



SOCIETY OF PLASTICS ENGINEERS

BLOW MOLDING DIVISION

Volume 2008 Edition 4

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ABC 2007
Surendra Agarwal
Lew Ferguson



For over a day and a half, the Blow Molding Industry descended on The Seagate Convention center to attend its annual technical showcase known as the ABC 2007. This event has become the premier industry venue for all segments of the blow molding industry from resin supplier to end-user.

This year's conference also included a distinguished list of attendees and keynote speakers. Highlighting day one was the Keynote Speaker, Ashok Sudah Vice President Graham Packaging who detailed the Current State of the Industry – Challenges and Opportunities and what is needed to meet those changes. Don Loepp, Plastics News gave the group the Blow Molding North American Market Analysis, Dave Cornell, DD Cornell Associates LLC looked at the WalMart Scorecard: A View From The Outside, while Roger Zellner, Kraft Foods spoke about the End-User Perspective on Sustainability of Food Packaging.

At lunch the group was treated to Rob Krebs of the American Chemistry Council explaining Sustainability: Now and in the Future how plastics is a very sustainable material.

The conference featured speakers who covered industry segments in both packaging and industrial applications. From resin developments to machinery innovations to automation, design and safety, no topic was missed. Attendees expressed great satisfaction on the scope and details they were exposed to during the conference.

The SPE Blow Molding Division's annual awards were presented at dinner, which highlighted the student scholarships and student design winners. A special segment of the evening was dedicated to the Division's Lifetime Achievement Award winner, Bill Gaiser, Founder of Broadway Industries.

For more information on this conference and presentation, go to the Division's web site at www.blowmoldingdivision.org.



**Become
a member**

**Join the
SPE
Blow Molding
Division**

Chairperson's Message



As we settle into this winter, the Board is already busy planning this October's Annual Blow Molding conference. We are excited about going back to the Chevron Phillips Technical Center in Bartlesville, OK. It has been several years since we have been there. Last time we were there, it was one of our most successful conferences. It is one of the few locations that allow the attendees to see Blow Molding equipment in action.

At our next Board meeting in February, we will be looking to define the topics for the conference. If you have any topical ideas, new technology, or want to speak, please contact me and I will forward the information at the meeting. We want to create a learning experience with new and relevant information for all of the attendees.

Please remember to mark your calendars for October 7th through the 9th. It will be an event you will not want to miss. I look forward to seeing you there.



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"It's About Decreasing Manufacturing Time."

Martin Cass, Fremont Plastic Molds

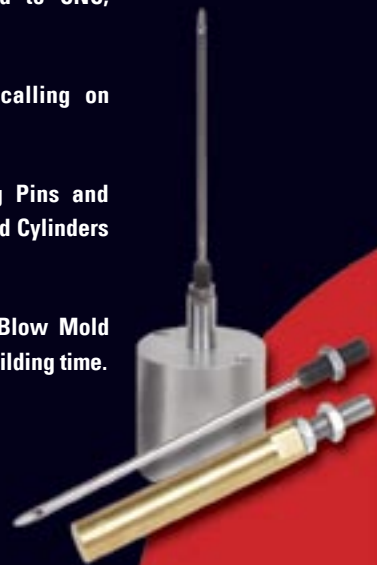
"Building industrial blow molds used to be a foundry-based industry, but now everything is different... One has to be completely dedicated to CNC, automation and standardization."

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



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FOR IMMEDIATE RELEASE

OSU Alumni Association Honors Peters as a Distinguished Alumni Award Recipient

Stillwater, Okla. – The Oklahoma State University Alumni Association is pleased to honor Don Peters as one of the 2007 Distinguished Alumni Award Recipients. Peters, along with five other recipients, was recognized at a public reception September 22 in Southwestern Legacy Hall of the ConocoPhillips OSU Alumni Center in Stillwater and later in the day during halftime of the OSU football game against Texas Tech. The award is present to alumni for professional achievement and community service.

Peters received his bachelor's degree in Soils from the Agronomy Dept., Oklahoma A&M in 1951. He spent his career with Phillips Petroleum Co. and subsidiaries, retiring after 49 years, 43 of which were in Plastics. Peters was the Principal Engineer of Blow Molding at Phillips Chemical Company.

Peters is the inventor and/or co-inventor of 36 patents. His most well-known inventions involve moving sections to blow mold irregularly shaped parts such as one-piece lids and handles of water coolers that people use every day. Peters also worked extensively with Phillips customers helping develop new products and providing technical service.

