



Pre-Conference Edition

SOCIETY OF PLASTICS ENGINEERS

BLOW MOLDING DIVISION

Volume 2009 Edition 3

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*Become
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25th Annual Blow Molding Conference

ABC 2009
October 7 & 8



The James B. Henry Center for Executive Development
Michigan State University, East Lansing, MI

The SPE Blow Mold Division will be hosting its annual conference for the Blow Molding Industry this fall on the campus of Michigan State University. Technical sessions and exhibits will be held on the James B. Henry Center for Executive Development, a newly constructed, state-of-the-art conference center, just minutes from Michigan's state capitol. Guided tours of Bekum America Corporation will be conducted in addition to the regular program.

The conference will feature speakers who cover industry segments in both packaging & industrial applications. From resin developments to machinery innovations to automation, design and safety, no topic will be missed. Attendees to past conferences have expressed great satisfaction regarding the breadth and depth of information they were exposed to during these conferences.

New this year! Plastics 101 mini-sessions

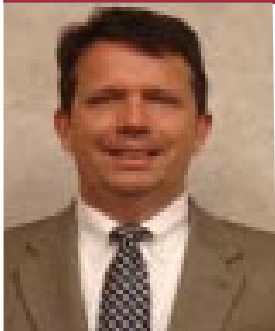
Comprehensive instruction focusing on the technology processes, troubleshooting and methodologies of blow molding. Led by industry experts, these sessions will provide invaluable tips, suggestions and solutions for such areas as:

- Continuous Extrusion
- Accumulator Head
- IBM
- Stretch Blow (reheat)
- Polyolefins and PET 101
- Design for Blow Molding
- Co-Extrusion and Engineering Polymers



Continued on Pg 2

Chairperson's Message



Greetings from the home of the plastics blow molding industry, NW Ohio.

I know there will be more than one member challenge that idea. However, when one looks at the technology portfolio created by Michael

Owens for glass making equipment at the turn of the last century, it is pretty clear the plastics industry benefited from the foundation they built. One of my endeavors during my chairmanship is to get a more thorough history written before we lose all of the people that built our industry. I invite any and all of you who have ideas on how we can make that happen over the next 2 years.

I am pleased to accept the role of Chair of our Blow Molding Division. Like all of the readers of this newsletter, I have been engaged in the blow molding business for many years, 30 in fact.

I always like to admit that I am not the smartest person in the industry, but I have a lot of good experience.

Knowing what doesn't work is as valuable as what does.

We are working hard as a board to bring you a great program at the ABC. Now we need you to attend. The ABC is one of the best values in the conference business. Not only do you get to view state of the art papers, but the networking and the value of meeting your fellow blow molders is invaluable. Get to know your board members who can be your conduit to connect with the right experts when you have a problem. We have material, process, design, and tooling experts on the board. Very little is new.

I'm looking forward to serving you and engaging all of you to make our society prosper.

Scott Steele

Continued from Page 1

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

Click here for the [ABC 2009 Conference Flyer](#)

Why Attend This Conference?

This conference has been structured to provide blow molding machine suppliers, machinery users, resin suppliers, converters and brand owners (operators, engineers, plant managers, operations managers, purchasing personnel and corporate officers) the opportunity to interact and gain valuable insight regarding blow molding needs and innovations. You will find multiple topics that will provide information to better perform your job; manage your business; and plan for future needs of your customers.

ABC 2009 Conference

Check back here for updates on technical sessions and speakers.

- **Conference Venue**
The James B. Henry Center for Executive Development
3535 Forest Road, Lansing, MI 48910-3831
Tel: (517) 353-4350, Fax: (517) 353-0796
www.msuhenrycenter.org
- **Conference Registration Form**
Click here for the [2009 Conference Registration Form](#)
- **Guest Speaker Opportunities**
If you are interested in presenting a topic at this year's conference, please click here for a [Speaker Abstract Form](#). You can review the [Speaker Guidelines and Presentation Requirements](#) here.
- **Sponsorship and Exhibit Opportunities**
Support this year's event by participating as a sponsor/exhibitor. [Check here for information.](#)



25th Annual Blowmolding Conference

October 7 & 8, 2009

ABC 2009 is the blow molding industry's premier technical and market-based event.

If you are involved in the producing, designing, specifying, or purchasing of blow molded articles, including those involved in process equipment, auxiliary equipment, molds and tooling or materials.

THIS CONFERENCE IS A MUST ATTEND!

PROGRAM HIGHLIGHTS:

- Technical / Business Overviews
- Packaging
- Industrial / Automotive
- Resin Demands and Opportunities
- Sustainability / Bio-Polymer Advances
- End-User Perspectives
- Trends in Machine Design
- Latest Blow Molding Innovations

CONFERENCE SITE:

The James B. Henry Center for Executive Development
Michigan State University, East Lansing, MI.
www.msuhenrycenter.org

PLANT TOUR:

Bekum America Corporation
Williamston, MI.
www.bekumamerica.com



"BLOW MOLDING OPPORTUNITIES - TODAY & TOMORROW"

2009



For additional conference information and hotel listings,
visit: www.blowmoldingdivision.org



Blow Molding Division

presents

25th Annual Blow Molding Conference

October 7 & 8, 2009

The James B. Henry Center for Executive Development
Michigan State University, East Lansing, MI.

Name _____ Title _____

Company _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____

Email _____

SPE Member ID No (if known) _____

Registration Before September 21, 2009

Registration Fee: SPE Member \$350.00;

Non-Member \$475.00 (this fee includes 1 year SPE Membership)

Fee includes all materials, lunch and dinner

Registration After September 22, 2009 (and at the door)

Registration Fee: SPE Member \$400.00;

Non-Member \$525.00 (this fee includes 1 year SPE Membership)

Fee includes all materials, lunch and dinner

Payment Methods:

1. **Check** — Made payable to SPE Blow molding Division, sent with registration to:
ABC Conference 2009, P.O. Box 964, Holland, OH 43528-0964, USA
2. **Corporate Credit Card** — Call Scott Steele at 419-867-5403
E-Mail: ABC2009@pti-e.com
3. **PayPal®** — (online payment service:
www.blowmoldingdivision.org and choose
conference link on left to register/buy)

This
is the only
educational event
you can attend that will
offer the most current
information on blow
molding!

**Fees for Students and Multiple Attendees from the same
Company please contact Scott Steele at 419-867-5403**

ATTENDANCE REGISTRATION FORM

2009



Blow Molding Division

presents

25th annual blow molding conference

Wednesday, October 7

Keynotes:

The Latest Outlook on Blow Molding Resins, Supply & Demand

Howard Rappaport, Global Business Director, Chemical Market Associates, Inc.

