



## Strain Gauge Seminar Agenda

- 0830 Coffee and Welcome**
- 0900 Basics of Strain Gauges**
- ⇒ How does a strain gauge work?
  - ⇒ Selection of suitable strain gauge and accessories
  - ⇒ Fibre optic strain gauges
  - ⇒ Wheatstone Bridge
- 1000 Basic Strain Gauge Signal Conditioning**
- ⇒ Excitation Voltage
  - ⇒ Comparisons AC/DC
- 1030 Coffee Break**
- 1045 Installation of a Strain Gauge.**  
Theory on Strain Gauge installation and practical demonstration.  
Participation by delegates installing a strain gauge.
- ⇒ Preparation of the work-piece
  - ⇒ Installation of the Strain Gauge
- 1230 Lunch**
- 1330 Connection of the Strain Gauge to a HBM Amplifier**
- ⇒ First Measurement
  - ⇒ Discussion of the results
  - ⇒ Elimination / Compensation of Errors
- 1430 Signal Digitisation and Data Acquisition**
- ⇒ Multiplex Systems
  - ⇒ Synchronous Systems
  - ⇒ Cabling Errors (2, 3 & 4 wire)
- 1515 Coffee Break**
- 1530 Rosette Installation**
- 1600 Measurement of Principal Stress**
- ⇒ Acquisition using Catman & analysis using Glyph XE
- 1645 Your Questions**
- 1700 Close**