Peters was elected into the International Plastics Academy prestigious Hall of Fame and is one of 36 living members. He has been awarded three Lifetime Achievement Awards for his career accomplishments. He has authored and presented many technical papers and conducted seminars worldwide. Peters is a member of the Society of Plastics Engineers (SPE), a



“Fellow” of the SPE and an Engineer Fellow Emeritus of Phillips.

Peters served in the 38th Infantry Division Battalion Medical Detachment during WWII. For his service, he was awarded the Combat Medical Badge, the Philippine Liberation Ribbon with a Bronze Star, three Overseas Service Bars and other honorable awards.

While at Oklahoma A&M, he was a member of the varsity football team and the Agronomy Club. Peters is a Distinguished Alumnus in the College of Agricultural Sciences and Natural Resources.

Peters and his wife, June, have two children: Scott and Nancy, both graduates of OSU.

A special thank you to the OSU Alumni Association's Corporate Partners who so graciously provided support for this event: ConocoPhillips, Harrison Gypsum Co., and the OSU Foundation.

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Marla Farns Manager, Technology Licensing T: +1 302 683 3068 E: loly.farns@invista.com

Mike Gardner Research Scientist T: +44 164 257 2220 E: michael.w.gardner@invista.com



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Rob Krebs
 Director, Communications
 American Chemistry Council

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- Bio-Degradability
- Phthalates
- Bag Bans
- Marine Litter And Debris
- Bisphenol A Baby Bottle Safety
- Vinyl Teething Rings
- E&E Brominated Flame Retardants
- Sustainability – Uses Fossil Fuels

Why the Attacks?

- Personal Resonance with Shared Values
 - Baby Bottles and Teething Rings
 - The Ocean
 - Grocery Bags
 - Consumerism
- Aggregation = Imagined Impact = Good PR
 - 100 Billion bags
 - 50 Billion Bottles
 - Plastic Debris for Decades
 - Landfill Go On Forever

THE SOURCE REDUCING CAPABILITIES OF PLASTICS



Source Reduction: 17 grams or 25%

Blow Molder Sustainability

- Reduced the weight 25%
- 8 billion bottles created annually
- You reduced the amount of plastic by an amount equal to 2 billion bottles
- Take Credit – You Did That

PEANUT BUTTER (18 oz.)



Weight of the jar: ➔ 10.2 oz. ➔ 1.7 oz.

% of total weight that's product: 64% 91%

Shipping and energy comparison:

The bar chart shows the shipping and energy comparison for the two jars. The jar on the left (10.2 oz. jar) has a longer bar representing higher shipping and energy costs compared to the jar on the right (1.7 oz. jar).

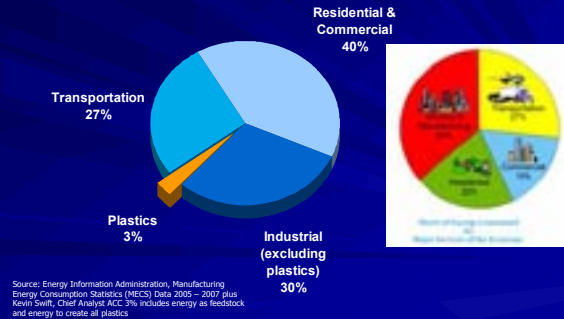
MUSTARD



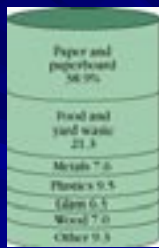
	Weight (oz.)	%	Weight (oz.)	%
Mustard	9.0	36	8.0	14
Package	5.0	54	1.3	86
	14.0	100	9.3	100

71% less packaging per ounce of product

Plastics Small User of Fossil Fuel

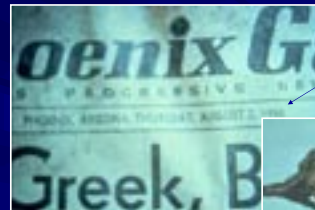


Landfills



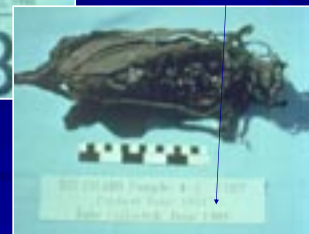
Breakdown of the nation's garbage, in percentage.
Total in 1994; 209 million tons
Source: EPA 1996

Nothing Degrades in a Landfill



Unearthed in 1990's

After nearly 20 years



WHICH BAG?



Height of 1000 bags: 46" 4"
Weight of 1000 bags: 140 lbs. 16 lbs.