APR's New Rigid Plastics Recycling Program

Elizabeth Bedard, Director, APR Rigid Plastics Recycling Program

Green Packaging: Environmental Marketing and Benefits Claims

J.C. Walker, Partner, Keller and Heckman LLP

Technical Papers:

How A Global Bottle Producer Leverages Blow Mold Machinery To A Competitive Edge

Francisco Alves, R&D Director, Logoplaste, Portugal

Integrated PET Blow/Fill and Seal Technology

Tony Maniscalco, Sales Manager, SIPA, North America Inc.

Motion Control Solutions for Blow Molding

David Geiger, Engineering Manager, MOOG, Inc.

Blow Molded Highway Barriers

Leo J. Yodock, III, President, The Yodock Wall Company, Inc.

How to Add Multilayer Capability to Any Blow Mold Machine

Mark Hock, President, FT Technologies

Waterbrick: An Innovative Industrial Container Design

Invited Speaker: Wendall Adams, President, Waterbrick International, Inc.

Compression Blow Molding for Lightweighting

Luca Nanetti, Market Manager, Sacmi Imola, Italy

New Technology for Lightweighting Packages: The oPTI™ Bottle

Frank Semersky, Vice President, Plastic Technologies, Inc.

Technical Papers Cont:

Lightweighting Through the Use of Hydrocerol Chemical Foaming Agents

Frank Neuber, Appls. Development Manager, Clariant Corp., Masterbatches Division

Recyclable Extrusion Blow Molding PET

Jeff Wardat, New Business Development Manager, INVISTA

Advances in Clarifying Agents in Polyolefin Blow Molding

John Price, Senior Development Engineer, Milliken and Company

Simulation Driven Product Development in Blow Molding

Hossam Metwally, Lead Engineer, ANSYS, Inc.

MythBusters: Using HDPE Post-Consumer Resin for Blow Mold Appls.

Pedro Morales, Director of Sales and Marketing and Stephanie Baker, Market Development, KW Plastics, Recycling Division

New Enhanced Performance HDPE for Extrusion Blow Molding

Alan Radwanski, Senior Engineer R&D Plastics, TS&D Rigid Packaging, The Dow Chemical Company

Coated PLA Bottles: A Comparison of Their Performance to PET and Multilayer Bottles

Dr. Rafael Auras, Assistant Professor, Michigan State University School of Packaging

Twin Sheet Blow Molded Fuel Systems

Dave Hill, Project Engineer, Inergy Automotive Systems

IXEF BXT 2000 for Barrier Applications: Product, Marketing and Processing Considerations

Chris Scarazzo, Sr. Business Development Representative and Dwayne Fish, Technical Marketing Engineer, Solvay Advanced Polymers L.L.C.

Ryton Blow Molding: Application and Development

Randy Moynihan, Product Development Specialist, Chevron Phillips Chemical Company

Thursday, October 8

BlowMolding 101 Sessions:

Continuous Extrusion

Klaus Mischkowski, GMX

Accumulator Head

Bob Jackson, President, Jackson Machinery, Inc. and John Rathman, Principal Engineer, Chevron Phillips Chemical Company

Injection Blow Molding

Invited Speaker: Sam Belcher, President, Sabel Plastechs Inc.

Re-Heat Stretch Blow Molding

Donald Miller, Vice President, Technical Services Group, Plastic Technologies, Inc.

Fundamentals of Polyolefin Structure/Property Relationships in Blow Molding Applications

Terry Glass, R&D Leader, Rigid Packaging TS&D, The Dow Chemical Company

Fundamentals of PET

Frank Schloss, Vice President, Materials Development, Plastic Technologies, Inc.

Blow Molding Engineering Thermoplastics

Lew Ferguson, PARISONS

Design for Blow Molding

Geoff Ward, Agri

Oktoberfest Luncheon, Tour and Demo

at Bekum America Corporation

With Full Production Demonstration of BM-406D MPL (Multi-Parting Line Technology)

2009



October 7 & 8

The James B. Henry Center
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- Technology Licensing
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- Manufacturing Support
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SPE Scholarship Recipients

Marcus Gardner **2009 Carrie Fox Solin** **Memorial Scholarship** **recipient**

Mark is a junior at Ferris State University. He worked in the thermoforming industry for 12 years before returning to school to further his education.

Mark completed his associate degree in Plastics Engineering Technology at Grand Rapids Community earlier this year and is now studying Plastics Engineering at Ferris State University. He has also received prior SPE scholarships from the West Michigan section, the Thermoforming Division, and the Thermoset Division. Mark and his family live in Cedar Springs, MI.



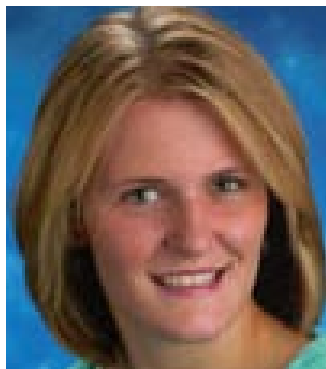
Evan Perkins **2009 ExxonMobil** **Chemical Company** **Scholarship recipient**

Evan is a junior at Ferris State University pursuing a Dual Major in Rubber and Plastics Engineering Technology. He is the Fundraising Chair of the FSU student SPE chapter, the Secretary of the FSU Rubber Group, and Treasurer of the FSU Soccer Team. Evan works at Meijer and is lab tutor for a Rubber 110 class to help pay for school. He has interned at Delphi Automotive in Saginaw, MI. Evan's future career interest is design and manufacture of sporting goods.



Jessica Patz **2008 Carrie Fox Solin** **Memorial Scholarship** **recipient**

Jessica is a senior at Pennsylvania State University at Erie, The Behrend College and plans to graduate in May 2010. She is the Treasurer of the PSU student SPE chapter and Vice-President of the PSU chapter of SWE. This past summer she was an intern at Beaumont Technologies and continues to work there part time during the school year. She is a TA for a plastics class this semester. Jessica plans to attend graduate school after graduation.



EXHIBITORS

ABC2009

◆ Diamond Level

- Nissei ASB Company

● Platinum Level

- Agr International, Inc.
- ALPS-Air Logic Power Systems
- American Tool & Engineering
- AToP Polymers, Inc.
- Bekum America Corporation
- Brush Wellman
- Dow Chemical
- Eastman Chemical Co.
- Fidelity Tool & Mold Ltd.
- Graham Engineering Corp.
- Kautex Machines Inc.
- MC Molds
- Plastic Technologies Inc.
- R&B Plastics Machinery LLC
- Solvay Advanced Polymers
- Stopol, Inc.

