

PIWG FALL FORUM - PRELIMINARY TECHNICAL PROGRAM - UPDATED 07/29/25
Tuesday, September 9, 2025

TIME	Registration 7:30AM - 8:00AM		
8:00	Remarks, Introductions, Housekeeping and PIWG Overview	PIWG Chair Andrew Consiglio and Technical Chair Harvey Niska	
8:30	Purdue University	Dr. Robert Lueht - Engineering Director of Zucrow Laboratories	
9:00	Purdue University	Dr William Crossley - Director PEGASUS - FAA Center of Excellence	
9:30	3D Printed Articles for Aerodynamic Research	Pennsylvania State University	Dr Tamy Guimaraes
10:00	Inverse Heat Conduction Problems in Complex Environments	Notre Dame	Evan Smith and Scott Morris
10:30	Break		
11:00	High Temperature Vibration Solutions	Dytran Instruments HBK	Nick Tretola
11:30	Innovative Measurement Approaches in Particle Ingestion Engine Research	Virginia Tech	Boone Estes
12:00	A Machine Learning Framework for Sensor Health Analysis	Pratt and Whitney	Andy Urcinas
12:30	LUNCH		
13:00	LUNCH		
13:30	Propulsion Instrumentation Needs for Future Aerospace Systems	Air Force Research Lab (AFRL)	Dr Richard Anthony - invited
14:00	The National Experimental Turbine (NEt) - A Vehicle for instrumentation Demonstration	Pennsylvania State University	Dr. Reid Berdanier
14:30	Development of 1000 degree C capable instrumentation for advanced propulsion Testing	Sporiam Microsystems	Evan Pilant
15:00	Break		
15:30	Artificial Intelligence Concepts for Sensor and Turbine Anomaly Detection	Virginia Tech National Security Institute	Collin Phillips
16:00	OPEN	OPEN	OPEN
16:30	OPEN	OPEN	OPEN

Wednesday, September 10, 2025

9:00	Keynote - Counterfeit Electronics	Redstone Test Center - Brandon Jones	
9:30	Keynote - Counterfeit Electronics		
10:00	Break		
10:30	Reduction of Uncertainty in Temperature Measurement for Aerodynamic Component Testing	IHI Corporation - Japan	Hirofumi Yamaguchi
11:00	Rig Testing High Temperature Unsteady Pressure Sensors	Pratt and Whitney	Brennan Pursley
11:30	Development of a turboprop engine gas generator turbine with improved key parameters	GE Aerospace - Poland	Grzegorz Karpinski
12:00	Toward the Use of Hotwires in a TRL5 Environment	Notre Dame	Michael Linder and Scott Morris
12:30	Lunch		
13:00	Lunch		
13:30	Tour	Dr. Arvid Ramin - Tour Lead	
14:00	Tour	Purdue University (3 hour window)	
14:30	Tour	Purdue University (3 hour window)	
15:00	Tour	Purdue University (3 hour window)	
15:30	Tour	Purdue University (3 hour window)	
16:00	Tour	Purdue University (3 hour window)	

Thursday, September 11, 2025

9:15	Remarks and Comments	Andy Consiglio	
9:30	Technical Keynote - Purdue Turbine Research and Development	Dr. Guillermo Panaigua-Perez	
10:00	Technical Keynote - Purdue Compressor Research and Development	Dr. Nicole Key	
10:30	Break		
11:00	TBD	Raytheon - PWA	Jen Hall
11:30	Symbolic Regression Application to Multihole Pressure Probe Calibration	Pennsylvania State University	Dahae Jeong
12:00	Developing Calibration Processes to Improve Reliability in Aerospace Turbine Testing from 300C-2200C	NANMAC	Herb Dwyer
12:30	ADJOURN		
13:00	Closing Remarks - PIWG and OAI Parallax		

TBD	Sporiam Microsystems	Evan Pilant	
TBD	Virginia Tech	VT to provide student presenter info	
TBD	Purdue University	Purdue to provide student presenter info	
History of Propulsion Test Instrumentation - Strain Gages and Sliprings	Instrumentation Technology Consulting	Harvey Niska	backup