



Society of Plastics Engineers

BLOW MOLDING DIVISION

Vol 2014 Edition 4

ABC 2014

Innovating, educating and sustaining the future of Blow Molding



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Deirdre Turner

The 30th Annual Blow Molding Conference in Chicago, IL was a two-day, jam-packed conference held Oct. 6th and 7th. This much anticipated event included technical-business overviews; updates to industrial and automotive materials and applications; packaging machinery advancements; extrusion blow, co-extrusion and injection blow molding technology, packaging sustainability and recycling developments, various barrier technology presentations and numerous "Plastic 101s" by leading industry experts.

A highlight of this year's event included a keynote by Peter Borowski, Head of Design, Kraft Food on "How package design and development must be integrated" and the honoring of Robert Kleckauskas, President of Arrow Plastics Manufacturing Co. with the 2014 Lifetime Achievement Award given by the SPE Blow Molding Division.

This year's Annual Blow Molded Parts Competition was very competitive. This competition was open to all blow molding businesses and the article in the newsletter provided the details.

Over 55 sponsor companies participated in the exhibits playing a key role in maintaining the success and continued growth of the event offering over 330 attendees the opportunity to meet with existing suppliers, clients and prospective customers.

The Division continues to work toward growing our membership, and gratefully acknowledges this year's conference sponsors, guest speakers and attendees.

"Chicago was great!" stated Deirdre Turner, ABC Conference Coordinator. "But I'm also looking forward to returning to Pittsburgh for ABC 2015!"

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



Chairperson's Message



The 30th Annual SPE Blow Molding Division Conference (ABC) was held in Chicago, IL in October 2014 setting another record with the number of attendees, sponsors and technical paper presenters. Over the course of two and a half days of sessions, October 5th through 7th, the Chicago Marriott O'Hare was transformed into Blow Molding Ground Zero where well over 300 industry specific participants gathered to share exciting innovations and essential market intelligence.

This event further validated how important the blow molding process is to the continuing growth and success of the plastics industry as well as the many industries supported by blow molded plastics products. On behalf of the entire Board of Directors, I'm honored to use this forum to thank each and every registrant. Without the presence of each of you, the event could not have been as successful, beneficial and informative.

This year's event was special! Not only was there a "buzz in the air" due to the genuine sharing of knowledge amongst the community, there was significant enthusiasm and respect for the Second Annual Blow Molded Parts Competition. Under the leadership of Mr. Lew Ferguson, President of Parisons Blow Molding based in New Jersey, this year's competition included a "People's Choice" award where attendees cast ballots for their entry preference in the packaging and industrial categories.

In addition to the electricity surrounding the competition was a wonderful evening complete with a strolling dinner and cocktail reception to keep the energy level high. However, in my opinion, the evening was topped by a truly motivating and touching speech by the Division's Lifetime Achievement Award Recipient, Mr. Robert Kleckauskas, President of Arrow Plastics Mfg. Co. Robert's willingness to share the history, evolution and transformation of his career in the plastics industry was certainly informative, riveting and inspiring.

With this year's ABC successfully completed, this Board turns its efforts toward **ANTEC 2015** and **ABC 2015** which will be held at the Sheraton Station Square Hotel in Pittsburgh, PA, Oct. 12th-14th.