□ Gold Level

- Agri-Industrial Plastics Co

► Comped Exhibitors

- Ferris State University
- Michigan State University
- Penn State Erie



ABC 2009 Sponsorship Registration

Sponsorship (please indicate level)

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

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Contact Title _____

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Name _____

Title _____

Phone _____ Fax _____

Email _____

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

Method of Payment:

___Check enclosed (payable to SPE Blow Molding Division), send to:
SPE Blow Molding Division, c/o Mr. John Rathman, Chevron Phillips Chemical Co.
Plastics Technical Center, Rm. 155, Hwy. 60 & 123, Bartlesville, OK 74004

Visa/MC/AMX No: _____

Name on card _____ Exp. _____

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

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

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Graham Engineering Corporation Continuing Education Grant Program

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

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

Eligibility Criteria:

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

How to enroll:

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

Life-time Achievement Award

June 02, 2009

Mr. Tom Brady
Plastics Technologies Inc.
PO Box 964
Holland OH 43528-0964

Dear Mr. Brady:

We are pleased to announce the Board of Directors of the SPE Blow Molding Division has chosen you as the recipient of the 2009 SPE Blow Molding Division Lifetime Achievement Award.

Scott Steele nominated you for this prestigious award. He prepared a detailed list of 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 Lansing, Michigan on the evening of October 8, 2009. We invite you, your family, and any colleagues to join us for this occasion.

Congratulations and Best Wishes,

John Headrick
Board of Directors
SPE Society of Plastics Engineers
Blow Molding Division/Education Awards Chairman

Thomas E. Brady, Ph.D.

1985 to 2006 - Plastic Technologies, Inc. (PTI)

President, CEO and Founder

Plastic Technologies, Inc. (PTI) provides the packaging industry with proprietary technical development, testing, specialty manufacturing and legal support services. PTI offers its customers a highly experienced professional staff supported by an integrated CAD design and information system network. **PTI** designs packages, tooling, molds and specialty machinery and occupies a state-of-the-art office/laboratory facility in Holland, Ohio which includes extensive plastic processing and forming machinery, comprehensive product and material testing laboratories, and pilot production and prototyping systems.

PTI specializes in high performance packaging for the beverage, food, household product and health care industries.

PTI will design, prototype, and test entire packaging systems, including containers, closures, and secondary packaging components. **PTI** also offers expertise and development experience in plastics recycling, general analytical, physical and chemical testing, plastic resin and blend formulation, and proprietary product and process development. **PTI** designs and builds specialized handling and forming machinery and constructs complete prototype systems, when required.

PTI's management and senior staff offer more than 150 years of industrial experience, including fundamental R&D, product manufacturing, customer service, quality control, and product and materials development. **PTI** professionals will act as patent infringement and product performance and failure experts to customers and clients in the plastics industry.

Additionally, **PTI** provides its customers with specialized training in plastic materials, statistical process control, orientation blow molding, injection molding, PET packaging technology and advanced plastic processing. **PTI** also supplies plant engineering support, and plant start-up assistance to its customers.

Ninety **PTI** employees and professionals hold 54 patents for developments used by **PTI** and its joint venture companies, or which are owned and used exclusively by **PTI** customers.

PTI currently provides proprietary plastic packaging and technology development services worldwide to more than 100 clients located in the USA, Canada, South America, Europe, Australia, and Southeast Asia. **PTI** also develops and licenses proprietary technologies and proprietary products to the packaging industry, including internet-based computer design and simulation models (Virtual Prototyping™), LaserPlus™ an automated dimensional measurement gauging system, and an on-line Sonic Detection gauging system used for defect detection and process control in blow molding manufacturing operations.

PTI is wholly owned by **PTI** employees and has a track record of very low professional turnover over its 20-year history.

Continued on the next page

PTI is recognized for “**Providing World Class PET Technology, Operating with Absolute Integrity, and Being a Great Place to Work.**”

PTI was recognized as Entrepreneur-of-the-Year in 1989 and again in 2005, as Small Business of the Year in 1995, and as “NW Ohio’s Partner in Progress” in 2001.

PTI has also established six subsidiary and affiliate companies.

PTI-Europe is located in Yverdon-les-Bains, Switzerland and provides prototyping, sampling, testing, training, consulting, engineering, and on-site technical support services to **PTI’s** European customers. **PTI-E** was established in 1998 as a Swiss corporation and is recognized as a premier PET technical development company in Europe.

Phoenix Technologies, L.P. (www.phoenixtechnologies.net) utilizes proprietary technology developed by **Plastic Technologies, Inc.**, to produce recycled post-consumer PET for reuse back into consumer packaging applications. Located in a state-of-the-art manufacturing facility in Bowling Green, Ohio, **Phoenix** has been in continuous operation since 1992 and is the world’s largest supplier of both **LNO™** food grade and **NLP™** non-food grade recycled PET pellets. Phoenix licenses PET recycling technology worldwide and in 1999 received the first-ever “Letter of No Objection” from the US FDA for using patented technology to convert curbside recycled PET into food grade resin usable in direct food contact. Today, **Phoenix** has a capacity exceeding 80MM lb/yr and offers toll pelletizing, crystallizing, solid-stating to customers nationwide. **Phoenix** is an ISO-certified PET recycling company and received the Recycle Ohio Award in 2000.

Preform Technologies, LLC is a specialty injection molding manufacturing company that provides PET preforms and other specialty injection molded parts to **PTI** customers. **PTLLC** began operation in January 2003 and offers **PTI** customers continuous production capacity as well as options for producing market test quantities of PET preforms.

PETWall, LLC is a joint venture company equally owned by **PTI** and **PTI’s** partner, **Non-Contact International (NCI)** and develops and licenses proprietary high-speed on-line process control gauging technology to the packaging industry.

Minus 9 Plastics, LLC, is a joint venture technology development company that has developed and licenses patented nano-materials for use in packaging applications.

PTI Investment Associates, LLC was formed as an investment company for all **PTI** employees who wish to participate in **PTI** technology and capital project investments.

1984 to 1985 – VP and Director of R&D, Plastics Group, Owens-Illinois, Inc.

Responsibilities: All research, development and engineering for Plastic Products Division, Closure Division, and Component Products Division

Scope: Directed a technical staff of 300 people with responsibility for all plastics R&D, mold design, package development, machine design, customer service, quality assurance, manufacturing engineering, and international technical assistance.

Accomplishments: Commercialization of a proprietary compression forming process for closure manufacture; commercialization and start-up of a totally automated injection molding plant; commercialization of a proprietary adhesiveless labeling system; commercialization of new polyester custom packaging products.

1982 to 1984 – VP & Tech Director, Plastic Products Division, Owens-Illinois, Inc.

Responsibilities: Research, development and engineering for the Plastic Products Div.

Scope: Directed a technical department staff of 190 people with responsibility for all plastics R&D, mold design and package development, machine design, customer service, quality assurance, manufacturing engineering and technical assistance.

