



Society of Plastics Engineers

BLOW MOLDING DIVISION

Vol 2016 Edition 4

ABC 2016 - Looking Forward with a Global Perspective

The 32nd Annual Blow Molding Conference in Atlanta, GA was a two-day, jam-packed conference held Oct. 3rd to the 5th. This 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.

The Crowne Plaza Atlanta Perimeter at Ravinia, was full of not only attendees but technology, networking opportunities and topical presentations but we also got a great insight on an industry legend Charles K. Sewell.

A highlight of this year's event included a keynote by Scott Collick, The Dow Chemical Company "7 Steps To Your Next Innovation - a winning strategy for innovation". We also learned about the next generation "Millennials - What's Going on in There?" with a panel discussion comprised of millennials just entering the workforce.

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

Over 55 sponsor companies participated in the exhibits playing a key role in maintaining the success and continued growth of the event. This function offered 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. "Atlanta was great!" stated Deirdre Turner, ABC Conference Coordinator, "But I'm also looking forward to returning to Chicago for ABC 2017!"



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PE and ethylene price momentum fades in 4Q

by David Barry and Kathy Hall, editors at PetroChem Wire

This year's September PE price increase that took many market watchers by surprise was propelled by near-record domestic sales in 3Q and a series of production outages that tightened the market. Domestic sales for 3Q averaged 2.72 billion lbs/month, according to industry data compiled by the ACC. That compares with 2.64 billion lbs/month during the first half of the year, and 2.54 billion lbs/month during 3Q 2015.

At the same time, feedstock ethylene prices ran up from the mid-20s cpp range in July to above 40 cpp by mid-September, a price level not seen since late 2014. The run-up was fueled by fears of a supply shortage during a time of strong PE demand. As the market waited for maintenance turnarounds to end in August at one of Westlake's ethylene units at Lake Charles and at Equistar's Corpus Christi ethylene plant, unplanned outages struck ethylene units at ExxonMobil's Beaumont and Baton Rouge sites, Dow at Freeport, Chevron Phillips at Cedar Bayou and the BASF/TOTAL unit at Port Arthur. The Equistar unit, which includes a major ethylene expansion, continued to experience challenges during its work and the plant was not restarted until the last week of November. In the meanwhile, Chevron Phillips began a maintenance turnaround at its Cedar Bayou ethylene unit.

However, the PE market's third-quarter hot streak has been replaced by a 4Q chill. PE dropped off considerably in October, and buyers appeared on no hurry to place orders in November. As a result spot prices dropped, especially for the more volatile wide spec and export sales channels. As of mid-November, wide spec HDPE frac melt suitable for non-pressure pipe was down 13-14 cpp from the peak in late September, while generic prime HDPE BM HIC resale prices were down a more modest 5 cpp, according to PetroChem Wire assessments. The Houston railcar market for HDPE BM exports has fallen 6-8 cpp from the low 50s cpp. Suppliers will aim to end 2016 with low inventories, hoping for maintenance outages and rebounding demand to provide a price recovery in 1H 2017.

Similarly, as the ethylene plants returned to service one by one, prices dropped considerably, reaching 22 cpp by mid-November. As PE demand cooled, ethylene remained unable to get back above 25 cpp and was heading into December trading around 23-24 cpp. With costs for ethylene's own feedstocks (ethane and propane) spending much of 3Q in the 15-20 cpg range for ethane (an equivalent of just 7-9 cpp) and 42-48 cpg for propane (an equivalent of 9-12 cpp), ethylene remained profitable despite its own freefall.

