



SOCIETY OF PLASTICS ENGINEERS

BLOW MOLDING DIVISION

Vol 2014 Edition 3

2013 Lifetime Achievement Award Recipient

Robert Kleckauskas President of Arrow Plastics Mfg. Co.



Robert is a graduate of the Chicago Technical College with a Bachelor of Science in Mechanical Engineering.

In 1968 he joined the Walgreen organization as a plant engineer working in their manufacturing plant making and packaging private label drugs and cosmetics.

In 1969, at the age of 26, he was given the opportunity to setup and run a blow molding and injection molding operation. That year he attended seminars, plant tours and various courses to learn plastics. Prior to this, he had no formal plastics training. The same year, he purchased 3 blow molders and 2 injection machines, hired machine operators and began molding containers in 1970.

By 1977 the company was operating 7 days a week, 24 hours a day with four shifts of people. Arrow Plastic Mfg. Co. was one of his early customers. Later Robert joined Arrow as a Manufacturing Vice President giving him a unique opportunity to run a privately held company and everything that comes with that responsibility.

In 1990, Robert became the company president. In 1999, he purchased the company with 2 partners. Today his company employs about 300 people and currently operates 21 blow molders and 30 injection molders. The company is continuously expanding their line of houseware products as well as doing custom injection and blow molding.

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30th Annual Blow Molding Conference
October 6-7, 2014
Chicago Marriott O'Hare
8535 West Higgins Road, Chicago, IL 60631

Keynote Speaker:

How Package Design and Development Must be Integrated
Peter Borowski, Head of Design, Kraft Foods

Plenary Session Speakers:

Blow Molding Resin Markets and the Impact of Shale Gas
Joel Morales, Director of Polyolefins for North America, IHS Chemical

How Blow Molding Companies Can Capitalize on U.S. and European Patent Law Changes
Harold Fullmer, Patent Lawyer, Woodcock Washburn

Navigating the Intersection of Regional Blow Molders and Private Equity
Ross Bushnell, President, Convergence Packaging, Adam Piatkowski, Managing Principal, Graham Partners

R&D Tax Credits:

Tax Savings for Innovation
Michael Devereux, II, CPA, Mueller Prost PC

Featured Presentations Offered: (Packaging, Industrial and Materials)

When Density Challenges Downgaging – New Technology for EBM
Dr. Frédéric Dreux, Packaging Materials Technology Manager, Unilever

High Density Foam Reductions
Ken Carter, John Deere

Recent Advances in Design and Manufacturing of Automotive Fuel Systems to Meet LEV III Requirements
Dr. Mohammad Usman, Manager, PowerTrain Installations (PTI) – CAE and Materials, Syed Ahmad, CAE Product Development Engineer, Ford Motor Company

Tropicana ePET: A Journey to Clear Handleware Packaging
Nicole Green, Sr. Manager, Packaging Brand Stewardship/Lab Services, PepsiCo

Use of FEA and other Simulation Tools for the Design of Packaging
Ron McFarlane, Principal Engineer, Amcor Rigid Plastics

One American Firm's Transition from Hydraulic to Hybrid to Electric Blow Mold Machines to Reduce its Carbon Footprint
Bernard Graebener, President, Blow Mold Solutions (and representing MAGIC)

Effectively Reclaiming Blow Molded Scrap with Technologically Advanced Granulators
Bob Harrison, Midwest Regional Sales Manager, Wittmann Battenfeld, Inc.

Increasing Productivity, Improving Equipment Life Cycle, OEE – Maintaining Equipment Performance
John Headrick, Managing Director, Competent Solutions, LLC

Integrated Impact: The Power of Combining Engineering & Design
Jason Husk, Director of Business Development, R&D/Leverage

An Overview of PE BioPolymers
James Kahn, Commercial Manager Green Polyethylene, Braskem America

Suction Blow Molding for Aerospace Applications
Vince Lanning, R&D Program Manager, Hi-Tech Mold and Tool, Inc.

How Vacuum Deposited Coatings Benefit Blow Molding Molds, Feed Screws and Heads
Don Corbett, Sales Market Manager, Oerlikon Metco (US) Inc.