Accomplishments: Commercialization of a proprietary multilayer blow molded container process. Decentralization of corporate plastics research and development departments. Commercialization of a second generation proprietary wheel blow molding machine and in-mold labeling system.

1978 to 1982 – Technical Director, Plastic Beverage Division, Owens-Illinois, Inc.

Responsibilities: All polyester product and process research and development related to commercialization of polyester beverage bottles and other polyester containers.

Scope: Directed a technical staff of 40 people with responsibility for all polyester product and process development, start-up and support of commercial manufacturing operations, quality assurance, and customer service.

Accomplishments: Commercialization of the successful polyester beverage container.

1975 to 1978 – Manager, Plastic Process Development, Owens-Illinois, Inc.

Responsibilities: New process and product development with emphasis on commercial polyester container processes.

Scope: Managed a technical staff of 30 people with responsibility for all corporate plastic process development, including blow molding, injection molding, orientation blow molding, and thermoforming.

Continued on the next page

Accomplishments: Development of proprietary technology and machinery for the commercial polyester container business.

1972 to 1975 – Sr. Scientist, Plastics Materials and Processes, Owens-Illinois

Responsibilities: Plastic materials and process research, orientation blow molding and injection molding process development.

EDUCATION

University of Michigan - Ph.D. - Engineering Plastic Materials – 1972

Dartmouth College - MS - Materials Science – 1968

Dartmouth College - BS - Engineering Science – 1966

HONORS

“Philanthropist of the Year” – with wife, Betsy - 2006

“Entrepreneur of the Year – Finalist Great lakes Region” – Ernst & Young – 2005

“President’s Award” – Employers’ Association - 2005

“Alumni Merit Award” – Dept. of Materials Science & Eng., U of Michigan – 2002

“Partners in Progress Award” - NW Ohio Regional Growth Partnership – 2001

“Manager of the Year” - American Management Association - 1996

“Small Business Man of the Year” - Toledo Area Chamber of Commerce - 1995

“Entrepreneur of the Year – Northwest Ohio” - Ernst & Young – 1989

PROFESSIONAL AND COMMUNITY ACTIVITIES

American Chemical Society

Polymer Processing Society

Society of Plastic Engineers

SSOE, Inc Architects & Engineers – Board Member

Toledo Area Small Business Association - Past Board Member

Toledo-Lucas County Port Authority – Past Board member

Toledo-Lucas County Regional Growth Partnership – Board Member

Lucas County Solid Waste Policy Committee – Industrial Advisor

Toledo Technology Academy – Industrial Sponsor

Toledo School for the Arts – Board Member

Northwest Ohio Eng and Technologies Education Foundation – Board Member

Continued on the next page



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EASTMAN

Ohio Polymer Strategies Council – Board member
 University of Michigan College of Engineering – Alumni Advisory Board
 University of Toledo College of Engineering – Industrial Advisory Board
 University of Toledo – Board Member
 University of Toledo – Chairman Institutional Advancement Committee
 University of Toledo – Board Member, Office of Global Initiatives
 Science and Technology Corridor Corporation – Board Member
 Medical University of Ohio – Board Member
 Toledo Museum of Art – Business Council
 Toledo Symphony Orchestra – Board Member and Exec Committee member
 Toledo Zoo – Business Council
 Technology Action Board (Ohio) – Former Board Member
 Regional Technology Alliance – Founding Chairman and Board Member
 Third Frontier Advisory Board (Ohio) – Board Member
 Toledo Area Arts and Culture Strategic Planning Committee

OTHER INTERESTS

Building and restoring classic cars
 Woodworking
 Piano

PUBLICATIONS, LECTURES AND PATENTS

1. T. E. Brady, "Innovations in Packaging design," paper presented at the Ohio Polymer Emerging Technologies Forum, Columbus, OH, December 12, 2006.
2. T.E. Brady and E.C. Brady, "Striking a Balance," Convocation Speech given at the University of Toledo College of Engineering Convocation, May 6, 2006.
3. T.E. Brady, "Marketing New Technologies," Lecture at the University of Toledo Entrepreneurship Seminar, February, 2006.
4. T. E. Brady, "The PET Industry - Beyond 2005," presentation at Southeastern Container Planning Meeting, May 25, 2005.
5. T. E. Brady, "The Changing PET Profit Zone," paper and presentation at PET Strategies Conference, October 7, 2003.
6. T. E. Brady, "Becoming a Professional," address delivered at the Toledo Technology Academy Graduation Ceremony, June 4, 2003.

Continued on the next page

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Contact: Jeff Light, A-ToP Senior Account Executive
 Director – SPE Blow Molding Division

