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BLOW MOLDING DIVISION
SOCIETY OF PLASTICS ENGINEERS

Volume 2011 Edition 3

27th Annual Blow Molding Conference
October 12 & 13, 2011
Chicago Marriott O’Hare
Chicago, Illinois

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Blow Molding Division
Chairperson’s Message

Our 27th SPE Annual Blow Molding Conference preparations are well on the way. The attendance and sponsorships have a great outlook. I urge all to attend this event. In this newsletter you will find the program agenda as well as our formal Board Meeting minutes and planning notes. We appreciate your time from your busy schedules and commitments to attend and support SPE duties and promoting further plastics education to schools, universities and our industry.

Our board members have outlined many of these topics in the agenda for an interesting SPE Annual Blow Molding Conference that will take place in Chicago, IL on Oct. 12-13, 2011. This event will encompass the latest technologies, processes, resins and trends around the blow molding industry. 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.

Students and entry level participants are very welcome to this conference to get an inside look at the blow molding technologies, educational opportunities and industry contacts. Blow molding is a unique process offering any challenges and future opportunities with high technology requirements. Blow molding products are and will remain a part of everyday life in packaging, automotive, medical and industrial applications. We invite you to join this event 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 the blow molding industry. I invite all to meet our board members; we welcome your active and or financial assistance to successfully continue the SPE activities. Equally important is your input on the conference and recommendations for future events.

I would like also to thank all our board members, coodinator and associates for their work and extra efforts with their board responsibilities and in organizing our conferences throughout the year with our event coordinator. Look forward to work with you and your continued support.

We have many tasks to fulfill over the next years, but I am confident that with our board members involvement we can complete them.

With best regards,
Benjamin Lopez
SPE Blow Molding Division Chairman

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May 25, 2011

Mr. Frank G. Hohmann
FGH Systems Inc.
10 Prospect Place
Denville, NJ 07834

Dear Mr. Hohmann:

We are pleased to announce the Board of Directors of the SPE Blow Molding Division has chosen you as the recipient of the 2011 SPE Blow Molding Division Lifetime Achievement Award.

Lew Ferguson nominated you for this prestigious award. Our BOD reviewed your many accomplishments and contributions to our industry that clearly showed your qualifications for this award.

We plan to present this award at our Annual Blow Molding Conference banquet in Chicago, IL on the evening of Wednesday October 12, 2011. We invite you, your family, and any colleagues to join us for this occasion.

Congratulations and Best Wishes,

Benjamin Lopez

Benjamin Lopez
Society of Plastics Engineers
Blow Molding Division Chairman

cc: Eric Hohmann □ FGH Systems Inc.  
    Lew Ferguson - SPE Blow Molding Division Fellow of the Society  
    John Rathman □ SPE Blowmolding Division Awards Chair
Frank George Hohmann

- After graduation in Mechanical Engineering in Germany, Frank joined Kautex USA and formed a technical service department in Flushing, NY.

- Then in 1964, served 2 year in the US Forces

- After serving in the military, Frank joined Allied Chemical to assist in the development of the Hartig dairy blow molding machine

- In 1968, Frank joined Bekum in Carlstadt, NJ and established a Technical Sales and Service department.

- During this period developed numerous in machine and mold deflashing systems including the method of blowpin calibration for container neck finishing without secondary reaming operation.

- In 1969 received his first patent on “Uniformly Blow Molded Container Neck”.

- Frank’s contribution to processing of a variety of engineering resins specifically PVC, including vented extruder barrels for shuttle machines, led to numerous custom and in-house blow molding operations.

- In 1976, Frank G. Hohmann formed his own company, FGH SYSTEMS INC, specializing in turnkey operations for the blow molding industry.

- Frank’s processing know-how and mold making capability was a key factor in the success of FGH.

- Today FGH has for development and sampling seven (7) blow molding machines, COEX capabilities, and a state of the art mold manufacturing facility.

- Since 1991, FGH is the USA sales and service agency for B&W, Uniloy-Milacron shuttle machines, and OSSBERGER Pressblower injection blow machines.

- In 1995, FGH added the AOKI stretch blow molding machine to its sales product line.