Hydraulic Drive vs. Electric Drive: Determining the Factors of Choice and Benefits
Dietmar Michels, Product Manager, Kautex Maschinenbau

Economic, Lightweight Strength on a Single Step Blow Molded/Foam Filled Parking Block
Mike Hagen, VP Engineering and Owner, Pinnacle Plastic Technologies, Inc.

The Role of Virtual Modeling in Development of Better Engineering Packages
Sumit Mukherjee, Director, CAE and Simulation, Plastic Technologies, Inc.

New Pre-Form Bottle Technology
Antonio Orru, Sales and Key Accounts Manager, SIPA, Dino Zanette, Manager, Innovation Bottle Design, SIPA

Additive Manufacturing (Laser) for Tool and Die Blow Mould Applications
Tony Paget, CEO, Garrtech, Inc.

Overview of Plastics Molding Plant Energy Savings Strategies Including Government and Utility Rebate Programs
Clayton Penhallegon, Jr., President, Integrated Services Group, Inc.

Durability of Fluorinated HDPE Fuel Tanks
Dr. Andrew Thompson, President and CEO, Inhance Technologies

[Continued on next page](#)

Optimizing Package Design for Performance and Reliability Using 3D Simulation
Dr. Romil Tanov, Technical Expert, CG-CPG Sales, Specialist, Dassult Systemes, Simulia NA

An Overview of Support Plastics USA
Robert Schiavone, Global Marketing Director, R&D/Leverage

Bio Plastics Packaging, Cost, Availability: A Reality Check
Scott Steele, President, Plastic Technologies, Inc.

Proof of Principle: Bottle Design for Extreme Lightweighting CSD
Adam Stowitts, Product Manager for Plastic Technology, Kronos USA

Recycle Friendly Packaging Options: How to Satisfy the Client's Expectations
Lou Tacito, President, Plastics Forming Enterprises, LLC

Development of Blow Molded Plastic Fuel Tanks Performing at Higher Pressure and Vacuum Loads for HEV and PHEV Vehicles
Dr. Mohammad Usman, Manager, PowerTrain Installations (PTI) –
CAE and Materials, Syed Ahmad, CAE Product Development Engineer, Ford Motor Company

Comparison Between 2-Step and PF Series Highlighting Technology and Capabilities
Paul Atkin, Manager, Sales Coordination Team, ASB Company

Co-Extrusion Blow Molding with a Continuously or Sequentially Foamed Layer
Wolfgang Meyer, President, W. Muller USA, Inc.

Educator's Training Panel Discussion
Representatives from Ferris State University, Penn State Erie, Penn College of Technology, Paulson Training Programs, Inc. and Calhoun Community College

Understanding the Blow Molding Processes: (The always popular 101's are back!)

Tie Layers 101
John L. Sugden, Senior Research Scientist, The Dow Chemical Company

Start-up and Shut Down
David Calderone, President, Alternatives 4 Plastics LLC

Overview of Polyolefins
Robert DeLong, Vice President, Blasformen Consulting

Engineering Thermoplastics
Lew Ferguson, Owner, PARISONS

Overview of Accumulator Heads
Chuck Flammer, Director, Packaging R&D, Kautex Machines, Inc.

IBM: Process, Concepts and Applications
Ron Gabriele, Global Sales & Marketing Manager, Jomar Corp., Dr. Surendra Agarwal, Founder, Creative Group of Industries

An Overview of Recip Screw Technology
Dale Maddox, Process Engineer, Uniloy NA

Stretch Blow Molding – Two Stage
Donald Miller, VP, Director of Technical Services, Plastic Technologies, Inc.

Post-Finishing Work Cell (Automotive PFT)
Luc Vanden-Abeelee, Marketing Research Advisor, Axium, Inc.

Shuttle Blow Molding Technology
Joe Slenk, Applications Engineer, Bill Sellinger, Manager, Applications and Process Development, Bekum America Corporation

Overview of PET
Jeff Wardat, Manager, New Business Development, Jennifer King, Product Development Manager, Auriga Polymers Inc. of INDORAMA

Mixing with Single Screw Extruders
Timothy Womer, Owner, TW Womer & Associates LLC

Computer Management Maintenance Systems for Blow Molding
John Headrick, Director of Operations, Competent Solutions, LLC

Quoting of Blow Molding Parts
Gerry Hobson, Owner, Hobson Consulting, Ltd.