7. T. E. Brady, "Shaping the Future," address delivered at the University of Toledo Engineering School Honors Convocation, April 27, 2001.
8. T. E. Brady, "History of the PET Bottle Industry," Krupp Plastics Rubber and Machinery Company 25th Anniversary Celebration, June 20, 2000.
9. T. E. Brady, "Plastic Recycling", Northwest Ohio Center for Environmental Services, Toledo, Ohio, September 30, 1992.
10. T. E. Brady, "A Study and Review of PET/PVC Separation Technologies", The National Association for Plastic Container Recovery, Charlotte, North Carolina, September 14, 1992.
11. T. E. Brady, "Products Liability From a Plastics Perspective", Ohio Association of Civil Trial Attorneys, May 3 - 4, 1991.
12. T. E. Brady and F. E. Semersky, "Design For Plastic Packaging", FoodPlas '91, Plastics Institute of America Conference, March 4 - 6, 1991.
13. T. E. Brady, "Barriers to Technology-Based Business Development", Tech Ohio, Sponsored by Enterprise Development, Inc., Cleveland, Ohio, June 11, 1990.
14. T. E. Brady, "Commercial Recovery of Mixed Industrial Plastic Waste", RecyclingPlas, '89, Plastics Institute of America Conference, May 24 - 25, 1989.
15. T. E. Brady, "Technology of Food Packaging", FoodPlas '89, Plastics Institute of America Conference, March 7 - 9, 1989.
16. T. E. Brady, "High Productivity Machinery Systems for the Manufacture of Plastics Packaging", FoodPlas '88, Plastics Institute of America Conference, February 29 - March 3, 1988.
17. T. E. Brady, "Issues for the Future in Packaging", FoodPlas '87, Plastics Institute of America Conference, March 2 - 5, 1987, also Campbell Soup Company Packaging Technology Conference, March 25, 1987.
18. T. E. Brady, "Innovations in Plastic Packaging", Matrix Technologies Annual Technology Seminar, February 19, 1986.
19. T. E. Brady and S. A. Jabarin, "Thermal Treatment of Cold-Formed Poly (Vinyl Chloride)", presented at SPE ANTEC, Atlanta, GA, May, 1976.
20. T. E. Brady, "Mechanical Properties of Biaxially Oriented Poly (Vinyl Chloride)", Polymer Eng. Sci., 16, 638 (1976).
21. T. E. Brady, S. A. Jabarin and G. W. Miller, "Transport Properties of Oriented Poly (Vinyl Chloride)", chapter in Polymer Science and Technology, Vol. 6, Permeability of Plastic Films and Coatings, ed. H. B. Hopfenberg, Plenum Publishing Corp. (New York, 1974).
22. T. E. Brady and G. S. Y. Yeh, "Mechanism of Yielding and Cold Flow in Glassy Polymers", J. Macromol. Sci.-Phys., B9 (4), 609 (1974).
23. T. E. Brady and G. S. Y. Yeh, "Effect of Annealing Cold-Drawn Polystyrene and Polymethyl Methacrylate Below TG" J. Macromol Sci.-Phys. B7 (2), 243 (1973).
24. T. E. Brady, and G. S. Y. Yeh, "Similarity Between Craze and Shear Band Morphology in Polystyrene", J. Mat. Sci., 8, 1083 (1973).
25. T. E. Brady and G. S. Y. Yeh, "Effect of Annealing Cold-Drawn Polycarbonate Below TG," Polymer Letters, 10, 731 (1972).
26. T. E. Brady and G. S. Y. Yeh, "Yield Behavior of Glassy Amorphous Polymers", J. Appl. Phys., 43 (12), 4622 (1971).
27. T. E. Brady, "Structure and Deformation of Glassy Amorphous Polymers", Ph.D. Thesis, University of Michigan, 1971.
28. T. E. Brady, "Fiber Suspension Flow in a Tube", MS. Thesis, Dartmouth College, 1968.
29. U.S. Pat 4,233,022, Heat Setting of PET Containers.
30. U.S. Pat 4,153,667 Oriented PET Containers.
31. U.S. Pat 4,482,518, Plastic Article Shrinkage Reduction.
32. U.S. Pat 5,740,934, Container with Vertical Stiffening in Central Panel.
33. U.S. Pat 5,803,289, Container having Disappearing and Reappearing Indicia.
34. NZ Pat. 319,395, Container With Stiffening in the Central Panel,
35. US Pat 6,066,287, Gas Assist Injection Molding

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Board of Directors Meeting

Minutes of the Board of Directors of the Blow Molding Division of SPE,
Meeting held on February 17, 2009 Atlanta, GA Callaway Gardens

❑ **Call to order at 12:30**

BOD Members present: Benjamin Lopez, Bob Fitch, Scott Steele,
Jonathan Meckley, Bob Jackson, Mridula Kapur, Gary Carr, John Rathman,
Kyle Grodzinski, Terry Glass, Daryle Damschroder, Geoff Ward,
Gerald Hobson, Clyde Bonhe

BOD Members Excused: Ron Puvak, Mark Barger, Lewis Ferguson
Surendera Agarwal, Mark Heitker, Win Burrington, Bill Galla, Jeff Light, John Headrick,

❑ **Treasurer's Report** – John Rathman

Subject: Winter Treasurer's Report

Since the last report dated October 4, 2008:

Operating Fund Highlights:

Expenses

\$ 27024 - Remaining ABC 2008 Expenses

\$ 10500 - Deirdre Turner – 70% remainder of consulting fee

\$ 2645 - Blow Molding Website Service for 3rd Quarters 2008 and 2nd half website
redesign and 50 copies of Newsletter for ABC 2008 distribution

\$ 1018 - Councilor Travel Expense for Fall 2008

\$ 716 - ABC 2008 – 30% profit split with SPE National

\$ 610 - Blow Molding Meetings and Teleconferences

\$ 450 - Director Shirt Program

\$ 350 - Tax Preparation for 2007

\$ 260 - SPE Blow Molding Newsletter Work

Continued on next page

M.C. Molds, Inc 125 Industrial Drive - Williamston, MI 48895 P. 517-655-5481 F. 517-655-4826 Email - sales@mcmolds.com BIN Simpson - Sales		JB 125 Industrial Drive - Williamston, MI 48895 P. 517-655-4734 F. 517-655-7400 Email - jbrap@jbipart.com John Palazzolo - President	
Extrusion Blow Molds, Spin Trimmer, Foam Molds, Vacuum Molds & Repair / Refurbishment		Products & Machinery	
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Stretch Blow Molds	ABS Models & Dirit Molds	Inline Belfasher with Tool	
			
Spin Trimmers	Transfer and Trim Tools	Hydraulic Belfasher	Hand Lead Belfasher
			
	Recip Molds		
			

\$ 239 - ABC 2008 – 10% profit split with SPE Oklahoma Section
\$ 206 - Seed Money for ABC 2009 – Flyer and design work
\$ 26 - Postage and Office Supplies
\$ 4,044 - Total

Income:

\$ 8094 - ABC 2008 Revenues
\$ 5000 - Donation from Chevron Phillips for ABC 2008 Expenses
\$ 2400 - Platinum & Gold Sponsorships
\$ 1049 - SPE 4th Quarter 2008 Membership Rebate
\$ 214 - Interest
\$ 120 - Payment by BOD for shirts ordered
\$ 16,877 - Total

Disbursement Fund Highlights:

Expenses

\$ 4000 – Plastivan during ABC 2008
\$ 1484 – Student Travel to ABC 2008
\$ 491 - Matthew Zimbicki – Penn State Erie – Student Travel to ABC 2008
\$ 5,975 - Total

Income

\$ 309 - Interest
\$ 309 - Total

We currently have a twelve month \$20,000 CD earning 3.6% interest that will mature on March 12, 2009.
Another 12 month \$5,000 Certificate of Deposit will mature on July 31, 2009, earning 3.7% interest.

Continued on next page

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Grant Fund Highlights:

The January statement has not been released and 2009 interest rate has not been announced. During the year of 2008, the SPE Investment Plan was earning 4.25% interest (about \$640/month)

Our 3 fund's balances are:

<u>Fund</u>	<u>Balance</u>
Operating	\$ 36,593.92
Disbursement	\$ 11,091.21 + \$25,000 in CD's
Grant	\$ 178,455.29 Amount as of December 5, 2008
Total Funds	\$ 251,140.42

Voted and 2/3 vote met approved @ 1:26 (Bob Jackson - motioned)

Councilor's Report – Mark Barger

Council Summary: 10/18/2008

SPE President Bill O'Connell called the meeting to order.

President O'Connell presented his comments on the year to date and the goals for the meeting.

President O'Connell stated that this is the first Council meeting with electronic participation.

