



SOCIETY OF PLASTICS ENGINEERS

BLOW MOLDING DIVISION

Volume 2012 Edition 2

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Society of Plastics Engineers Blow Molding Division

PITTSBURGH



ABC 2012



October 9-10, 2012
Pittsburgh, Pennsylvania

The Pittsburgh Sheraton Station Square will be the site of the 28th Annual Blow Molding Conference featuring technical presentations in packaging, medical and industrial applications covering such topics as technological innovations, materials, advancements in design, safety and sustainability.

You don't want to miss this event dedicated solely to the blow molding industry where you can expect to:

- Discover the techniques and applications that will impact your bottom line and allow you to benchmark your operations.
- Learn about the latest advancements and innovations from industry experts.
- Attend Mini-Sessions featuring comprehensive instruction in technology, troubleshooting and methodologies.
- Participate in this unparalleled networking platform with leading manufacturers, industry peers, prospective customers and colleagues.

For more ABC 2012 information, see flyer on page 6-7



Exhibit Opportunities are available!

Highlight your company's profile at the conference and support the SPE Blow Molding Division. Your sponsorship dollars provide educational grants to students, help recruit new members to the Division and support the Annual Blow Molding Conference.

For Sponsor levels and registration, see pages 12-13

Be part of the New Commercial Blow Molded Parts Display ABC 2012!

Attendees will have an opportunity to network and be an interactive part of the knowledge base at a special exhibit featuring new commercial blow molded parts. Each registered attendee, speaker or sponsor may display one Blow Molded part.

See registration form on page 15



*Become
a member*
*Join the
SPE
Blow Molding
Division*

Chairperson's Message



Dear SPE Members, Associates and Friends,

I would like to thank everyone for their participation and support during our ANTEC activities during the NPE this year.

Our division was awarded the Pinnacle (Gold) and the Communications Excellence (Leadership) Awards. I

am very proud of our board's teamwork and dedication which enabled us to fulfill the requirements for these awards and for the SPE National recognition. Our division also sponsored the student luncheon which was very well attended. Students from many different countries were involved and were granted awards for their achievements.

I hope the NPE was a successful venture for all and everyone got to enjoy the Orlando area with all its attractions. The weather was specially ordered!

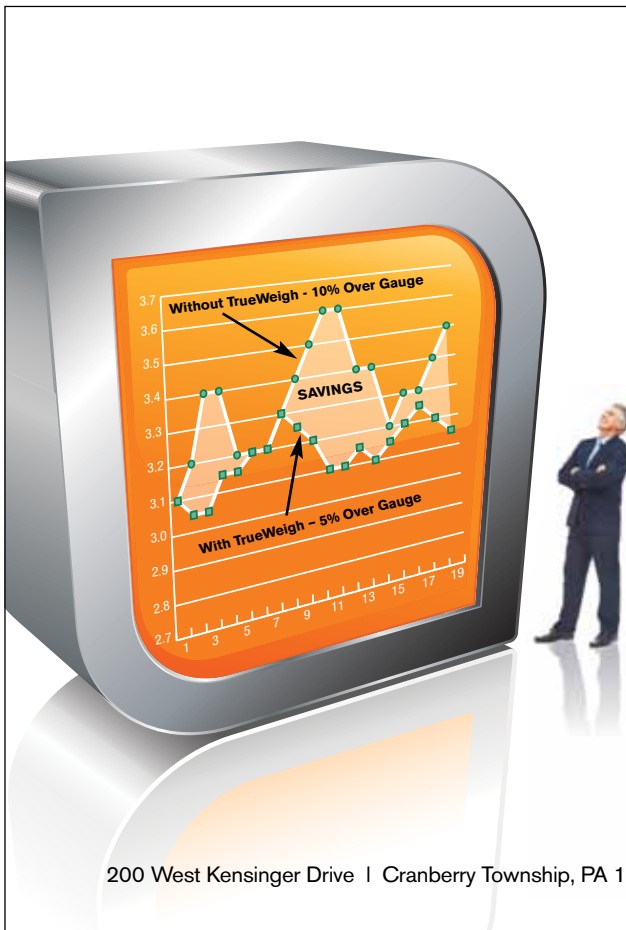
I would like to thank our former SPE President Russell Broome for his contributions to the SPE during his term and welcome Jim Griffing who took over this position in April. We are looking forward to continue the good and successful cooperation. Would encourage everyone to review the SPE President's Video Message at: <http://www.4spe.org>

This year, our Annual Blow Molding Conference (ABC) will be held in Pittsburgh, Pennsylvania from October 9 – 10th. The attendance and sponsorships have a great outlook. You will



find a preliminary program in this newsletter, as well as our formal Board Meeting Minutes and Planning Notes. Our board members are in the process to outline many topics for an interesting Annual Blow Molding Conference. These events will encompass the latest technologies, processes, resins and trends around the plastics industry, including a "Career in Blow Molding" presentation / panel discussion during the last session at ANTEC. We invite you to attend our presentations, participate in our 101s and to support us with our call for papers and sponsorships for upcoming conferences and newsletters.

[Continued on next page](#)



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Students and entry level participants are very welcome to these conferences to get an inside look at the blowmolding technologies, educational opportunities and industry contacts. Blow molding is a unique process offering any challenges and future opportunities with high technology requirements. Blow molded products are and will remain a part of everyday life in packaging, automotive, medical and industrial applications. We invite you to join these events and would be pleased to see many of you joining the blow molding community in the future and contribute with your ideas for new developments to our future success.

We appreciate the industry support to further educate and promote blow molding. In order to enhance the technical context to the SPE Blow Molding Division Newsletter we would welcome technical reviews that can be shared with our blow molding community and we also invite convertors to participate in the SPE blow molded article display at our Annual Blow Molding Conference.

Your active and or financial assistance to successfully continue the SPE activities is very welcome. Equally important is your input on the conference and recommendations for future events.

As in the last years, we would like send our Plastics Van to the local schools within the ABC area that offers experiments and hands on education on plastics to students of all ages. We are very lucky to have an excellent teacher who makes these education sessions a fascinating event for the young participants. Unfortunately, we are still missing a local sponsor to be able to offer this program in the greater Pittsburgh area. Interested sponsors can contact any board member (contact information on the last page of this newsletter).

We would be glad to meet all of you during the ABC in October!

With Best Regards,
Benjamin Lopez
SPE Blow Molding Division Chairman

Our SPE D30 Division Goals for 2012:

- Research and structure education opportunities for the blow molding industry
- Promote these education opportunities to our industry and students
- Support these education programs technically and financially
- Organize a ANTEC technical conference including an interactive careers session
- Organize a ABC conference with presentations on the latest technology and trends, coupled with training sessions
- Find ways to promote, increase and retain membership
 - See link <http://www.4spe.org/membership-rewards>
 - SPE National promotion at our ABC
- Gain industry interest to participate and support our program through call for papers, technical support and sponsorship
- Update our Policy Manual with responsibilities (form a temporary review committee)
- Make our financial planning format on QuickBooks
- Gather ideas for the 2020 SPE Adapt Program

Elementary School Students Turn Bottles into Art

What do fourth grade art classes and the SPE Blow Molding Division have in common? Both share an interest in re-cycling and re-purposing plastics—PET bottles to be more specific.

