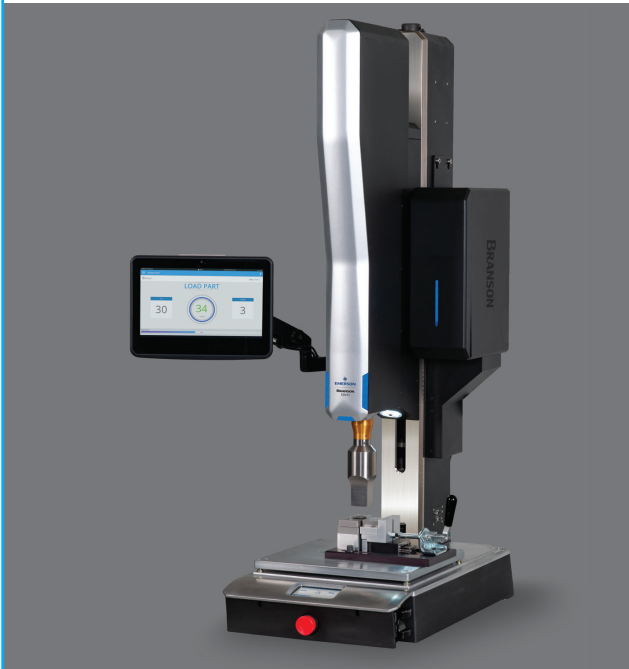


Plastics Joining Seminar



Come join us for a two day intensive seminar on theory and design for ultrasonic plastic joining! Bring your application challenges for review from one of our experts. Learn how to properly use and maintain Branson equipment from our hands-on lab sessions. Learn how to design parts for ultrasonic welding. And more!



Danbury Seminars

DATE:

■ March 26 & 27, 2019 ■ September 10 & 11, 2019

LOCATION: Emerson's Branson Headquarters
41 Eagle Rd. Danbury, CT 06810

COST: \$695 per person. Course material and all meals during seminar will be provided.

Regional Seminars

Consolidated one-day seminars are available at our regional offices. Custom seminars may also be held at customer locations for larger groups. Call your local office for more information.

- | | |
|------------------------|-----------------------|
| • Addison, TX | ☎ 972-385-9673 |
| • Billerica, MA | ☎ 978-262-9040 |
| • Buffalo Grove, IL | ☎ 847-229-0800 |
| • Markham, Ont, Canada | ☎ 905-762-3301 |
| • Sterling Heights, MI | ☎ 586-276-0150 |
| • Lawrenceville, GA | ☎ 770-962-2111 |
| • Yorba Linda, CA | ☎ 714-637-1029 |
| • Monterrey, MX | ☎ 011 52 811 332 0261 |

Course Topics

■ SESSION 1: Basic Theory and Equipment

- Fundamentals of the ultrasonics process
- Equipment configurations
- Advantages and limitation

■ SESSION 2: Acoustic and Fixture Technology

- Acoustic theory and material
- Coatings
- Finite element analysis
- Specialized design concept
- Fixture types and function

■ SESSION 3: Thermoplastic Materials

- Fundamental of polymer science
- Material compatibility
- Factors affecting weldability

■ SESSION 4: Part Designs

- Joint design concepts
- Problematic part features (size/geometry)
- Common design issues

■ SESSION 5: Other Ultrasonic Assembly Techniques

- Staking, swaging, spot welding
- Insertion, degating

■ SESSION 6: Textile and Film Processing

- Types of materials
- Welding techniques and equipment

■ SESSION 7: Equipment Setup

- Overview and optimization of process parameters
- Tooling setup and equipment features

■ SESSION 8: Non-Ultrasonic Welding Processes

- Vibration welding, hot plate welding
- Spin welding, thermal welding
- Laser welding

Please fill out and submit the registration form on other side.

Plastics Joining Seminar

Seminars held at corporate headquarters: **Emerson** | 41 Eagle Road | Danbury, CT 06810

SEMINAR DATES

Select One: March 26 & 27, 2019 September 10 & 11, 2019

PERSONAL INFORMATION

Name: _____ Title: _____
Company: _____
Address: _____ City, State, Zip: _____
E-mail: _____ Phone: _____

PAYMENT OPTIONS

Select One: Visa Mastercard American Express
 Check #: _____ (payable to Branson Ultrasonics Corporation)

Cardholder Name: _____
Credit Card Number: _____
Expiration: _____ Security Code: _____
Credit Card Address and Phone Number (if not the same as company address)
Address: _____
City, State, Zip: _____
Phone: _____
Signature: _____

Please submit completed form and payment to:

Regina.Watson@Emerson.com OR fax to: (203) 796-0363, Attn: Regina Watson

NOTE: Payment required at least two weeks prior to seminar to guarantee registration status.