- During the last 35 years of business, FGH has developed methods in sealed handle rupture blow, in mold handle punching, IML concepts, extrusion head design, and in machine trimming systems technologies which led to various patents:
  - 1991 “Internal Vent Tube” patent for syrup containers
  - 1992 “Handle Container with Vent Tube” patent
  - 1994 “Five gallon Nestable Syrup Container” patent
  - 1995 “In Mold Cutting of Drinking Vessel” patent

- Frank’s 50 year SPE membership status is Emeritus, however he is still active in the business.
SPE Blow Molding Division’s 
2011 Carrie Fox Solin Memorial Scholarship

James Tyler Bowen

Tyler is currently a senior in the Plastics Engineering Program at Pittsburg State University and an SPE member since 2008. He has completed two summer internships. This past summer he worked at Charloma Inc. in Cherryvale, KS in all departments including rotational molding, vacuum or thermoforming, injection molding, blow molding, trim operations, warehouse, and engineering. Tyler gained a variety of experience with and troubleshooting processes, implementing work aids, and creating standard work instructions while in the engineering group. His previous internship was with Rexam at Excelsior Springs, MO as a Lean Manufacturing Intern where he implemented 5S layouts and audits to increase safety and efficiency. While in school, Tyler has been an active student participating in all department activities and served as Secretary and Treasurer for the Pittsburg State University Society of Plastics Engineers Student Chapter. He anticipates graduating spring of 2012 and his career goal is to become a part or mold design engineer in the blow molding industry. Tyler previously attended our Annual Blow Molding Conference in 2009 and will be our guest again at this year’s ABC in Chicago.
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**ABC 2011 Sponsor Highlights**

**Nissei ASB Co.**, the wholly-owned subsidiary of Japan’s Nissei ASB Machine Co. Ltd., has achieved a major milestone with the delivery of its 1,000th ASB-70DPH one-step injection stretch-blow molding machine for the production of narrow-neck and wide mouth PET containers. The versatile and compact machine, originally launched in 1986, was delivered to a new entrant in blow molding . . . Novatex North America, an Ohio-based manufacturer of infant care products. “This achievement is a testament to our strong leadership in technology and manufacturing and our unique ability to adapt to the market and supply the industry with the most flexible and productive machine on the market,” explained Jamie Pace, vice president and general manager of Nissei ASB Co. The current model is highly versatile and compact, capable of producing an extensive range of containers from 50ml (12 cavities) to 7L (one cavity) for food, beverages, personal-care, household, automotive and industrial markets. The ASB-70DPH has 70 tons of clamping force and is capable of producing up to 4500 containers/hr depending on size and cavitation. ASB manufactures the machine semi-complete at its wholly-owned facility in Mumbai, India (ASB International) and then completes and tests at the corporate headquarters in Komoro, Japan.

**Copper and Brass Sales**, a division of ThyssenKrupp Materials NA, is a North American distributor providing a wide range of nonferrous materials to meet all of blow mold making needs. They have specialty aluminum alloys such as QC-10® and Alumex 99®, two alloys with outstanding exfoliation corrosion resistance to provide longer mold lifetime than 7075 and they also offer Max 5®, a 5000 series alloy, and Alca Max®, a 2000 series alloy, up to 41 inches thick for large blow mold needs. They also stock five alloys of MoldMAX® and CDA 180 copper for insert needs. Regardless of the type of blow mold you make, Copper and Brass Sales is ready to provide the materials you need, when and where you need them.

**Auriga Polymers Inc.** is the official name of the Spartanburg, SC PET plant of Indorama Ventures, PCL. Earlier this year, Indorama Ventures acquired the North American PET business of INVISTA S.a.r.l. which included the Spartanburg, SC and Queretaro, MX PET facilities. Together with their two preexisting US Indorama plants (StarPet and AlphaPet), Indorama Ventures (IVL) is now a leading producer of PET in North America and the largest Global PET producer with a customer centric focus operating 14 PET facilities in 11 countries and 4 continents. The Auriga Polymers acquisition brings to Indorama Ventures a platform of innovative new products including the Polyclear® EBM PET resin which complements their customer focus.

