

**Are you experiencing stress in your structural design?
Do you dread the application of weight to your specimen?
Have you ever witnessed a residual stress failure?**

**If the answer to any of these questions is “yes” and you are free to
invite the experts at Micro-Measurements for a StrainTalk session.**

Held at your facility, the two-hour seminar will focus on five topics of your choice from the list below:

- Understanding the strain gage—theoretical instructions (how they work)
- The structural design of a strain gage (different layers and materials)
- Strain gage selection
- Adhesive selection
- Creep (static measurements)
- Materials selection for TC of zero/TC of Young's modulus
- Mechanical issues/strain gage testing rigs (gage factor determination, creep, fatigue)
- Life expectancy (long-term stability, fatigue behavior, maximum strain, strain gage failure)
- Strain gage performance data (linearity, hysteresis, transverse sensitivity, strain sensitivity, upper frequency limits, maximum strain)
- Influential environmental conditions—strain gages to be used on plastics, and in high temperature conditions
- Wheatstone bridge considerations
- Cleaning of solder dots/solder connections
- Solder and leadwire selection/soldering technique demonstration
- Temperature compensation—STC explained
- Use of a dummy gage for thermal compensation
- Weldable gage selection and installation demonstration
- Gaging concrete
- Instrument selection considerations and sampling rate
- Techniques for checking gage installation quality
- Determination of unknown TCE using strain gages
- Gaging components in a full bridge to make a DIY transducer
- Printed circuit board testing
- PhotoStress demo
- Two versus three leadwires
- Excitation—grid self-heating, maximizing the signal, maximizing the signal-to-noise ratio
- Shunt calibration—proper scaling of the instrument independent of excitation, gain settings, or leadwire resistance
- Averaging—does the gage size matter?
- Which is the right resistance for my application?

RSVP with your selected topics and estimated participants to
Jeff Wilkins at sales@q-pcorp.com.



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