



American Welding Society®

CELEBRATING 100 YEARS

Baton Rouge Section September 18, 2025 Meeting Notice

Date: Thurs. September 18, 2025

Time: Social: 6:00 pm
Meeting: 6:30 pm

Location: M. M. T.
11707 Sun Belt Ct.
Baton Rouge, LA 70809



RSVP: Requested by: Tuesday, September 16, 2025 by 12 noon
fit@fairbanksinspection.com or rjones@mmtinc.com
FIT 225-473-6362 or MMT 225-751-6876

Speaker: Thomas C Shelton Ph.D., P.E.

Dr. Shelton is the founder and owner of Metallurgical & Materials Technologies, Inc (MMT). He has provided engineering consultation and forensic engineering services to the industrial, governmental, and legal communities for more than 40 years. He received his bachelor's in engineering from University of North Carolina at Charlotte in 1973. In 1975, he received his master's in engineering with a major in materials science and engineering from University of Texas. He continued his education at University of Texas and received his doctorate in mechanical engineering with a materials option in 1977.

Topic: Understanding the Metallurgical Benefits from Proper Preheat

One of the most important Essential variables of welding is the preheat or lack of preheat . The preheat affects both the mechanical properties and the metallurgical properties of the weldment. These can be seen with hardness testing, tensiles, bends and notch toughness but most directly revealed in service life which may be a failure. If a failure occurs that's typically when we look at the metallurgical microstructure to see what went wrong.

Lab Tour: Equipment to be highlighted in lab tours:
Mitsubishi EDM with unique smooth finish
Hitachi Scanning Electron Microscope
Keyence VHX Automated Microscope

Cost: FREE for all who RSVP
MMT will sponsor this event

2 PDH Hours for this meeting