**Agri-Industrial Plastics Co.** has strengthened its commitment to the non-automotive fuel tank market with the purchase of a new six-layer continuous co-extrusion blow molding machine from Bonn, Germany-based Kautex Maschinenbau GmbH. The new multilayer machine effectively triples Agri-Industrial’s fuel tank capability to meet the growing U.S. demand in the lawn & garden, ATV, snowmobile and marine markets. “This investment further reinforces our view that multi-layer technology is the superior approach in meeting today’s stringent evaporative emission standards,” said Geoff Ward, Agri-Industrial’s engineering manager. “It’s a proven technology that is cost competitive, is consistent in meeting emission standards, and has processing and quality benefits.” Agri-Industrial was one of the first non-automotive custom blow molders in the U.S. to adopt multi-layer technology as a barrier solution to meet tougher environmental regulations. The company works closely with customers to develop and design highly intricate part geometries which are not only EPA compliant but also functional.
Eurotherm provides quality products and solutions that understand plastic applications. For over 40 years Eurotherm has built an international reputation for developing premium quality, ‘fit for purpose’ products and solutions. The Invensys Eurotherm brands (Eurotherm, MACO, Action Instruments, Barber-Coleman, Chessell, Continental and ERO) have long been recognized for leading the plastics automation market. This has been derived from an exceptionally high understanding of thousands of industrial applications and process requirements from an extensive range of global solutions we provide is drawn from a comprehensive family of configurable process control, data management and scalable automation systems. The “Eurotherm Difference”, however, is much more than just superior products and flexible solutions. The care and support of our customers is one of their main priorities and their aim is to work with you, so that you can benefit from the experience that can only come from the world’s leader in control and measurement solutions.

Milliken is now launching a version of the Millad® NX™ 8000 additive that is specifically aimed at extrusion-blow molding, Millad NX 8500E. “With this new innovative grade, transparency in extrusion blow molding is no longer limited to PVC or PET,” says Brian Burkhart, Global Market Manager, Polypropylene Clarifiers, Millad NX8500E will allow processors to optimize surface properties as well as bulk haze. It has been designed specifically to provide a step-change in optical properties with standard Ziegler-Natta PP EBM resins. Bottles produced with Millad NX 8500E will exhibit excellent gloss and transparency and they will have a fresher look due to a low yellowness index. As with NX 8000, improvements are less dependent on processing temperatures than with existing clarifiers. Furthermore, no special mold finishes are required to achieve excellent looking bottles.

Agr International’s OptiCheck™, a vision-based inspection and measurement system, is designed to address the most critical process related issues common to plastic bottle production. Unlike many of the vision products on the market today, the OptiCheck™ system is designed specifically for bottle measurement and inspection applications as well as the process control needs of the plastic container industry. It’s cost effective, easy to operate, yet extremely reliable approach takes into consideration the day-to-day versatility to deal with frequent product change-overs, color changes and limited line space. In addition, the OptiCheck™ can be expanded as needed. Modules are available for high-accuracy on-line finish gauging, seal surface defect management, and now, sidewall and label inspection. The OptiCheck™ system is another part of a broad line of process monitoring and measurement products offered by Agr International for glass, plastic and metal container manufacturers. Agr International, Inc., develops and manufactures a full line of laboratory and on-line testing/quality control devices for containers and similar products. The Agr headquarters and main manufacturing facility is located in Butler, PA, USA.
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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.
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Olefin Markets Remain Turbulent
by Jeffrey Light, A-ToP Polymers, Inc.

2011 has been an interesting year for the polyethylene market. Almost every month of this year has started with resin manufacturers seeking increases in base line pricing models. With each effort, each month has seen a different result, however, at the time of this articles creation, the cost for blow molding grades of polyethylene are higher now than when the year began. Increases in these essential polymers was realized by the marketplace in February, March and April with May holding steady and relief seen in both June and July.

In July, resin manufacturers released letters referencing new and “previously announced” increases. Each supplier has stated that effective August first, the “previously announced” five cent increase was to become effective, which was originally requested for earlier in the year, and added “in addition” a six cent increase has been nominated for September. What is concerning to some, is that in addition to the “previously announced” nickel, there was a previously announced six cent increase that was not accepted in the marketplace as well. As a result, are there eleven cents on table or are there seventeen? Presently, in mid-August, no resin manufacturer has rescinded or delayed their intention to increase the price of polyethylene by five cents this month and the additional six cents in September.

Today’s market realities are mixed depending on which side of the equation one resides. Spot ethylene presently remains in the low-to-mid sixties while there are five ethylene crackers headed for scheduled maintenance turnarounds beginning September or October. This surely has contributed to the lack of relief expected in this market as well as to fuel the resolve resin manufacturers cite when discussing their reasoning for polymer price increases. Converters on the other hand have expectations that due to the wild swings in the oil and natural gas markets that relief is imminent and that the price for polyethylene should be headed further downward. The market has seen swings in overall polyethylene inventories across all platforms: producer inventory, distribution inventory as well as that of converters. The timing of pre-buying and destocking across each market has become more challenging regardless of if you are purchasing pellets for blow molding or ethylene to make resin. This is one contributing factor as to why the market has reported various grades of material are shipping much later than requested by resin producers.