Bio-Plastics for Packaging 101—A Primer
Scott Steele, President, Plastic Technologies, Inc.

Blow Molding: Getting Color Right
Robert Trinklein, Product Manager, Colors, Colortech

Stretch Blow Molding – One Stage
ASB Company

SPE Blow Molding Division Scholarship Awards



Bryan Robinson is the recipient of the SPE Blow Molding Division's **2013 - 2014 Carrie Fox Solin Memorial Scholarship** in the amount of \$6000.

Bryan is a senior at Pennsylvania College of Technology majoring in Plastics and Polymers Engineering Technology. He is very active in the Penn College student chapter of SPE, having served as Treasurer and President.

He has completed four summer internships at Drug Plastics & Glass and Quadrant EPP. At these companies he worked in the production, engineering and R&D areas.

Bryan is on the Dean's list at Penn College and works on campus as a Residents Assistant. He has a strong interest in blow molding, having completed 2 internships at Drug Plastics, submitted a project in the 2013 Blow Molding Division's Student Design Competition, and attended the 2012 ABC in Pittsburgh. Bryan was the unanimous choice of our selection committee based on his outstanding record of academic and extracurricular achievements.



Samuel Moore is the recipient of the SPE Blow Molding Division's **2014 - 2015 Carrie Fox Solin Memorial Scholarship** in the amount of \$6000.

Sam was chosen for this award by our scholarship selection committee based on his outstanding record of academic and extracurricular achievements.

Sam is a junior at Pittsburg State University

majoring in Plastics Engineering Technology where he is active in the Pittsburg State University student chapter of SPE.

He has completed internships during the past two summers at Buckhorn Inc. and Polyfab Plastics. Sam said both jobs taught him the value of hard work and gave a perspective of just how exciting the field of plastics is. In the future he hopes to land a job in a plastics fabrication company.

Our scholarships and other educational support programs are funded from the returns on a \$212,000 endowment built up over time with the revenue from our sponsors.

Since inception of the program, the SPE Blow Molding Division has awarded \$254,500 in scholarships to 38 students enrolled in programs that include curriculum pertaining to blow molding. Samuel is the 11th Pittsburg State University student to receive a SPE Blow Molding Division scholarship.

The Blow Molding Division of the Society of Plastics Engineers awards its annual Memorial Scholarship(s) to selected students enrolled in plastics engineering programs. The SPE 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 value of the scholarship is \$6,000.00. Funds will be 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 will be made. The award recipients will be recognized at the SPE Annual Technical Conference (ANTEC) or the SPE Annual Blow Molding Conference (ABC). A travel allowance is available.

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 2014 Blow Molded Parts Competition Entry Form

Entry Deadline: September 26, 2014
Shipment Deadline: Oct. 4, 2014

As the premier event for the blow molding industry, the Annual Blow Molding Conference showcases the latest advancements and innovations in blow molding design and applications. This year, the SPE Blow Molding Division invites all conference attendees, speakers and sponsors to participate in the **Second Annual Blow Molded Parts Competition**.

Product Entry Submission Form

Submitter / Attendee*: _____

Submitter Company Information*: _____

Part Name*: _____

Manufacturer / Blow Molder: _____

Designer / Other Contributors: _____

Mold Maker / Toolmaker: _____

Material Supplier / Resin Type: _____

Address*: _____

City: _____ State: _____ Postal Code: _____ Country: _____

Telephone*: _____ Mobile Phone*: _____ Fax*: _____

Email*: _____

Submitter signature and Release of Liability*: _____ Date: _____

Product Category: please check one

Packaging: Food Beverage Pharmaceutical Packaging Other

Industrial: Automotive / Transportation Consumer Goods Industrial Other

Shipping Information:

SPE Blow Mold Conference
 PART COMPETITION
 Chicago Marriott O'Hare
 8535 West Higgins Road
 Chicago, IL 60631
 Contact: Ms. Lindsey Beirne, Senior Event Manager
 Tel: (773) 714-4208

Parts should be shipped no more than 2 business days in advance of event. Shipments will be delivered to the conference registration area outside of the exhibit hall. Each entry should be shipped with a completed return bill of lading form.

