

REGISTRATION FORM

Please fax entire page to
(248) 244-8925, mail to APC,
1800 Crooks Rd., Troy, MI 48084,
register on-line at
www.seminars.plastics-car.com
or phone **(248) 244-8920**.

**BLOW MOLDING:
DESIGN PROCESSING &
TROUBLESHOOTING**

June 7 - 8, 2005

American Plastics Council
Automotive Learning Center
Troy, Michigan

2005

BLOW MOLDING: DESIGN PROCESSING & TROUBLESHOOTING

June 7 - 8

**American Plastics Council
Automotive Learning Center
1800 Crooks Road / Troy, Michigan**

Dr./Mr./Ms.
Name _____

Job Title _____

Company _____

Address _____

City _____ State _____ Zip _____

Telephone _____ Fax _____

E-mail _____

Seminar Fees: Please indicate registration category (check one)

Blow Molding: Design Processing & Troubleshooting (June 7 - 8, 2005)

- APC Member Company \$945
- Nonmember \$995

Make checks payable to American Plastics Council.
Payment must accompany registration form.

Credit Card information (circle one) *MC* *Visa* *AmEx*

Name (exactly as it appears on credit card) _____

Credit Card Number _____ Exp. Date _____

Amount \$ _____

Credit Card Billing Address _____

_____ Please include your 3-digit customer code
from the address label.

**Be sure to visit
APC'S automotive
website,
www.plastics-car.com,
to learn about
innovative plastic
applications.**

If you require special
accommodations to fully
participate, please attach
a description of needs.

AMERICAN PLASTICS COUNCIL
AUTOMOTIVE LEARNING CENTER
1800 CROOKS ROAD
TROY, MICHIGAN 48084



Practical Solutions for Blow Molding Engineers, Tool Makers, Designers and Supervisors!

The American Plastics Council has invited Plastic's Hall of Fame member, Samuel L. Belcher, to lead you through this unique, two-day seminar specifically created for anyone in the blow molding industry. This seminar is designed to provide you with the tools to help you become more productive, more efficient, and to better compete in this world market.

Registrants are encouraged to bring questions and their design problems for discussion and review.

www.plastics-car.com



WHO

Who Should Attend

Anyone involved in the blow molding industry, whether you are in management, engineering, or on the production floor, will benefit from this seminar. Operators, industrial designers and engineers, plant foremen, tooling and processing engineers, mold personnel, tool makers, blow mold managers and supervisors—this seminar will provide you with the tools to become more efficient and more productive.

OVERVIEW

Seminar Overview

This seminar is designed to benefit anyone engaged in any phase of blow molding and will cover blow molding machines as continuous extrusion and accumulator type machines plus auxiliaries, tooling, molds, resins and the “buzz words” and formulas used in the industry. This one-of-a-kind seminar is designed for the *everyday production personnel* and *production of quality blow molded products.*

Special Added Feature

Would you like to have your mold drawings reviewed and checked for venting and cooling lines? What about protomold construction and material choices? Sam Belcher will be available to take your questions.

Bring or send part samples or drawings to this seminar by shipping them ahead to our facility. We can also coordinate return shipping. Contact Deirdre Turner, Education Manager at (248) 244-8926 or email Deirdre_Turner@plastics.org to make arrangements.

Blow Molding: Design Processing & Troubleshooting

June 7 - 8, 2005

Seminar Outline

- Introduction to Blow Molding
- The Blow Molding Machine
- Auxiliaries
- Resin Characteristics & Re grind
- Processing
 - Temperatures
 - Air Pressure
 - Tooling
- Die Swell
- Part Thickness Formulas
- Blow Ratio
- Parison Programming
- Mold Characteristics
 - Materials
 - Shrinkage
 - Mold Surfaces
 - Parting Line
 - Venting
 - Pinch Offs
 - Reynolds No. Formula
 - Heat Extraction Load Formula
- Blow Mold Checklist
- Clamp Movement & Tonnage
- Process Interrelationships
- Troubleshooting
- Open Discussion
- Test

SEMINAR INSTRUCTOR

Blow Molding: Design Processing & Troubleshooting

Samuel L. Belcher

Prior to forming Sabel Plastechs, Inc. in 1987, Sam was a Product Manager at Container Machinery, U.S. Plastic Machinery Division, Cincinnati Milacron and responsible for all container machinery from concept to production. He began his career at Rubbermaid, later joining Owens Illinois, where he spent 14 years spanning four different divisions and eventually joining Wheaton Industries as Director of Research.