Below is a chart detailing the market movements of contract ethylene and HIC blow molding resin since the inception of 2010.

Continued on next page
Much like the polyethylene market, the polypropylene market has seen wild swings throughout 2011. Increases to this polymer market have been more volatile than polyethylene with numerous single month changes in price reflecting double digit swings. Increases were realized by the market in February, April and May with decreases seen in March, June and July. The basis for the wild swings is due to the nature of the propylene monomer market as virtually each month the price of polymer moves with the corresponding change in contract monomer pricing. To that end, the polymer market has been reported as “a make to order world” with firm orders required prior to the month in which the pellets will be manufactured. Converters and resin producers both desire not to get caught with high priced inventory in a falling market similar to their desire to contract for their feedstock when the market appears to rebound upward.

Given the drastic changes in monthly converter and distribution purchases, producers have seen great months in destocking in addition to months in which excessive inventory has been created. If the dramatic swings in crude oil, the main feedstock for propylene monomer continue, then the polypropylene will see more of the same for the foreseeable future. For example, just prior to the resolution to the US debt scenario, the price for WTI crude was in the ninety five to one hundred dollar per barrel range before its collapse toward 80. At the earlier point in time, the expectation for August polypropylene was that it could increase by roughly four cents per pound. Since that time the market has seen some relief or easing as some resin manufacturers ultimately agreed to transact at plus two or even more recently flat. Naturally, converters are seeking a reduction of July baseline while some suppliers are now enthused to hold the line. Currently, the spot market for near term polymer grade monomer has been hovering in the low 80s and future prognostications have not much changing, give or take a nickel for the remainder of the year.

Below is a chart detailing the market movements of homopolymer polypropylene and contract polymer grade propylene monomer resin since the inception of 2010.

The above graphs reflect month over month market price movements off baseline with the data points reflecting general market knowledge and should not be viewed or used to signify the actions or pricing levels of any one individual or organization. Comments or questions can be forwarded to jeff@a-toppolymers.com.
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For more information go to: www.blowmoldingdivision.org
Current program includes Technical/Business Overviews, Industrial and Automotive Materials and Applications, Packaging Machinery Advancements, Co-Extrusion Technology, Packaging Sustainability and Recycling Barrier Technology and Options.

### Tuesday, October 11, 2011

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<td>Registration, Welcome Reception and Exhibits</td>
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### Wednesday, October 12, 2011