Those participating electronically have a voice but no vote in this meeting. President O'Connell talked about all the Sections and Divisions that he has visited and his plans for the rest of his term.

Executive Director Susan Oderwald pointed out that increasing revenue is important to the Society's survival and that attracting new members is vital.

Investments in our Internet technology are expected to help attract new members. The proposed budget assumes membership numbers stabilized at 2008 end-of-year levels. Other revenue-boosting ideas including corporate outreach are actively in process.

Continued on next page



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❑ **Elections**

Council elected the following individuals as Society officers for the 2009-2010 term, which begins at ANTEC (June 22-24).

President-elect – Ken Braney

Senior Vice President – Russell Broome

Vice President – Brent Strong

Non-officer position: Chair for the Council Committee of the Whole - Helen Basso (2009-2010)

❑ **Treasurer's Report**

SPE's financial position is continuing to erode as the year wears on. Lower revenues are the key issue.

Expenses are generally running at or below budget, but not enough to make up the difference in lower revenues. SPE is looking at restructuring its operations in the last quarter of 2008 to be better positioned financially for 2009. The consolidated statement and dashboard can be found at the end of the Councilor's report.

❑ **Budget**

The major Council action was the approval of the 2009 calendar-year budget. A full write-up on the budget was distributed to Councilors and to all Section and Division Board members in preparation for this meeting. The budget that was approved calls for gross income of \$4,840,000, direct expenses of \$4,787,500, and a net income of \$52,500. Of particular note is that rebates to Divisions and Sections will be reduced by 2/3. Council approved the budget unchanged from the original presentation.

❑ **Bylaws & Policies**

The Bylaws & Policies Committee submitted items for consideration by Council:

- Bylaws for Second Reading and Vote
 - 3.3.3 Election Date
 - 10.10.10 foundation
 - 10.10.11 17.6 Temporary Suspension of a Bylaw
- Electronic Participation
 - 5.1 Annual Business Meeting
 - 5.3 Quorum
 - 4.4 Special Business Meetings
 - 2.2.2 Council Meeting Times and Places
 - 2.2.3 Quorum
 - 14.7 Participation and Voting
- Governance Downsizing
 - 3.3.3 Council
 - 1.1 Officers of the Society
 - 5.5.5 Staggering of Terms
 - 1.1.1.1 Executive Committee Membership
 - Policy 022 Vice Presidential Transition
- Policies for Council Review and Vote
 - Policy 015 Special Interest Group Establishment
 - Policy 016 Student Chapter Establishment
 - Policy 020 Code of Ethics
 - Policy 021 Embargoes and Sanctions

Council voted to approve all items as presented.

➤ The SPE Foundation

SPE Foundation Managing Director Gail Bristol updated the Council on the status of the Foundation. She reviewed the grants and scholarships presented so far and noted that the Plastics Pioneers have established a PlastiVan matching-grant program. Foundation finances are tracking well and the Foundation is healthy. The Foundation will be folded back into SPE effective December 31, 2008, as previously approved by Council.

➤ SPE Awards

The SPE Celebrates award ceremony will take place at a luncheon between the two Council meetings on Sunday prior to ANTEC@NPE. SPE will present the International Award, Business Management Award, and Education Award at the Plastics Academy Hall of Fame Dinner on Monday evening at NPE.

Continued on next page

❑ **Committee Meetings**

Fifteen committees met prior to the Council meetings. The following Committee/Officer Reports were given at the Council meeting:

➤ Sections Committee Report

Councilor Helen Basso, Chair of the Sections Committee, reported on the activities of the Committee. The Committee approved the reactivation of the France Section and the merger of the Palisades and New Jersey Sections. The new Section will be called the Palisades/New Jersey Section.

➤ Divisions Committee Report

Councilor Dale Grove reported on the activities of the Divisions Committee. The Divisions Committee recommends that the New Technology Committee approve the merger of the Radiation Processing of Polymers Europe and Radiation Processing of Polymers North America SIGs. The new group will be called the Radiation Processing of Polymers SIG.

➤ New Technology Committee Report

Councilor Prithu Mukhopadhyay, Chair of the New Technology Committee, announced that the New Technology Symposium will be held on November 11 and 12, 2008.

➤ ANTEC Committee Report

Councilor Bill Arendt, Chair of the ANTEC Committee, noted that paper submissions are up for this year's ANTEC.

➤ Communications Committee Report

Councilor Roger Kipp, Chair of the Communications Committee, reported on the activities of his Committee. The new member handbook is a key output of this team. His Committee also had input into the new SPE website.

➤ Council Committee-of-the-Whole

Brent Strong, Chair of the Committee, conducted the meeting prior to the formal Council meeting. Items discussed at this meeting included rebate structure, status of the Society, student activities update and remote Council participation.

Continued on next page



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➤ 2009 Operating Plan

President-elect Anderson gave Council his thoughts on the 2009-2010 operating plan. He highlighted the emphasis on further engaging Generation X and Generation Y in SPE membership and activities. Key strategic objectives are: membership growth through increasing benefits focused on Generations X and Y; and revenue growth through new partnerships, licensing, and broader marketing efforts to grow non-dues revenue.

Tactics will include continued improvements to the SPE website, corporate outreach, getting the most out of our participation in ANTEC@NPE, and implementation of new technical forums like virtual conferences.

➤ Virtual Conference Demo

SPE Senior Event Manager Lesley Kyle explained the virtual conference that SPE will be hosting in March 2009. This will be a two-day conference using live and recorded presentations, a "cyber lounge," and a virtual trade show. The cyber lounge will be a chat room environment. This event is expected to be attractive in a down economy, in which attendees may otherwise be subject to travel bans and restricted travel budgets. It is also expected to attract individuals from Generations X and Y. The Failure Analysis & Prevention SIG has stepped up to co-sponsor this first virtual conference. A demonstration of the virtual conference technology was shown to Council.

➤ PRESENTATIONS

The Color & Appearance Division returned its rebate to the Society.

The next formal Council meeting is scheduled for June 21, 2009, in Chicago, Illinois.

All relevant Council materials can be found via:

<http://extranet.4spe.org/council/index.php>

Financial information from the Treasurer's Report can be found on the following pages.

ANTEC™@NPE2009:

- NPE 2009 will be held at McCormick Place, June 22-26.
- Formal contact with SPI is in final stages of preparation (no major outstanding issues). ANTEC will be held concurrent with the NPE show. ANTEC will occupy the new West Hall.
- SPE Seminars will either be co-located with the technical sessions or in conference center space connecting the Hyatt Regency McCormick Place to McCormick Place.

