



The SPECTRUM

MIAMI VALLEY SECTION
SOCIETY OF PLASTICS ENGINEERS

Vol. 31 No. 2
October 2002

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OCTOBER MEETING INFO

Watermelt: A New Way For Efficient Production of Thick-Wall Parts

Gas Assist (Gasmelt) established itself as a cost-effective solution to mold thick parts, but the search for a different medium with better cooling properties has never been abandoned. By reinventing the Water Injection Technique, an old idea has been born again in injection molding. The goal of the development was to reduce cycle times for thick rod-shaped part designs. Due to the higher cooling ability of water over gas, cycle times can be shortened molding with Watermelt, when compared to the same parts molded with Gasmelt.

The Advantages:

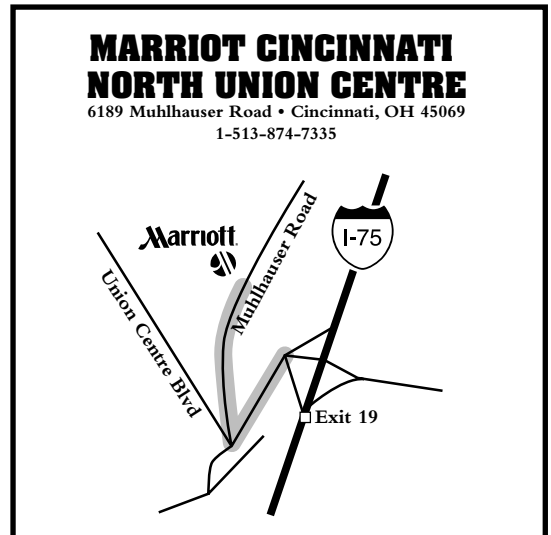
- Cycle time reduction up to 75%
- No nitrogen costs
- Evenly distributed wall thickness
- Less tendency for finger effects in large-flat shaped objects
- Less material accumulation remaining in the part
- No material slugs in long hollow channels
- Less tendency for surface marks.

Speaker:

Joachim Kragl
Manager—Process Engineering
Engel North America
Guelph, Ontario, Canada

Driving Directions

Marriott Cincinnati North Union Centre
Exit 19 from I-75. Go Northeast for 0.3 miles
Turn left on Union Centre Blvd. Go Northwest for
0.4 miles to Marriott Union Centre



**Visit SPE's
National Website**

<http://www.4spe.org>

Visit Our Website

<http://www.mvspe.org>

CALENDAR OF EVENTS

Oct 3rd	Cin./Marriott Union Centre Water Molding - Engel
Nov. 7th	Cin./Marriott Union Centre Plastic part design - Glenn Beall
Dec. (date TBD)	Dayton Spouse/Date Night
Jan. 9*	Krauss Maffei Tout
Feb.6	Dayton/Alex's Additives, fillers, blowing agents
Mar. 6	Cin./Marriott Union Centre Taking the fear out of OSHA
April 3	Dayton/Alex's Student Night/Economic Development
May 1	Plant tour Comet Automation - weigh blenders, loaders, dryers, conveying equip.
June 9	Golf outing Hamilton Elks
June 22-26	Chicago NPE'03

MEETING NOTICE DETAILS

MEETING DATE: OCTOBER 3, 2002
Advance Reservation required by October 1, 2002
To reserve, call or fax:

Dick Hauck	Mickey Brandon
Cincinnati	Dayton
513-871-5544	937-890-7834
Fax 871-8495	Fax 890-5854

MEETING AGENDA - OCT. 3, 2002

SPE Board Meeting	4:00 - 6:00 pm
Networking	6:00 - 6:30 pm
Dinner	6:30 - 7:15 pm
Program	7:30 - 8:30 pm

MEMBERS \$20 NON-MEMBERS \$25 STUDENTS/RETIREES \$10
MEMBERS \$25 AT THE DOOR WITHOUT A RESERVATION

*We are now taking VISA and MASTERCARD
for registration and other events*

PRESIDENT'S MESSAGE



Thank you to everyone who came to our September's meeting. It was one of our better attended 1st meetings. Mr. Rainer Farrag did a good job of explaining the drying of resins, as well as showing the compressed air drying system.

Please note that we changed the location of our Cincinnati meetings to the Marriott at Union Center. This should be more convenient for both Cincinnati and Dayton members.

For the future meetings, we are looking forward to a good year. Some highlights include "The Importance of Product Design" (November), and a material night that will concentrate on additives in plastics. We also have at least 2 tours - Krauss Maffei (3 processes) and Comet Automation. With all of our meetings, we strive for two main goals. To provide students and less-experienced plastics professionals with important technical information of our industry, and to educate all of our members with the latest innovations in plastics.

A good example of this is water injection. Just as gas injection opened up new areas for plastics, water injection could do the same. By learning more about new technologies, and correctly applying them, there will be more opportunities for our plastics industry.