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<td>7:30 AM</td>
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<td>8:30 AM - 10:30 AM</td>
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<td>Driving Growth and Consumer Satisfaction Through Packaging Innovation</td>
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<td>Blow Molding Resins Outlook – Polyolefins &amp; PET</td>
<td>Chase Willet, Director Polyester and Polyester-Raw Materials, CMAI (CMAI has been acquired by IHS, a world-class leader in chemical products and services)</td>
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<td>Blow Mold North America Market Analysis, Mergers and Acquisitions</td>
<td>Angie DeRosa, Business Reporter, Plastics News</td>
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<td>Bio-Derived Polyethylene</td>
<td>Mark Mendelson, Market and Product Portfolio Manager, Braskem America, Inc.</td>
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<td>Balancing Sustainability, Processing, and Performance Needs through Development of Clear Packaging Resins</td>
<td>Dr. Mark Treece, Senior PhD Chemical Engineer, Eastman Chemical Co.</td>
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<td>New Bio-Based Polymers for Extrusion Blow Molding</td>
<td>Dr. Robert Whitehouse, Mirel Plastics, Metabolix</td>
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<td>11:00 AM - 12:30 PM</td>
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<td>Multilayer Blowmolding - Getting Sustainability for Your Bottom Line</td>
<td>Chuck Flammer, Vice President Sales, North America, Kautex Machines, Inc.</td>
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<td>Beans to Machines</td>
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<td>Use of Blow Stands to Produce Technical Products by Blow Molding</td>
<td>Bob Slawska, Graham Engineering Corporation</td>
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<td>Blow Molding Large Clear Handled Copolyester Containers</td>
<td>Cal Becker, Technical Service Application Development, Eastman Chemical Co.</td>
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<td>12:30 PM - 2:00 PM</td>
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<td>2:00 PM - 3:30 PM</td>
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<td>PACKAGING INNOVATIONS</td>
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<td>Recyclable PET Resin for EBM</td>
<td>Jeff Wardat, New Business Development Manager, Auriga Polymers Inc. of Indorama</td>
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<td>TBS: Tubes to Bottle Systems</td>
<td>Robert W. Fox, Synergy Packaging, LLC</td>
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<td>Recent Investigative Results in High Density Polyethylene Injection Stretch Blow Molding (HDPE ISBM)</td>
<td>Michael McLeod, Technical Service Manager – Molding and Sheet, Total Petrochemicals USA, Inc.</td>
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<td>Latest Improvements in PE and PP Additives for EBM</td>
<td>Mike Watson, Advanced Development Chemist, Milliken Chemical</td>
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<td></td>
<td>Questions and Answers</td>
<td></td>
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<tr>
<td></td>
<td>2:00 PM - 3:30 PM</td>
<td>SESSION 2B:</td>
<td>Moderator: Gerry Hobson</td>
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<td>INDUSTRIAL</td>
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<tr>
<td></td>
<td></td>
<td>Foaming Blow Molding</td>
<td>Sam Crabtree, Research Scientist, The Dow Chemical Co.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bottle Weight Reduction as a Simulation Driver Optimization Process</td>
<td>Dr. Hossam Metwally, Lead Engineer, ANSYS, Inc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3D Suction Blow Molding Technology</td>
<td>Walter Mariani, Engineering Manager, S. T. Soffiaggio Technica s.s.l. and Ennie Hollo, President, Hollo Plastics Equipment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ford Product Development Innovations Drive by Advanced Blow Molding Technologies</td>
<td>Dr. Mohammed Usman, CAE Manager and Syed Ahmad, CAE Product Engineer, Ford Motor Co.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Questions and Answers</td>
<td></td>
</tr>
<tr>
<td>Ballroom</td>
<td>3:30 PM - 4:00 PM</td>
<td>Break – Networking and Exhibits</td>
<td></td>
</tr>
</tbody>
</table>
**Wednesday, October 12, 2011 Continued**

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>TIME</th>
<th>SESSION</th>
<th>SPEAKER/COMPANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ballroom</td>
<td>7:30 AM - 8:15 AM</td>
<td>Continental Breakfast</td>
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</tr>
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</table>

**101 SESSIONS**

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>TIME</th>
<th>SESSION</th>
<th>SPEAKER/COMPANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ballroom</td>
<td>8:30 AM - 10:00 AM</td>
<td>Blow Mold 101: Continuous Extrusion</td>
<td>Klaus Mischkowski, Consultant</td>
</tr>
<tr>
<td>Ballroom</td>
<td>8:15 AM - 9:00 AM</td>
<td>Applying VFDs for Energy Savings: Notes from the Field</td>
<td>Clayton Penhallegon, Jr., President, Integrated Services Group, Inc.</td>
</tr>
<tr>
<td>Ballroom</td>
<td>9:15 AM - 10:00 AM</td>
<td>Blow Mold 101: Reheat Stretch Blow Molding</td>
<td>Donald Miller, Plastic Technologies, Inc.</td>
</tr>
<tr>
<td>Ballroom</td>
<td>9:15 AM - 9:30 AM</td>
<td>Blow Mold 101: Blow Molding Engineering Thermoplastics</td>
<td>Lew Ferguson, Parisons</td>
</tr>
<tr>
<td>Ballroom</td>
<td>10:00 AM - 10:30 AM</td>
<td>Break - Networking and Exhibits</td>
<td></td>
</tr>
<tr>
<td>Ballroom</td>
<td>10:30 AM - 11:15 AM</td>
<td>Blow Mold 101: Reciprocating Screw Technology in Extrusion Blow Molding</td>
<td>Dale Maddox, Process Engineer, Uniloy North America</td>
</tr>
<tr>
<td>Ballroom</td>
<td>11:30 AM - 12:15 AM</td>
<td>The Value of Vision Inspection Solutions to the Blow Molding Industry and “Leak Testing 101”</td>
<td>Tom McLean, GM, METTLER TOLEDO CI-Vision, and Scott Heins, Sales Manager, ALPS</td>
</tr>
<tr>
<td>Ballroom</td>
<td>10:30 AM - 11:15 AM</td>
<td>Recycling PET, PCR and Recycled Polyolefins</td>
<td>Scott Steele, Plastic Technologies, Inc. and KW Plastics Recycling</td>
</tr>
<tr>
<td>Ballroom</td>
<td>11:30 AM - 12:15 AM</td>
<td>Single Stage Blow Molding</td>
<td>Craig Arnold, Sales Manager, Nissei ASB Company</td>
</tr>
<tr>
<td>Ballroom</td>
<td>10:30 AM - 11:15 AM</td>
<td>The Importance of Discrete Data Analysis in Establishing &amp; Maintaining Product Quality</td>
<td>Dan Weissman, DW &amp; Associates</td>
</tr>
<tr>
<td>Ballroom</td>
<td>11:30 AM - 12:15 AM</td>
<td>Fundamentals of 3R Welding for Blow Molding</td>
<td>David G. Kember, Director of Sales and Engineering, HA Industries</td>
</tr>
<tr>
<td>Ballroom</td>
<td>12:30 PM</td>
<td>Lunch</td>
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<tr>
<td>Ballroom</td>
<td>12:30 PM - 4:30 PM</td>
<td>Advanced Extrusion Blow Molding</td>
<td>Klaus Mischkowski, Consultant</td>
</tr>
</tbody>
</table>