[Continued on next page](#)

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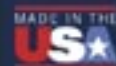
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- Discussions with SPI regarding the appointment of an SPE hotel are under way. Negotiations also continue regarding the scheduling of morning and afternoon sessions.
- Planned submission and review deadlines for ANTEC 2009:
- Online submission site opens by June 30
- Abstract submission: September 4
- Abstracts will be encouraged, but not be required
- Paper submission: November 6
- Paper review deadline: December 12
- Final paper revision deadline: January 9
- Matrix Meeting: January 6

Closing Comments:

- Plans for 2009 Council meetings surrounding ANTEC/NPE are still being finalized. It is possible that there will be only one Councilor's report that encompasses the next three Blow Molding Division BOD meetings, depending on when the Blow Molding Division schedules its 2nd 2009 meeting.

❑ **Education** – Mark Heitker

Subject: ANTEC Education Committee Report – Activities since Winter BOD Mtg

The Education and Awards Committees had a conference call on May 26th.

Memorial Scholarship program:

Our current scholarship recipients are:

Jessica Patz - Penn State University Erie - 1st year \$8000 Carrie Fox Solin Memorial Scholarship

Nicolas Cruz - Pittsburg State University - 1st year \$4000 John Raymonds Sr. Memorial Scholarship

Russell Ankerbrandt – Ferris State University – 2nd year \$8000 Carrie Fox Solin Memorial Scholarship

Jason Merkle - Ferris State University – 2nd year \$8000 John Raymonds Sr. Memorial Scholarship

Two new recipients have been chosen for new scholarships starting next fall.

Marcus Gardner – Ferris State University – \$8000 Carrie Fox Solin Memorial Scholarship

Evan Perkins - Ferris State University – \$8000 ExxonMobil Chemical Company Scholarship

Our new scholarship recipients have been contacted to congratulate and invite them to our ABC 09.

Our scholarship program is being managed through the SPE Foundation. Program info can be found at the SPE website.
<http://www.4spe.org/foundation/scholarships.php>

2009 Corporate Educational Sponsors:

ExxonMobil Chemical Company contributed \$5000 to our education fund again this year. Thanks to Bob Fitch and Clyde Bohnel!

Graham Engineering Corporation supports the Continuing Education Grant Program. Their annual contribution of \$2000 has been received.

2009 Student Design Competition:

42 project abstracts were submitted, 2 from Penn College of Technology and 40 from Penn State Erie.

40 final submissions from Penn State Erie were reviewed. \$2000 was budgeted for up to two \$1000 awards. The committee agreed to make 3 awards this year due to the number of excellent submissions. The subcommittee chose the following winning entries.

1st place - \$1000 - Brad Beers - Extrusion Blow Molded Orthotic Devices

2nd place - \$500 - Zachary Stefanik- Poly-Hanger Hang-on Tree Stand

3rd place - \$300 - Steve Parrish - Extrusion Blow Molded Gun Stock

The winners will be requested to exhibit their projects at the next ABC.

Graham Engineering Corporation Continuing Education Grant Program

(Former Workplace Scholarship):

No new awards during this period. Up to \$500 grants are available to pay for ABC registration or other blow molding related programs. See our web site for qualification details.

Continued on next page

Blow Molding Division School Grant Fund:

Grants from The SPE Foundation/Blow Molding Division are available to educational institutions seeking funding for the purchase of blow molding equipment or educational resources pertaining to blow molding. Eligible items include machinery, installation, tooling, auxiliary equipment, instrumentation, controls, finishing equipment, software, and training or educational modules. This program is promoted by the SPE Foundation, for information go to <http://www.4spe.org/foundation/blowmoldinggrant.php>.

ANTEC 2009 Student Activities:

We donated \$500 to the ANTEC Student Activities Fund. There are no Blow Molding Division Education activities planned at the ANTEC/NPE. There are few students expected to attend as the ANTEC date is after the end of the spring term. There are no student blow molding papers scheduled.

ABC 2009:

We intend to invite students and faculty from the plastics programs at Ferris State U, Penn State Erie, and the MSU School of Packaging to be our guests. A complimentary tabletop to promote their programs will be offered in the sponsor area. \$4500 is budgeted for student/faculty travel assistance for the ABC, this will include our current scholarship recipients and design competition awardees.

We plan to evaluate the potential for a "Job Fair" for student attendees involving resume distribution and an area for introductions.

PlastiVan:

We plan to ask the Western Michigan SPE Section if there is interest in cosponsoring and coordinating the PlastiVan at area schools during the ABC 2009 week.

❑ Newsletter – Ron Puvak

Newsletter – Interest and Topic Leaders

- PET SBM column – Scott Steele.
- Column Extrusion blow – Gary Carr.
- Industrial Blow Molding column – Ben Lopez.
- Injection Blow Molding column – Ben Lopez.
- Material forecast – Bill Galla
- K07 product review
- Focus on highlights / key issues
- Open participation to the BOD
- Survey – ABC input
- Newsletter review (focus on highlights & key issues)
- Rework our Mission Statement – Gary Carr

❑ Membership – Lew Ferguson (Report this at the meeting)

2007 Through December 31:

2007 New 203 >Primary 112 + Secondary 91 = 203

2007 Suspended through December > 184

2008 Through September 30

2008 New >Primary 49 + Secondary 57 = 106

2008 Suspended through September > 160

D-30 membership is down in September 2008 compared with 2007, as is the Total SPE Membership. Percentage of Primary Members in D30 and our percentage of Primary Members in the SPE Total have decreased marginally. Since 2005, D30 remains consistent at about 5.2 % on the total SPE membership, primary = 3.0 %

Sponsorships – Jeff Light - Registered sponsors remain unchanged although with Babli's recent additions to the web-site, Deirdre and I remain optimistic additions are forthcoming.

Web Site – Babli Kapur - Updated Site Layout:

- Home
- Sponsors
- Conferences

Continued on next page

- Educational Activities
- Technical Information
- Industry Links (roll industry links under blow molding references)
- Blow Molding References
- What's new?