Looming large over the 2017 market outlook are a handful of new ethylene and PE plants poised to come online, with impacts likely to be most felt during the second half of the year. Nova's 1 billion lbs/yr LLDPE butene plant in western Canada will shake up the film markets after it hits its stride, probably in January 2017. Then comes Ineos-Sasol's Gemini joint venture HDPE plant, and a cluster of mid-year expansion startups at Chevron Phillips (Old Ocean, TX), ExxonMobil (Mont Belvieu, TX) and Dow (Freeport, TX and Plaquemine, LA). Taken together, these projects represent 9.2 billion lbs/yr of annual PE production, or 766 million lbs/month that North American producers will have to sell. Of course, the usual caveats apply: PE units take months to commission and ramp up to commercial operations, and upstream cracker startup delays could limit how quickly the PE expansions achieve full production.

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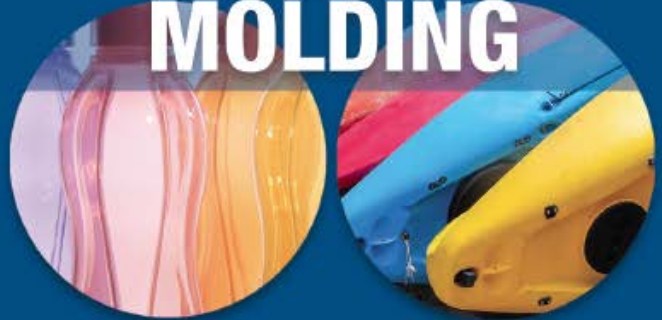
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Pennsylvania College of Technology Students with their Faculty Advisor



Student Design Contest Winners and 2016 Scholarship Recipient

The SPE Blow Molding Division is proud to announce the
2016 Lifetime Achievement Award Recipient
Robert Jackson
President of Jackson Machinery, Inc.

The Blow Molding Division's Lifetime Achievement Award, the Division's highest award, is bestowed upon an individual who has demonstrated outstanding achievements and contributions to the business, science and technical engineering aspects in the field of blow molding.

The awardee is selected by the Blow Molding Division's Board of Directors from nominees sponsored by the members of the Society of Plastics Engineers.

In 1968, Bob began working for Peninsular Machinery in Detroit, MI. Peninsular sold metal working tools and plastic processing equipment in the outstate region of Michigan.

Bob joined the society of Plastic Engineers, (which by the way was founded in Detroit, MI) and in 1970 began going through the chairs of the mid Michigan Chapter of the SPE and later became president.



Bob attended General Motors Institute for plastic processing and subsequently went to work for the Beloit Corp., Plastic Machinery division, as the Product Manager for structural foam. He later became lead salesman for their injection molding group and managed to garner the largest single order for Beloit from Fisher Body.

Bob then moved on to become the youngest sales manager in the US for Farrel Injection molding machines. Two of his men were competing for the number one position in 1978. One of the men was covering GM the other Ford. The GM guy was going to win for sure. He had booked 14 million dollars. The other fellow who was normally number 1 or 2 stopped in Bob's office and said not to worry, I got it in the bag. Two weeks later he booked Farrels largest single order for 15.1 million dollars.

Shortly thereafter Bob decided to become an entrepreneur and get out of the plastic industry. This adventure lasted about one year and Bob returned to Hayssen Manufacturing as the Plastic Machinery Blow Molding Manager. At this point he joined the Blow Molding Division of the SPE and went through the chairs and became president.

In 1986 Bob started Jackson Machinery, Inc. (JMI) in Port Washington, Wisconsin and for the next 30 years JMI manufactured new blow molding machinery, building large accumulator head machines called Fleximatics, and smaller bottle machines called versa-matics. As well as refurbishing used blow molding machines. They build special designs for thermo set blow molders and specialty products as necessary, including one of the first electric machines in the industry. JMI continues to innovate and recently has designed and built an 11 foot tall extremely large platen machine for kayaks.

JMI continues to grow and has become the exclusive North American agent for Hesta Blow Molding Machines, including both electric and hydraulic blowmolding machines to complete in today's market.

Bob is a member of:

- Society of Plastic Engineers (received the SPE Honored Service Award)
- Society of the Plastic Industry
- Plastic Pioneers Association

SPE Blow Molding Division 2016 Scholarship Award

Seth Cook has been awarded the SPE Blow Molding Division's 2016 Carrie Fox Solin Memorial Scholarship in the amount of \$3000. He was chosen for this award by the division's scholarship selection committee based on his outstanding record of academic and extracurricular achievements.

