

Turbine Forum 2023



October 16-19th, 2023 | AC Marriot Worcester | Worcester, MA

Day 1: October 17th, 2023 (Educational Program Oct. 16th)

8:45 AM	Registration & Welcome with Continental Breakfast	
9:15 AM	Srikanth Kottlingham, GE Power Key Note Speaker	<i>Metal Joining Challenges in Thermal Power Generation Plant & Systems</i>
10:00 AM	Warren Miglietti, Prince & Izant	<i>Novel Developments with Diffusion Brazing Consumables for Effective Turbine Component Repairs</i>
10:30 AM	Refreshment Break and Networking	
11:00 AM	Thomas Gartner, misc GmbH	<i>Failure Cases Due to Metal Fatigue</i>
11:30 AM	Benjamin Schneiderman, Colorado School of Mines	<i>Control of Embrittling Phases in Brazing Precipitate-Strengthened Nickel Base Superalloys Using a Multi-Principal Element Alloy Filler</i>
12:00 PM	Lunch and Networking	
2:00 PM	Dharmendra Chalasani, Morgan Advanced Materials	<i>Repair of Cooling Gas-hole Cracks in Turbine Blades</i>
2:30 PM	Ken Ross, Pacific Northwest National Laboratory	<i>Hydro Power Turbine Blades</i>
3:00 PM	Victor Champagne III, Harvard University	<i>Thermal and Optical Properties of High Temperature Oxides for Radiative Barrier Coatings</i>
3:30 PM	Refreshment Break and Networking	
4:00 PM	Dmitri Novikov, IPG	<i>Laser Cleaning and Surface Prep for Coating EB-PVD and Thermal Spray</i>
4:30 PM	Frantisek Hadik, TRUMPF	<i>TRUMPF Technology Overview for Gas Turbine Applications</i>
-	WPI Tour	<i>Tour of Advanced Manufacturing Center</i>
5:30 PM	Prince & Izant	<i>Prince & Izant Welcome Reception @ Beer Garden</i>



Turbine Forum 2023



October 16-19th, 2023 | AC Marriot Worcester | Worcester, MA

Day 2: October 18th, 2023

8:45 AM Registration & Welcome with Continental Breakfast

9:15 AM Nick Estock, AddUp
Key Note Speaker *AddUp Technology Delivering Industry Leading Surface Finish for Fluidic Applications*

10:00 AM Chris Rogowski, Quintus Technologies
Latest Developments in HIP and High Pressure Treatment for Turbomachinery Components

10:30 AM Refreshment Break and Networking

11:00 AM Zack Cordeo, MIT
Specialized Post-Processing Heat Treatments for Additively Manufactured Gas Turbine Spares

11:30 AM Victor Paramo, Haynes International
Advances in High Temperature Alloys for Gas Turbines and Hydrogen Turbines

12:00 PM Lunch and Networking

2:00 PM Robert Hyers, WPI
Non-Contact Measurement of Mechanical Properties and Fluid Properties at High Temperature

2:30 PM Scott Nelson, Rolls-Royce
Direct Energy Deposition

3:00 PM Kevin Chan, Huys Industries
EDS of New HEA Alloys

3:30 PM Refreshment Break and Networking

4:00 PM Krishna Apoorva, Metcon
Near Net Shape Repair of Components Using Novel Methodologies

4:30 PM Ed Herderick, NSL Analytical
Unlocking Velocity in Metal AM Materials Development Through Testing

6:00 PM Aimtek
Turbine Forum Event Party @ Off the Rails



Turbine Forum 2023

October 16-19th, 2023 | AC Marriot Worcester | Worcester, MA

Day 3: October 19th, 2023

8:45 AM Registration & Welcome with Continental Breakfast

9:15 AM

Michael Kleckla, Raytheon Technologies Research Center | **Key Note Speaker**

Key Note Presentation

10:00 AM

Andrew Perry, GE Aviation

Advanced Metallographic Evolution of Anomalies in Additive Materials

10:30 AM

Refreshment Break and Networking

11:00 AM

Karen Thole, PSU
Key Note Speaker

Using Additive Manufacturing to Advance Turbine Technologies

11:45 AM

Youping Goa, Castheon

3D Printed Enabled Materials for Elevated Temperatures

12:15 AM

Lunch and Networking

2:00 PM

Kyle Tsaknopoloulos, WPI

Effects of Feedstock Power on Cold Spray Consolidation Behavior

2:30 PM

Samuel Bedard, EWI

Cold Spray Additive Manufacturing-- Bridging the Gap Between Additive Repair and Fabrication

3:00 PM

David Brennan, VRC Metal Systems

Recent Developments in Cold Spray Deposition Technology for Repair, Coating and Additive Manufacturing

3:30 PM

Christopher De Salle, Penn State

Next Generation T/EBCs for Improved Thermochemical and Thermomechanical Resistance for CMAS and Erosion

4:00 PM

Closing Remarks



WPI



CUSTOMER FOCUSED, SOLUTION DRIVEN.