Joseph Zagula, an art teacher at Hamlin Elementary in Rochester Hills, Michigan was looking for a project for his 4th graders. Inspired by the blown glass works of artist Dale Chinuly (see photo, right), he realized that he could achieve a similar effect by using the ready supply of water bottles the school collected as part of their recycling effort. Several weeks and over 200



PET bottles later, his class proudly displayed their efforts. Two hanging sculptures, one representing “warm” colors; the other “cool” will be hung in the elementary school just in time for the Spring Open House.

I was honored to be invited to Hamlin Elementary to meet Mr. Zagula and the 60 students who worked on this project. He explained to me how the students painted the bottles, then cut and fashioned them into the shapes for the art project.



As coordinator for the Annual Blow Molding Conference, I felt obligated to provide a mini Plastics 101 so that the students understood how the bottles (the main material for their project) were



manufactured. After my brief presentation, I was delighted to see their enthusiasm for the process. Soon the terms “resin” and “parisons” were flying around the room as I tried to field their questions about everything from landfills to BPA. Perhaps there are some future blow molders in the making.

I asked Mr. Zagula what he was considering for his next project. He pointed to a box filled with plastic bottle caps all sizes and colors. “We’re going to make a mural out of these” he replied. Hmm...maybe I’ll come back and talk to them about injection molding!

Future Blow Molders?



Mrs. Mroczek's 4th Grade Class



Mrs. McDonald's 4th Grade Class



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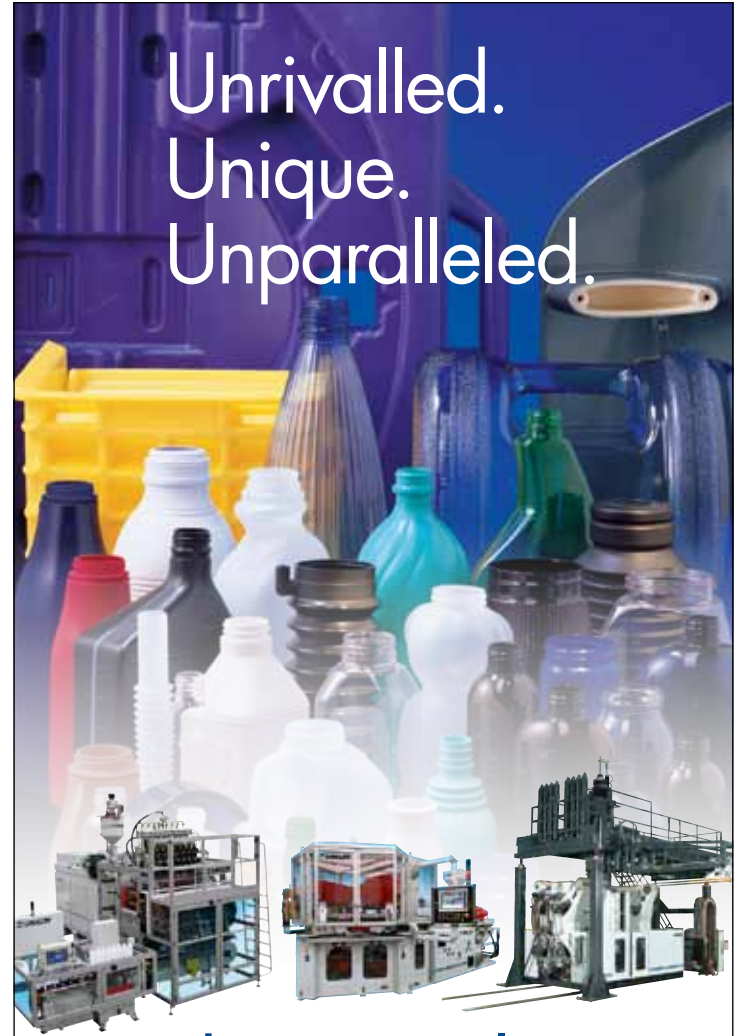
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Society of Plastics Engineers Blow Molding Division

PITTSBURGH



28th Annual ABC 2012 Blow Molding Conference

October 9th & 10th, 2012

Sheraton Station Square, Pittsburgh, Pennsylvania



The Pittsburgh Sheraton Station Square will be the site for the 2012 Annual Blow Molding Conference. The conference will feature industry speakers presenting segments in packaging, medical and industrial applications. From resin developments to machinery innovations to automation, design and safety, no topic will be missed. Attendees of past ABC conferences have expressed their enthusiasm regarding the breadth and depth of information they were exposed to during this event.

Why Pittsburgh?

- Easy access
- Beautiful exciting downtown location on three majestic rivers
- Cost effective relative to other big cities
- State-of-the-art airport with non-stop service to hundreds of cities across the U.S.
- Many plastics related businesses and manufacturing sites within driving distance from Pittsburgh
- Excellent weather in Fall
- Lots of entertainment options
- 30 Million residents within 400 miles
- Less than 4 hour drive from major population centers

Local Companies

- | | | | | |
|------------------------|--------------------|-----------|---------------------------------|------------------|
| • Bayer | • Heinz | • Cannon | • MSA | • Nova Chemicals |
| • Medrad | • Austins Products | • Valspar | • SAE Headquarters | |
| • Phillips-Respironics | • Conair | • PPG | • Penn State University Behrend | |

SPONSORSHIP AND EXHIBIT OPPORTUNITIES



Highlight your company's profile at the conference and support the SPE Blow Molding Division. Your sponsorship dollars provide educational grants to students, help recruit new members to the Division and support the Annual Blow Molding Conference — an unparalleled networking platform for current and prospective blow molding professionals.

EXPANSION OF OUR "PLASTICS 101'S" MINI-SESSIONS

These comprehensive mini-sessions featured instruction focusing on the technology, processes, troubleshooting and methodologies of blow molding. Led by industry experts, these sessions will provide invaluable tips, suggestions and solutions for such areas as:

- Continuous Extrusion
- Accumulator Head
- Extrusion Blow Molding
- IBM
- Medical Device Prototyping
- Medical device design and development
- Stretch Blow (reheat)
- Polyolefins and PET 101's
- Design for Blow Molding
- Co-Extrusion and Engineered Polymers

TRANSPORTATION

The Sheraton Station Square Hotel is located 30 minutes from Pittsburgh International Airport (PIT)

SPEAKER OPPORTUNITIES



If you are interested in presenting a topic at this year's conference, please click [here](#) for a Speaker Abstract Form. You can review the Speaker Guidelines and Presentation Requirements [here](#).

