For over a day and a half, the Blow Molding Industry descended on The Seagate Convention center to attend its annual technical showcase known as the ABC 2007. This event has become the premier industry venue for all segments of the blow molding industry from resin supplier to end-user.

This year’s conference also included a distinguished list of attendees and keynote speakers. Highlighting day one was the Keynote Speaker, Ashok Sudah Vice President Graham Packaging who detailed the Current State of the Industry – Challenges and Opportunities and what is needed to meet those changes. Don Loepp, Plastics News gave the group the Blow Molding North American Market Analysis, Dave Cornell, DD Cornell Associates LLC looked at the WalMart Scorecard: A View From The Outside, while Roger Zellner, Kraft Foods spoke about the End-User Perspective on Sustainability of Food Packaging.

At lunch the group was treated to Rob Krebs of the American Chemistry Council explaining Sustainability: Now and in the Future how plastics is a very sustainable material.

The conference featured speakers who covered industry segments in both packaging and industrial applications. From resin developments to machinery innovations to automation, design and safety, no topic was missed. Attendees expressed great satisfaction on the scope and details they were exposed to during the conference.

The SPE Blow Molding Division’s annual awards were presented at dinner, which highlighted the student scholarships and student design winners. A special segment of the evening was dedicated to the Division’s Lifetime Achievement Award winner, Bill Gaiser, Founder of Broadway Industries.

For more information on this conference and presentation, go to the Division’s web site at www.blowmoldingdivision.org.
Chairperson’s Message

As we settle into this winter, the Board is already busy planning this October’s Annual Blow Molding conference. We are excited about going back to the Chevron Phillips Technical Center in Bartlesville, OK. It has been several years since we have been there. Last time we were there, it was one of our most successful conferences. It is one of the few locations that allow the attendees to see Blow Molding equipment in action.

At our next Board meeting in February, we will be looking to define the topics for the conference. If you have any topical ideas, new technology, or want to speak, please contact me and I will forward the information at the meeting. We want to create a learning experience with new and relevant information for all of the attendees.

Please remember to mark your calendars for October 7th through the 9th. It will be an event you will not want to miss. I look forward to seeing you there.
“It's About Decreasing Manufacturing Time.”

Martin Cass, Fremont Plastic Molds

“Building industrial blow molds used to be a foundry-based industry, but now everything is different... One has to be completely dedicated to CNC, automation and standardization.”

That's why many of today's leading mold builders are now calling on Progressive Components.

Items such as Blow Needles, Date Stamps, and Front Loading Pins and Bushings are in stock for immediate shipment, while Ejector Pins and Cylinders have emerged as new off-the-shelf standards.

Contact Progressive to discuss our growing line of products for Blow Mold Tooling and how we can assist your initiatives to reduce your mold building time.

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Contact: Jeff Light, A-ToP Senior Account Executive Director – SPE Blow Molding Division
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FOR IMMEDIATE RELEASE

OSU Alumni Association Honors Peters as a Distinguished Alumni Award Recipient

Stillwater, Okla. – The Oklahoma State University Alumni Association is pleased to honor Don Peters as one of the 2007 Distinguished Alumni Award Recipients. Peters, along with five other recipients, was recognized at a public reception September 22 in Southwestern Legacy Hall of the ConocoPhillips OSU Alumni Center in Stillwater and later in the day during halftime of the OSU football game against Texas Tech. The award is present to alumni for professional achievement and community service.

Peters received his bachelor’s degree in Soils from the Agronomy Dept., Oklahoma A&M in 1951. He spent his career with Phillips Petroleum Co. and subsidiaries, retiring after 49 years, 43 of which were in Plastics. Peters was the Principal Engineer of Blow Molding at Phillips Chemical Company.

Peters is the inventor and/or co-inventor of 36 patents. His most well-known inventions involve moving sections to blow mold irregularly shaped parts such as one-piece lids and handles of water coolers that people use every day. Peters also worked extensively with Phillips customers helping develop new products and providing technical service.

Peters was elected into the International Plastics Academy prestigious Hall of Fame and is one of 36 living members. He has been awarded three Lifetime Achievement Awards for his career accomplishments. He has authored and presented many technical papers and conducted seminars worldwide. Peters is a member of the Society of Plastics Engineers (SPE), a “Fellow” of the SPE and an Engineer Fellow Emeritus of Phillips.

Peters served in the 38th Infantry Division Battalion Medical Detachment during WWII. For his service, he was awarded the Combat Medical Badge, the Philippine Liberation Ribbon with a Bronze Star, three Overseas Service Bars and other honorable awards.

While at Oklahoma A&M, he was a member of the varsity football team and the Agronomy Club. Peters is a Distinguished Alumnus in the College of Agricultural Sciences and Natural Resources.