**Conference Concludes**

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Blow Molding Division

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October 12 & 13, 2011
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(and at the door)
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Fee includes all materials, lunch and dinner

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2. **Corporate Credit Card:**
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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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The Breeze IIc stand alone parison-only Blow Molding Machine Control replaces existing slide switch, pin and touch screen parison programmers on blow molding machinery. Breeze IIc is factory configured to common time and position based machines. It is shipped as a truly “out of the box” system. Anyone can connect it. Just a few, easy-to-reach, external connections are all it takes.

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This course will be offered immediately following the SPE 2011 Annual Blow Molding Conference – Details on back.

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- This course will provide a simplified but thorough treatment of the extrusion blow molding process.
- Major emphasis on the blow molding machine from the extruder, parison head, mold clamping unit and the blowing unit.

How does the system work?

Course outline highlights:

- Introduction, Background / History
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- Different Parison Head and Tooling Designs
- Clamp and Blow Units
- IML, Part Removal and Trimming
- Controls for each system

How do all the subsystems tie into making the blow molded article?

This half day course is included in the full conference registration but can be registered for separately at a cost of $100 per participant. Lunch is included.

Gain valuable insight and knowledge from instructor Klaus Michkowski’s 42 years of experience in the Extrusion Blow Molding Industry. Klaus has worked for the leading blow molding machine manufacturers such as Fischer, Voith-Fischer, Battenfeld-Fischer Krupp-Kautex, SIG. His informative and easy to understand short course will provide the attendee with information they can use immediately. Klaus’ course has been presented at prior Annual Blow Molding Conferences and based on excellent feedback, we are pleased to bring him to ABC 2011.

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Board of Director’s Meeting May 3, 2011

**AI = ACTION ITEM**

- **Call to order at 8:05 am**
  
  BOD Members present: Gary Carr, Ben Lopez, Scott Steele, Jeff Light, Mark Heitker, Mark Barger, Randy Moynihan, Ron Puvak, Geoff Ward, John Rathman, Dale Klaus, Jamie Pace, Babli Kapur, Henry Vogel, Cal Becker, Jon Meckley, Terry Glass
  
  BOD Members Excused: Lew Ferguson, Surendra Agarwal, Daryle Damschroder, Bob Jackson, Gerry Hobson
  
  BOD Members Absent: Piaras de Cléir, Clyde Bohne, John Headrick
  
  Guests: Tricia McKnight, Dick Cameron, Jon Ratzlaff

**Welcome & Non compete notice – Scott Steele**

- **State of the Board – Scott Steele**
  
  Ben Lopez is Chair elect. Jeff Light designated as Marketing Committee CoChair.

  **AI Mark Heitker** – Distribute organization chart showing BOD positions and request directors to convey interest in future positions to assist Ben Lopez with succession planning and identify training opportunities.

  **AI Bob Jackson** - Obtain nominee Mike Hall’s eligibility documentation to qualify for open position on the BOD.

  **AI Gary Carr** – Contact David Hayward to determine his interest in joining the BOD

Continued on next page
AI Mark Barger – Contact Donna Davis to see if ExxonMobil has interest in a BOD position.

Review of last Meeting’s Minutes and Action Items – Mark Heitker

Passed around BOD roster. Updated version is attached.