AWARDS



The SPE Blow Molding Division's annual awards will be presented at dinner, which will recognize student scholarships and student design winners. A special segment of the evening will be dedicated to the Division's Lifetime Achievement Award.

CONFERENCE VENUE

*Sheraton Station Square Hotel
300 W Station Square Dr
Pittsburgh, Pennsylvania 15219*

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ABC 2012 Sponsor Highlights

Bekum America Corporation recently shipped a state-of-the-art, fully automatic H-121S Extrusion Blow Molding Machine to Ferris State University. This machine, which is the fourth blow molding machine placed by Bekum at Ferris in recent years, provides Plastics Engineering Technology students with hands-on learning experiences, operating the same equipment used in the plastics industry. The Ferris State Plastics program is the largest and most respected undergraduate Plastics program in the United States, and its National Elastomer Center for Plastics and Rubber Technology is nationally recognized. Bekum, the world's leading manufacturer of extrusion blow molding machinery, has long been a supporter of plastics education, displaying a particularly strong interest in universities such as Ferris. The bond between Bekum and Ferris is so strong that not only has Bekum provided blow molding machines and technical advice to Ferris, but it also has successfully employed a large number of Ferris graduates over the years. In 2004, as recognition for its outstanding



efforts to the University, Bekum America was honored by Ferris, when it presented Bekum with the Phoenix Society award **“for vision and foresight and thoughtful consideration. For support and strength and constant dedication.”** Mr. Martin Stark, Bekum America's Chairman, was also recognized and appreciated for his **“dedication to shaping future leaders of the Plastics Industry.”**

Graham Engineering Corporation (GEC), the York, PA, USA-based manufacturer of extrusion blow molding equipment, has expanded the portfolio of the legendary GEC wheel, and the recently developed MINI Wheel, to include their latest high speed rotary wheel offering, which was introduced at NPE 2012; the “G Series.” The new “G Series” wheels add both flexibility and higher speed capabilities to the GEC rotary wheel product lines. A key feature of this design is greater flexibility – by changing out a few parts, processors can add or reduce clamp stations; thus cavitation or mold sizes are adjustable if the product mix changes over time. This flexibility helps processors “protect their investment”; if the product size changes over time, the wheel can be more easily modified to keep an optimum production profile. Like all GEC wheels, the “G-Series” can efficiently produce either monolayer or multilayer containers. The High-Speed or HS version of the “G Series” is designed to run at an industry-leading 10+ revolutions per minute. Graham Engineering has benefitted from over 50 years of stable, family-owned operation. Its core business is the manufacture and sale of high-speed plastics processing machinery, primarily for the packaging industry.



ABC 2012 Sponsor Highlights

FGH SYSTEMS INC, since 1976, provides complete blow mold design and manufacturing with sampling, development, and prototyping on eight (8) extrusion blow lab machines for **Lab machine**



UMS 4.ES

machine for sampling. Our machine representation has expanded with extrusion blow molding machines from Uniloy, Italy to compliment the B&W Uniloy shuttle machines from Germany.

containers up to 2 1/2 gallons and COEX multi-layer. From initial design, unit mold, and sampling to production molds and new extrusion blow machines, FGH can offer the complete turn key package with speed, technology, and know-how. In the last 2 years, FGH has invested in new high-speed CNC machines and equipment for mold manufacturing and a state-of-the-art all electric blow molding



NEW

RAO Design International, located in Schiller Park, IL was established in the 1960's and has been making a large amount of Blow molds and Injections Molds. They regularly produce blow molds in two weeks for a variety of products from beverages, to medical devices, cosmetics, automotive parts, blow fill seal applications, household items and many other blow moldable items. RAO Design offers rapid prototyping for any type of bottle, container or medical device. They machine blow molds in aluminum, bronze or aluminum 7075 or Beryllium copper using high speed CNC and CAD-CAM systems. Most of the blow molds are made in TWO WEEKS and sampled on their in house blow molding machines. They have 18 blow molding machines on their floor under power.



W Müller extrusion head retrofits for multilayer processing, view stripe and gradation capability are supplied complete with extruders for the additional layers. If applications require additional extruders, W. Müller offers the Müller Extrusion Retrofit Control (MERC) system. For easy understanding, the MERC system uses 3D illustrations to



display the extruder drives, the head and extruder heating zones and the hopper shutoffs. The system also has a recipe and user management and up to 15 channels for parison programming purposes. In addition it also includes a simulation of head and extruder

disassembly steps for maintenance procedures. The MERC system operates independently and communicates via defined interface with the blow molding machine control system. For two-layer DeCo or view stripe applications that include only one additional extruder, W. Müller offers the mini-MERC system providing all required extruder functions. The mini-MERC is easy to understand and to operate and is equipped with a 5.7" touch screen display.

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SPONSORSHIP REGISTRATION FORM

Sponsorship (please indicate level)

___Diamond Sponsor - \$2,500 ___Platinum Sponsor - \$1,500 ___Gold Sponsor - \$400

Please print company information exactly as it should appear in all publications

Company Name _____

Contact Name _____

Contact Title _____

Address _____

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Phone _____ Fax _____

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Please provide the appropriate contact person to coordinate invoicing and all other details for your company's participation:

Name _____

Title _____

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Electricity required: ___yes ___no (if yes, a maximum of one duplex or 2 sockets will be provided)

Method of Payment:

___ **Check enclosed** (payable to SPE Blow Molding Division), send to:

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Name on card _____ Exp. _____

Vcode (3-digit code on back of card; for AMX, 4-digit code on front of card) _____

Please complete form with payment info. and email to Deirdre Turner, Conference Coordinator at dcturner@earthlink.net. A paid receipt will be sent once payment has been processed. Questions? Contact Deirdre Turner at (248) 505-5136 or by email.

www.blowmoldingdivision.org



28th Annual Blow Molding Conference
 October 9-10, 2012
 Sheraton Station Square, Pittsburgh, Pennsylvania

Sponsorship Opportunities

	Diamond Sponsor	Platinum Sponsor	Gold Sponsor
Sponsorship opportunities	\$2,500	\$1,500	\$400
Recognition as Conference presenting sponsor, with prominent signage at event	✓		
Sponsorship recognized at all Blow Molding Division activities.	✓	✓	✓
Marketing benefits			
3 Division electronic format newsletter ads. Newsletter is placed on division's website (www.blowmoldingdivision.org)	One-half page (8 1/2" x 5 1/2")	One half-page (8 1/2" x 5 1/2")	Business card sized advertisement (2" x 4")
Ad posted on Blow Molding Division website with <i>hotlink</i> to your company's website	✓	✓	✓
Conference benefits			
One tabletop exhibit space in ABC 2012 Conference Exhibits (\$600 value)	✓	✓	
One hospitality sponsorship at ABC 2012 with corporate recognition (\$1200 value)	✓		
Two complimentary registrations (\$1190 value) to ABC 2012.	✓		
One complimentary registration (\$595 value) to ABC 2012.		✓	