Shipping and energy comparison:



RIGHT for the Environment

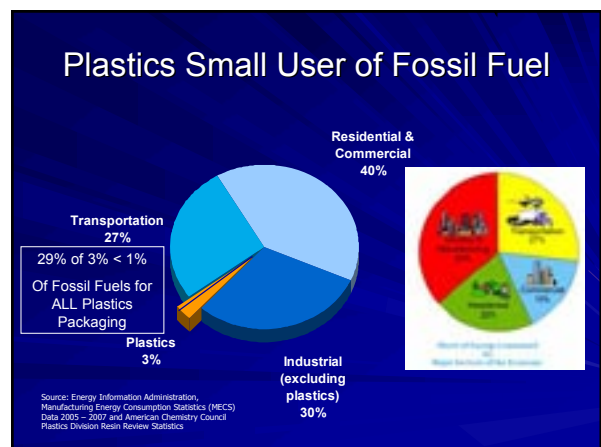
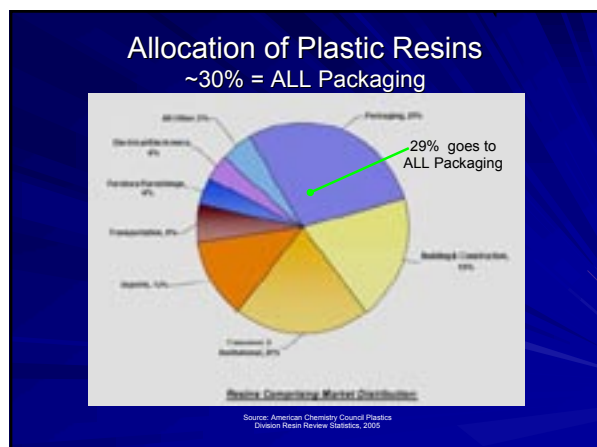
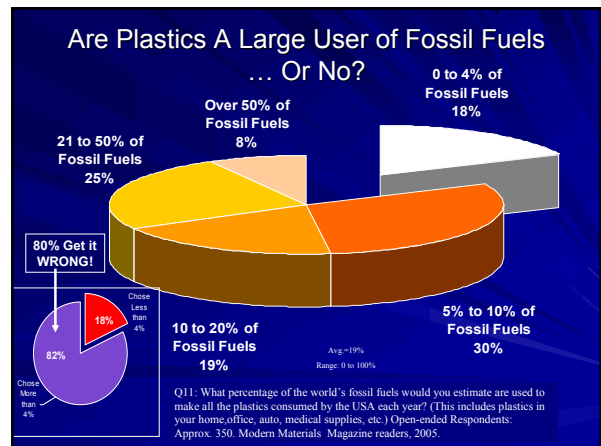
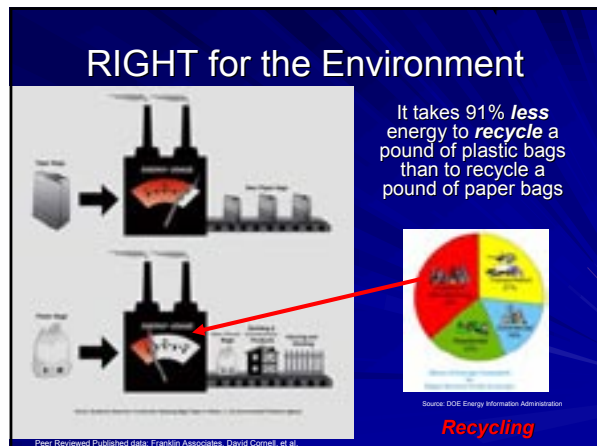
Plastic bags consume only 18% as much energy as needed to **make** paper bags.



Source: DOE Energy Information Administration

Manufacturing Cycle

Peer Reviewed Published data: Franklin Associates, David Cornell, et al.



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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:

Mark Heitker
INEOS Technical Center
1230 Battleground Road
LaPorte, TX 77571
Mark.Heitker@ineos.com
2. Include a letter of support from your company.
3. You will be notified of acceptance before the event that you wish to attend.

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EASTMAN

REPORT OF 2007 ANNUAL BLOW MOLDING CONFERENCE

Conference Sponsor - Blow Molding Division
Date of Conference - October 9 through 10
Location of Conference - Seagate Convention Center,
Toledo OH

Total Attendance _____ 237

SPE Members _____ 177

Nonmembers _____ 60

Number Attending from Host Section

Number Attending from Division 177

Registration Fee	Pre-Registration	On-Site
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Member	\$350	\$400
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Nonmember	\$475	\$525
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Registration fee include:

Preprint yes

Luncheon Ticket yes

Displays - Number 34 (University Displays)

Total Revenues \$80,164.00

Total Expenditures \$60,990.89

Surplus/Loss \$19,173.11

Educational program Raised \$19,000

Problem areas:

We still have trouble with head counts for meals and very late registrations. We ran short of food for the first lunch, and then every other was over supplied because we over reacted. We probably should charge more for late attendees because they cause a lot of trouble with the catering.