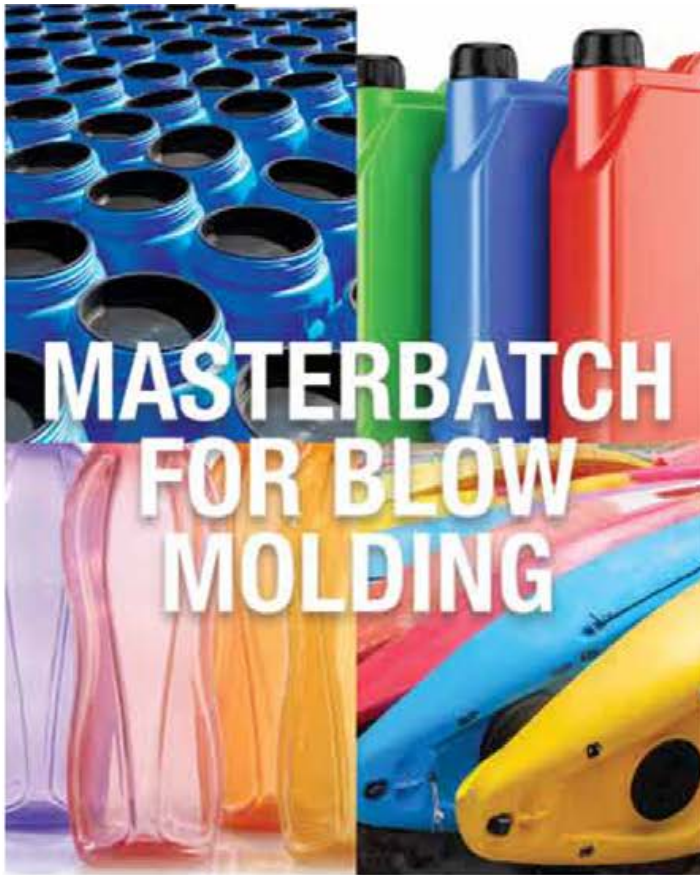
I hope that you will take a moment to consider either your continued participation in our ABC event or becoming involved. Given the hard work and unwavering support of this Board over the past several years, the events have grown in size and have almost started to challenge the physical establishments in which they are held. This year, the property was sold out and special accommodations were made so all could attend. In fact, sponsorship opportunities for Pittsburgh are already in process so if you have intentions of participating, please visit the ABC 2015 webpage at <http://www.blowmoldingdivision.org/2015-conference/> or Deirdre Turner, our Event Coordinator dturner@earthlink.net.

As we head into this year's holiday season, I wish everyone
"a joyous and safe season and a healthy and happy 2015."

Best Regards,



Jeffrey Light, Chairman
SPE Blow Molding Division



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PET bottles, flasks and an HDPE cooler take top honors in blow molding

By: **Bill Bregar**

October 23, 2014

CHICAGO — The Society of Plastics Engineers' Blow Molding Division presented awards to packaging innovations like triangular bottles, flask containers for Jack Daniels, an industrial products line, a game table and a giant ice cooler.

Judges selected winners from 14 entries, at the SPE Blow Molding Conference, held Oct. 5-7 in Chicago. This was the second annual blow molded parts competition.

Here is a recap of the awards:

Packaging

First place:

W. Amsler Equipment Inc. of Richmond Hill, Ontario, won for a set of four triangular-shaped PET bottles that nest together for efficient packaging. Retailers also save space. The bottles use recycled food-grade PET to replace PVC. The blow molder is Salboro Bottle, using a mold from V.P. Tool & Mold.



Second place:

PET Jack Daniels flask containers in four sizes, molded in a two-step process by Amcor Rigid Plastics USA Inc. at Amcor's plant in Nicholasville, KY. Hallink RSB Inc. made the molds.



Third place:

The Glassa Ponti squeezable PET bottle for cooking glazes made by Italy-based Ponti SpA, which is the blow molder. The blow molding machinery supplier is Sipa SpA. The package was converted to a squeezable, slightly oval-shaped PET bottle from a non-squeezable HDPE bottle.

Industrial

First place:

The Esky 135-quart cooler, a big HDPE cooler blow molded by Coleman Co. Inc. and designed to compete against the Yeti brand of rotationally molded coolers. It holds ice for up to two weeks. The mold maker is Hawkeye Preferred Tooling Group. Judges admired the special slides on the mold needed to make the drain at the bottom of the deep-draw part.

Second place:

From designers Ed Wu and Alex Lopex, the Buzz Ball Football game table is designed for playing the slide-triangle football game. Tackoffs were configured to

[Continued on next page](#)

offset a challenging blow area on the top of the table. An extra deep structure was designed in to overcome warping issues. The table has adjustable folding legs. A plastics designer, Wu runs 99 studio Inc. in Naperville, IL. Lopez is at Amiplex Inc. in Miami, FL. SPI Industries' blow molding plant in Coloma, MI. molds the HDPE table. The mold maker is Ram Pattern Inc. of LeClaire, IA.