ABC 2012 Sponsor Highlights

M.C. Molds, Inc. was established in 1984 designing and building Extrusion Blow Molds and related tooling for the Plastic Blow Molding Industry. We pride ourselves on our years of experience, customer's satisfaction, along with the craftsmanship of our loyal employees. Our equipment is the latest technology that is offered in the industry allowing us to build the highest quality tool in the market place. We not only build new tooling, we're also known for outstanding work done in existing mold rework and re-furbishing tools. M.C. Molds also builds the DST 2000 Spin Trimmer, a superior dome removal system with the ability to adjust for many different bottle configurations and a variety of resins. Our sister company, JBJ Products and Machinery Company, specializes in the design and build of custom trimmers and deflash machines for all unique applications. MC Molds' strengths are: outstanding mold design incorporating superior cooling and the ability to control the cooling, zone by zone, the ability to build for many machine platforms, using only the top grades of Aluminum, BeCu and Stainless, years of experience in design and building of Blow Molds and flexibility for necessary customer changes. *Quality and Customer Service* is the commitment of M.C. Molds to each of our customers.



BARR Inc. of Virginia Beach, VA, has opened a new office in Onsted, Michigan. The new facility will have 2500 sq ft dedicated to material testing and product development. This facility will be the new center for research and development in order to continue to bring innovations to the plastics processing industry. BARR Inc., established in 1976, is well known for its ET® and VBET® feed screw designs. The “Energy Transfer Technology” products have set the standards for High Performance, Energy Efficient feed screws for blow molding, extrusion and injection molding markets. They continue to be a leader in this industry.



ALPS is proud to introduce the new Speed-Glider container leak tester, a multiple-station, continuous-motion linear leak tester intended for inspection speeds up to 250 to 300 CPM (15,000 to 18,000 CPH). Hole size sensitivity is

comparable to an 8-station rotary leak tester, at less than 2/3 the cost. Positive container handling and control is accomplished through the use of a precision timing screw for each container type. The advantages of timing screw handling include: ability to easily mount and test over the customer's existing tabletop conveyor, minimized jams and false rejects—no sensors necessary to center the probes onto the bottles, and prevention of untested containers from passing through due to sensor errors or fallen bottles.





28th Annual Blow Molding Conference
and Exhibits

October 9th-10th, 2012

Sheraton Station Square Hotel
300 West Station Square, Pittsburgh, PA 15219

ATTENDEE BLOW MOLDED PARTS DISPLAY REGISTRATION FORM

ABC is providing another opportunity for attendees to network and be an interactive part of the knowledge base at a higher level. A display area (separate from the Conference Sponsorship Exhibition Area) will be established to exhibit new commercial blow molded parts. Each registered attendee, speaker or sponsor may display one Blow Molded part.

The **Attendee Parts** display area will include several six foot tables with linens.

- The Blow Molded part must be new to the market within the last two years.
- Parts must be able to fit on display table. If you wish to display a part large than 48 inches, please contact Lew Ferguson, Division Board Member at parisons@aol.com to discuss display of larger parts.
- Mold makers may display a picture [up to 8X10] of the mold with the part.
- No business cards, marketing materials, laptop presentations, etc. may accompany the part in the Attendee Parts Display area. No sales or marketing activities in this area will be permitted in this area. The displays are intended to be an exhibit to encourage discussions and technology exchange. Conference Sponsorship is available where you can promote your company and product directly in the Sponsor Exhibit Hall. (click here for more details: www.blowmoldingdivision.org)

An 8X10 sign will be provided by the Conference Coordinator based on the information provided below including a description of the part and such details as the molder/converter, toolmaker, material supplier, resin type, etc. Provide only the information you want on the sign. The sign will be displayed on the table next to the part.

Name of Part: _____

Category: (i.e. Industrial, Automotive, etc.): _____

Manufacturer / Blow Molder: _____

Mold Maker / Toolmaker: _____

Material Supplier / Resin Type: _____

Designer / Other Contributors: _____

Features: [up to 25 words describing part features and unique attributes]: _____

Participant Information

Please provide the appropriate contact person to coordinate invoicing and all other details for your company's participation:

Name _____ Title _____ Company _____

Phone _____ Fax _____ Email _____

RELEASE OF LIABILITY

The undersigned agrees and does hereby release from liability and to indemnify and hold harmless the Society of Plastics Engineers Blow Molding Division, Directors, volunteers, employees or agents representing or related to The Society in part or whole. This release is for any and all liability for property losses and/or damage occasioned by, or in connection with any activity or accommodations for this event. The undersigned further agrees to abide by all the rules and regulations promulgated by the SPE Blow Molding Division and/or its affiliate groups or vendors throughout this conference.

Name of Participant: _____ Company: _____ Date: _____

Signature: _____ Do you want the part returned? Yes ___ No ___

Please complete form and Email as an attachment to Deirdre Turner, Conference Coordinator, at dcturner@earthlink.net.

Questions? Contact Deirdre Turner at (248) 505-5136 or by email

ABC 2012 Sponsor Highlights

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copolyester



R&D/Leverage wants to give some “CPR” to the injection blow molding process. CPR stands for “consistent process research.” The mold-making and product development firm has six patents covering the technology. Major innovations create thermal separation and isolation between the mold cavity and key components like the neck inserts and the manifold nozzle. R&D/ Leverage also significantly reduced the number of water lines. “This technology has certainly been exciting to work on,” said Bruce Wardlow, product development director at R&D. R&D/Leverage sets itself apart by tying



in product design — Leverage Integrated Design — with its mold-making expertise. Leverage’s creative director, Corwyn Strout, said consumers today — especially young people — are looking at the environmental impact of products. These consumers use social media. “They’re not just looking at these products, but what they stand for,” he said. R&D is known for its bottle preform molds. “We’re the largest tool shop in America that serves the rigid packaging industry,” said

Mike Stiles, national account manager. But about 10 years ago, officials decided to expand into molds for other markets, such as health care, and home and personal care. R&D also makes tooling for the CD/DVD market. Those markets require precision machining to very close tolerances, which R&D already had in place with the packaging molds.

Eurotherm is offering wireless MACO communication a cost effective, proven, package for MACO Compact controlled equipment that permits data and files to be accessed and transferred in a secure fashion from a remote site. It utilizes a local PC running an application that permits access to the control system HMI via Ethernet communications. Applications on the local PC permit utilization of a FTP server on the MACO Compact for file transfers and the ability to take charge of the local HMI. This PC may also be utilized for backing up recipes, SPC data, data logging. The local PC is accessible and permits the operator at that level, with the same access as the local personnel viewing the MACO Compact HMI. This is intended to be only enabled as required to resolve issues. Provisions in the control permit enabling levels of remote access. This capability is packaged with a secure remote access software package that permits when enabled globally.





