

The ASME AMRGT organizing team is pleased to present the following list of technical presentations for the 2020 event. These selected technical presentations will be presented in two parallel sessions on Wednesday, March 4th.

Coffee Break 9:10 – 9:30 am in 741 Foyer • Visit the Table-Top Display Companies		
Advanced Manufacturing Track Room 741E		Advanced Repair Track Room 741B
Session 1 Advanced Manufacturing Techniques and Methods Session Chairs: John Shingledecker and Rob Steele, EPRI		Session 1 Adv. Repair Process Dev., Control & Management Session Chairs: Justin Kuipers, Liburdi; Jeff Chapin, Liburdi
Utilizing Big Data Techniques to Design Materials for Additive Manufacturing; <i>Jonathon Bracci, Oerlikon Metco</i>	09:30	Step-Wise Validation of Directed Energy Deposition Blade Repair Processes Prior to Fatigue Assessment; <i>Onome Scott-Emuakpor, AFRL</i>
Combustion Components are Particularly Suitable for Harvesting the Benefits of Additive Manufacturing; <i>Gianni Panfilii, Siemens</i>	10:00	Successfully Qualified Additive Repair Processes for Gas Turbine Hot Gas Path Components; <i>Dheepa Srinivasan, Pratt & Whitney R & D Center</i>
Rapid Prototype of Turbine Component with Additive Manufacturing; Greg Balow, Solar Turbines Inc.	10:30	Determining Geometric Integrity of Additively Manufactured Repaired Blades Using Modal Assurance Criteria & Structured Light Scanning; <i>Andrew Goldin, AFRL & AFIT</i>
Innovative Manufacturing Methods for Gas Turbine Flow Path Components: An Approach, Experience and Practical Applications with Additive Manufacturing; <i>Vogel Torkaman, PSM</i>	11:00	Major Maintenance Optimization; <i>Robert Chapman, Chevron</i>
Lunch in the EPRI Dining Room 11:30 am – 1:30 pm		
Session 2 Advanced Manufacturing Design Applications Session Chairs: Justin Cheney, Oerlikon; Rob Steele, EPRI		Session 2 Advanced Repair Limits, Inspections and Applications Session Chairs: Dheepa Srinivasan, P&W; Andrew Goldin, AFRL & AFIT
Capabilities of Selective Laser Melting Additive Manufacturing and Repair from Powder to Production; <i>January Smith, Southwest Research Institute</i>	1:30	Coating Thickness Measurement of Internal Surfaces with Laser Scanning Technology; <i>Anand Kulkarni, Siemens</i>
Additive Manufacturing of Auxiliary Dilution Air Tube for Tangentially Stabilized Combustor Liner; <i>German Verduzco, Solar Turbines</i>	2:00	Early Experience Applying Process Compensated Resonance Testing to Assess New and Repaired Turbine Blade Quality; <i>John Scheibel, Electric Power Research Institute</i>
Advanced Turbine Airfoils for Efficient Combined Heat and Power Applications; <i>Douglas Straub, U.S. Dept of Energy – NETL</i>	2:30	Novel Repair of a Legacy Gas Turbine Casing; <i>Badinan Kakei, Liburdi GAPCO</i>
Coffee Break 3:00 – 3:30 pm in 741 Foyer • Visit the Table-Top Display Companies		
Session 3 Adv. Manufacturing Impact on Inspection & Testing Session Chairs: Doug Straub, DOE; Rob Steele, EPRI		Session 3 Advanced Repair Implementation, Service Evaluation and Process Control
Effusion Hole Drilling and Impact on Coating Life in Advanced Combustion, <i>Ke Huang, Siemens Energy</i>	3:30	Rim Replacement for Cracked Large Land Based Compressor Wheels, <i>Daniel Purdy, EPRI</i>
Development of Automated Metallographic Inspection and Process Control Software for Additively Manufactured Industrial Gas Turbine Engine Components, <i>Tyler Boveington, Solar Turbines (Caterpillar)</i>	4:00	Case Study: Metallurgical Analysis of Previously Repaired GE Frame 7FA Stage 1 Turbine Buckets, <i>Justin Kuipers, Liburdi Turbine Services</i>
Evaluation of a Nickel Base Superalloy Additively Manufactured and Testing in Gas Turbine Engine Trials, <i>Alex Bridges, Electric Power Research Institute</i>	4:30	