Seth is a senior at the Pennsylvania College of Technology in Williamsport, PA where he has a 4.0 GPA. He expects to graduate in May 2017 with a BS in Plastics and Polymers Engineering Technology and a minor in Mathematics. He previously earned an Associate's degree in Plastics and Polymers Technology at Penn College.

During the past two summers, he interned at Key Plastics and York Imperial Plastics. Seth also serves as a mentor for freshmen in the plastics program at Penn College. Upon graduation, Seth plans to obtain a job in the plastics field where he can improve upon processing methods and, therefore, produce higher levels of automation. Upon notification of his scholarship award, he replied "My success is a product of my own hard work combined with the help of my family, friends, teachers, co-workers, and those who so generously have supported me at SPE. I sincerely thank these parties for their continued support and, hopefully, one day I will be in a position to return the favors that I have received."



The Society of Plastics Engineers is an organization dedicated to promoting the scientific and educational aspects of the plastics engineering profession, and the Blow Molding Division provides a forum for the promotion and dissemination of information relating to blow molding technology.

The Blow Molding Division of the Society of Plastics Engineers awards its annual Memorial Scholarship(s) to selected students enrolled in plastics engineering programs. Since inception of the scholarship program, the SPE Blow Molding Division has awarded \$263,500 to 40 students enrolled in programs that include curriculum pertaining to blow molding. Seth is the 4th Penn College of Technology student to receive a SPE Blow Molding Division scholarship.

The Blow Molding Division's scholarships and other educational support programs are funded with the income from a \$216,000 Grant Fund endowment that has grown over time with the support of the division's sponsors.

The value of the division's scholarships is up to \$6,000. Funds are distributed in two disbursements over a two-year period, usually during the junior and senior terms. If the recipient is a senior, a \$3000 award is made. The award recipients are recognized at the SPE Annual Blow Molding Conference (ABC). A travel allowance is provided.

Qualifications for the scholarship are as follows:

- 1. The student must be enrolled full-time in a degreed undergraduate Plastics Engineering program.*
- 2. The student should be completing the 2nd year of a four-year program.*
- 3. The student will have at least a 2.5 overall grade-point average (4.0 scale).*
- 4. The student must be a member of an SPE Student Chapter.*
- 5. The applicant will submit a brief essay with their application describing the importance of blow molding to the technical parts and packaging industry.*

We seek students who plan to make a career in plastics engineering (a sincere interest in the Blow Molding industry is a plus). We request that qualifying students submit an application by following the instructions and completing the appropriate forms for the Blow Molding Division Memorial Scholarships at the SPE Foundation website.

See our website for additional information. <http://www.blowmoldingdivision.org/scholarships/>

ABC 2016

4th Annual Blow Molded Parts Competition

ThermaSet PET Pasta Sauce Jars



Food Category – First Place
Packaging Division – First Place
People's Choice Packaging Category
Submitted by: Mark Schneider, David Brooks,
Graham Packaging Company.
Blow Molder: Graham Packaging Company

Clasper TM Bottle



Beverage Category – First Place
Packaging Division – Second Place
Submitted by: Scott Steele/Alex Gardner,
Plastic Technologies, Inc./Zenith Beverages LLC
Blow Molder: Plastic Technologies, Inc.

Windigo Sign Base and Frame



Industrial Other Category – First Place
Industrial Division – Second Place
People's Choice Industrial Category
Submitted by: Geoff Ward, Agri-Industrial Plastics Co.
Blow Molder: Agri-Industrial Plastics Company

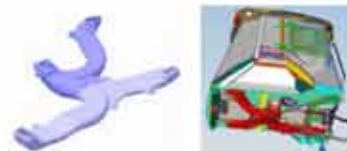


Pharmaceutical Category – First Place
Packaging Division – Second Place
Submitted by: Eric Hohmann, FGH Systems
Blow Molder: FGH Systems

WD-40 Trigger 24oz.