Submission Instructions:

Email the following to parisonsblowmolding@gmail.com

- Completed and signed entry and release form
- Display and judging information form
- Product image in a jpg format

The image and description should be suitable for publication. A separate entry form, description and photo will be required for each submission.

Contact: Lew Ferguson, Chair, Blow Molded Parts Competition
 Email: parisonsblowmolding@gmail.com Tel: 313-506-4637



ABC 2014



BLOW MOLDED PARTS COMPETITION

DISPLAY FORM AND JUDGING INFORMATION

Part Name:

Submitter / Company:

Part Description

[1 to 3 sentences]



Part Features / Benefits:

[include novel features of the part like, design, manufacturing, material application, parts consolidation, commercial implications, sustainability, safety, cost savings – up to 12 bullet points]

- ▶
- ▶
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- ▶
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- ▶

PHOTO OF THE PART:

▶ Please send a JPEG picture of the part as a separate file.



ABC 2014 Blow Molded Parts Competition Guidelines

1. Parts may be entered by any conference attendee, speaker or sponsor (up to two parts per participant)
2. All entries must include a plastic form utilizing the blow molding process in some portion of the product.
3. All submissions must be new to the market starting commercial production within the last two years and made from production tooling.
4. Parts must be able to fit on display table. If you wish to display a part larger than 48 inches, please contact Lew Ferguson, Parts Competition Chair at parisonsblowmolding@gmail.com to discuss.
5. A completed entry form, display and judging information form and a photo for each part must be sent to the Parts Competition Chair by **Sept. 26, 2014**.
6. The Judging Committee may consolidate parts in categories, if fewer than 4 parts are submitted in a category.
7. No electric power connections are provided. If needed, power may be arranged through the hotel by contacting meeting services at 773-693-4444.
8. No business cards, marketing materials, laptop presentations, etc. may accompany the part in the display area. The display is intended to be an exhibit to encourage discussions and technology exchange. No sales or marketing activities in this area will be permitted; however, there are conference sponsor opportunities to do so (visit www.blowmoldingdivision.org)
9. All shipments must follow the mailing label format as indicated in Shipping Information on the application.
10. Submitters will be responsible for collecting, unpacking and setting up their parts in the Parts Competition area located outside the ABC 2014 Exhibit Hall. Set-up hours are Sun., Oct. 5th from Noon-5:00 p.m. and Mon., Oct. 6th from 8:00 a.m. to Noon. **All displays should be set-up by 12:00 p.m. on Oct. 6th**. For more information about shipping and retrieving your parts, contact: Ms. Heidi Koppenhoefer, Senior Catering Sales Executive at (773) 693-4444.
11. Submitters will be required to pack and prepare their parts for outgoing shipment by 5:00 p.m., Tues., Oct. 7th which marks the conclusion of the Blow Molding Conference. The SPE Blow Molding Division is not responsible for any unclaimed parts after ABC 2014 concludes.
12. Submission of an entry permits the Blow Molding Division and the Society of Plastics Engineers to use part information and images in SPE promotions and publications and confirms the submitter has obtained approval to participate in the competition and publicity.
13. The Blow Molding Division winners will be announced at ABC 2014 Awards Reception and Program on Mon., Oct. 6th at the Chicago Marriott O'Hare. The winner will also be entered in the SPE Parts Competition at ANTEC 2015.

