

AMRGT Schedule Overview - October 5 - 8

Tuesday , October 5 - 9:00 AM to 12:30 PM

9:00 AM to 10:50 AM	Welcome to AMRGT	Tom Costabile Welcomes Attendees	Thomas Costabile P.E; ASME Executive Director / CEO
	Session Introduction	Volunteer	Bobby Noble
	Keynote	Zero Emissions Approaches for the Electrical Generation Industry	Neva Espinoza, Electric Power Research Institute
	Tutorial	Machining Processes for Manufacturing & Repair	Dr.-Ing. Sascha Gierlings, IPT Dr.-Ing. Tim Herrig, IPT Robin Day, MSC, IPT
Networking			
11:15:00 AM - 12:30 PM	Panel Introduction	Bobby Noble introduces Panel	Bobby Noble, EPRI
	Panel	Fabrication and Repair of Industrial Gas Turbine Engine Components using Advanced Manufacturing Processes	Moderator: Thomas R. Kurfess, ORNL Dr. Michael Kirka, ORNL Dr. Vincent C. Paquit, ORNL Dr. Thomas Feldhausen, ORNL
	Close	N/A	Bobby Noble, EPRI

Wednesday, October 6 - 9:00 AM to 3:30 PM

9:00 AM - 11:25 AM	Welcome to AMRGT Day 2	N/A	John Scheibel, EPRI
	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
	Repair Track: Repair Process Improvements	76688 Digitized Repair Process Chain – Communicating the Scan Requirements	Sophie Babette Rees, Siemens AG
	Repair Track: Repair Process Improvements	76714 Automated Digital Blue Light Scanning Inspection of Gas Turbine Parts	Kamel Tayebi, GE GasPower Badi Alquzayz, GE Gas Power
	Repair Track: Repair Process Improvements	76716 Automated Turbine Blade Repair Planning and Execution	Philipp Gilge, Leibniz Universitaet Hannover
Networking			
11:50 AM - 1:55 PM	AM Track Introduction	N/A	Rich Dennis, Department of Energy NETL
	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	Ramesh Keshava, PSM a Hanwha Company
	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
	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 Homin Lim, Hanyang University Seungho Choi, Hanyang University
	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
Networking			
2:15 PM - 3:30 PM	Lecture Introduction	N/A	John Scheibel, EPRI
	Lecture	Process Compensated Resonance Testing (PCRT) with Case Studies	Nicholas Smith, EPRI Garrett Gatewood, Vibrant
	Close	N/A	John Scheibel, EPRI

Thursday, October 7 - 9:00 AM to 2:15 PM

9:00 AM- 10:50 AM	Welcome Day 3	N/A	Rich Dennis, Department of Energy NETL
	Repair Track: Repair Process Improvements	76732 Data-Driven Digital Twins for Predictive Maintenance of Gas Turbine Hot Operation Components	Rishi Relan, Siemens
	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
	Repair Track: Repair Process Improvements	75933 Recrystallization of Rene N4 and N5	Hans Van Esch, TEServices
Networking			
11:15 AM - 2:15 PM	AM Track Introduction	N/A	Cis De Maesschalck, Rolls-Royce plc
	Advanced Manufacturing Track: Evaluation of Advanced Manufactured Parts for Gas Turbines	76281 Long Term Exposure and Evaluation of Am Haynes 188	Vamadevan Gowreesan, Sulzer
	Advanced Manufacturing Track: Evaluation of Advanced Manufactured Parts for Gas Turbines	76298 Modelling Techniques for Selective Laser Melting Technology	Grzegorz Moneta, Lukaszewicz Research Network – Institute of Aviation
	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
	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 Institute
Close	N/A	Cis De Maesschalck, Rolls-Royce plc	

Friday, October 8 - 9:00 AM to 11:45 AM

9:00 AM - 10:10 AM	Welcome AMRGT Day 4	N/A	Bobby Noble, EPRI
	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
	Networking	Topical Networking	Bobby Noble, EPRI
10:35 AM-11:45 PM	Lecture Introduction	N/A	Cis De Maesschalck, Rolls-Royce plc
	Lecture	Legal Issues through its Additive Manufacturing and Design	Dr. Timothy Simpson Pennsylvania State University
	Close	N/A	Cis De Maesschalck, Rolls-Royce plc