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THE LARGEST INDUSTRY EVENT
IN THE U.S. THIS YEAR

May 4-8 Milwaukee, WI

MIDWEST AIRLINES CENTER & MILWAUKEE HILTON CITY CENTER HOTEL

Anyone involved with plastics will benefit from attending Plastics Encounter and ANTEC. As the single largest technical conference in the plastics industry worldwide, ANTEC offers forums and sessions for engineers, R&D scientists, technicians, technical sales people, technical support personnel, academicians, and managers in the plastics industry.

Top 5 Reasons To Attend Plastics Encounter and ANTEC:

1. Broaden Your Understanding of the Plastics Industry – Attend sessions exploring the full spectrum of the plastics industry. Plastics Encounter and ANTEC is the place to gain exposure to developments and people from throughout the entire industry.

2. Network – Meet with fascinating, informed and creative colleagues from around the world to share insights from a broad range of disciplines and industries within plastics.

3. Visit With Exhibitors – Walk the Plastics Encounter show floor and talk with representatives from leading companies who offer solutions for your business.

4. Understand the Impact of New Technology – Confer with the plastics industry’s leading experts to see what new technologies and techniques are being developed today.

5. Build New Skills – ANTEC offers seminars, workshops and other forums for people of all levels within the plastics industry. Take advantage of one or more of our special sessions to enhance your skills and increase your knowledge.

Don’t forget to attend the Technical Session -

Blow Molding (D30), on Wednesday, May 9, 2007, Session W2
New Advances in Blow Molding, Moderated by Scott Steele, Plastic Technologies, Inc.

8:30 AM - New Technology To Vary The Radial Thickness Distribution Of The Parison In Extrusion Blow Moulding - Heinz Gross, Gross Kunststoff-Verfahrenstechnik

9:00 AM - Optimization Of A PET Preform Design For Better Bottle Barrier Properties - Dinu Chettiar, Swinburne University of Technology

9:30 AM - New Impact Resistant Polyester Blow Molding Compositions With Excellent Ethanol Fuel Barrier Properties - Donald Ellington, SABIC Innovative Plastics

10:00 AM - Property Verification Of Thermoplastic Elastomer Bottles Produced From Custom Designed Extrusion Blow Molding Molds - Daniel Dempsey, Pennsylvania State University at Erie, The Behrend College
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.
24th Annual Blow Molding Conference 2008

Chevron-Phillips Technical Center
Bartlesville, OK
October 8 & 9, 2008

"ABC 2008: Building Blocks for the Future"

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

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

Program Highlights

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

Speaker to Present...

Market Overviews
- Resin, demands, and opportunities
Sustainability / Bio-Polymers initiatives
End-User perspectives
Trends in machine design
Latest blow molding innovations

Conference Site
Bartlesville Community Center
300 SE Adams Blvd., Bartlesville, OK 74003
(800) 618-2787
www.visitbartlesville.com
www.bartlesvillecommunitycenter.com

Hotel Accomodations
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For additional information:
www.blowmoldingdivision.org
Annual Blow Molding Conference
October 8 - 9, 2008
Chevron-Phillips Technical Center
Bartlesville, OK

The premier forum for the blow molding industry!

Name __________________________ Title __________________________
Company __________________________
Address ______________________________________________________
City __________________ State ______ Zip __________
Tel ______ Fax __________
Email __________________________ SPE Member ID No. (if known) __________

Registration before September 21, 2008
Registration Fee: SPE Member $350.00; Non-member $475.00 (This fee includes a 1 year SPE Membership)
Fee includes all materials, lunch and dinner.

Registration after September 22, 2008 and at the door.
Registration Fee: SPE Member $400.00; Non-member $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 2008, P.O. Box 964, Holland, OH 43528-0964, USA

   OR

2) Corporate Credit Card – Call Scott Steele at 419 867-5403,
   E-mail: ABC2008@pti-e.com

   OR

3) Paypal® (on-line payment service: 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.
Pricing dynamics for blow molding grade Polyethylene are global. Over the past several years, we have become increasingly aware that North American based Polyethylene resin producers have profitably tapped export opportunities when global market dynamics are ripe. Although there are countless factors involved in disciplined global trade practices, this streamlined view focuses on three leading economic basics, the weak US Dollar, global PE supply/demand issues, and comparable feedstock cost structures. These ongoing considerations have contributed to the impressive growth in exported pounds over the recent years and will continue to impact the future of North American supply and demand.