- Motion to approve minutes with no revisions – Jeff Light, 2nd John Rathman, approved by BOD majority. Minutes and updated action item list are attached.

Discussion on ABCs revenue, major impact is site expenses. Atlanta had high hotel and catering expenses. Focus of our ABC efforts is education.

Councilors report review – Mark Barger

Sarah Sullivan is assuming Marie Salzo’s duties at SPE national. Russell Broome is new president. Society financial performance is much improved.

AI Scott Steele – Arrange Finance Committee meeting to determine the future status of our $55,000 in the SPE Investment Program


Membership is growing. Member survey - #1 reason for joining SPE is Technical Content, #2 is Networking Opportunities. Discussed POAM outline.

AI Ben Lopez – Mark Barger is term limited. Identify candidate(s) for Councilor for 2012-2015 term and schedule election at Winter 2012 BOD meeting.

Continued on next page
Discussed new Webinar emphasis for SPE National and new Academic Outreach program to target increased student membership.

- Motion to approve the report by Henry Vogel, 2nd by Jeff Light – approved by majority of BOD

- Technical Program Committee (TPC) – Ron Puvak for Surendra Agarwal


ABC 2012 planning summary. Site options - ABC 2012 Pittsburgh or Atlanta, ABC 2013 Possible return to Atlanta, ABC 2014 Possible St. Louis, Chicago, others

Guest Dick Cameron presented the attached site proposal from the Pittsburg Section. Discussions on site options.

- Motion to approve TPC report and Pittsburg for ABC 2012 by Geoff Ward, 2nd by Jon Meckley – approved by majority of BOD

ABC 2012 co chairs will be Ron Puvak and Jon Meckley

- Break 9:55 – 10:10 am

- Sponsorship subcommittee report – Jeff Light
  Discussed recruitment strategy for ABC 2011. 333 businesses contacted. 17 sponsors confirmed so far for $39,500.
- Motion to approve report by Henry Vogel, 2nd by John Rathman – approved by majority of BOD

AI All BOD - Send at least one contact to Deidre as a potential new sponsor

- Treasurers report – Terry Glass
  Reviewed report. Total fund’s balance is $239,290. If the balance goes above $250,000 outside accounting assistance will be needed for tax return preparation. The Manning & Napier Fund portion of the Grant Fund has had ~7% return and the SPE Investment Fund portion of the Grant Fund return was 3%.

Proposal by the Treasurer to consolidate the Division’s four funds.
AI Scott Steele – Arrange Finance Committee meeting to discuss the feasibility of consolidating the Division’s funds to simplify our finances and possible use of accounting software.

- Motion to approve the Treasurer’s report by Henry Vogel, 2nd by John Rathman – approved by majority of BOD

Motions for proposed changes to the SPE Blow Molding Division’s Fiscal Policy – By Laws
The motions to revise Division Fiscal Policy and By Laws were reviewed at the last BOD meeting and published in the last newsletter with no comments received from the Division membership. Motion #2 does not require a change to the By laws and was withdrawn.

Motion #1
Amend Timing of Beginning of Fiscal Year Fund Transfers By-Law
Current wording in the Policy Manual’s Fiscal Policy By Law:
Transfers of funds from the Division Treasury (Operating Fund) to the Grant Fund and from the Grant Fund to the Disbursement Account will be automatic at the direction of the Chairperson each year on July 1, and will not require a motion nor Board approval.

Continued on next page

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Proposed new wording:
Transfers of funds from the Division Treasury (Operating Fund) to the Grant Fund, and from the Grant Fund to the Disbursement Account will be completed at the direction of the Chairperson within the 1st half of each fiscal year, and will not require a motion nor Board approval. Any changes to these transfers (amount and timing) must be approved by a 2/3 vote of the BOD prior to December 31st.

Motion #3
Amend Start of Year Grant Fund Income Transfer to Disbursement Fund

Proposed new wording:
In accordance with Division fiscal policy, within the 1st half of each fiscal year, any income or gains accrued in the Grant Fund within the previous fiscal year, up to but not exceeding the total annual increase in value shall be transferred into the Disbursement Account.

- Motion to approve Motion #1 – Mark Heitker, 2nd by John Rathman, Approved by all BOD present. 2/3 quorum of BOD was present.
- Motion to approve Motion #2 – Mark Heitker, 2nd by John Rathman, Approved by all BOD present. 2/3 quorum of BOD was present.

AI Mark Heitker – Update the Division’s Policy Manual with these 2 changes and send a revised copy to all BOD.