Also, we had a total of 6 people registering from foreign countries which required letters of invitation and a lot of leg work, and only 2 of them showed up.

The Seagate Center and the associated hotel are probably showing their age. We think the site is very good, but the attendees were grumbling. Our survey we ran on attendees (the first time we did this) had some negative comments. A convention center is too big for our conference and we may look for alternatives in the future.

Success of the Conference:

We hired a program coordinator this year which was a big help in getting the speakers lined up. This was her main activity and it definitely taxed her. It however paid off in having better prepared speakers.

The people who lined up the speakers did a great job this year getting timely and interesting topics – this activity is key.

The award banquet where we honor our Lifetime Achievement Award winner was another high spot.

Suggestions for improving future Conference:

Include what additional help might be supplied by the International Organization.

We can use some help from national with high profile plenary speaker ideas. We can go after them, but we need some help with contacts and perhaps a push here and there.

Send a completed copy of this report to the Conference Coordinator within ninety (90) days of the Conference.

CONFERENCE CHAIRPERSON:

Surendra Agarwal and Bob Jackson

DATE: November 7, 2006



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MoldMAX® Family of mold & tooling alloys:

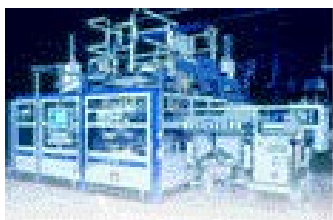
Product Name	Alloy	Hardness	Typical Applications
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MoldMAX® LH	Copper Beryllium	30 Rc	Injection & blow molds
MoldMAX® SC	Copper Beryllium	20 Rc	Injection & blow molds, hot runner systems
MoldMAX® XL	Copper Nickel Tin	30 Rc	Injection molds
NEW MoldMAX® V	Copper Nickel Silicon Chrome	28 Rc	Injection & blow molds

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Transfer heat uniformly	Uniform cooling	<ul style="list-style-type: none"> • Dimensionally correct parts • Minimized warpage • Reduced scrap rates
Sustain 1M+ cycle life	Excellent hardness, wear resistance, non-galling	<ul style="list-style-type: none"> • Higher cycle life with lower maintenance costs • Less downtime
Be easily fabricated	Faster machining rates than tool steels	<ul style="list-style-type: none"> • Lower mold fabrication costs



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AGENDA

SPE Blow Molding Division - Winter 2008 Board Meeting

Hampton Inn Atlanta-Buckhead
3398 Piedmont Road NE Atlanta, Georgia 30305
404-233-5656

February 18-19, 2008

Date /Activity	Time Allotted	Responsibility
February 18, 2008 (Monday)		
Executive Committee – Chastain Room	1:30 – 2:30	Jon Meckley
Education Committee – Chastain Room	2:30 – 4:00	Mark Heitker
Marketing Committee meets – Piedmont Room	2:30 – 5:00	Gary Carr
Dinner/Local SPE Meeting	TBD	Jon Meckley
February 19, 2008 (Tuesday)		
TPC Meeting – Piedmont Room	8:30 – 12:00	Surendra Agarwal
➤ ABC 2007 – Toledo, OH		Surendra Agarwal/
○ Wrap-Up		Lew Furguson
➤ ANTEC 2008		Surendra Agarwal
➤ ABC 2008 – Bartlesville, OK		Lew Furguson/John Rathman
○ Update		
➤ ABC 2009 – Toledo/MSU		
➤ ABC 2010 - TBD		
Lunch	12:00 – 1:00	
Board Meeting Call to Order – Piedmont Room	1:00	Jon Meckley
➤ Welcome New Members/Guests		Jon Meckley
➤ Non-Compete Reading		
➤ State of the Board		
Treasurer/Finance Report		John Rathman
➤ Treasurers Report		
➤ Budget Review		
Councilor Report / Discussion		Mark Barger
➤ Open Issues		
Nomination Committee		Ron Puvak
➤ Review of nominations slate for 2008-2009		
Education Committee Reports		Mark Heitker
➤ Student Scholarships		Mark Heitker
➤ Workplace Scholarships		Mark Heitker
➤ Design Competition & BM Education support		Bob Fitch
➤ Awards Sub-Committee		John Headrick/John Rathman
Marketing Committee Reports		Gary Carr
➤ Newsletter Sub-Committee		?
➤ Membership Sub-Committee		Lew Ferguson
➤ Web Site Sub-Committee		Mridula (Babli) Kapur
➤ Sponsorship Sub-Committee		Gary Carr
Old Business		Jon Meckley
➤ Action items from last meeting - Minutes		
New Business and Wrap up		Jon Meckley
Review Action Items		Jon Meckley
Assign BOD members to Action Items		
Adjournment	Before 3:30	