Peters and his wife, June, have two children: Scott and Nancy, both graduates of OSU.

A special thank you to the OSU Alumni Association’s Corporate Partners who so graciously provided support for this event: ConocoPhillips, Harrison Gypsum Co., and the OSU Foundation.

PARISONS
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MATERIAL SELECTION, PROCESS DEVELOPMENT, MARKET ANALYSIS
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- Patent protected

For more information please contact:
Marla Far participation Manager, Technology Licensing  T: +1 302 683 3068  E: loly.farman@invista.com
Mike Gardner Research Scientist  T: +44 164 237 2228  E: michael.w.gardner@invista.com

---

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**N-Sustainability**

Rob Krebs  
Director, Communications  
American Chemistry Council

---

**We Are Under Attack**

- Landfill Solid Waste Issues
- Bio-Degradability
- Phthalates
- Bag Bans
- Marine Litter And Debris
- Bisphenol A Baby Bottle Safety
- Vinyl Teething Rings
- E&E Brominated Flame Retardants
- Sustainability – Uses Fossil Fuels

---

**Why the Attacks?**

- Personal Resonance with Shared Values  
  - Baby Bottles and Teething Rings  
  - The Ocean  
  - Grocery Bags  
  - Consumerism  
- Aggregation = Imagined Impact = Good PR  
  - 100 Billion bags  
  - 50 Billion Bottles  
  - Plastic Debris for Decades  
  - Landfill Go On Forever

---

**THE SOURCE REDUCING CAPABILITIES OF PLASTICS**

![PET Soda Bottles](1990 grams)  
![Peanut Butter](18 oz.)

<table>
<thead>
<tr>
<th>PET Soda Bottles</th>
<th>Peanut Butter (18 oz.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>68 Grams 1977</td>
<td>10.2 oz.</td>
</tr>
<tr>
<td>51 Grams 1990</td>
<td>1.7 oz.</td>
</tr>
</tbody>
</table>

Source Reduction: 17 grams or 25%

---

**Blow Molder Sustainability**

- Reduced the weight 25%
- 8 billion bottles created annually
- You reduced the amount of plastic by an amount equal to 2 billion bottles
- Take Credit – You Did That

---

**Peanut Butter (18 oz.)**

<table>
<thead>
<tr>
<th>Weight of the jar:</th>
<th>10.2 oz.</th>
<th>1.7 oz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>% of total weight that's product:</td>
<td>64%</td>
<td>91%</td>
</tr>
</tbody>
</table>

Shipping and energy comparison:
**MUSTARD**

<table>
<thead>
<tr>
<th></th>
<th>Weight (oz.)</th>
<th>%</th>
<th>Weight (oz.)</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mustard</td>
<td>9.0</td>
<td>36</td>
<td>8.0</td>
<td>14</td>
</tr>
<tr>
<td>Package</td>
<td>5.0</td>
<td>54</td>
<td>1.3</td>
<td>86</td>
</tr>
<tr>
<td></td>
<td>14.0</td>
<td>100</td>
<td>9.3</td>
<td>100</td>
</tr>
</tbody>
</table>

71% less packaging per ounce of product

---

**Plastics Small User of Fossil Fuel**

- Residential & Commercial: 40%
- Transportation: 27%
- Plastics: 3%
- Industrial (excluding plastics): 30%

---

**Landfills**

Breakdown of the nation's garbage, in percentage.

Total in 1994: 209 million tons

Source: EPA 1996

---

**Nothing Degrades in a Landfill**

Unearthed in 1990's

After nearly 20 years

---

**Which Bag?**

Height of 1000 bags: 46" vs 4"

Weight of 1000 bags: 140 lbs. vs 16 lbs.

Shipping and energy comparison:

---

**Right for the Environment**

Plastic bags consume only 18% as much energy as needed to make paper bags.

---

**Source:**

RIGHT for the Environment

It takes 91% less energy to recycle a pound of plastic bags than to recycle a pound of paper bags.

Recycling

Source: DOE Energy Information Administration

Are Plastics A Large User of Fossil Fuels … Or No?

Q1: What percentage of the world’s fossil fuels would you estimate are used to make all the plastics consumed by the USA each year? (This includes plastics in your home, office, auto, medical supplies, etc.) Open-ended Respondents: Approx. 350. Modern Materials Magazine readers, 2005.

Allocation of Plastic Resins

~30% = ALL Packaging

29% goes to ALL Packaging

Source: American Chemistry Council Plastics Division Resin Review Statistics, 2005

Plastics Small User of Fossil Fuel

Transportation 27%

Residential & Commercial 44%

Industrial (excluding plastics) 39%

29% of 3% < 1% Of Fossil Fuels for ALL Plastics Packaging


Plastics are N-Sustainable

Infinitely Variable Sustainability

Recyclable Plastics Are A Valuable Resource, Too Valuable to Waste

NOW YOU CARRY THE MESSAGE

WILL YOU PLEASE JOIN US?