Packaging Other – First Place
Packaging Division – Third Place
Submitted by: Rusty Heise, Heise Industries, Inc.
Blow Molder: Heise Industries, Inc.



Industrial Auto/Transportation Category - First Place
Industrial Division – First Place
Submitted by: Kenneth Carter, John Deere
Blow Molder: Gemini Group, Regency Plastics

Under Floor Insulated HVAC Duct (Backhoe)

ABC 2016

4th Annual Blow Molding Parts Competition

200ml IBM Bottle



Food Category – Second Place

Submitted by: Surendra Agarwal,
Creative Group of Industries

Blow Molder: Creative Group of Industries

Dura-Lite™ Dairy Gallon



Beverage Category – Second Place

Submitted by: John Manderfield,
Consolidated Container Company

Blow Molder: CCC & Milacron

325ml/11oz Pop & Bottle
Cold Brew Coffee



Beverage Category – Third Place

Submitted by: Heidi Amsler
Amsler Equipment, Inc.

Blow Molder: Salbro Bottle

25 oz. Seventh Generation PET Dish Liquid



Packaging Other Category – Second Place

Submitted by: John Manderfield, Studio PKG

Blow Molder: Consolidated Container Company

500 Gram White Star
Colonial Whiskey Distilling Yeast



Packaging Other Category – Third Place

Submitted by: Heidi Amsler, Amsler Equipment, Inc.

Blow Molder: Salbro Bottle

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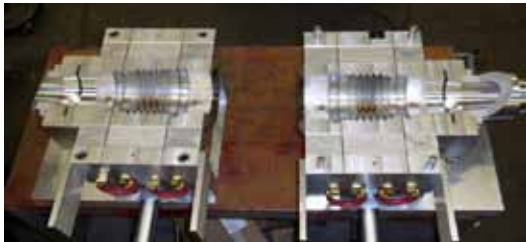


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Division Education & Training Benefits			
Recognition of sponsor support for Division objectives for student education and assistance and training initiatives	✓	✓	✓
 ABC 2017 Conference Benefits			
Recognition as an ABC 2017 Conference Sponsor with prominent signage at event	✓	✓	✓
One tabletop exhibit space in ABC 2017 Conference Exhibits (\$900 value)		✓	✓
Includes full conference registrations to ABC 2017 (valued at \$600 per registration)	4	3	2
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Conference Sponsor will select a hospitality option (i.e. breaks, breakfast, luncheon, etc.) and will be provided with "Sponsored by" signage and display table placed at selected hospitality option for duration that option.	✓		
Conference Sponsor will be provided with 5-minute speaking opportunity* at the conclusion of the first General Session on the Day One of the ABC and will receive recognition from the Division chair at the beginning of the General Session. *Talking points to be approved by the conference co-chairs or Division chair.	✓		



2017 BLOW MOLDING DIVISION SPONSOR FORM

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Do you wish to Exhibit at the 2017 Annual Blow Molding Conference? YES

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33rd Annual Blow Molding Conference and Exhibits

October 2-4, 2017

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33rd Annual Blow Molding Conference and Exhibits
October 2-4, 2017

