sponsorships available

□ Web Site – Babli Kapur

- Report given at the meeting – Babli (John Headrick to assist / editor)
- Posting of the SPE ABC 2007
- Update publication format on our web site
- Update information options (add valued)
- Review internal & external support – web links & information
- Web Site changes required.
- Update the BOD roster & Photos – Secretary request
- Folders with no content –How to handle?

**TECHNOLOGY TO MEET ALL OF YOUR  
BLOW MOLDING NEEDS**  
*Profit from our Experience*

The advertisement features a blue background with several images of industrial blow molding equipment and finished products. The equipment includes large size machines, single and double-sided shuttle machines, high-output systems, tandem blowing setups, and extrusion PET and co-extrusion machines. Finished products include various plastic bottles and containers, some labeled as sterile blowing.

Large Size Machines

Single & Double-Sided Shuttle Machines

High-Output Systems

Tandem Blowing

Extrusion PET

Co-Extrusion

Sterile Blowing



- Remove Q&A – handle under subjects
  - Conferences a little work on details
  - Education/scholarship – small details needed for definition
  - Eliminate What's New - Fold into another area.
  - New links to information from specific companies –
  - BOD members and sponsors will provide content - Technical information.
  - Suggested that we integrate the Blow Molding Handbook into the site.
  - Add link to SPE Plastics Encyclopedia site.
  - Will generate a format for the web site for review – Babli
  - Message board options – Ask Alex for capability
  - Routine update maintenance for links – John Hendricks
  - Links for other forums sent to Babli.
  - Featured papers needs refreshed – ABC's info to update. – Use ABC 2006
  - Calendar needs updated and refreshed. – New format – Babli to design
  - How to make this a one stop source for Blow Molding Information?
- ❑ **ABC 2007 Market programs**
- Surendra Agarwal / Lew Ferguson
  - Site location will be Seagate Center, Toledo
  - October 10 – 11
  - BOD meeting October 09
  - K07 Germany
  - Theme: Blow Molding – Challenges & Opportunities
  - Advertising – Needs content for updated brochure.
  - CD from ABC 2006 has brochure in it.
  - Web site has preliminary flyer
  - Verify fees - regular registration: \$350.00 SPE member, \$475.00 for non-member 30 days prior. \$ 400.00 SPE member, \$525.00 for non-member at the door. 1 day fee \$250.00. Highlight SPE membership for higher conference fee.
  - List the conference as two day with a highlight on the night before.
  - October 10 & 11 Seagate Center, Toledo, Ohio
  - Advertising
  - First update sent in April
  - Web site updated.
  - Registration form is ready and will be distributed
  - News brief each month.
  - Plastic Engineering – 2 ads – June and September
  - E-mail blasts – 3 scheduled – June, August and September

## Attention blow molders — are your cooling lines corroded, blocked, or cracked?

**ALUMEC 99®** aluminum mold plate by Alcoa helps to:

- Maintain cooling efficiency and cycle times with resistance to exfoliation corrosion.
- Minimize downtime needed for cooling channel maintenance.
- Avoid premature mold failure through substantially increased resistance to stress corrosion cracking in cooling lines and cavities.
- Substantially increase mold life.
- Decrease repair costs.
- Improve productivity.

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 Fax: (248) 233-5788  
 E-mail: john.perryman@thyssenkrupp.com  
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**(800) 926-2600**



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AIN Plastics, Copper and Brass Sales, Ken-Mac Metals, TMX Aerospace, ThyssenKrupp Steel Services, ThyssenKrupp Hearn, TKX Logistics

**ThyssenKrupp**

- Need more program details to improve flyer.
  - Post (prelim) Program on the web site. – Ron end of May
  - Electronic flyers sent to all members -
  - Postcards to be sent three times. July, September, Early October?
- ❑ **ABC 2008 Market programs**
- Lew Ferguson & John Rathman
  - October 8 & 9
  - BOD meeting October 07
  - Split expenses with CPC and local section
  - Site location will be CPC, Bartlesville, OK
  - Call for papers at ABC 2007
  - Submit proposal by October 2007
  - Site location will be CPC, Bartlesville, OK
  - October 8 & 9 (Wed. & Thurs.)
  - BOD Meeting on October 7th
  - Committee Co-Chairs – Lew Ferguson/ John Rathman
  - Marketing - Ron Puvak
  - On site coordinator – Marta J.
  - Need proposal submitted to SPE National – October 2007
  - Call for papers at ABC 2007.
- ❑ **ABC 2009 Market programs**
- Open – CoChair Scott (Toledo) Jon / Gary (Atlanta)
  - Site location could be Toledo, Ohio or Atlanta
- Call for papers at ABC 2008.
  - Open – Co Chair Scott if in Toledo / Jon Meckley / Gary Carr if in Atlanta
  - Southern Section eager to work with us
  - October 10 -12
  - NPE year
  - Site location will be CPC, Bartlesville, OK
  - October 8 & 9 (Wed. & Thurs.)
  - BOD Meeting on October 7th
  - Committee
  - Co-Chairs – Lew Ferguson/ John Rathman
  - Marketing - Ron Puvak
  - On site coordinator – Marta J.
  - Need proposal submitted to SPE National – 10/07
  - Call for papers at ABC 2007.
- ❑ **OLD BUSINESS:**
- There was no Old Business
- ❑ **NEW BUSINESS:**
- Executive Committee to structure work contract as an external consultant
  - Motion voted and passed 4:10pm
  - Allocation of necessary funds for consultant expense (Deirdre M. Turner)
- ❑ **ADJOURNMENT:**
- Called motion to adjourn - approved @ 4:30



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Techne will be present at



**K 2007**

**HALL 14**  
**14 B 05**

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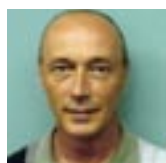
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