80% Get it Wrong!
**Graham Engineering Corporation**  
**Continuing Education Grant Program**

The Blow Molding Division of the Society of Plastics Engineers and Graham Engineering Corporation 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  
   INEOS Technical Center  
   1230 Battleground Road  
   LaPorte, TX 77571  
   Mark.Heitker@ineos.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.


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Confer Plastics
Invista
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EASTMAN
REPORT OF 2007 ANNUAL BLOW MOLDING CONFERENCE

Conference Sponsor - Blow Molding Division
Date of Conference - October 9 through 10
Location of Conference - Seagate Convention Center, Toledo OH

Total Attendance ___________ 237
SPE Members ___________ 177
Nonmembers ___________ 60
Number Attending from Host Section Number Attending from Division 177
Registration Fee Pre-Registration On-Site
Member $350 $400
Nonmember $475 $525

Registration fee include:
Preprint yes
Luncheon Ticket yes
Displays - Number 34 (University Displays)

Total Revenues $80,164.00
Total Expenditures $60,990.89
Surplus/Loss $19,173.11
Educational program Raised $19,000

Problem areas:
We still have trouble with head counts for meals and very late registrations. We ran short of food for the first lunch, and then every other was over supplied because we over reacted. We probably should charge more for late attendees because they cause a lot of trouble with the catering.

Also, we had a total of 6 people registering from foreign countries which required letters of invitation and a lot of leg work, and only 2 of them showed up.

The Seagate Center and the associated hotel are probably showing their age. We think the site is very good, but the attendees were grumbling. Our survey ran on attendees (the first time we did this) had some negative comments. A convention center is too big for our conference and we may look for alternatives in the future.

Success of the Conference:
We hired a program coordinator this year which was a big help in getting the speakers lined up. This was her main activity and it definitely taxed her. It however paid off in having better prepared speakers.

The people who lined up the speakers did a great job this year getting timely and interesting topics – this activity is key.

The award banquet where we honor our Lifetime Achievement Award winner was another high spot.

Suggestions for improving future Conference:
Include what additional help might be supplied by the International Organization.
We can use some help from national with high profile plenary speaker ideas. We can go after them, but we need some help with contacts and perhaps a push here and there.

Send a completed copy of this report to the Conference Coordinator within ninety (90) days of the Conference.

CONFERENCE CHAIRPERSON: Surendra Agarwal and Bob Jackson
DATE: November 7, 2006

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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 exclusives offered by our versatile lines. Others include a screen changer combined with our Shot Pot technology and the XBM Navigator™ PC Blow Molding Controller, which can be expanded with optional 100-point parison programming, for effective lightweight bottle production.
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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:

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Alloy</th>
<th>Hardness</th>
<th>Typical Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOLDMAX® HH</td>
<td>Copper Beryllium</td>
<td>60 Rc</td>
<td>Injection &amp; blow molds</td>
</tr>
<tr>
<td>MOLDMAX® LH</td>
<td>Copper Beryllium</td>
<td>30 Rc</td>
<td>Injection &amp; blow molds</td>
</tr>
<tr>
<td>MOLDMAX® SC</td>
<td>Copper Beryllium</td>
<td>20 Rc</td>
<td>Injection &amp; blow molds, hot runner systems</td>
</tr>
<tr>
<td>MOLDMAX® XL</td>
<td>Copper Nickel Tin</td>
<td>30 Rc</td>
<td>Injection molds</td>
</tr>
<tr>
<td>NEW MOLDMAX® V</td>
<td>Copper Nickel Silicon Chrome</td>
<td>20 Rc</td>
<td>Injection &amp; blow molds</td>
</tr>
</tbody>
</table>

Why Brush Wellman Mold Alloys?

<table>
<thead>
<tr>
<th>A Mold Must be</th>
<th>Brush Wellman Mold Alloys Provide:</th>
<th>Benefit:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transfer heat rapidly</td>
<td>The highest thermal conductivity available</td>
<td>Rapid heat transfer</td>
</tr>
<tr>
<td>Transfer heat uniformly</td>
<td>Uniform cooling</td>
<td>Faster cycle times</td>
</tr>
<tr>
<td>Sustain 100+ cycle life</td>
<td>Excellent hardness, wear resistance, non-gelling</td>
<td>Lower processing costs</td>
</tr>
<tr>
<td>Be easily fabricated</td>
<td>Faster machining rates than tool steels</td>
<td>Higher cycle life with lower maintenance costs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lower mold fabrication costs</td>
</tr>
</tbody>
</table>

For more information, contact us at 888-MoldMAX (888-665-3629) or visit www.MoldMAX.com.