Third place:

The Water Walker, a large U-shaped flotation device designed for duck hunters, fishermen and trappers to keep them safe in the water — and their guns dry. Agri-Industrial Plastics Co. in Fairfield, IA, is the molder. H&H Mold and Tooling Inc. in Fairfield made the mold.

Category Award for Industrial:

An anesthesia breather bag, a collapsible TPE reservoir used during general anesthesia or artificial ventilation. The manufacturer is Intersurgical Ltd. of Berkshire, England. FGH Systems Inc. of Denville, NJ, made the mold, and a special cutting device to trim flash from the neck without the need for a secondary post-trimming step.

Category Award for Beverage Packaging:

A 55-ounce PET wide-mouth jar molded by Amsler Equipment Inc. using two-step stretch blow molding from a parison, then spin trimmed. Two-step blow molding gives four times higher output per mold than the one-step stretch blow process, and it uses less resin because of the lighter neck finish.

Category Award for Pharmaceutical Packaging:

A Johnson & Johnson Baby Powder container that reduces cost by only using the polypropylene bottle and the cap, instead of a labeled-cap and shrink band on the bottle used previously. The new cap is flip-top for one-hand use. The blow molder is Creative Group of Industries Ltd. of Mumbai. The South Korean mold maker is Alchemy Molds & Plastic Ltd.

People's Choice

Beverage Packaging:

for the Tropicana handleware bottle blow molded from extrusion-grade PET. It sported a special two-piece closure. Graham Packaging Co. LP is the blow molder, and AptarGroup Inc. molds the preform.

Industrial:

to the parking lot block, blow molded and foam filled in the one-step FoamCore process. Pinnacle Plastic Products Inc. blow molds the polypropylene, foam-filled parking blocks from a mold made by PT Tech.

Link: <http://www.plasticsnews.com/article/20141023/NEWS/141029939>



ABC 2014



BLOW MOLDED PARTS COMPETITION

First Place – Industrial Division Award

**First Place – Industrial Category - Consumer Goods
Applications Award**

PART # and NAME:

▶ **Esky 135 Qt. Cooler**

CATEGORY:

▶ **Consumer Goods**

PART DESCRIPTION

▶ **The Coleman Esky line of coolers is the blow molded answer to the popular Yeti brand rotational molded coolers. The Esky coolers are designed and built for the most extreme outdoor conditions.**

MANUFACTURER / BLOW MOLDER:

▶ **The Coleman Company.**

MOLD MAKER / TOOLMAKER:

▶ **Hawkeye Preferred Tooling Group**

MATERIAL SUPPLIER / RESIN TYPE:

▶ **HDPE**

DESIGNER / OTHER CONTRIBUTORS:

▶ **The Coleman Company**

SUBMITTED BY: Andrew Hobson

COMPANY: Hawkeye Preferred Tooling Group

Continued on next page

FEATURES \ BENEFITS:

- ▶ **Heavy wall blow molded construction**
- ▶ **Foamed blow molded lid, composite blow molded body and thermoformed liner.**
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Industrial



Packaging



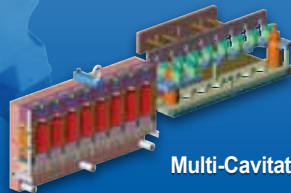
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Educational Support Activities at the 2014 Annual Blow Molding Conference

Students at the ABC

Sixteen students and faculty attended the ABC 2014 as our guests from Ferris State University, Pennsylvania College of Technology, Penn State Erie, and Pittsburg State University. The students promoted their Plastics Engineering programs at complimentary tabletops in the exhibition area. Blow Molding Division Education support funds were used to pay for the student and faculty travel expenses and registration fees.



Pennsylvania College of Technology Students



Penn State Erie Students

Scholarship Awards

Our current Carrie Fox Solin Memorial Scholarship recipients, Samuel Moore from Pittsburg State University and Bryan Robinson from Pennsylvania College of Technology were recognized at the ABC awards banquet. Dr. Lawrence Solin traveled from Philadelphia to meet the recipients.