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You can access
past proceedings of
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<http://www.4spe.org/pfn>
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password: plastics

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U

niloy is proud to announce the opening of their comprehensive education/R&D facilities early in the 4th Quarter 2012. Located within Uniloy North America's headquarters in Tecumseh, Michigan, this new blow molding center of excellence will include a state-of-the-art R&D lab, fully equipped classrooms, as well as hands-on space featuring two Uniloy intermittent extrusion reciprocating screw machines. According to Dave Skala, Uniloy VP and General Manager, "Our concept is very similar to that of a traditional University – with a balance of education and research to advance the industry. We've offered operator training for decades, but Uniloy University takes this commitment to a whole new level." Training classes will cover both basic and advanced operator offerings. The new facility also offers the potential for custom classes to meet the specific demands of Uniloy clients. This new resource expands Uniloy's commitment to the offering the most comprehensive suite of products and services in the industry." Uniloy University is just one example of Uniloy's longstanding commitment to innovation. Uniloy originated the lightweight, handled, plastic milk jug in 1963, and its reciprocating blow molding machine has since become the "industry standard," with more than 3,800 in use worldwide. In addition, the company provides a full range of turnkey system services, including container design, mold development and manufacturing, prototyping and preproduction runs, and system commissioning – as well as an extensive parts and service network. The company has facilities in Italy, Germany, Czech Republic, United Kingdom, Mexico, China and India, in addition to the U.S.



W

entworth Mold Ltd. is global supplier of blow molds for both PET and Extrusion blow molds for packaging industries since 1947. Wentworth Mold's strength is innovative blow mold development and global capacity leader in blow mold manufacturing. One of the recent developments is in energy efficient PET Heatset mold application, modular concept and EKO mold system. It consists of mold carrier with heat shields to contain heat in the mold shell and modular concept heatset mold system. It has been in production environment for over 3 years now and gaining popularity because of its energy saving benefits and flexibility in configuring various container design variations from a single base mold system. It is one of Wentworth Mold's recent popular patented systems.

The logo for Wentworth Mold features the words "wentworth mold" in a blue, lowercase, sans-serif font. Below this is the tagline "best value company" in a smaller, black, lowercase, sans-serif font. The entire logo is enclosed in a thin black rectangular border.

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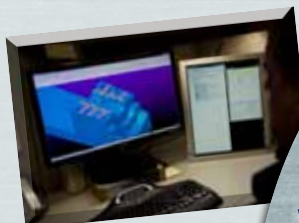
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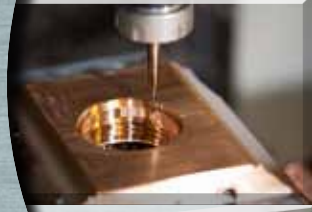
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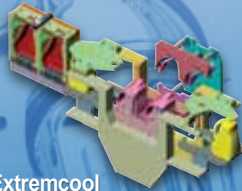
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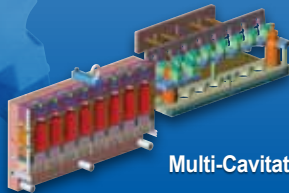
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Plastic Technologies, Inc. (PTI) Scott Steele has been appointed president of PTI, a leader in package development and design, rapid prototyping, and material evaluation engineering for plastic packaging. Steele will be responsible for global operations and will report to the company's board of directors. He had been vice president of PTI since 1995. Dr. Tom Brady, founder of Plastic Technologies, will continue as chairman. Steele is recognized internationally as an expert in blow molding technology for plastic packaging applications. Over the past three decades, he has led the development of a wide spectrum of design, development and manufacturing "firsts." He joined Plastic Technologies in 1987 as one of the company's first employees. Additionally, he is the author of 11 U.S. and international patents. He has served in numerous positions within The Society of Plastic Engineers and is the past chairman of the Blow Molding Division board. Steele has organized several national plastics conferences and has presented numerous technical papers at prestigious international conference events.



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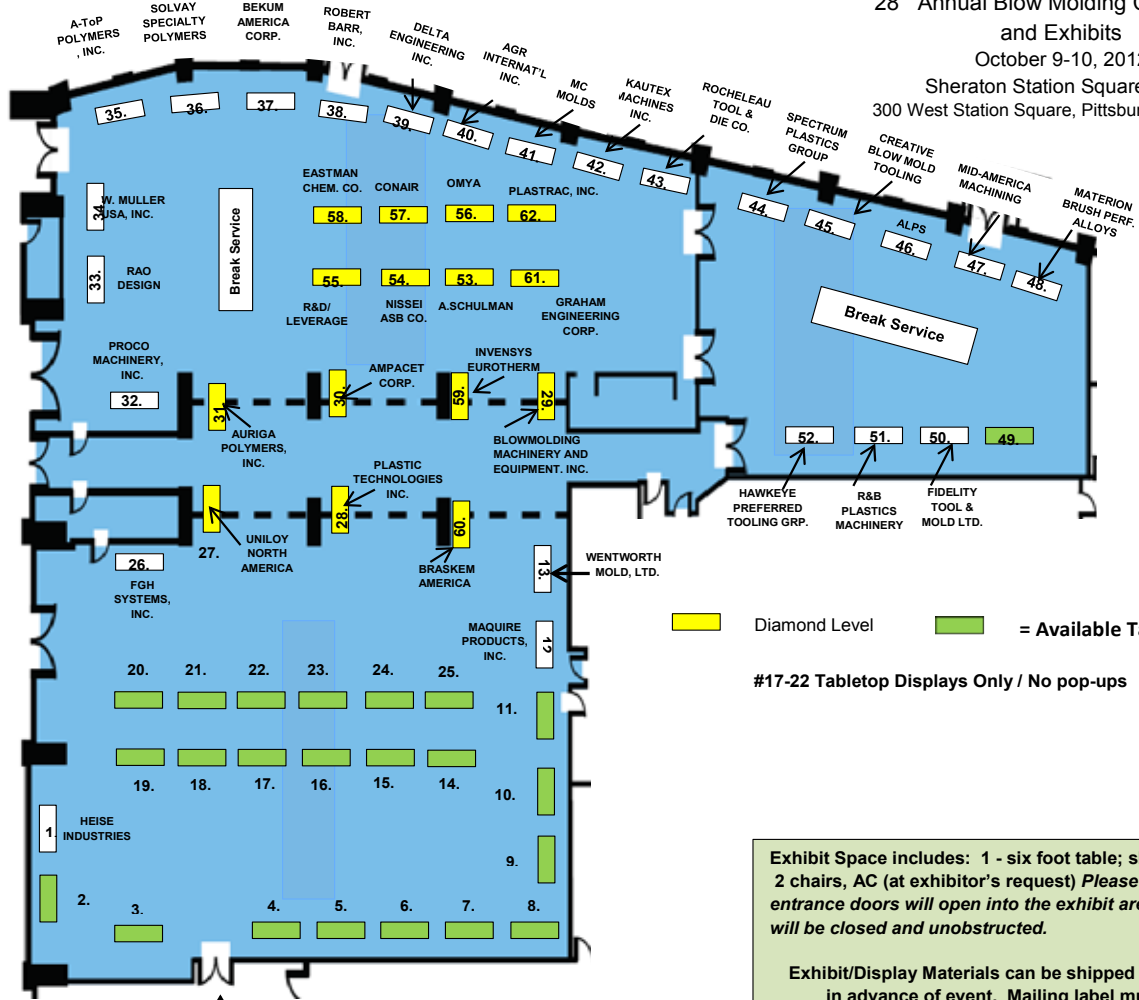
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EXHIBIT HALL LAYOUT