It is no secret that our government’s current economic policy is determined to keep the US Dollar low as compared to the currency of our trading partners. Our leaders are of the opinion that if we keep the Dollar low, not only can we hedge off inflation and recession, but our goods will remain attractive to other nations and thus keep our domestic factories working. Although economic policy is an extremely in-depth consideration, not to mention highly debatable, the bottom line is two-fold. First, since oil is traded in US Dollars, each time the dollar has devalued the cost for oil has increased. No one is insulated from the effects of higher oil prices. We see higher resin/commodity costs, not to mention the impact to our personal expenses, i.e. gasoline, heat, travel costs, etc. Second, the lower US Dollar makes exporting commodities including PE from US production assets more attractive to our trade partners as foreign currencies strengthen. Below is a graph detailing the value change in the US Dollar vs. the Euro over the past 5 years.

Unplanned plant outages abroad and announced plant closures by resin producers coupled with growing global demand for blow molding grade Polyethylene have, in spite of a weaker US economy, caused there to be a true need for North American produced pounds overseas. Latin American, European, and Asian demand for throughput continued on next page
requirements has, in many cycles, exceeded the supply capacity of production assets within their regions. This supply/demand imbalance has created an environment in which ongoing global capacity limitations require supplements to meet actual end-use item order fulfillment. Polyethylene production outages, unexpected or planned maintenance shut-ins play a vital role in securing balanced market dynamics. Not until the new Polyethylene production assets commence true output, will there be any change to the current formula of tight global supply and high demand. It will be interesting to see what happens to the North American marketplace when these new overseas facilities can finally support the off-shore demand currently fulfilled by North American Polyethylene production.

Polyethylene feedstock costs vary. Variables include organizational vertical integration, transportation costs, refining yields, competitive markets for derivatives, etc. These factors have been constants in an ever changing business environment. Blow molding grade Polyethylene is produced, albeit at different economics, from natural resources, i.e. oil or natural gas. Below is a chemical flow chart listing all the products/markets that derive their existence from oil and/or natural gas. A defining factor that must be understood is the fact that the majority of Polyethylene produced in North America can be traced back to natural gas whereas abroad, the feedstock has been mostly oil. Historically, it has been more cost effective to manufacture Polyethylene from natural gas than oil, yielding benefits to North American manufacturing locations. Oil is a global commodity, while natural gas is continent specific (however LNG is poised to become a globally traded commodity in the near future). Many Polyethylene buyers painfully remember the “surcharges” imposed by North American resin producers in 2003 when the price of natural gas skyrocketed due to heightened demand for other derivatives and the challenges of refiners to meet total demand. The recent escalation in oil prices has significantly raised the production costs to manufacture Polyethylene abroad, much more so than the change in natural gas prices have affected North American Polyethylene costs. This dynamic has contributed to the rise in domestic PE prices which have, as of recent periods, fluctuated more closely to the oil price vs. actual natural gas feedstock costs.
How often do you get a chance to work with a new company that happens to have a 75-year record of technological and application success?

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For a .pdf download of this chart, go to the Blow Molding Division web site.
The perfect solution for those looking to increase PP ISBM or thermoforming throughput, with reduced energy costs and optimum product aesthetics.

Enhanced processing characteristics widen the range of packaging opportunities, and ensure reliable production of highly complex bottle and tray designs.

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- Broadened processing window
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- Allows the use of thicker wall sections
- Maintains optimum product aesthetics
- Patent protected

For more information please contact:
Marla Farnos  Manager, Technology Licensing  T: +1 302 683 3068  E: loly.farnos@invista.com
Mike Gardner  Research Scientist  T: +44 164 257 2229  E: michael.w.gardner@invista.com
SPE Blow Molding in Toledo, OH

Blow molding is a process used to produce a wide variety of hollow plastic products used in the high growth packaging markets including food, beverage, consumer, pharmaceutical, and medical markets. Several Penn College plastics graduates are sought and recruited each year by many of the companies attending the conference this year. Attending students received an outstanding plastics education benefit along with excellent career networking opportunities.

Pennsylvania College of Technology offers a two-year Associate of Applied Science in Plastics & Polymer Technology (PS) degree and a four-year Bachelor of Science in Plastics & Polymer Engineering Technology (BPS) degree.

The Society of Plastics Engineers Annual Blow Molding Conference was held October 2008 in Toledo, OH. Four seniors (Chris Kann, Jeremy Miller, Jeff Bobkosi), and student SPE chapter president Mike Willoughby) in the Plastics & Polymer Technology program of Pennsylvania College of Technology and John Bartolomucci of the plastics faculty were invited guests to the three-day event.