A 2003 inductee into “The Plastics Hall of Fame,” Sam holds 56 patents and has lectured at a number of seminars, conferences, and universities throughout the nation. Author of “Practical Extrusion Blow Molding,” he has also contributed a number of comprehensive chapters on blow molding to various publication and has written numerous articles for industry publications.

An industry expert, Sam is a respected seminar instructor who received a Lifetime Achievement Award in Blow Molding from SPE and is among the Who’s Who in Plastics & Polymers.

2005 Educational Programs

Sept. 12	Designer Guide to Part Design for Economical Injection Molding Instructor: Glenn Beall
Oct. 18-19	Strictly Snap-Fits: Designing World Class Plastic Part Attachments Instructor: Paul Bonenberger

For more information on educational offerings, visit the APC/ALC website at www.plastics-car.com or call Deirdre Turner, Education Manager at (248) 244-8926. Information above is subject to change.

Corporate In-House Training

All courses offered by the American Plastics Council Automotive Learning Center are available for tailored corporate training to meet your specific educational needs. Whether the program is held in your facility or at the Automotive Learning Center, Corporate Training is an economical option when you have ten or more employees that could benefit from specialized training. Please contact APC at (248) 244-8926 to discuss how your organization can take advantage of this cost-effective training opportunity.

General Information

Seminar pre-registration is available up to ten business days prior to the seminar and is highly recommended. If the seminar receives insufficient registration as of that date, it will be cancelled and all registration fees returned.

APC reserves the right to cancel seminars or substitute instructors. In the unlikely event of a cancellation, you will be notified no later than 10 days prior to the seminar. APC is not responsible for penalty fees or costs incurred by the attendee due to the cancellation of a seminar. It is recommended that refundable airline tickets be purchased.

Location: The seminar will be held at American Plastics Council Automotive Learning Center, 1800 Crooks Road, Troy, Michigan. The Automotive Learning Center is located approximately 30 miles from the Detroit Metro Airport.

Seminar hours: Seminar check-in will take place on June 7 beginning at 8:00 a.m. Seminar hours are from 8:30 a.m. to 4:30 p.m. both days. Please schedule your flight departure at least two hours after the 4:30 p.m. ending time. Continental breakfast, lunch and coffee breaks will be provided.

Overnight accommodations: The confirmation letter will include a list of hotels within a few minutes drive of the Automotive Learning Center, along with directions and a map to the Automotive Learning Center. Attendees are responsible for making hotel reservations.

Seminar Fees

Blow Molding: Design Processing & Troubleshooting
(June 7 - 8, 2005)

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Registration Information

Register on-line: Visit the APC Automotive Learning Center seminar website at www.seminars.plastics-car.com.

Register by fax: to (248) 244-8925. All faxed registrations must include credit card information to be processed.

Register by mail: Send the completed registration form with credit card information or check to: APC, Automotive Learning Center, 1800 Crooks Road, Troy, MI 48084. Make checks payable to APC. Payment must be included to process registration.

Register by phone: by calling (248) 244-8920. Please have your credit card available when registering by phone.

Cancellations: If you must cancel, call APC at (248) 244-8920. You may cancel your registration for a full refund up to ten working days prior to the seminar. Cancellations received after May 24, 2005, are subject to a \$100 service charge. Registrants who fail to attend or who cancel after May 31, 2005, are liable for the entire fee.

