

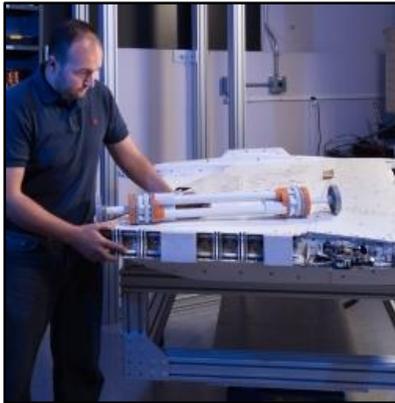
Title: Engineering Your Future – “*Navigating Mammoth Challenges to Transform Novel Materials to Large Scale Production*”

Date: April 12, 2023

Time: 1:00 PM – 1:45 PM Eastern Time

On-Demand Library: <https://register.gotowebinar.com/recording/6555941865282765315>

The ASM International Organization on Shape Memory and Superelastic Technologies (SMST) Interview Series is a student driven production aimed to provide insight into the educational, professional, and sometimes personal paths taken by SMST Members. In this interview, Dr. Othmane Benafan will discuss work in the field and his journey to leading the frontier in up-scaling productions of transformative materials: high temperature shape memory alloys (SMAs).



Bio: Dr. Benafan is a materials research engineer in the Structures and Materials Division at NASA Glenn Research Center (GRC). He received his Ph.D. in Mechanical Engineering from the University of Central Florida in 2012. Dr. Benafan’s work encompasses first principle understanding of SMA concepts in applications operating in high and sub-zero actuation temperatures. A primary focus in his research is to improve performance efficiency through lighter weight aerospace mechanisms and shape changing components. Significant recognition goes to Dr. Benafan and team for

addressing scale-up issues, ensuring reliable service life, and developing specifications and standards, all of which are critical for flight integration.

Dr. Benafan advises many projects both internal and external to the NASA including: leading the SMA team for the Transformative Tools and Technologies (TTT) project under the Transformative Aeronautics Concepts Program, past Chairman of the joint industry-government-academia Consortium for the Advancement of Shape Memory Alloy Research and Technology (CASMAART), and Immediate Past President of SMST.

SMST is passionate about sharing and supporting the professional development of future and current leaders in the field of Shape Memory and Superelastic Technologies. If you are interested in a proactive innovative community dedicated to the advancement of novel engineering materials, their fabrication, their performance and behavior, their analysis and evaluation, or the equipment needed to conduct these studies, SMST is for you.