Bryan Robinson and Sam Moore with their faculty advisors, John Bartolomucci and Paul Herring



Samuel Moore receiving his scholarship award

Since 1991, the Blow Molding Division has awarded \$254,500 in scholarships to 38 deserving undergraduate students enrolled in plastic engineering programs. The awards are targeted toward students with an interest in blow molding.

The scholarships and other educational support programs are funded with income from a \$218,000 endowment built up over the years with proceeds from our ABC sponsors and from direct corporate contributions.

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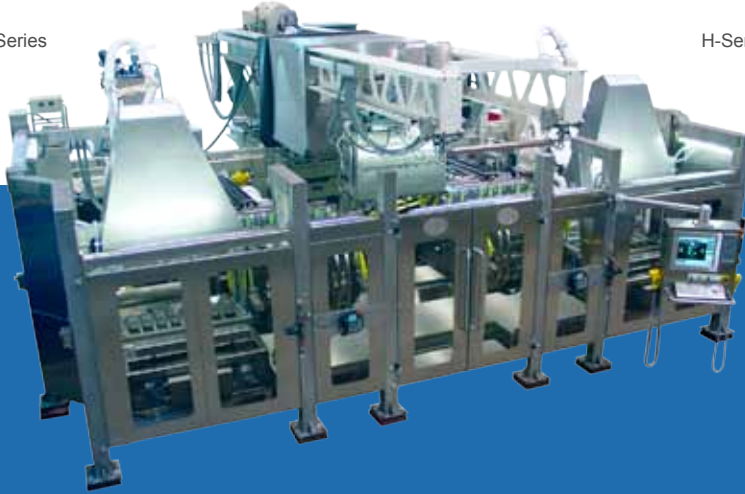
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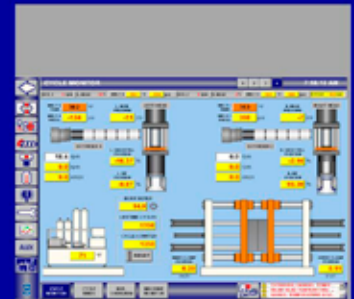


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Presented by



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Outline Day 1

- Safety
- Types of machines used
- Melting and screws
- Learn to speak HDPE
- Startup and shutdown
- Troubleshooting
- Melt fracture
- Controlling oxidation/burn
- Programming
- Tooling adjustment

Outline Day 2

- Troubleshooting continued
- Parison adjustments
- Safety features
- Start-up procedures (specific to machine)
- Tail length and bottle weight adjustment with programmer and RPM
- Cycle adjustment and effect on overflow volume

The SPE Blow Molding Division has partnered with Calhoun Community College's Workforce Solutions division to conduct blow molding technical training. The initial training program was held October 20 & 21, 2014 with attendees from Alabama, Tennessee, Missouri, and Texas. The two day course was held at Calhoun's campus in Decatur, Alabama. The equipment for the training was provided by Jackson Machinery, Wittmann Battenfeld, Inc., and Invensys Eurotherm. HDPE resin was provided by Ineos O&P, USA. David Calderone and Bob Delong developed the curriculum and were the instructors for the course.

Continued on next page

Feedback from Attendees:

“The class was excellent in terms of the subject material presented. It was very clear that both Bob and David are experts in blow molding. Moreover, they articulated the material in a manner that made it easy to comprehend.” *Peter Martin, Univation Technologies*

The next class is proposed to be held in February 2015. For more information see:
https://www.calhoun.edu/workforce_development/workforce_solutions/industrial_technologies.aspx

Blow Molding Lab



Blow Molding Classroom



The Blow Molding Division’s Continuing Education Grant Program cosponsored by Graham Engineering was used to assist attendees of this course from Cox Container and Arch Plastics Packaging. For more information on this grant program see: <http://www.blowmoldingdivision.org/scholarships-workplace-training/>



“Jeff Light, the chairman of the Blow Molding Division, receiving the SPE Pinnacle Award from Jon Ratzlaff, past SPE National President.”



