

LMucha Consulting and Plastic Technologies, Inc.  
have teamed up to offer a unique

# Blow Molding Improvements Through DOE

## 2.5-day course in DOE and hands-on Blow Mold Processing

You will learn how to design, examine and analyze Designed Experiments (DOE) for the most common challenges in stretch/blow molding of PET such as:

*Stress Cracking • Material  
Distribution • Top Load Resistance •  
Dimensional Characteristics • Visual  
Defects and much more...*

### **Experience the benefits of DOE first hand!**

As a participant you will receive a plastics molding process simulations to practice the techniques of DOE, plus a 180-day fully functional demonstration copy of **Stat Ease dx7 Design Expert Software**

*"The blowmolding DOE training this week was extremely good, and the software to help plan the runs seems very flexible. We ran two actual DOEs on the blowmolding machine; in the past, I've been skeptical about using a DOE on blowmolders, because of non-linearity of effects. However, it seems that a good combination of experience with the blowmolding and experimental design process can produce good results, and give us a tool to really do process engineering in a fundamentally better way than you can do with traditional trial-and-error processing methods."*

Martin Geithmann



LMucha Consulting  
Partner for Performance



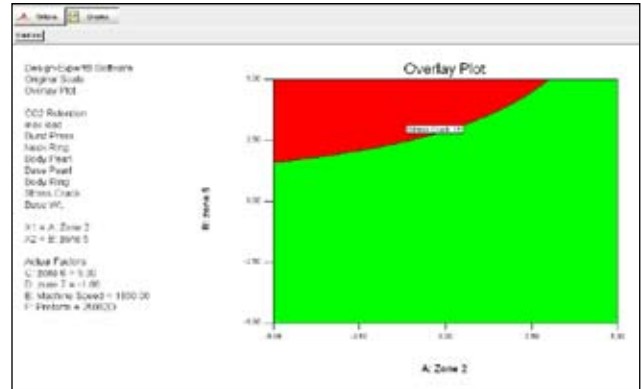
- Workshops with process simulations to **practice the design and analysis** of (factorial) DOE's
- Basic Statistics - distributions, parameters and statistics,
- How to **design factorial DOE's** to optimize processes
- Understand the use of DOE's with **Design Expert software**
- Hand-on Workshops **running DOE's on actual blow molding equipment**
- SOP's** for the design, optimization and development of processes and products

**PTI**  
PLASTIC TECHNOLOGIES, INC.

## About the Instructor



**LAWRENCE S. MUCHA** is a management professional with over thirty years experience in the beverage and packaging industry. Larry spent 25 years with The Coca-Cola Company. During his career with Coke he was responsible for several top priority, highly visible packaging projects as well as Director of Future Technologies, Director of Quantum Leap, Director of Plastics Packaging Development, and Director of Technical Packaging Department, Northwest European Division, London. Larry began his career as a packaging engineer. He has been a practitioner of statistics, SPC and DOE for over 28 years. Larry holds three package patents and has two pending. He is certified by the Project Management Institute as a Project Management Professional, a Certified Packaging Professional by the Institute of Packaging Professionals and a Six Sigma Master Black Belt. He is a member of American Chemical Society, Innovation Network, World Future Society, Project Management Institute, The American Society of Quality, The International Society of Beverage Technologists, and Institute of Packaging Professionals. He is a frequent speaker at conferences and author of various articles for professional publications.



## Registration

I would like to register for "Blow Molding Process Improvement Through DOE" seminar at Plastic Technologies, Inc. held:

**March 9 - 11, 2010 (DOE - Blow Molding)**

**July 27 - 29, 2010 (DOE - Injection Molding)**

Seminar Fee: \$1,500 USD

PLEASE TYPE OR PRINT

Name \_\_\_\_\_

Title \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

I have the following dietary requirements

### Seminar Location:

Plastic Technologies, Inc.  
1440 Timberwolf Drive  
Holland, OH 43528

### Please send registration form to:

Fax: (419) 867-7700  
E-mail:  
training@plastictechnologies.com

### For more information contact

Pamela Douglas or  
Donald Miller  
Plastic Technologies, Inc. (PTI)  
(419) 867-5400

Larry Mucha  
LMucha Consulting  
(770) 310-3390

### Hotel Accommodations:

Courtyard by Marriott  
1435 E. Mall Drive • Holland OH  
(419) 866-1001  
PTI Rate: \$99.00 plus tax

Baymont Inn & Suites  
6425 Kit Lane • Maumee OH  
(419) 865-9400  
PTI Rate: \$63.00 plus tax