Glass wall runs full length of this side and overlooks Ohio River



28th Annual Blow Molding Conference
and Exhibits
October 9-10, 2012
Sheraton Station Square Hotel
300 West Station Square, Pittsburgh, PA 15219



Yellow box = Diamond Level Green box = Available Tables

#17-22 Tabletop Displays Only / No pop-ups

Exhibit Space includes: 1 - six foot table; skirted w/ table linen, 2 chairs, AC (at exhibitor's request) *Please note: only the main entrance doors will open into the exhibit area. All other entrances will be closed and unobstructed.*

Exhibit/Display Materials can be shipped no more than two days in advance of event. Mailing label must clearly indicate:
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Main Entrance to Exhibit Hall

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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:
Agri Industrial Plastics
Attn: Geoff Ward
301 N. 2nd St
Fairfield, IA 52556
geoff.ward@agriindustrialplastics.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.

SPE Blow Molding Division

A History of Supporting Education

- Did you know that the SPE Blow Molding Division has awarded nearly a quarter of a million dollars in scholarships to college students around the country?
- Did you know that the SPE Blow Molding Division hosts a Student Blow Molding Design Competition that awards up to \$2000 annually to students?
- Did you know that the Division also provides tens of thousands of dollars through a grant program that has assisted colleges and universities in purchasing and maintaining blow molding equipment for their labs?
- Did you know that the SPE Blow Molding Division supports other education programs, including a continuing education grant, sponsoring the PlastiVan, various student activities and continues to develop new educational opportunities for those in the blow molding industry?
- *Do you know what ExxonMobil, Graham Engineering, Kautex Machines, Inc., CKS Packaging and W. Muller USA, Inc. have in common?*

These companies have identified the value of investing in the future of our industry through education and provide support to these programs through Educational Sponsorships through the SPE Blow Molding Division.



We need your support to sustain these programs and develop educational opportunities for the future. If you are interested in educational sponsorships and would like more information, please contact us at BlowMolding@4spe.org

Join us in our mission of education for our industry!

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 - EISBAR Air cooling, drying, and dehumidification systems.



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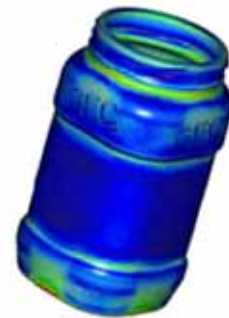
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Contributions to the Blow Molding Division Education Committee

CKS Packaging
contributed \$1000 to our general education fund

Kautex Maschinenbau
contributed \$500 to our general education fund

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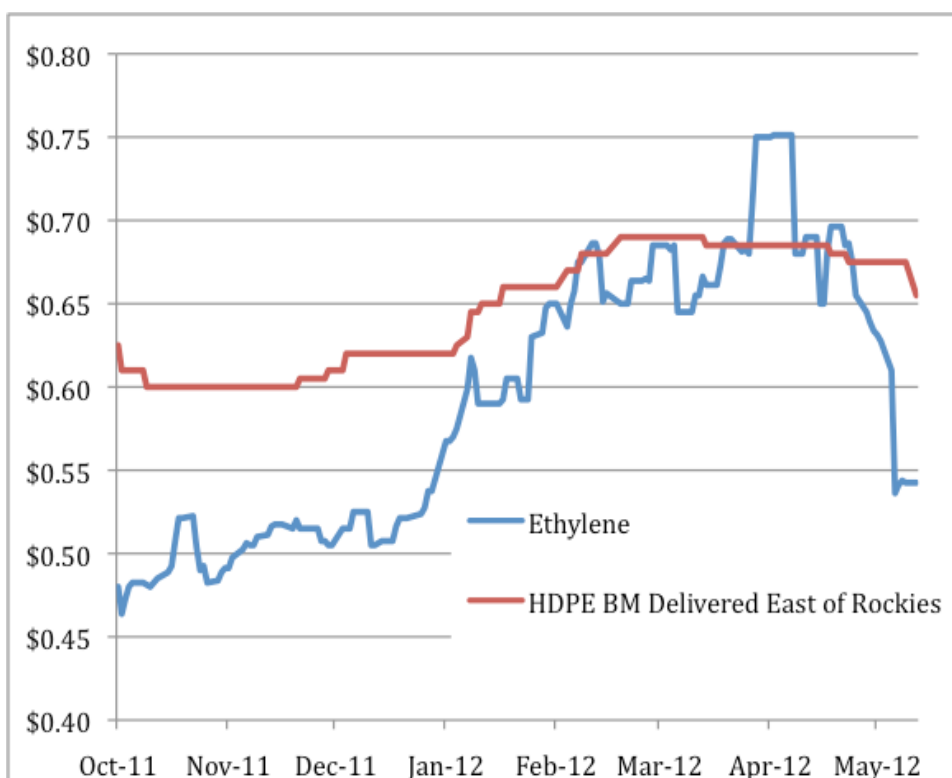
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2012 Market Fluctuation

At the end of March, spot ethylene reached a new historic high, surpassing 75 cents. Six weeks later, it was nearly 50 cents. Polyethylene didn't appear to respond to the high, but it sure is responding to the sell-off in monomer. The May market is also highlighting the different rates at which PE prices change, depending on if they are in the Houston-area market or delivered into the rest of the US.

The run-up of spot ethylene during the first quarter of 2012 was driven by supply concerns. Some scheduled maintenance outages at some large olefins units cut off some significant options for anyone looking to supplement their monomer supply. More maintenance turnarounds scheduled for March, April and May also kept supply tight as producers built inventories for their own outages. As March drew to a close, ethylene became increasingly difficult to find with each passing day, and its price climbed above 65 cpp. When a major ethylene unit shut down unexpectedly in the final days of March, the spot market jumped up 5 cents in a single day – in a single trade – and reached 75.125 cpp.

Spot polyethylene went into March with its premium to monomer under pressure. Demand was keeping a lid on most PE grades in the spot market, with HDPE blow mold in the upper 60s cpp range. As ethylene crept higher, reaching 65 cpp itself in mid-March, PE soon was at parity with monomer, both heading towards 70 cpp. When ethylene jumped up to 65 cpp, it left PE behind, not even returning to parity until nearly the end of April.