In addition to Penn College students, approximately 15 students attended from the plastics programs at Penn State Behrend, University of Massachusetts (Lowell), Ferris State University, and the University of Akron. This was the first annual Blow Molding Conference attendance for Penn College students who took part in several industry technical presentations and displayed and manned a tabletop exhibit of the Penn College plastics education program during exhibit hours.

If you would like to learn more about Penn College’s Plastics & Polymer Technology program, please call the Office of Admissions (570) 327-4761 or 1-800-367-9222, or the School of Industrial & Engineering Technologies at (570) 3267-4520.
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.
Annual
Blow Molding Conference
October 8-9, 2008
Bartlesville, OK

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 in this issue.
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Quiz!
What do you really know about plastics?

Our Landfills: What Percentage Are Plastics?
1. 9.5% - Correct
2. 18%
3. 38%
4. 50%
5. 84%

What percent of U.S. land area is currently landfill space?
1. .00048% - Correct
2. 1%
3. 1.2%
4. 3%
5. 5%

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 ESL bottlemaking needs. From resin to dairy case, we can help you create packaging with consumer appeal and product protection. Graham also supplies a full line of industrial accumulator head machines to meet your automotive and industrial molding requirements.

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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.
In what time frame will compostable corn-based polymer food containers biodegrade outside, on the ground?

1. 1 Day
2. 1 Week
3. 1 Month
4. 8 Months
5. 1 Year - Correct

How long does it take for biodegradable material to biodegrade in a landfill?

1. 6 Months
2. 1 Year
3. 5 Years
4. 15 Years
5. Never - Correct
How much plastic does the US create each year?
1. 1,000,000 lbs/yr
2. 100,000,000 lbs/yr
3. 250,000,000 lbs/yr
4. 500,000,000 lbs/yr
Correct: 100,000,000,000 lbs/yr

If we switch away from all plastics food packaging we could save what percent of our annual fossil fuels?
1. 67%
2. 53%
3. 8%
4. 6%
5. 3% - Correct
How did you do?

Plastic Grocery Bags Cannot Be Recycled

1. True
2. False - Correct

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UMM: reciprocating screw blow molding technology – APPLICATIONS: dairy, food, beverage, consumer packaging

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- **IMPROVED PART QUALITY**

MoldMAX® Family of mold & tooling alloys:

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<thead>
<tr>
<th>Product Name</th>
<th>Alloy</th>
<th>Hardness</th>
<th>Typical Applications</th>
</tr>
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<tbody>
<tr>
<td>MoldMAX® HD</td>
<td>Copper Beryllium</td>
<td>60 HRC</td>
<td>Injection &amp; blow molds</td>
</tr>
<tr>
<td>MoldMAX® LH</td>
<td>Copper Beryllium</td>
<td>50 HRC</td>
<td>Injection &amp; blow molds</td>
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<tr>
<td>MoldMAX® SC</td>
<td>Copper Beryllium</td>
<td>50 HRC</td>
<td>Injection &amp; blow molds, hot runner systems</td>
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<tr>
<td>MoldMAX® XL</td>
<td>Copper Nickel Tin</td>
<td>30 HRC</td>
<td>Injection molds</td>
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<tr>
<td>NEW MoldMAX® V</td>
<td>Copper Nickel Silicon Chrome</td>
<td>28 HRC</td>
<td>Injection &amp; blow molds</td>
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Why Brush Wellman Mold Alloys?

<table>
<thead>
<tr>
<th>Benefit</th>
<th>Mold Max</th>
<th>Brush Wellman Mold Alloys Provides:</th>
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<tbody>
<tr>
<td>Rapid heat transfer</td>
<td>Transfer Heat Rapidly</td>
<td>Uniform cooling</td>
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<tr>
<td>Faster cycle times</td>
<td>Transfer Heat Uniformly</td>
<td>Dimensionally correct parts</td>
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<tr>
<td>Lower processing costs</td>
<td>Sustain 150+ cycle life</td>
<td>Minimized average</td>
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<tr>
<td>Lowered scrap rates</td>
<td>Be easily fabricated</td>
<td>Reduced scrap rates</td>
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<tr>
<td>Higher cycle life with lower maintenance costs</td>
<td>Faster machining rates than tool steels</td>
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<tr>
<td>Lower mold fabrication costs</td>
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Board of Directors