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Why Should You Become a Division Sponsor?

- Sponsorship provides educational grants to students—the next generation of blow molding professionals and provides support to attend the Annual Blow Molding Conferences.
- As a sponsor, you highlight your company's profile at the ABC while supporting the Division.
- Sponsors help recruit new members to the Division and support the Annual Blow Molding Conference.



What's In It for You?

- You will increase exposure and brand awareness by showcasing your company's products and services.
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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
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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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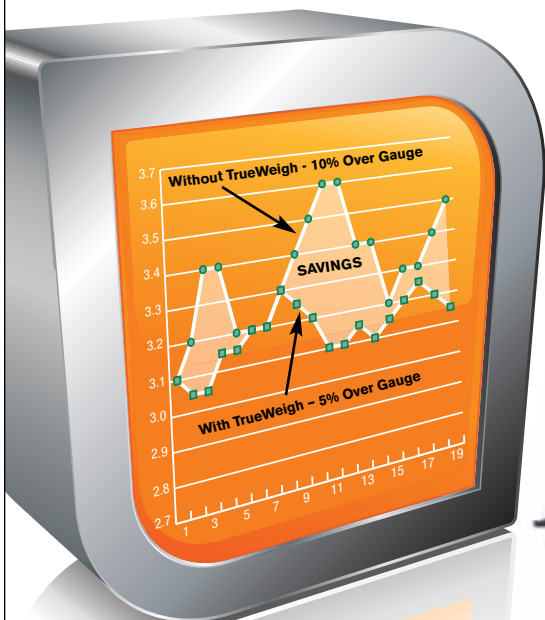


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past proceedings of the
Annual Blowmolding
Conferences at:

<http://www.4spe.org/pfn>
user name: ABC Guest
password: plastics

CREATIVE

BLOW MOLD TOOLING

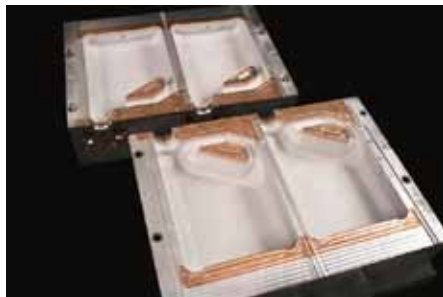
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Committee Meetings October 5, 2014

Executive Committee (met from 7:00 –8:00 am)

Attendees: Jeff Light, Ben Lopez, Dr. Geoff Ward, Jamie Pace, Cal Becker, Gary Carr, Terry Glass, Mark Heitker and Dr. Surendra Agarwal. Excused Scott Steele

Topics Discussed:

- SPE National visitors at the ABC2014.
- External financial auditing discussed, Terry will update if a Tax attorney is needed
- Reviewed Board Status for 2014 – 2015 and discussed attendance at past and upcoming meetings.
- Jeff reminded us all the importance of meeting attendance and of our attendance policy
- Discussed the need to increase the grant fund and student travel budget. Agreed to increase and discuss at the BOD meeting.
- Gary Carr informed the board that he is stepping down as the Marketing Chair with George Rollend and Brian Spence taking the position as the Marketing co-chairs.
- Reviewed Deirdre Turner's contract that expires after ABC 2014. The executive board unanimously supported renewing the contract.
- Briefly discussed why our ABC is successful and continues educational growth efforts!

Board of Director's General Session Meeting October 5, 2014

Call to order at 10:00 am

BOD Members present: Jeff Light, Terry Glass, Ben Lopez, Gary Carr, Dr. Geoff Ward, John Rathman, Randy Moynihan, Lew Ferguson, George Hurden, George Rollend, Jamie Pace, Mark Heitker, Cal Becker, Dr Surendra Agarwal, George Hurden, Dale Klaus, Mohammad Usman, Ron Puvak, John Sugden, David Calderone, Gerry Hobson, Bob Delong, Mike Hall, Bob Jackson, David Hayward, Brian Spence, Bob Delong (Emeritus), Jonathan Meckley (Active Member).

