

# BRANSON TECHNICAL SEMINARS

JOIN US FOR OUR RENOWNED PLASTING JOINING SEMINAR!

## Plastic Joining Technologies

Branson's renowned Plastics Joining seminar is your perfect opportunity to acquire in-depth knowledge from the experts in the plastics joining industry.



This seminar is for anyone who would like to increase their knowledge of part design, material selection, and determining the best process and equipment for your application.

It is a comprehensive, *two-day* seminar focused on theory

and design for assembling thermoplastic materials with ultrasonics. It involves classroom and hands-on training which covers everything from the fundamentals of ultrasonics to the optimization of process parameters and more. Whether you use these techniques every day, or you're just interested in learning how you can apply these remarkable technologies, you'll learn plenty!

## Presentations

Our experts in applications, equipment, and acoustic tooling present sessions covering ultrasonics:

### Basic Theory and Equipment

- Fundamentals of the ultrasonic process
- Equipment configurations
- Advantages and limitations
- 15, 20, 30, & 40 kHz

### Acoustic and Fixture Technology

- Acoustic theory & materials
- Coatings
- Finite element analysis
- Specialized design concepts
- Fixture types and function



### Materials

- Fundamentals of polymer science
- Material considerations
- Factors affecting weldability part design
- Ideal design principles
- Optimized joint design selection

### Other Assembly Techniques

- Staking
- Insertion
- Degating
- Spot welding
- Swaging

### Textile and Film Processing

- Types of materials
- Welding techniques

### Equipment Setup

- Overview of process parameters
- Optimization of process parameters

### Lab Session

- The hands-on lab session is dedicated to setting up equipment, applications, and application troubleshooting.

### Plus...

An overview of basic theory, equipment, part design and applications for:

- Linear vibration welding
- Hot plate welding
- Spin welding
- Thermal welding
- Laser IRAM welding

## Registration

Class size is limited and is on a first-come, first-registered basis. The registration fee of \$695.00 includes course materials, continental breakfast, lunch, and dinner on the first evening. Not included are transportation or hotel accommodations.

## Location

Branson's Danbury, CT, headquarters facility is near I-84. Air travelers can fly into New York (La Guardia or Kennedy) Newark, Westchester, Newburgh (Stewart), or Hartford/Springfield (Bradley). A map and further transportation information will accompany your registration confirmation.

## Date

October 14-15, 2008

In addition, you can call us to arrange for a custom seminar in your facility.

## Don't take our word for it.

Here are just a few of the comments from past attendees:

*"Very professionally presented."*

*"Great notebook, informative handouts and references."*

*"Overall, an excellent display of Branson ultrasonic technology, professionalism, and product knowledge. Material was presented clearly and in a well-organized format. Great job!"*

*"Can't wait to put into practice all that I've learned."*

## Act Now

Fill out the attached registration form or call us today at (203) 796-0368 in order to reserve your space.



## Branson

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