PAST CHAIRPERSON
Ron Puvak
Plastic Technologies Inc.
1440 Timberwolf Drive
Holland, OH 43528
Ph: 419-725-5613 Cell: 419-708-1486
E-mail: rpuvak@plastictechnologies.com

CHAIRPERSON
Jonathan A. Meckley
Penn State Erie
5091 Station Road
Erie, PA 16563
Ph: 814-888-6147 Fx: 814-898-6006
E-mail: jmeckley@psu.edu

CHAIRPERSON – ELECT
Scott Steele
Plastic Technology Inc.
1440 Timberwolf Drive
PO Box 964
Holland, OH 43528-0964
Ph: (419) 867-5403 Fx: (419) 867-7700
E-mail: s.steele@plastictechnologies.com

SECRETARY
Benjamin Lopez
Bekum America Corporation
1140 West Grand River P.O. Box 567
Williamston, MI 48895-0567
Ph: 517-655-7144 FX: 517-655-4121
Cell: 517-544-9541
E-mail: blopez@bekumamerica.com

TREASURER
John Rathman
Chevron Phillips Chemical Company
155 Plastics Technical Center
Highways 60 & 123
Bartlesville, OK 74004
Ph: 918/661-3431 Fx: 918/662-2220
E-mail: rathmgr@cpchem.com

TECHNICAL PROGRAM CHAIRPERSON
Surendra Agarwal
KRAFT FOODS
Technology Center
801 Waukegan Road
Glenview, IL 60022
Ph: (847) 646-3598 FX: (847) 646-3398
E-mail: sagarwal@kraft.com

EDUCATION CHAIRPERSON
Mark Heitker
INEOS Technical Center
1230 Battleground Road
LaPorte, TX 77571
E-mail: mark.heitker@ineos.com

COUNCILOR
Mark Barger
Dow Chemical Co. Inc.
200 Larkin Center
1605 Joseph Drive
Midland, MI 48674
Ph: 989-636-1263 FX: 969-636-0194
E-mail: markbarger@dow.com

AWARDS CHAIRPERSON
John Headrick
NAMPAC
4101 Lake Boone, Suite 201
Raleigh, NC 27607
Ph: (919) 791-2400 Fx: (919) 791-2390
E-mail: john.headrick@nampac.com

MARKETING
Gary Carr
Bekum America Corp.
1140 W Grand River
Williamston, MI 48895-0054
Ph: 517-655-7135 FX: 517-655-4121
E-mail: gcarr@bekumamerica.com

Robert Fitch
ExxonMobil Chemical
37567 Interchange Drive
Farmington Hills, MI 48335
Ph: 248 350 6512 FX: 248 442 2808
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Win Burrington
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Terry Glass
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MEMBERSHIP
Lewis Ferguson
Parisons
9900 Sunset Drive
Stone Harbor, NJ 08247
Ph: 609-368-7230 FX: 609-368-7229
E-mail: parisons@aol.com

WEB SITE CHAIRPERSON
Mridula (Babli) Kapur
Dow Chemical Co.
Base Plastics R&D
2310 N. Brazosport Blvd, B-1470-D
Freeport, TX 77541-3257
Ph: 979/238-5614 Cell: 979-709-1735
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Geoff Ward  
Agri Industrial Plastics  
301 N. 22nd Street  
Fairfield, IA  52556  
E-mail: geoff.ward@agriindustrialplastics.com

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Jeffrey S. Light  
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Ph: (603) 893-4366  
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Robert Slawska  
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Hillsborough, NJ 08844  
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Gary Henneberry  
Polyone  
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Ph: 609/351-9369  FX: 609/499-6369  
E-mail: gary.henneberry@polyone.com

Robert Delong  
Blasformen Consulting  
4914 Maple Terrace  
Kingwood, TX 77345  
Ph: 281/360-5333  
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Karl H. Bruning  
KB InterTec, LLC  
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Ph: 517/381-2343  FX: 517/381-2343  
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Craig Hasselberger  
Progressive Components  
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Ph: 847/331-0092  FX: 847/277-9725  
E-mail: craig.hasselberger@procomps.com

Jack McGarry  
MBK/Blow Molding Machinery, LLC  
6 Towpath Way  
New Hope, PA 18938  
E-mail: beige2@aol.com

Roger Rhoads  
Basell  
6160 Brownstone Ct.  
Mentor, OH 44060  
Ph: 404/209-8901  Cell: 404/478-0471  
E-mail: elmar.spoehr@mullerheads.com