RELEASE OF LIABILITY

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



abc 2014

Blow Molded Parts Competition

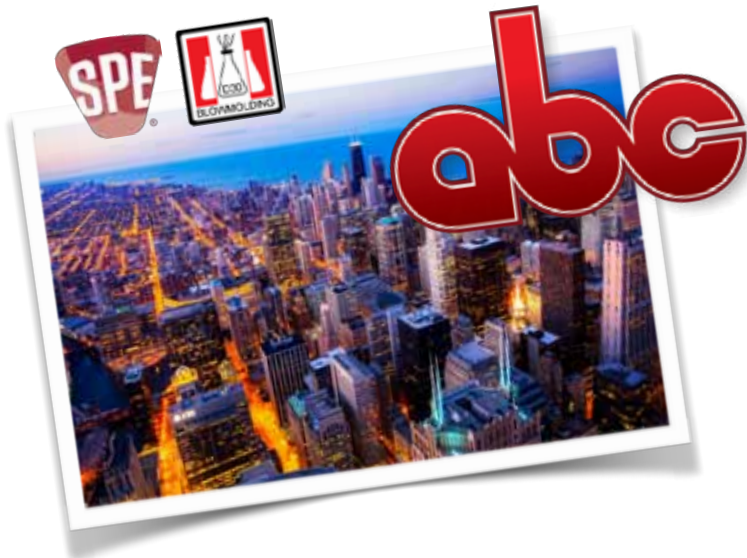
We are looking for new, innovative blow molding parts, commercialized within the last two years, for the *Second Annual Blow Molded Parts Competition*. All attendees, speakers and sponsors have an opportunity to enter a part in the Competition. Participate in the Conference at a different level by entering your best new commercial application. The Competition encourages an exchange of technology and concepts in designs, manufacturing methods, material applications, molding and sustainability. There are categories for both Packaging and Industrial Applications, as listed in the Entry Form.

Last year, there were eleven Packaging Applications and six Industrial Applications entries. The winners of the Blow Molding Division Packaging Applications (PTI - BrightPak Liquid Dispenser) and the Industrial Applications (Kautex - GM T172 Equinox C3LS Fuel Tank) competed with other SPE Division winners in the SPE International Parts Competition at ANTEC 2014. The PTI - BrightPak Liquid Dispenser won the Quality of Life Award and the Improving Life Award. A full list of the ABC 2013 entries and winners is on the Blow Molding Division website: www.blowmoldingdivision.org/partscompetition/

The Second Annual Blow Molded Parts Competition will be expanded to include a "People's Choice Award" for both Packaging Applications and Industrial Applications as voted by the ABC attendees. Some winning parts will be eligible to enter the International Parts Competition at NPE / ANTEC 2015. A Competition Committee is developing the categories, eligibility and other aspects of the competition.

A copy of the 2014 Blow Molded Parts Competition Entry Form includes the part information required and the Competition Guidelines.

Come to ABC 2014 and enter a part in the Competition – a great way to network and discuss your new application at the largest Conference devoted to Blow Molding.



CHICAGO

*Innovating, educating and sustaining
the future of Blow Molding*

30th Annual Blow Molding Conference
October 6th & 7th, 2014
Chicago Marriott O'Hare
8535 West Higgins Road,
Chicago, IL 60631

The Chicago Marriott O'Hare will be the site of the 2014 Annual Blow Molding Conference. The largest city in the Midwest and centrally located, Chicago has a state-of-the-art airport with non-stop service to hundreds of cities across the U.S. and around the world.

Many plastic related businesses and manufacturing sites are within driving distance of Chicago making this an ideal location for the ABC.

Make plans now to attend this premier forum for the blow molding industry!

Featured Presentations Include:

Keynote:

How package design and development
must be integrated:

Peter Borowski, Head of Design, **Kraft Foods**

When Density Challenges Downgaging –
New Technology for EBM:

Dr. Frédéric Dreux, Packaging Materials Technology Manager,
Unilever

High Density Foam Reductions:
Ken Carter, **John Deere**

A Case Study of the 89oz. Tropicana EBM ePET:
Commercialization and Marketing:

Nicole Green, Sr. Manager, packaging brand
stewardship/lab services, **PepsiCo**

Blow Molding Resin Markets and the Impact of
Shale Gas:

Joel Morales, Director of Polyolefins for North America,
IHS Chemical

How Blow Molding Companies Can Capitalize on U.S. and
European Patent Law Changes:

Harold Fullmer, Patent Lawyer, **Woodcock Washburn**

Navigating the intersection of regional blow molders and
private equity:

Ross Bushnell, President, **Convergence Packaging**

View our full 2014 presentation list

MOLD YOUR MIND!