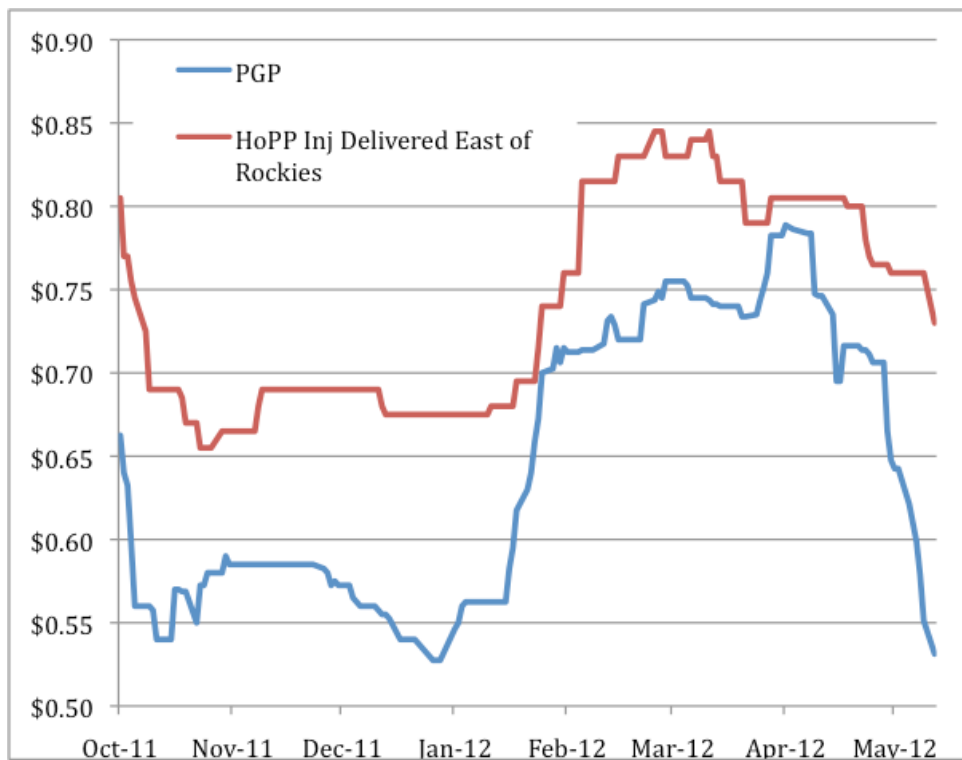


The May market has restored a more traditional order to the ethylene/PE relationship. Ethylene began the month stepping down into the 60s cpp by about 1 cent each day, reaching 61 cpp by May 7th. But May 8th saw ethylene sell off nearly 8 cents in a single day. Unlike the run-up on March 30th that was achieved with a single deal, the May 8th plunge involved more than 80 million pounds trading in what resembled a bit of a panic. At this writing, ethylene appears to have found a comfortable level in the low to mid-50s cpp, which is also the level where ethylene contract prices ended in April.

Spot PE kept its strength in May, but has begun to react to the monomer slump about a week after ethylene saw its 7-cent plunge. In the contract market, some producers have issued price decrease notices at 4 cpp. The Houston-area PE market, which is typically 5-6 cpp under East of the Rockies PE market, saw its gap widen to 7-8 cpp by mid-May, which could be a sign that spot prices are poised to follow monomer again. However, with several major monomer plants still down until June, monomer could very well rebound if unplanned outages put a run on supply towards the end of the month, mimicking the end of March market.

[Continued on next page](#)

Propylene, meanwhile, has been far more volatile. Propylene in general trades less frequently and this can make the market appear to spike or tank in a single day. Polymer grade propylene has held a premium to ethylene for quite some time, and US polypropylene has suffered as a result. There was no change to this trend in March, but propylene did not react to the steam cracker outages as strongly as ethylene did in the second half of March. Already at 75 cpp, PGP moved up to 78 cpp. However, the lack of demand for PP took its toll during the first 10 days of April and PGP did not trade at all. When it finally traded on April 11th, it was at 73.75 cpp – and the deal wasn't even a May deal, it was for June delivery. May PGP began trading again during the third week of April, at 69-71 cpp and then stopped. Offers were lower every day and May PGP finally traded again on May 7th – at 63 cpp. Offers continued to move lower, and by mid-May were 53.5 cpp. In the meanwhile, the upstream refinery grade propylene market plummeted, trading down from 60 cpp on May 2nd to 44 cpp on May 8th before rebounding to 48.5 cpp by May 11th.



The drop in monomer and the upstream RGP market practically stopped spot PP activity in May. Volumes were light, buying was hand-to-mouth and like its monomer, spot offers began to decline. Monomer's drop was steeper, however, and by mid-May, the differential between the two at least restored some of the margins lost during March. Also unlike ethylene, the propylene monomer contract price plays a larger role in setting polymer prices. With May PGP contracts dropping 10 cents to 67.5 cpp, PP sellers and re-sellers had been looking forward to moving some decent volumes – until spot RGP traded at 44 cpp and spot PGP offers slid. Spot PGP for June delivery was trading at 53 cpp in mid-May, which has inspired many in the PP market to believe that June's monomer price will drop further. This could unlock PP volumes to finally begin moving offshore again, and soak up some of the inventory overhang seen by May.

With lack of supply causing monomer to spike in March and lack of demand causing it to plunge in May, June could be the month where the dramatic swings are over and some equilibrium is returned to the PE and PP markets. But as with any commodity, fundamentals can change fast, and watching the daily markets has now become a necessary part of the resin business.

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Annual Business Meeting

Meeting was held at the Orange County Convention Center – Orlando, Florida

□ **Welcome – Ron Puvak**

BOD Members Present: Ron Puvak, Ben Lopez, John Rathman, Lew Ferguson, Gerry Hobson, Jeff Light, Henry Vogel, Piaras de Cléir, Mark Heitker

Guests: Jon Meckley, Don Peters, Bill Sellinger

- Motion to open the meeting 4:45 pm– Lew Ferguson, Jeff Light 2nd, approved.
- The financial status of the Blow Molding Division is in good condition.

□ **Chairman's Report – Ben Lopez**

- The division has received both the SPE Pinnacle and the Communications awards.
- Lew Ferguson and Mark Barger have received Honored Service Membership status.
- The Best Speaker Award for the ANTEC Blow Molding Session went to Mark Barger.

□ **No new Business**

- Motion to close the meeting 4:50 pm – Gerry Hobson, Piaras de Cléir 2nd, approved.