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<table>
<thead>
<tr>
<th>Product Name</th>
<th>Alloy</th>
<th>Hardness</th>
<th>Typical Applications</th>
<th>A Mold Must</th>
<th>Brush Performance</th>
<th>Mold Alloys (Provide):</th>
<th>Benefits:</th>
</tr>
</thead>
</table>
| MoldMAX HH®  | Copper Beryllium | 40 Rc | Injection & blow molds | Transfer heat rapidly | The highest thermal conductivity available | - Rapid heat transfer  
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Reviewed the Education Committee’s revision to the 2011 – 2012 Division Disbursement Fund budget.

- Motion to approve the revised 2011-2012 Budget – Mark Heitker, 2nd by John Rathman, Approved by majority of BOD

Jon Ratzlaff announced new SPE National Vice President positions for Marketing and Membership

- Education Report – Geoff Ward

  Discussed scholarship program and current recipient status.

  **Student Design Contest – Mark Barger** Three applicants from Penn State Erie chosen for 1st, 2nd, and 3rd place winning entries. Awards will be for $1000, $500, and $300. The recipients will be invited to display a poster on their project at the ABC 2011.

  **AI Mark Barger** – Send winning entries to be posted on our web site.

  **AI Mark Barger** – Send summary and selected images from the winning entries to Ron for the next newsletter.

  Discussed student attendees at ABC 2011. Suggested targeting the new student chapter at University of Wisconsin Stout

  - Motion to approve the report by Jeff Ward, 2nd by John Rathman - approved by majority of BOD

- Awards Sub Committee - John Rathman

  **AI All BOD** – Complete your scoring spreadsheet for Honored Service and Fellow nominations and return to John Rathman by end of May.

  Continued on next page

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**AI All BOD** – Need Fellows nominations by August 20th. Send to John Rathman.

**Frank Hohmann with FGH Systems nominated for 2011 Lifetime Achievement Award** by Lew and Ben. Reviewed his qualifications.

- Motion to approve by John Rathman, 2nd by Mark Barger - approved by majority of BOD

**AI John Rathman** – Send congratulatory letter to Frank Hohmann with invitation to accept award at ABC 2011 banquet. Request his picture for newsletter.

- Motion to approve the report by Jamie Pace, 2nd by Ben Lopez - approved by majority of BOD

- **Marketing Committee – Gary Carr**

  **AI Gary Carr** – Continue scheduling ABC planning calls every other Friday.

- **Newsletter subcommittee report – Ron Puvak**

  Next issue planned for end of May.

  **AI Babli Kapur** – Pick out some highlights from the ABC 2010 papers for inclusion in the newsletter.

- **Membership subcommittee report**

  Division is up 14 members, total membership is 762. Randy, Daryle, and Jeff are assisting Lew with membership recruitment and retention.

  - Motion to approve the report by Jon Meckley, 2nd by Ben Lopez - approved by majority of BOD

Continued on next page
- **Website subcommittee report – Babli Kapur**
  
  Steady progress on new website format, target date for implementation is the 1st week of August.

- **New Business**
  
  New Blow Molding book proposal. Bob Jackson will initiate work on this book and coordinate with Wiley Publishing. They will use Sam Belcher’s material as a starting point. The book and proceeds will be dedicated to the Sam Belcher Scholarship.

  Ron Puvak reported on the PTI Fasttrack training programs at the ANTEC 2011.

  Discussion on extending the 2nd day of the ABC for expanded 101 training sessions.

  **AI Ron Puvak** – Evaluate creating a Blow Molding sub group on the SPE Linked In site.

  **AI All BOD** – Send photos to Babli for the website and to Ron for the newsletter.

  Minimum 300 dpi

  Mark Heitker reviewed the attached new action item list generated during this meeting.

**ADJOURNMENT:**

12:08 pm Motion to adjourn Jamie Pace, 2nd by Ben Lopez – Approved by BOD
CHAIRPERSON
Benjamin Lopez
Kautex Maschinenbau GmbH
Kautexstrasse 54
Bonn, Germany 53229
Ph: 0049/170 7850887
FX: 0049/228 489 404 Cell: 517/402-6346
E-mail: benjamin.lopez@kautex-group.com

PAST CHAIRPERSON / FINANCE CHAIRPERSON
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Plastic Technology Inc.
1440 Timberwolf Drive
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Technical Center
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MARKETING CHAIRPERSON
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