Mold your Mind with our blow molding 101 sessions.
These will be held on **SUNDAY October 5th from 1 to 5PM**



View our 2014 division sponsors



Blow Molding Division

presents the

30th Annual Blow Molding Conference
 October 6th & 7th, 2014
 Chicago Marriott O'Hare

"Innovating, educating, and sustaining the future of Blow Molding"

Name _____

Title _____

Company _____

Address _____

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State _____

Zip _____

Tel _____

Cell Phone _____

Fax _____

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SPE Member ID No. (if known) _____

Dietary Restriction _____

Registration before October 6th, 2014
 Registration Fee: SPE Member \$525.00
 Non-Member \$625.00 (This fee includes a 1 year SPE Membership)
 Fee includes all materials, Breakfast, Lunches and Dinner (space limited)

easy registration online at:

<http://www.blowmoldingdivision.org/>
All Major Credit Cards Accepted

If you wish to pay by check, first register online then make check payable to SPE Blow Molding Division, sent with registration to:

Plastic Technologies, Inc.
 Attn: SPE Blow Molding Division
 PO Box 964, 1440 Timberwolf Drive
 Holland OH 43528-0964 USA
 Email: ABC@4spe.org

**Fees for Students, Press and other registration questions, please contact:
 Linda Flowers at 419-867-5424**

Bekum America Corporation

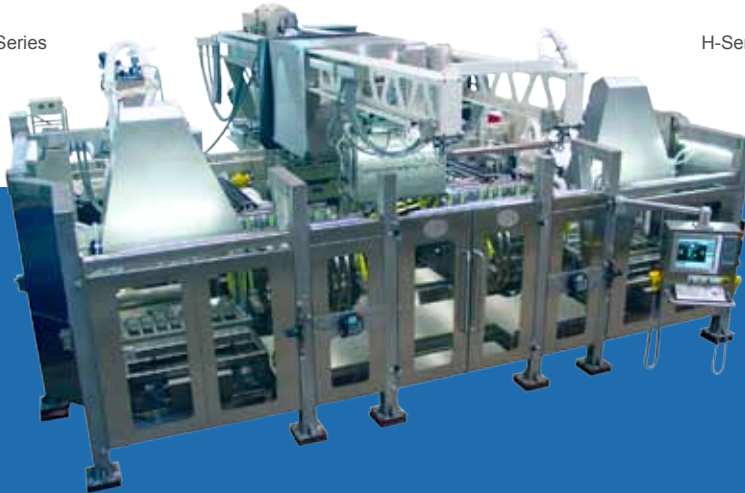
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showland@grahamengineering.com

Jaime Marrero, Aftermarket & Retrofit Sales Manager,
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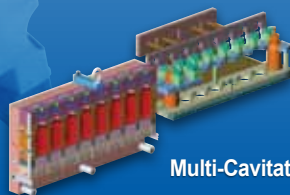
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Why Should You Become a Division Sponsor?

- 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.
- You will meet face-to-face and shake hands with your customers, decision makers, prospects and competitors.
- You will cultivate relationships and partnerships at the only event solely for the blow molding industry.
- You will have direct access to high profile industry leaders who are impacting the future of the industry.

Call or email Deirdre Turner, Conference Coordinator at (248) 505-5136 or dcturner@earthlink.net for information about sponsorship opportunities



2 weeks



2 weeks

BLOW MOLDS



2 weeks



2 weeks



2 weeks



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(800) 929-1743

Graham Engineering Corporation Continuing Education

Grant Program

The Blow Molding Division of the Society of Plastics Engineers and Graham Engineering Corporation co-sponsor a program for continuing education of blow molding industry workers. By making financial resources available to Blow Molding Division member companies, this program will assist more people in obtaining continued education in blow molding and improve their job-related skills.

Up to \$500 per person is available to attend an SPE Blow Molding Conference, an SPE Seminar in Blow Molding, or other program applicable to blow molding.

