

Tuesday, September 22, 2020**Introduction - Robert Schrecengost, DOE FE****1:10 PM Keynote****AM of Nickel components and joining of Dissimilar Metal Welds**

Sebastian Dryepondt, Oak Ridge National Laboratory (ORNL)

Advanced Manufacturing & Computational Materials Modeling**Moderator** Clint Noack**Facilitator** Michael Verti**1:30 PM Additively Manufactured Graded Composite Transition Joints for Dissimilar Metal Weldments in Utra-Supercritical Power Plant**
Xingbo Liu, WVU**1:40 PM Multiscale Modelling of Microstructure Evolution during Rapid Solidification for Additive Manufacturing**
Tomorr Haxhimali, Lawrence Livermore National Laboratory**1:50 PM Digital Twin Model for Advanced Manufacture of a Rotating Detonation Engine Injector**
Shane Coogan, Southwest Research Institute**2:00 PM Integrated Computational Materials and Mechanical Modeling for Additive Manufacturing of Alloys with Graded Structure used in Fossil Fuel Power Plants**
Wei Xiong, University of Pittsburgh**2:10 PM ICME for Advanced Manufacturing of Nickel Superalloy Heat Exchangers with High Temperature CREEP Plus Oxidation Resistance for Supercritical CO₂**
Brett Tossey, Det Norske Veritas, (DNV) GL USA, Inc.**2:20 PM Facilitated Discussion****3:00 PM Adjourn**