



## Strain Gage Workshop

### STRAIN GAGES - TWO DAYS

This Strain Gage Workshop is a hands-on program where each participant completes three gage installations using materials selected for suitability in a majority of test environments. Intended to develop proficiency in strain gage selection and installation, this program includes virtually all strain gage installation topics covered in the W62 program. Instrumentation topics are not included.

Topics include:

- **Strain Gage Characteristics:** Gage Factor, Temperature Compensation, Sensing Alloys, Transverse Sensitivity, Strain Limits, Fatigue Endurance
- **Installation Techniques:** Surface Preparation, Adhesive Selection, Gage Installation Procedures and Check-Out, Leadwire Attachment, Protective Coatings
- **Gage Installations with Epoxy, Epoxy-Phenolic, and Cyanoacrylate Adhesives:** Room-Temperature Installation, Handling Heat-Curing Adhesives, Clamping Techniques, Leadwire Attachment, Protective Coatings, Measuring Strain Level
- **Special Gage Installation Techniques for Measurement Over Wide Temperature Ranges:** Gage Selection, Gage Performance Characteristics, Temperature Effects, Leadwire Selection and Attachment, Protective Coating Systems
- **Strain Gage Circuitry:** Quarter, Half, and Full Bridges; Leadwire Compensation
- **Bridge Excitation:** Power Levels, Self-Heating
- **Discussion of Specific Problems as Requested by Participants.**