Eligibility Criteria:

1. The employee must be a full-time employee of one of our member companies (having at least one current member of the SPE Blow Molding Division).
2. The employee's job function must be blow molding related.
3. The employee's academic training must not be higher than Associate Degree.
4. The employee must have company recommendation and support.
5. Costs exceeding \$500 will be the responsibility of the employee or employer.

How to enroll:

1. Submit a request to the Blow Molding Division at the following address:
Agri Industrial Plastics
Attn: Geoff Ward
301 N. 2nd St
Fairfield, IA 52556
geoff.ward@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.



SPE blow molding division receiving the Pinnacle award.



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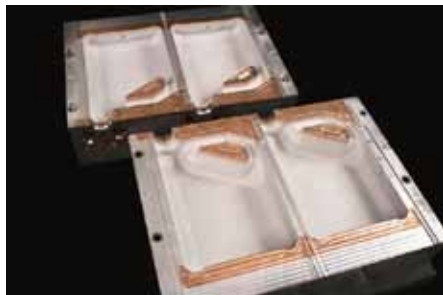
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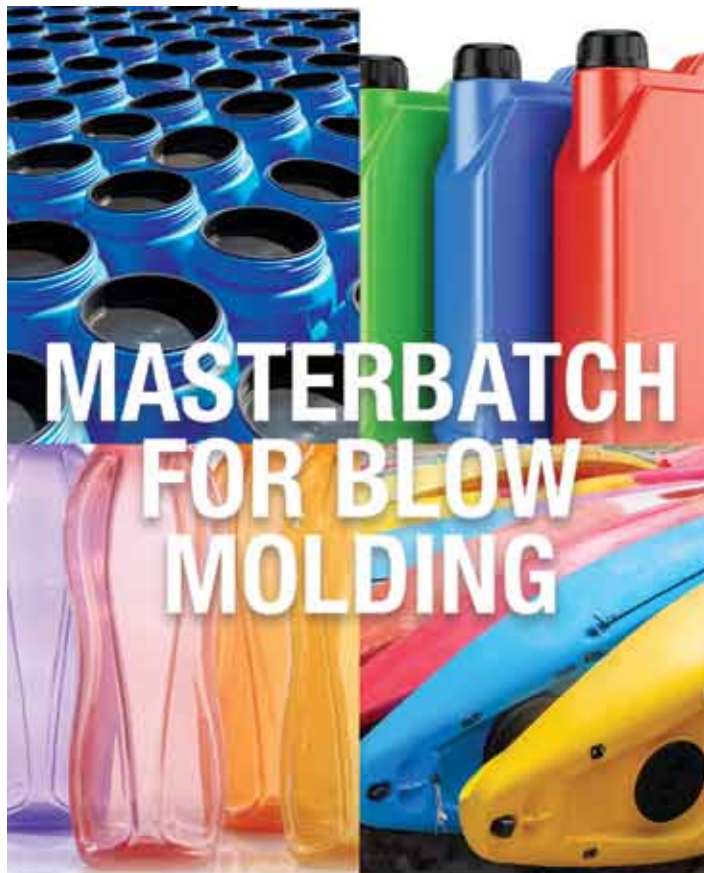
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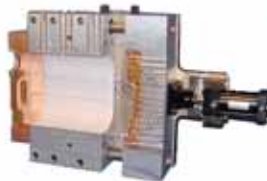
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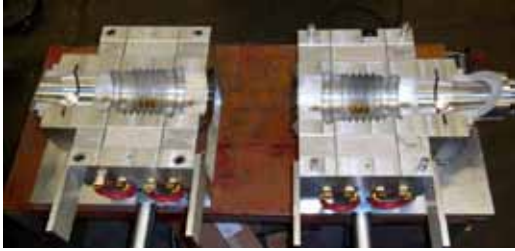
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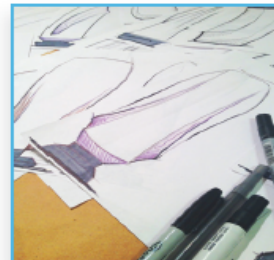
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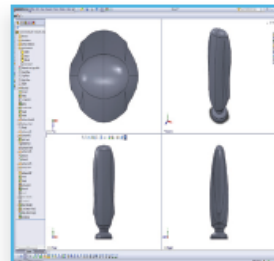
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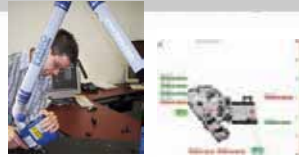