Submenu Details:

- Mission statement (page 3, 2nd click) – J.M.
 - BOD Member list - All
 - Chair message – J.M.
 - BM Division Activities (brief activity list) – J.M.
 - Current year BOD meeting calendar – J.M.
 - Quarterly Newsletter – R. Puvak
 - Award winners – J.M.
- Focal point (responsible for compiling information for this section): J. Meckley

Sponsors: (Conferences)

- ABC Conference (general information - what it is about; listing of past conferences; posting of prior year agenda; prior year attendees list; location and agenda of current year conference)
Focal Point to provide info: ABC co/chairs Link to ANTEC-NPE [SPE & Plastics Industry Event Calendar](#)
Focal Point info: ANTEC Co/chairs
- Link to other conferences

Educational Activities:

- Undergraduate Scholarships
- Continuing Education Grants
- School Blow Molding Grant Program

[Continued on next page](#)



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Be easily fabricated	Faster machining rates than tool steels	<ul style="list-style-type: none"> • Lower mold fabrication costs



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Corporate Supporters of Our Educational Programs
Direct Contributors include: Focal Point: M. Heitker
- Captive Plastics, Inc.
- ExxonMobil Chemical Company
- Graham Engineering Corporation

Technical Information:

- History of blow molding (S. Steele)
- Resin types, advantages/disadvantages, properties, test methods
(B. Fitch, J. Rathman, M. Heitker, W. Galla, B. Kapur)
- Fabrication methods: EBM, IBM, ISBM (B. Jackson, S. Steele)
- Types of equipment, molds, tooling
(B. Lopez, G. Carr, K. Grodzinski, D. Damschroder)
- Troubleshooting
Overall focal point: J. Headrick

Blow Molding References:

1st click on BM refs will show topics listed below. 2nd click on each topic will bring up a submenu as shown in following slides. 3rd click on sub-submenu topics will take user to pertinent website. No more than 3 clicks on BM webpage to access information.

- Industry links
- Past ABC (L. Ferguson to send Babli) and ANTEC Blow Molding Division Papers
(subject to permission from SPE)
- Key Blow Molding Web Sites, Books and Other Media
- Schools with Blow Molding Programs
- (Picture Gallery – idea rejected)

Continued on next page

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Industrial Links:

- Resin Producers
- Equipment Manufacturers Converters
- Brand Owners e.g., Food & beverage, HIC BM, PC&T, LPBM, etc.
- Regulatory

Past ABC and ANTEC Blow Molding Division papers:

- ABC Conference Archive
- ANTEC Blow Molding Division Archive

What's New:

- ABC Conference
- Display BOD voted best papers from previous year's ABC & ANTEC BM Division
- Quarterly BM Division Newsletter link

June'08 Website Update:

- In summary: Review entire site – correct errors; update information; remove “under construction sites” – B. Kapur
- Remove “under construction signs”
- Post updated Sponsor info
- Post ABC 2008 conference flyer
- Update past ABC information
- Post available BM Reference info
- What's new – modify; post ABC 2008 and newsletter link

July Action Items (Information Needed for July end Update)

- Technical information update
 - History of blow molding write up - S. Steele
 - Resin types, advantages/disadvantages, properties, test methods compile table with input from B. Fitch, M. Heitker, J. Rathman, W. Galla - B. Kapur
 - Fabrication methods: EBM, IBM, ISBM write up - S. Steele
 - Types of equipment, molds, tooling - B. Lopez
 - Troubleshooting obtain info from J. Headrick– S. Steele
- Provide any additional reference information - All
 - BM or Plastics websites
 - Pictures or videos
 - Colleges/Universities with BM programs
 - Brand Owners – T. Glass
 - Regulatory – T. Glass
 - Convert 2002-07 ABC papers to pdf format – Babli

August'08 Action Items (Information Needed for Aug end Update)

- All to review website
- Provide any additional information for reference section
- Check links

Aug'08 End Website Update:

- Finalize website format
- Finalize reference lists
- Industrial Links

Marketing – Gary Carr

Marketing Meeting: February 17, 2009

Last meeting: October 7, 2008

Action Item: Agreed to post student resumes on web site and table top at ABC.

Status ?: Education committee chair Geoff Ward to provide resume's.

- ABC needs to increase brand owner involvement
- How to draw them in?
- Could we enlist them to speak?

Continued on next page

- Broaden our scope, ask them, conduct a survey. Put it together and send out.

Action Item:

Board members to submit to Deirdre a few names each of brand owners we are aware of.
Board members can also elect to do direct mailings to contacts with conference details.

Status ?: The personal touch is needed, Board members to reach out to our contacts!

Action Item:

Proposal that each Sponsor be given two 2 free conference registrations for targeted attendees from their direct customer pool. Target end user and converters.

- New Business: ABC 2009 advertising: Improve mechanism to facilitate networking at the Next ABC.

Action Item: Table till the October meeting

OPTION #1: Tipped in AD in Plastics News

- Advertise the ABC with Plastics News
- Run a one time 8 1/2" x 11" Tipped insert in Plastics News to the 5,951 blow molding processors in their mailing list.
- Schedule insert for approximately 1 month prior to event
- Cost \$3,294 Net (plus ad development/ printing)
- Ad can be front and back side!
- List Corporate Division sponsors on back side!
- Cost breakout: \$3,500 tip-in, \$1,500 printing & \$1,000 Ad development

Action Item: Investigate cost of ad in Plastics News

OPTION #2: Repeat Plastics News e-mail blast:

- ABC 2008 sent 4,701 e-mails
- 3,156 received
- Unique open 414
- Unique clicks 55
- Visited registration page 15
- Cost: ~ \$2,000

Action Item: Focus on print material and have the ABC program ready prior to NPE, pass out in board member booths: G. Carr

Action Item: Investigate whether the Blow Molding Division can display at the SPE booth during NPE 09 or possibly have a 10'x10' booth with rotating board member support. Kyle G.

- Newsletter – Ron Puvak

Action Item: Full board support is needed to provide content. Most recent Newsletter was all ads! Postcards mailing to check efficiency. On hold – May be able to use e-mails for verification – RAP can use new blast program.

- This helps our ABC's e-mailing list.
- Speak with national.
- Newsletter editorial schedule for 2009:
 - Publish by:
 - Announce Lifetime awardees
 - ABC 2009 Major article and registrations
 - ABC 2008 presentation – one selected
 - Industrial Blow Molding column – Ben Lopez.
 - Publish by:
 - ABC 2009 focus
 - Column Extrusion blow – Gary Carr.
 - ABC 2008 presentation – one selected
 - Sabic ANTEC paper
 - Sponsorship supplied Press Release Jeff Light to send a note to the sponsors
 - Publish by:
 - ABC 2009 focus
 - Injection Blow Molding column – Ben Lopez.
 - ABC 2009 presentation – Preview???
 - Publish by:
 - ABC 2009 wrap-up
 - PET SBM column – Scott Steele.
 - ABC 2009 presentation – one selected
 - News Briefs
 - Focused columns could be generated.

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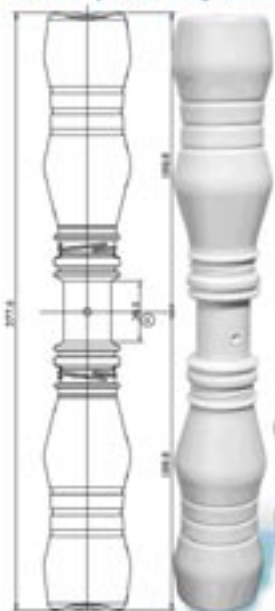
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