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Inside Grand Ballroom

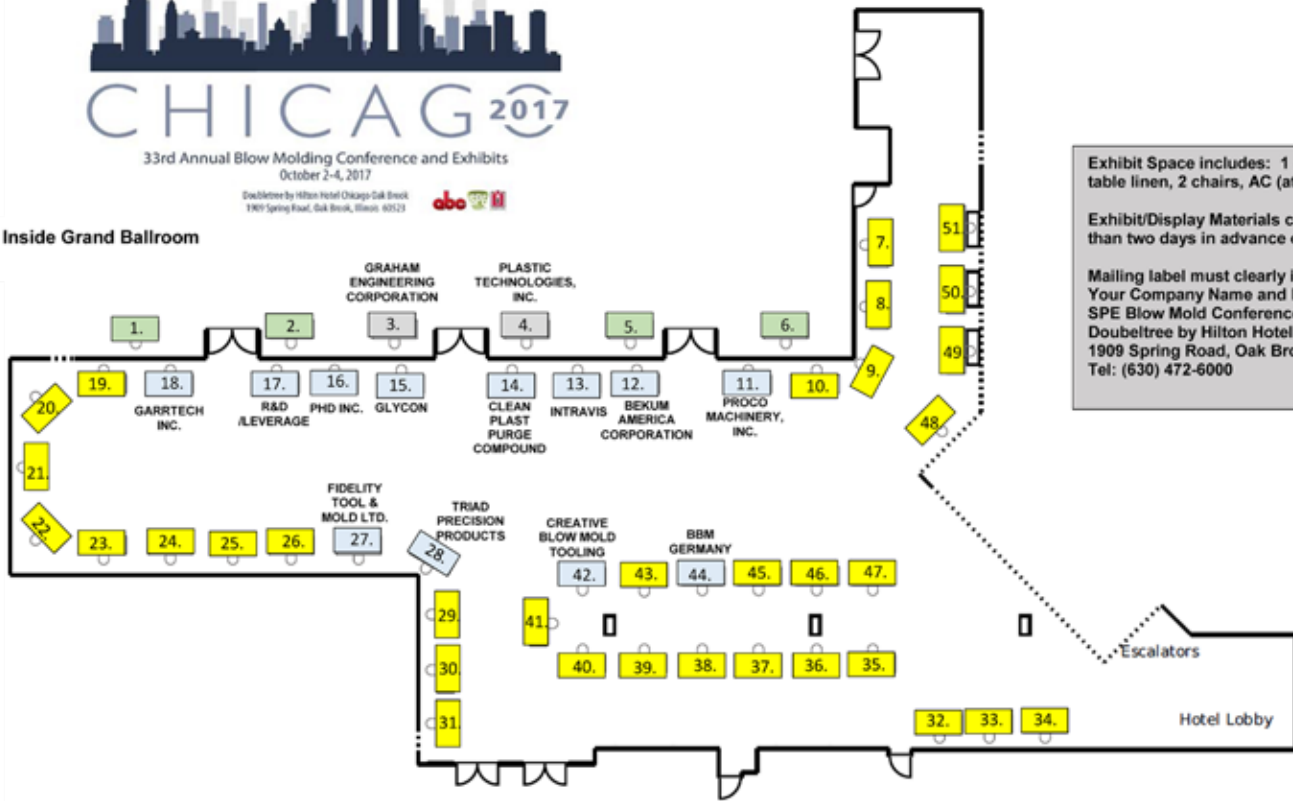


Exhibit Space includes: 1 - six foot table; skirted w/ table linen, 2 chairs, AC (at exhibitor's request).

Exhibit/Display Materials can be shipped no more than two days in advance of event.

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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 \$600 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 \$600 will be the responsibility of the employee or employer.

How to enroll:

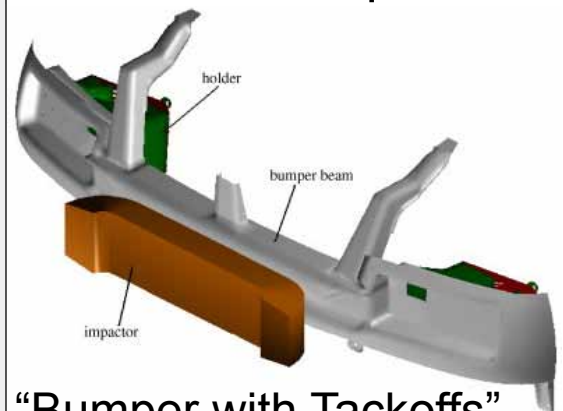
1. Submit a request to the Blow Molding Division at the following address:
Agri Industrial Plastics
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Fairfield, IA 52556
geoff.ward@aipcompany.com
2. Include a letter of support from your company.
3. You will be notified of acceptance before the event that you wish to attend.

