

SMST SMA Workshop
Fort Worth, TX
March 13. 2023

Four educational lectures will be presented to focus on science, engineering and applications of Shape Memory Alloys

How Nitinol works: Basic thermal and mechanical properties; defining shape memory and superelasticity; with ASTM Standards

Medical Applications of Nitinol: Design, processing and properties to optimize in vivo performance of medical devices

Shape Memory Actuators: Designing “THE” Material: An overview of SMA actuator nomenclature, type of actuations and benefits, materials and properties selection, designing the actuator

Shape Memory Actuators: Designing “WITH” the Material: Actuator integration, system level do’s and don’ts, standards and certifications, application examples

This course is an excellent opportunity for attendees to strengthen their understanding of shape memory and superelastic materials in advance of the technical sessions.

Speakers:

Maximilien Launey, Ph.D., Technical Fellow, G.RAU Inc.

Brian Berg, Ph.D., Senior Research Fellow, Boston Scientific

Doug Nicholson, Ph.D., Technical Lead Engineer, Boeing Research & Technology

Othmane Benafan, Ph.D., Materials Research Engineer, NASA Glenn Research Center