

2019 Plastics Joining Seminars

Emerson is pleased to once again offer our renowned one day **Branson Plastics Joining Seminar!** This 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.

Buffalo Grove Seminar

- DATE:** ■ April 3, 2019
- LOCATION:** 1585 Barclay Boulevard
Buffalo Grove, IL 60089
- COST:** \$195 per person. Course material and all meals during seminar will be provided.

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.

Yorba Linda Seminars

- DATE:** ■ March 14, 2019 ■ June 11, 2019
■ Sept. 17, 2019
- LOCATION:** 22693 Old Canal Road
Yorba Linda, CA 92887
- COST:** \$170 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

To Register Please Reach Out to Your Local Office.