2016 Student Design Contest Winners

First Place Winner: Lindsey Gatesman, from Knox, PA, is a senior studying Plastics Engineering Technology at Penn State Erie - The Behrend College. She is currently a member of Tau Alpha Pi, the national honor society for engineering technology, and was a member of Lambda Sigma National Honor Society for sophomores. In addition to her education, she has had two consecutive internships at TE Connectivity in Winston-Salem, NC, where she worked alongside mold engineers and their quoting team. In her free time, Lindsey enjoys painting, camping and exploring the outdoors. She intends to graduate in May with a Bachelor of Science degree in Plastic Engineering Technology and pursue a career in the field.



1st Place - \$1000



“Bumper with Tackoffs”

Second Place Winner: Casey Baran

My name is Casey Baran. I grew up 15 minutes outside of Pittsburgh, Pennsylvania. I am currently a senior at Penn State Behrend studying Plastics Engineering Technology. I will graduate this coming December. In addition to my coursework, I have completed one co-op and two internships. My first experience was at Thogus Products Company in Avon Lake, OH as a process engineer co-op. The following summer, I spent at Comar, Inc. in Buena, NJ as a process engineer intern. My most recent summer was spent at Apple, Inc. in Cupertino, CA as plastic tooling engineer intern. I look forward to the challenges that the plastics industry has in store for me upon graduation.



2nd Place - \$750



“Cornhole Board”

[Continued on next page](#)

Third Place Winners:

Charles Buckley

Charles is from Orlando and is a senior at the University of Florida. He is currently pursuing a Bachelor's degree in Biological Engineering with a specialization in Packaging Engineering and a minor in Sales Engineering. He spent the last summer working as an intern at Packaging Corporation of America, where he was trained in the process of designing corrugated box solutions for companies such as Driscoll and Florida's Natural. He hopes to graduate in 2017 and begin working in the plastics industry where he can apply his knowledge and interest in packaging solutions.



Bryce Reeves

Bryce is a fourth year Chemical Engineering student at the University of Florida pursuing a minor in Packaging Science. He is a member of the UF Packaging Club and the UF chapter for the American Institute of Chemical Engineers. He previously worked as an Undergraduate Researcher in the UF Organic Chemistry department, and spent a summer studying abroad in Hong Kong. He currently works as a chemistry tutor at the High School and Collegiate level.



3rd Place - \$500



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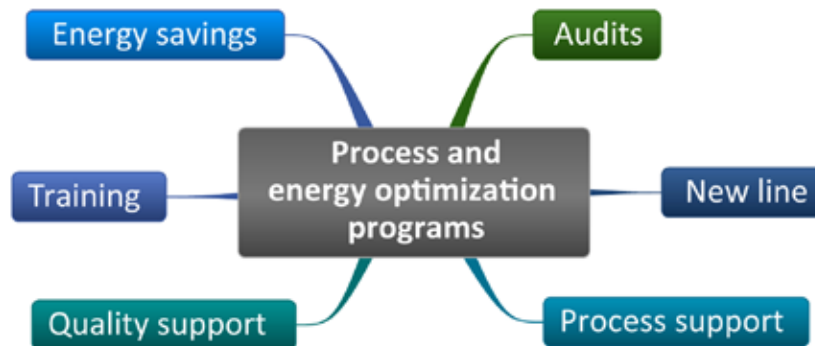
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**Board of Directors Meeting held at:
ABC2016 Conference
Crowne Plaza Atlanta Perimeter at Ravinia**

Group Meetings 8:00-9:30 AM; October 3rd, 2016

- ❑ **Knowledge & Technology Group Meeting.**
- ❑ **Industry Engagement Group Meeting.**
- ❑ **Communication & Networking Group Meeting.**