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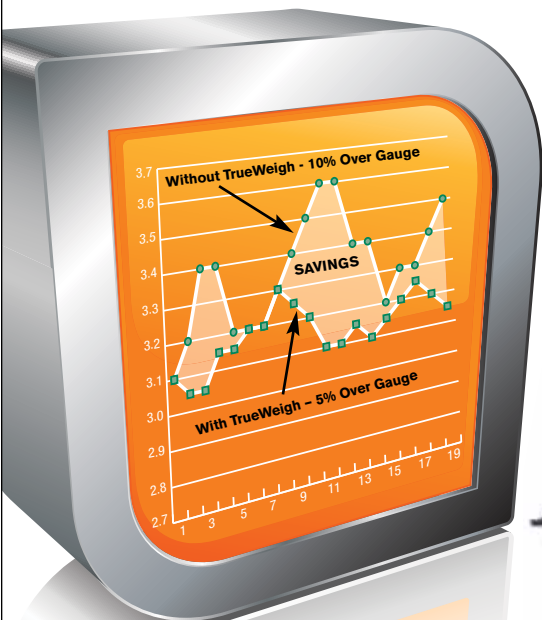
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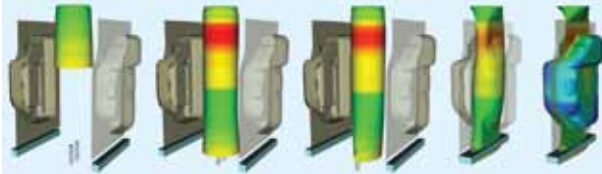
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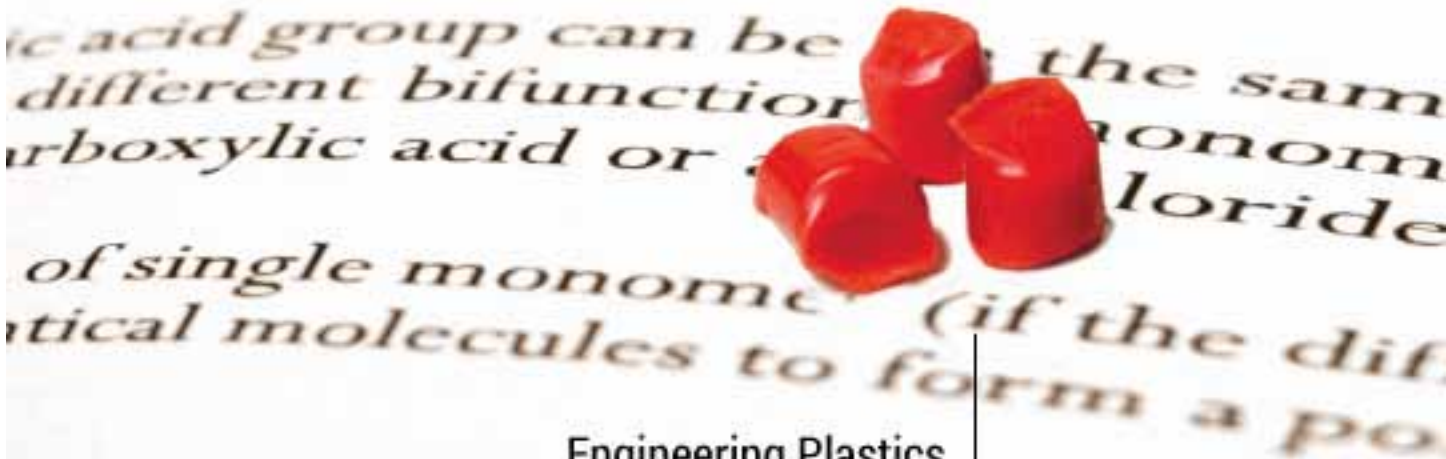
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