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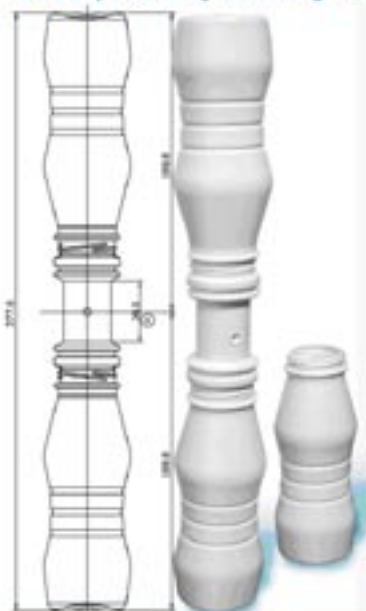
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Jonathan A. Meckley
Penn State Erie
5091 Station Road &
Erie, PA 16563
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E-mail: jmeckley@psu.edu

CHAIRPERSON –ELECT



Scott Steele
Plastic Technology Inc.
1440 Timberwolf Drive
PO Box 964
Holland, OH 43528-0964
Ph: (419) 867-5403 FX: (419) 867-7700
E-mail: s.steele@plastictechnologies.com

SECRETARY



Benjamin Lopez
Uniloy Milacron
4165 Haifare Rd.
Cincinnati, OH 45103-3247
Ph: 519-536-2245 FX: 513-536-2668
Cell: 513-602-2850
E-mail: benjamin.lopez@milacron.com

TREASURER



John Rathman
Chevron Phillips Chemical Company
155 Plastics Technical Center
Highways 60 & 123
Bartlesville, OK 74004
Ph: 918/661-3431 FX: 918/662-2220
E-mail: rathmgr@cpchem.com

TECHNICAL PROGRAM CHAIRPERSON



Surendra Agarwal
KRAFT FOODS
Technology Center
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Glenview, IL 6002
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EDUCATION CHAIRPERSON



Mark Heitker
INEOS Technical Center
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LaPorte, TX 77571
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COUNCILOR



Mark Barger
Dow Chemical Co. Inc.
200 Larkin Center
1605 Joseph Drive
Midland, MI 48674
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E-mail: markbarger@dow.com

AWARDS CHAIRPERSON



John Headrick
NAMPAC
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Jackson Machinery, Inc.
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Ph: 262-284-1066 FX: 262-284-5466
E-mail: bob@jackson-machinery.com



Robert Fitch
ExxonMobil Chemical
37567 Interchange Drive
Farmington Hills, MI 48335
Ph: 248 350 6512 FX: 248 442 2808
Email: robert.fitch@exxonmobil.com



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TI Automotive
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Board of Directors



Geoff Ward
Agri Industrial Plastics
301 N. 22nd Street
Fairfield, IA 52556
Ph: 641/472-4188 FX: 641/472-7120
E-mail: geoff.ward@agriindustrialplastics.com



Martha Janowitz
Milliken Chemical
920 Milliken Road, M-209, P.O. Box 1927,
Spartansburg, S.C. 29304
Cell: (607) 030-3604
E-mail: marta.janowitz@milliken.com



Kyle Grodzinski
Techne North America
14845-6 Yonge Street, Suite 351
Aurora, Ont. L4G6H8 Canada
Ph: (905) 751-1828 FX: (905) 751-0096
E-mail: k.grodzinski@techne-it.com



William R. Galla
GE Plastics
7924 Eastbrooke Trail
Poland, OH 44514
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Robert Delong
Blasformen Consulting
4914 Maple Terrace
Kingwood, TX 77345
Ph: 281/360-5333
E-mail: blasformen@earthlink.net

Dave Holliman
Chevron Phillips Chemical Co. LP
146 Plastics Technical Center
Bartlesville, OK 74004
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Tim Noggle
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Craig Hasselberger
Progressive Components
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Gordon Williams
Cozzoli Machine Company
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Timothy W. Womer
New Castle Industries
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Gary Henneberry
Polyone
265 Shreve St.
Mount Holly, NJ 08060
Ph: 609/351-9369 FX: 609/499-6369
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Karl H. Bruning
KB InterTec, LLC
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Jack McGarry
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