Board of Director's General Session Meeting October 3rd, 2016

- ❑ **Call to order at 9:30 am**

BOD Members Present:

Jeff Light, Ben Lopez, Gary Carr, Geoff Ward, Scott Steele, David Hayward, George Hurden, Jamie Pace, Cal Becker, Mark Heitker, John Rathman, Henry Vogel, Ron Puvak, John Sugden, Randy Moynihan, Bob Jackson, John Headrick, Don Maines, Rama Etekallapalli, Dale Klaus, Lew Ferguson and George Rollend

BOD Members Not Present:

Brian Spence, Kathy Birchmeier, Surendra Agarwal, Piaras de Cléir, ABM Rashid, Mohammad Usman, Ken Carter

Board Candidates / Visitors:

Deirdre Turner - Program Coordinator, Dave Brooks, Todd Hogan & Tom Van Pernis

- ❑ **Introductions & Welcome to the BOD – Jamie Pace**
 1. Welcome all Board Members
 2. Reviewed SPE Meeting Anti-Trust Guidelines
 3. Roll Call
- ❑ **ABC walk through – Prepared by Ron Puvak**
- ❑ **Knowledge & Technology Group (KTG) - Prepared by David Hayward**
 1. Discussed development of an Education Program.
 2. Explained Survey (101's handout & all attendees Survey Monkey).
 3. Discussed using scholarship funds for assistance with future internship program.
 4. Recommends discontinuing this grant program and re-allocating funds to other/future programs.
 5. Recommends continuing this School Grant Fund.
 6. Donna Bass communicated that Calhoun College is interested in continuing the Blow Molding course, more discussion to follow.
 7. Recommends transferring the LTA, Fellow and Honored Service Awards to CNG.
 8. Recommends that the Student Awards remain with Group.
- ❑ **Industry Engagement Group (IEG) - Prepared by Henry Vogel**
 1. Discussed holding a BOD Meeting at a participating College or university.
 2. Discussed developing a standard proficiency testing for grading of Blow Molding Technicians.
 3. Discussed development of a job fair for new grads, vocational tech students and plastics engineering students to meet potential employers at the next ABC conference.
- ❑ **Communication & Networking Group (CNG) - Prepared by George Rollend**
 1. Discussed Newsletter Re-Invention. Converting PDF format Newsletter to Print Technical Journal.
 2. Reviewed the cost of print version.
 3. A Motion to approve the funding of the new Technical Journal was made by Bob Jackson, 2nd by Henry Vogel, unanimous approval by Board majority.
- ❑ **Treasurers report – Prepared by John Headrick**
 1. Switching accounting from July 1st – June 30th to Calendar year, with stub year filing to be done this year.
 2. A Motion to approve the treasury report was made by Bob Jackson, 2nd by John Rathman, unanimous approval by Board majority.

[Continued on next page](#)

□ **Action Items**

1. Possible Spring/Summer BOD meeting at a College.
2. Proficiency testing, collaboration of IEG & KTG.
3. Job Fair, ABC2017.
4. Technical Journal content and printing.
5. Addition of Outstanding Board member Award.
6. Organization chart updated.
7. Election Slate updated.
8. Policy manual to be updated by End of Year.

□ **BOD Agenda / Motions**

1. A Motion to accept the minutes of the last meeting was made by Mark Heitker, 2nd by David Hayward, unanimous approval by Board majority.
2. Director commitment of 3 more years; Gary Carr, yes. Need to confirm with Piaras de Cléir, Ken Carter & Surendra Agarwal.
3. Lewis Ferguson declined the conversion to be an Emeritus member but to remain a full Board member.
4. A Motion to adjourn meeting made by Jamie Pace, 2nd by Bob Jackson, unanimous approval by Board majority