---

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

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# AGENDA
SPE Blow Molding Division - Winter 2008 Board Meeting

Hampton Inn Atlanta-Buckhead
3398 Piedmont Road NE    Atlanta, Georgia 30305
404-233-5656
February 18-19, 2008

<table>
<thead>
<tr>
<th>Date/Activity</th>
<th>Time Allotted</th>
<th>Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>February 18, 2008 (Monday)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Executive Committee – <strong>Chastain</strong></td>
<td>1:30 – 2:30</td>
<td>Jon Meckley</td>
</tr>
<tr>
<td>Room</td>
<td></td>
<td></td>
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<tr>
<td>Education Committee – <strong>Chastain</strong></td>
<td>2:30 – 4:00</td>
<td>Mark Heitker</td>
</tr>
<tr>
<td>Room</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marketing Committee meets – <strong>Piedmont</strong> Room</td>
<td>2:30 – 5:00</td>
<td>Gary Carr</td>
</tr>
<tr>
<td>Dinner/Local SPE Meeting</td>
<td>TBD</td>
<td>Jon Carr</td>
</tr>
<tr>
<td><strong>February 19, 2008 (Tuesday)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TPC Meeting – <strong>Piedmont</strong> Room</td>
<td>8:30 – 12:00</td>
<td>Surendra Agarwal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lew Ferguson</td>
</tr>
<tr>
<td>ABC 2007 – Toledo, OH</td>
<td></td>
<td>Surendra Agarwal/</td>
</tr>
<tr>
<td>o Wrap-Up</td>
<td></td>
<td>Lew Ferguson</td>
</tr>
<tr>
<td>ANTEC 2008</td>
<td></td>
<td>Surendra Agarwal</td>
</tr>
<tr>
<td>ABC 2008 – Bartlesville, OK</td>
<td></td>
<td>Lew Ferguson/John Rathman</td>
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<tr>
<td>o Update</td>
<td></td>
<td></td>
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<tr>
<td>ABC 2009 – Toledo/MSU</td>
<td></td>
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<tr>
<td>ABC 2010 - TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lunch</td>
<td>12:00 – 1:00</td>
<td>Jon Meckley</td>
</tr>
<tr>
<td>Board Meeting Call to Order – <strong>Piedmont</strong> Room</td>
<td>1:00</td>
<td>Jon Meckley</td>
</tr>
<tr>
<td>Welcome New Members/Guests</td>
<td></td>
<td>Jon Meckley</td>
</tr>
<tr>
<td>Non-Compete Reading</td>
<td></td>
<td></td>
</tr>
<tr>
<td>State of the Board</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treasurer/Finance Report</td>
<td></td>
<td>John Rathman</td>
</tr>
<tr>
<td>Treasurers Report</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Budget Review</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Councilor Report / Discussion</td>
<td></td>
<td>Mark Barger</td>
</tr>
<tr>
<td>Open Issues</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nomination Committee</td>
<td></td>
<td>Ron Puvak</td>
</tr>
<tr>
<td>Review of nominations slate for 2008-2009</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education Committee Reports</td>
<td></td>
<td>Mark Heitker</td>
</tr>
<tr>
<td>Student Scholarships</td>
<td></td>
<td>Mark Heitker</td>
</tr>
<tr>
<td>Workplace Scholarships</td>
<td></td>
<td>Mark Heitker</td>
</tr>
<tr>
<td>Design Competition &amp; BM Education support</td>
<td></td>
<td>Bob Fitch</td>
</tr>
<tr>
<td>Awards Sub-Committee</td>
<td></td>
<td>John Headrick/John Rathman</td>
</tr>
<tr>
<td>Marketing Committee Reports</td>
<td></td>
<td>Gary Carr</td>
</tr>
<tr>
<td>Newsletter Sub-Committee</td>
<td></td>
<td>?</td>
</tr>
<tr>
<td>Membership Sub-Committee</td>
<td></td>
<td>Lew Ferguson</td>
</tr>
<tr>
<td>Web Site Sub-Committee</td>
<td></td>
<td>Mridula (Babli) Kapur</td>
</tr>
<tr>
<td>Sponsorship Sub-Committee</td>
<td></td>
<td>Gary Carr</td>
</tr>
<tr>
<td>Old Business</td>
<td></td>
<td>Jon Meckley</td>
</tr>
<tr>
<td>Action items from last meeting - Minutes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Business and Wrap up</td>
<td></td>
<td>Jon Meckley</td>
</tr>
<tr>
<td>Review Action Items</td>
<td></td>
<td>Jon Meckley</td>
</tr>
<tr>
<td>Assign BOD members to Action Items</td>
<td></td>
<td>Jon Meckley</td>
</tr>
<tr>
<td>Adjournment</td>
<td>Before 3:30</td>
<td></td>
</tr>
</tbody>
</table>
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