ASME AMRGT Symposium October 5 - 8, 2021
Time Zone EDT

Tuesday, October 5

North America EDT		Session	Presentation Title	Speaker(s)
Start Time	End Time			
9:00 AM	9:10 AM	Welcome to AMRGT	Tom Costabile Welcomes Attendees	Thomas Costabile P.E; ASME Executive Director / CEO
9:10 AM	9:40 AM	Keynote	Zero Emissions Approaches for the Electrical Generation Industry	Neva Espinoza, Electric Power Research Institute
9:40 AM	11:10 PM	Tutorial	Machining Processes for Manufacturing & Repair	Dr.-Ing. Sascha Gierlings, IPT Philipp Ganser, MSc, IPT Dr.-Ing. Tim Herrig, IPT Robin Day, MSc, IPT
11:10 AM	11:30 AM	**Networking Break, Visit Sponsors and Exhibitors**		
11:30 AM	12:30 PM	Panel	Fabrication and Repair of Industrial Gas Turbine Engine Components using Advanced Manufacturing Processes	Moderator: Thomas R. Kurfess, ORNL Panelists: Dr. Thomas Feldhausen, ORNL Dr. Michael Kirka, ORNL Dr. Vincent C. Paquit, ORNL Dr. Kyle S. Saleeby, ORNL
12:30 PM	12:45 PM	**Networking Break, Visit Sponsors and Exhibitors**		

Wednesday, October 6

North America EDT		Session	Presentation Title	Speaker(s)
Start Time	End Time			
9:00 AM	9:30 AM	Repair Track: Repair Process Improvements	76712 A Primer on Reverse Engineering of Gas Turbine Components for Repair and Aftermarket Source Part Manufacture	Justin Kuipers, Liburdi Turbine Services
9:30 AM	10:00 AM	Repair Track: Repair Process Improvements	76688 Digitized Repair Process Chain – Communicating the Scan Requirements	Sophie Babette Rees, Siemens AG
10:00 AM	10:30 AM	Repair Track: Repair Process Improvements	76714 Automated Digital Blue Light Scanning Inspection of Gas Turbine Parts	Kamel Tayebi, GE Power
10:30 AM	11:00 AM	Repair Track: Repair Process Improvements	76716 Automated Turbine Blade Repair Planning and Execution	Joerg Seume, Leibniz Universitaet Hannover
11:00 AM	11:15 AM	**Networking Break, Visit Sponsors and Exhibitors**		
11:15 AM	11:45 AM	Advanced Manufacturing Track: Advanced Design and Manufacturing of Gas Turbine Components	76171 Design, Development, Testing and Validation of and Improved Lower Emission Additively Manufactured Combustor Pilot Nozzle for F Class Industrial Gas Turbine	Gregory Vogel, PSM
11:45 AM	12:15 PM	Advanced Manufacturing Track: Advanced Design and Manufacturing of Gas Turbine Components	76273 Design and Manufacturing of Micro-Turbine Recuperators With Advanced Additive-Manufacturing Techniques for Aerospace and Power Generation Applications	James Zess, MCHX Technology
12:15 PM	12:45 PM	Advanced Manufacturing Track: Advanced Design and Manufacturing of Gas Turbine Components	76490 Static Load Characteristics of Additively Manufactured Hybrid Thrust Bearings	Keun Ryu, Hanyang University
12:45 PM	1:15 PM	Advanced Manufacturing Track: Advanced Design and Manufacturing of Gas Turbine Components	76502 A Simple Cost Model to Drive Design for Additive Manufacturing	Timothy W. Simpson, Penn State University
1:15 PM	1:30 PM	**Networking Break, Visit Sponsors and Exhibitors**		
1:30 PM	2:30 PM	Lecture	Process Compensated Resonance Testing (PCRT) with Case Studies	Nicholas Smith, EPRI

Thursday, October 7

North America EDT		Session	Presentation Title	Speaker(s)
Start Time	**End Time**			
9:00 AM	9:30 AM	Repair Track: Repair Process Improvements	76732 Data-Driven Digital Twins for Predictive Maintenance of Gas Turbine Hot Operation Components	Jaroslaw Szwedowicz, Siemens Energy AG
9:30 AM	10:00 AM	Repair Track: Repair Process Improvements	76680 Data-Driven Remaining Useful Life Estimation for Predictive Maintenance of Gas Turbine Engines	Giorgos, Protopapadakis, Aristotle University Of Thessaloniki
10:00 AM	10:30 AM	Repair Track: Repair Process Improvements	75933 Recrystallization of Rene N4 and N5	Hans Van Esch, TEServices
10:30 AM	11:00 AM	Repair Track: Repair Process Improvements	74360 Additive Manufacturing for Hybrid Repair of Turbine Components – a Review	Dheepa Srinivasan, Adjunct Faculty, IIT, Ropar
11:00 AM	11:15 AM	**Networking Break, Visit Sponsors and Exhibitors**		
11:15 AM	11:45 AM	Advanced Manufacturing track: Evaluation of Advanced Manufactured Parts for Gas Turbines	76281 Long Term Exposure and Evaluation of Am Haynes 188	Vamadevan Gowreesan, Sulzer
11:45 AM	12:15 PM	Advanced Manufacturing track: Evaluation of Advanced Manufactured Parts for Gas Turbines	76499 Evaluation of Abd®-900am for Gas Turbine Additive Manufacturing & Repair	John Shingledecker, Electric Power Research Institute
12:15 PM	12:45 PM	Advanced Manufacturing track: Evaluation of Advanced Manufactured Parts for Gas Turbines	76298 Modelling Techniques for Selective Laser Melting Technology	Grzegorz Moneta, Lukasiewicz Research Network – Institute of Aviation
12:45 PM	1:15 PM	Advanced Manufacturing track: Evaluation of Advanced Manufactured Parts for Gas Turbines	76662 Novel Ultrasonic Based Technology for Support Removal and Post-Processing for Additive Manufacturing	Tomasz Choma, AMAZEMET
1:15 PM	1:45 PM	Advanced Manufacturing track: Evaluation of Advanced Manufactured Parts for Gas Turbines	76722 Novel Barrier Coatings for Aerospace & Land-Based Gas Turbine Engine Applications	Lance Scudder, Applied Materials Inc.
1:45 PM	2:00 PM	**Networking Break, Visit Sponsors and Exhibitors**		

Friday, October 8

North America EDT		Session	Description	Speaker(s)
Start Time	**End Time**			
9:00 AM	10:00 AM	Tutorial	Tutorial: Environmental Barrier Coatings (EBCs) and Ceramic Matrix Composites (CMCs) for the Next Generation of Gas Turbines	Dr. Rogerio Lima, National Research Council of Canada
10:00 AM	10:15 AM	**Networking Break, Visit Sponsors and Exhibitors**		
10:15 AM	11:15 AM	Lecture	Legal issues through its Additive Manufacturing and Design	Dr. Tim Simpson, Pennsylvania State University
11:15 AM	11:30 AM	**Networking Break, Visit Sponsors and Exhibitors, and Closing Remarks**		