BOD Members Excused: Piaras de Cléir, Don Peters, Scott Steele, Ken Carter and Henry Vogel

Board Candidate Visitors: Don Maines, Rama Etekallapalli

SPE National Visitors: Vijay Boolani, SPE President; Dick Cameron, SPE President elect and Sue Wojnicki, SPE National Manager Events.

Introductions & Welcome to the BOD – Jeff Light

1. Welcome all Board Members
2. Reviewed SPE Meeting Anti-Trust Guidelines
3. Welcomed board candidates and SPE National Visitors

Communication

1. Winter Meeting Planned

The meetings will be held Tuesday February 17th starting @ 8AM ExCom , 9AM for committee meetings, breakfast from 7 to 9 AM and will conclude Wednesday the 18th at 3:30PM. At the request of many, Committee meetings are scheduled to last until 2PM, with working lunches followed by committee reports, Board dinner, etc. We'll pick-up Wednesday AM with a heavy dose of ABC 2015 planning, lunch, then the general session.

Location - The Westin Tampa Bay, 7627 W Courtney Campbell Cswy, Tampa, FL 33607, Phone: (813) 281-0000. Here is the link to book the discounted room rates.

<https://www.starwoodmeeting.com/Book/blowmolding>

2. Photographs from the ABC 2014 are available on line
<https://sped30abc2014.shutterfly.com/>

Review of last Meeting Minutes & Action Items – Cal Becker

1. Approved Minutes from ANTEC, reviewed and updated action item list, plus updated roster.
A motion to approve the BOD ANTEC 2014 meeting minutes with no revisions by Jamie Pace, 2nd Surendra Agarwal, approved by BOD majority.

SPE National Attendance and Communication -Vijay Boolani, Dick Cameron, & Sue Wojnicki

1. Discussed the following topics:
2. SPE vs SPI
3. The updated website: <http://www.4spe.org/>
4. SPE National outlined the tactical steps to reaching our strategies for SPE globally. (follow up info)

Continued on next page

The following Project Stage Scale was used to evaluate the state of each project:

Project Stages are:

- (1) Formative Thinking
- (2) Planning & Developing
- (3) Implementing
- (4) Validating
- (5) Maintaining

An evaluation of each of the strategies toward sustainability took place and is depicted in front of each criterion in parenthesis.

Expand the Use of Technology

- Upgrade to a more capable & flexible AMS (5)
- Rebuild Website from the Ground Up (5)
- Introduce APPs (5)
- Create Private Networking Platform (3)
- Integrate Mobility Across All Systems (3)

Expand the Brand

- Revitalize Image (Logo, PE Mag, Website) (5)
- Expand Conferences Globally (4)
- Marketing Videos (4)
- Private Network for People in Plastics (3)
- Create New Affiliate Groups (3)

Build Partnerships

- SPI (5)
- Plastics News Europe (2)
- Plastics Europe (2)
- GPCA (2)
- Others (1)

Address Generation Gaps

- Revitalize Image (Logo, PE Mag, website) (5)
- Integrate Mobility across All Systems (3)
- Private Network for People in Plastics (3)
- Student Activity Board (3)
- Next Generation Advisory Board (3)

Develop and Share Resources

- Expand the use of shared resources (3)
- Centralize all content (3)
- Create searchable technical database (3)
- Cross functional & tech savvy staff (3)

Alternative Revenue

- Advertisement Website (3)
- Advertisement The Chain (3)
- Additional (ANTEC) conferences (4)
- Other (1)

Member Engagement

- Phone call campaign (1)

- **ABC 2014 TPC and Marketing Review/Report- Gary Carr, George Rollend and Dr. Surendra Agarwal**
 1. Reviewed the updated TPC and Marketing report
 2. Gary Carr is stepping down as Marketing Chair and will be replaced by Co Chair George Rollend and BrianSpence. Thank you Gary for years of effort leading our growth and promoting SPE Blow molding!
- **Treasurers report – Terry Glass**
 - Updates approved by electronic board vote
- **Councilor’s report – Scott Steele (Supplied prior to mtg)**

