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	PIWG 2025 FALL FORUM - TECH	NICAL PROGRAM - updated 08/11/2025							
	Tuesday,	September 9, 2025							
TIME									
7:30	Registration, Continental Breakfast, and Welcome	PIWG Chair Andrew Consiglio and OAI Parallax Carol Cash		-			-	_	-
8:00	PIWG celebrates 30 years - 1995 to 2025	Andrew Consiglio and Harvey Niska					-+		+-
8:30	Welcome - Purdue University	Dr. Robert Lucht - Engineering Director of Zucrow Laboratories					-	_	
9:00	Propulsion Instrumentation Needs for Future Aerospace Systems	Air Force Research Laboratory (AFRL)	Dr Richard Anthony - invited	_			-+	-+	$-\!\!\!\!\!+\!\!\!\!\!-$
9:30	3D Printed Articles for Aerodynamic Research	Pennsylvania State University	Dr Tamy Guimaraes	++			-+	-+	-
10:00	Inverse Heat Conduction Problems in Complex Environments	University of Notre Dame	Evan Smith and Scott Morris	++			-+	-+	+-
	Break	University of Notre Dame	Evan Smith and Scott Worris	_				-+	-
10:30	=	n 1 11 11 11		+			-+	-+	$+\!-$
11:00	High Speed Turbine Measurements to Characterize Efficiency and Time Resolved Aerodynamics	Purdue University	Dr. Lakshya Bhatnagar and Dr. Antonio Castillo	$-\!\!\!\!-\!\!\!\!-$			-+	-	-
11:30	Purdue Compressor Research and Development	Purdue University	Dr. Nicole Key	+			\rightarrow	$-\!\!\!+\!\!\!\!-$	——
12:00	Reduction of Uncertainty in Temperature Measurement for Aerodynamic Component Testing	IHI Corporation - Japan	Hirofumi Yamaguchi						
12:30	LUNCH			4			\longrightarrow		
13:00	LUNCH			4					$-\!$
13:30	The National Experimental Turbine (NExT) - A Vehicle for Instrumentation Demonstration	Pennsylvania State University	Ryan Van Domelen	\rightarrow				$-\!\!\!\!+\!$	$-\!$
14:00	Rig Testing High Temperature Unsteady Pressure Sensors	Pratt and Whitney	Brennan Pursley	\bot					
14:30	Development of 1000C Capable Instrumentation for Advanced Propulsion Testing	Sporian Microsystems Inc	Evan Pilant	\bot			\rightarrow		\bot
15:00	Break								
15:30	Transient Thermal Paints Based on the Sintering of Glass Ceramics	Rolls Royce	Noah Burke						
16:00	TBD	Non-Contact Technologies LLC	Bryan Hayes						
16:30	High Temperature Vibration Solutions	Dytran Instruments HBK	Nick Tretola						
	Wednesday, September 10, 2025								
8:00	Continental Breakfast - Remarks and Comments Andrew Consiglio								
8:30	Keynote - Counterfeit Electronics	US Army Redstone Test Center - Brandon Jones							
9:00	Keynote - Counterfeit Electronics								
9:30	Artificial Intelligence Concepts for Sensor and Turbine Anomaly Detection	Virginia Tech National Security Institute	Collin Phillips						
10:00	A Machine Learning Framework for Sensor Health Analysis	Pratt and Whitney	Andy Urcinas						
10:30	Break								
11:00	Purdue AAE and ME Overview	Purdue University	Dr William Crossley - Director						
11:30	Development of a turboprop engine gas generator turbine with improved key parameters	GE Aerospace - Poland	Grzegorz Kaczmarek						
12:00	Virginia Tech's Game Changing FRS Flow Field Measurement Technology	Virginia Tech	Keaton Hanley						
12:30	Lunch								
13:00	Lunch						_		
13:30	Tour	Dr. Rohan Gejii- 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)					-	-	\neg
15:30	Tour	Purdue University (3 hour		\pm					_
16:00	Tour	Purdue University (3 hour		-				-	_
10.00	Thursday, September 11, 2025							_	_
8::00	Continental Breakfast - Remarks and Comments Andrew Consiglio			_			-+	-	+-
8:30	M250-C40B Engine Test Rig; Development and Commissioning	Purdue University	Sergio Grasa				-+		
9:00	Toward the Use of Hotwires in a TRL5 Environment	University of Notre Dame	Michael Linder and Scott Morris	+-+			-+	-	+-
9:00	Innovative Measurement Approaches in Particle Ingestion Engine Research	Virginia Tech	Boone Estes	+			-+	-+	+-
10:00	UCTS Best Practrices and Case Studies for Optimizing Temperature Measurements	LG Tech-Link Global LLC	Anastasia Thomas	+			-+	-+	+-
10:00	UCIS Best Practrices and Case Studies for Optimizing Temperature Measurements Break	LG TEGIT-LITK GIODAL LLC	Milastasid Hilliids	+			-+	-+	+-
		Double of DMA	Jen Hall	+			-+	-+	+
11:00 11:30	Current and Future Instrumentation Needs for Aeromechanic Testing	Raytheon - PWA		+	-		-+	-+	+-
	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	Closing Remarks - PIWG and OAI Parallax		4			-+	-	-
13:00									

Topics for Presentations

Rotating sensor installations

"Bolt-on" attached sensor assemblies

Vibration and acceleration measurements

Strain measurements - dynamic and static

Temperature measurements

Pressure measurements - dynamic and static

Clearance and blade tip timing

High temperature and hot section flowpath

Hypersonics

Inlet particle ingestion technologies

Embedded sensors and 3D printing

Fan and compressor flowpath measurement technologies

Device fabrication and base technologies

Devices development of enabling technologies

Data transmission technology - telemetry, slip rings, and wireless

Engine test data and processing

Data measurement uncertainty and correlation

Student focused - research and development topics