Board of Director's Public Meeting October 4th, 2016

□ **Welcome to the BOD & public at large – Jamie Pace**

1. Opened meeting 8:30 AM
2. Closed meeting 10:15 AM

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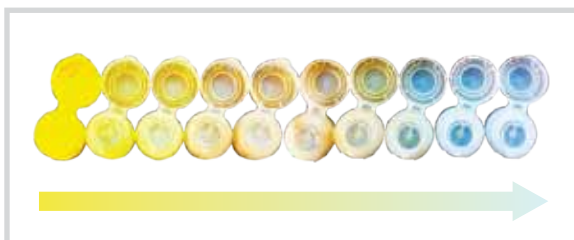
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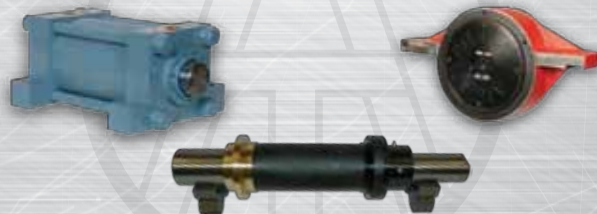
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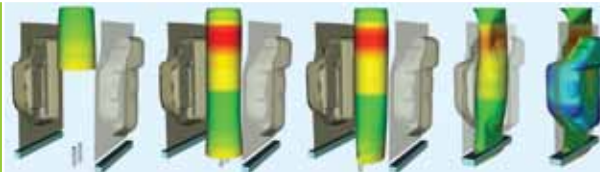


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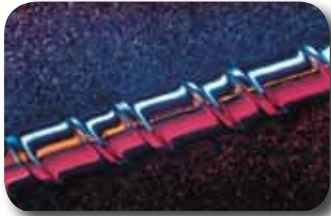
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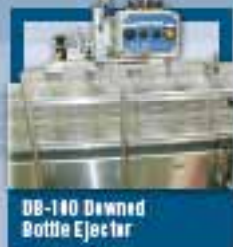
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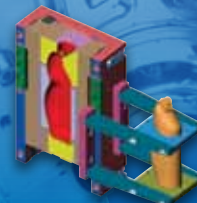
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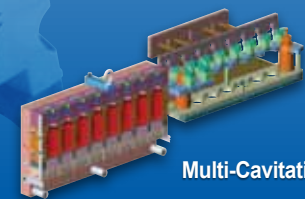
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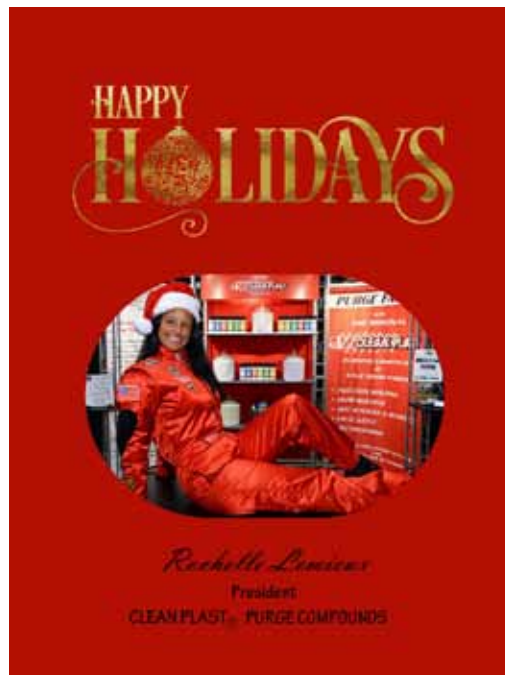


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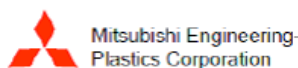
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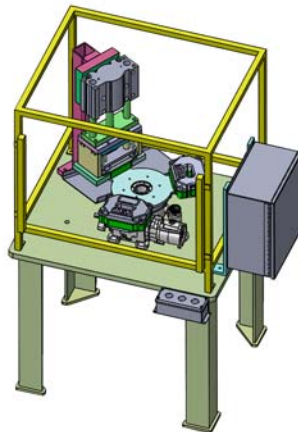


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