Continued on next page

❑ **Education Committee – Dr. Geoff Ward**

Education Committee Discussions

1. Discussed Scholarship Participants
2. Requested help with 2015 student design competition
3. Updated status of the 2014 student design application review
4. GEC continuing education Grants available for Calhoun College – 4 grants available

Colhoun College Update

Training Program 10/20, 10/21 complete, Jackson Machinery donated a B13 and auxiliary equipment, Ineos supplied HDPE. Kautex is planning to donate a BC5 simulator.
Note Colhoun College is the first college in Alabama to have a Blow mold plastics program.
Next step is a 3 day training program.

Motions:

- 1) Motion to increase Graham Engineering Corporation Continuing Education grants from \$500 up to \$ 600 by George Hurden and 2nd by John Sugden approved by all BOD.
- 2) Motion to increase student travel budget by \$2000 from \$6000 to \$8000 by David Hayward and 2nd by Brian Spence approved by all BOD.

❑ **Awards Sub Committee – John Rathman**

1. 2014 Lifetime achievement award to Robert Kleckauskas, President of Illinois Bottle
2. Need 2015 suggestions for Lifetime Achievement Award
3. No SPE D30 HSM or Fellow awards this year request nominations for the upcoming 2015 year.

❑ **Parts Competition Sub Committee – Lew Ferguson**

1. The second annual blow molded parts competition was well received!
2. Discussed the need to continue to grow this program

❑ **New Business**

Desire to have Technical Articles for Newsletters
Cal Becker to submit a draft of action Items to Board
Many Thanks to those that helped to make 2014 ABC a success!

❑ **ADJOURNMENT:**

10/5/2014 Noon Motion to adjourn by Jeff Light, 2nd by Gary Carr – Approved by BOD



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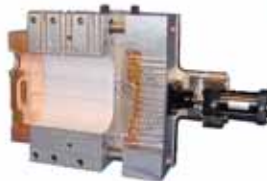
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Contributions to the Blow Molding Division Education Committee

Kautex Maschinenbau

contributed \$4000 to our general education fund

ALPLA

contributed \$4000 to our general education fund

Graham Engineering Corporation

contributed \$2000 for the Continuing Education Grant Program

CKS Packaging

contributed \$1000 to our general education fund

Nissei ASB

contributed \$1000 to our general education fund

W. Muller

contributed \$500 to our general education fund

Agri-Industrial Plastics Company

contributed \$500 to our general education fund

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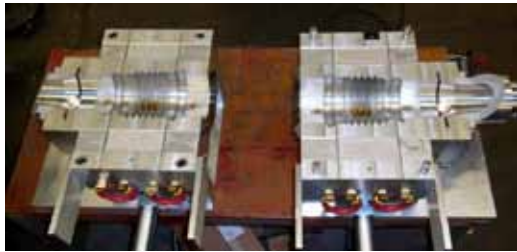
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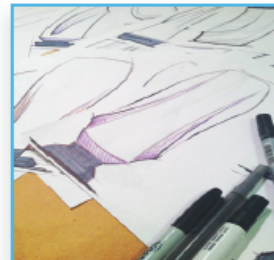
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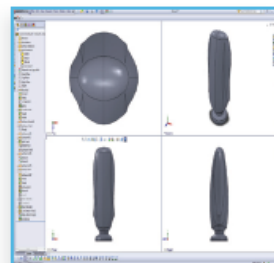
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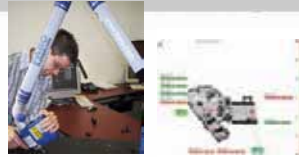


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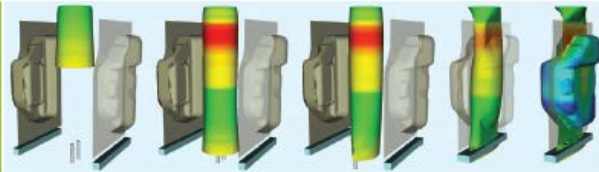
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