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Board of Director's Meeting March 31, 2012

BOD Meeting held at Ocean Prime Rialto – Orlando, Florida

AI = ACTION ITEM

□ Call to order

BOD Members present: Mark Barger, Ron Puvak, Ben Lopez, Terry Glass, John Rathman, Lew Ferguson, Geoff Ward, Gerry Hobson, Jamie Pace, Jeff Light

BOD Members Absent: Scott Steele, Surendra Agarwal, Bob Jackson, Babli Kapur, George Hurden Piaras de Cléir, Henry Vogel, Randy Moynihan, Mark Heitker, Dale Klaus, Cal Becker, Mike Hall, Gary Carr

Guests: Jon Meckley, Trisha McKnight, Margie Weiner

□ Welcome – Ben Lopez

Reviewed our SPE D30 Division Goals for 2012

- Research and structure education opportunities for the blow molding industry
- Promote these education opportunities to our industry and students
- Support these education programs technically and financially
- Organize a ANTEC technical conference including an interactive careers session
- Organize a ABC conference with presentations on the latest technology and trends, coupled with training sessions
- Find ways to promote, increase and retain membership
 - See link <http://www.4spe.org/membership-rewards>
 - SPE National promotion at our ABC

Continued on next page



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- Gain industry interest to participate and support our program through call for papers, technical support and sponsorship
- Update our Policy Manual with responsibilities (form a temp review committee)
- Make our financial planning format on QuickBooks
- Gather ideas for the 2020 SPE Adapt Program

Terry Glass reported the Division's funds requested from the soon to be dissolved SPE Investment Plan have not yet been received.

Jamie Pace will replace Jeff Light as Marketing Committee Co-Chair

The Division has received the 2012 SPE Gold Pinnacle and Communications Leadership awards, and a certificate of appreciation for a sponsorship of the Student Activities at the ANTEC.

❑ **Review of last Meeting's Minutes**

Motion to approve minutes with no revisions – Ron Puvak, John Rathman 2nd. approved.

❑ **Proposal to revise the Policy Manual**

- Submitted the following for BOD consideration and tabled until next BOD meeting.

From Section B page 6

5. ELECTION OF DIRECTORS

As the close of each fiscal year, the terms of one-third of the total number of elected Directors shall expire. Directors are elected each year. The Council Representative is elected every three years. (see Division Procedures Manual). They shall be elected by secret mail ballot to the Division membership as provided by the Bylaws with at least two candidates, "recommended but not required if insufficient candidates are nominated", for each position to be filled.

Continued on next page

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Board members and Officers failing to attend two consecutive Board meetings shall be considered to have resigned their elected positions, except for excused absences.

Preceding paragraph to be updated with the following proposed revision “recommended but not required if insufficient candidates are nominated.”

□ **State of the Board**

Scott Steele approved as new Blow Molding Division Councilor

AI - Scott Steele – Send invitations to new potential board members – Sharyl Reid, George Rolan, Dave Calderone, Zach Magnusson, John Sugden, Justin Schmader, and Christopher Grica.

AI - Scott Steele – Contact Tricia McKnight to set up an electronic election for a new Councilor.

AI - Gerry Hobson – Contact Mohammad Usman at Ford to determine interest in joining the BOD.

□ **Technical Program Committee (TPC) – Ron Puvak**

Reviewed ABC 2012 speaker matrix.

AI - Ron Puvak – Check with Heinz and Bayer for potential ABC keynote speaker. (Heinz confirmed 3/26/12)

AI - Jamie Pace – Check with Plastipak for potential ABC keynote speaker.

Terry reported the deposit for the Gateway Clipper cruise at the ABC 2012 has been sent as well as deposit for ABC 2013 @ Crowne Plaza Ravinia in Atlanta.

AI - Jamie Pace - ABC 2013 Shari Axelrod is new contact for Southern Section, obtain her contact info from Trisha

Continued on next page

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□ **Sponsorship subcommittee report – Jeff Light**

AI - All BOD – Send any ABC sponsorship ideas to Deidre
Four new sponsorships since the winter meeting (\$5500)
\$46,900 collected so far for ABC 2012 sponsorships

□ **Treasurers report – Terry Glass**

Discussion on potentially adding funds to the budget for travel and a study involving Bob Delong.
The Manning & Napier portion of the Grant Fund account to be moved from the general budget (Operating Fund) account to the Disbursement Fund account. Amount is approximately 60k.
The surplus funds from the excess of last fiscal year's prudent reserve in the Operating Fund have been transferred to the Manning & Napier portion of the Grant Fund.
Banking issues are delaying Quicken conversion due to documentation

□ **Councilors report review – Mark Barger**

Council update initial draft sent.

AI - Mark Barger – Send final version to BOD.

- Motion to approve the draft Councilor's report by Jeff Light, 2nd by Jamie Pace – approved

□ **Education Report – Geoff Ward**

No new Continuing Education grants.

Student Design Contest – Mark Barger and Jon Meckley to handle submissions.

Geoff had a conference call with Mark Barger and Randy Moynihan to discuss ongoing information collection and potentially more site surveys for training sites.

Geoff is working with others to formalize a scholarship sponsor program.

Continued on next page



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□ **Awards sub committee report – John Rathman**

Working on obtaining paperwork for LTA award for Don Graham.

John to help Ben with our HSM and Fellow nominations.

Tricia to send the HSM recording point system to Ben.

□ **Marketing Committee**

Newsletter – Ron Puvak

AI - Mark Heitker– Send winter meeting minutes to Ron

AI - Jeff Light – Write an olefins pricing article

Website -

Ron is working with Deidre, Dave Cleveland, Babli, and Alex Weber to update the website content

□ **Membership – Lew Ferguson**

Division membership is up 10 since the Winter BOD meeting to 689.

He has received the suspended D30 list from national and it will be used to solicit renewals and ABC conference attendees.

□ **New Business**

Discussed new Board Emeritus position that was approved at the last BOD meeting.

Motion to reapprove this new position by Ron Puvak,
2nd by Mark Barger - approved

AI - Mark Heitker – Add new BOD Emeritus position to the Division's Policy Manual

AI - Terry Glass – Send the revised 2012-2013 budget out to the BOD.

The PlastiVan is now owned by and reports to SPE.

ANTEC 2013 in Cincinnati April 22-24, 2013, call for papers will occur soon.

Reviewed status of action items from the last BOD meeting.

ADJOURNMENT:

Motion to adjourn Geoff Ward,

2nd by Ron Puvak – Approved



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ProTherm™	Copper Beryllium	20 Rc	Injection & blow molds, hot runner systems	Be extremely durable	Excellent hardness, wear resistance, non-galling	<ul style="list-style-type: none"> • Higher cycle life with lower maintenance costs • Less downtime
MoldMAX XL®	Copper Nickel Tin	30 Rc	Injection molds	Be easily fabricated	Faster machining rates than tool steels	<ul style="list-style-type: none"> • Lower mold fabrication costs
MoldMAX V®	Copper Nickel Silicon Chrome	28 Rc	Injection & blow molds			

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