

**THE 12TH ISRAELI SYMPOSIUM ON JET ENGINES AND GAS
TURBINES**

Thursday, November 7 2013 (9:00-17:00),

**Butler Auditorium, Forchheimer Building, Neaman Institute (Building
#260), Technion, Haifa**



Propulsion Branch IMOD



Turbo and Jet Engine Laboratory



Propulsion Branch
IAF

THE TURBINES THE 12TH ISRAELI SYMPOSIUM ON JET ENGINES AND GAS TURBINES

Start	End	PROGRAM	
07:45	09:00	הרשמה (Registration)	Language
		Opening: Professor Yeshayahou Levy, Chairman, Head, Turbo and Jet Engine Laboratory, Faculty of Aerospace Engineering, Technion.	English
		Professor Oded Shemuely, Executive VP for Research of the Technion	English
		Professor Yaakov Oshman, Dean, Faculty of Aerospace Engineering, Technion.	English
		Major Uri Zvikel, Head, Propulsion Systems Branch, Aeronautical Division, MOD/MFAT	
		Lt.Col. Shlomi Konforty, Head of Propulsion Branch, IAF	
09:20	13:00	מושב ראשון (First Session) RECENT ADVANCEMENT IN ENGINE DESIGN	
		Session Chairman: Emanuel Liban, EDMATECH LTd. & Chairman of Israel Society of Mechanical and Aerospace Engineers and Major Uri Zvikel, Head, Propulsion Systems Branch, Aeronautical Division, MOD/MFAT לזכר מהנדס (אודי) יהודה גילאי ז"ל In memory of late Ing. Udi Gilai	
A1		Prof. Alan Epstein, VP Technology and Environment, Pratt & Whitney, USA, " Aero-propulsion for Commercial Aviation in the 21st Century and Research Directions Needed"	English
A2		Mike Epstein, Military Propulsion Engineering. GE Aviation, Aviation Propulsion Technologies in the 21st Century	English
A3		Prof. Srinath Ekkad, Mech. Eng. Dep., Virginia Tech, USA, "Advanced Film Cooling and Combustor Cooling Concepts for Gas Turbines"	English
11:20	11:40	הפסקה וכיבוד קל (Break and refreshments)	
A4		Prof. Dr. Guillermo Paniagua, Von Karman Institute, "Recent Development High Pressure Unsteady Aerodynamic Turbine Design"	English
A5		Prof. Arvind Rao, Technical University - Delft, The Netherlands, "AHEAD Advanced Hybrid Engine Development"	English
A6		Andrzej Cwik, WSK "PZL-Rzeszow" S.A., Poland, "Turbojet engine compressor surge margin estimation: methods & comparison to turbojet engine experimental testing"	English
13:00	14:30	- ארוחת צהריים וסיור במעבדה למנועי סילון (Lunch and laboratory visit)	

(Lunch and laboratory visit) 13:00-14:30 ארוחת צהריים וסיור במעבדה למנועי סילון

	מושב שני 14:30 - 16:50 R&D - SYSTEMS and COMPONENTS			מושב שלישי 14:30 - 16:50 STRUCTURE and SYSTEMS			
	Session Chairman: AMIRAM LEITNER Rafael and Yitzhak Hochmann, EDMATECH.			Session Chairman: AVIAD BRANDSTEIN, Bedek Aviation Group, IAI and Maj. Avi Yosfan, Head of the Engine Engineering Group, Propulsion Branch, IAF.			
B1	Dr. Beni Cukurel, Faculty Aerospace Eng., Technion, "Design of a Closed loop Continuous Turbine Test Rig"	E	C1	Albert Levy, Bet Shemesh Engine, Israel, "Damage at the Gas Turbine's First Compressor Stage due to Sand Ingestion"	H		
B2	Dr. Rammy Shellef, Ettem Engineering, Israel "Dynamic Sealing in gas Turbines"	E	C2	Shalev Aizik, Preliminary Engine Design, Engines Division Engineering, IAI, Israel, "On the Effect of the By-Pass Ratio on the Dynamic Response of a Turbo Fan Engine"	H		
B3	Prof. Levy Yeshayahou, Head Turbo and Jet Engine Laboratory, TECHNION, "Using Chemical Kinetics as a Tool For Improved Efficiency and Low Emission Jet Engine Combustor's Design"	E	C3	Ohad Miler and Savely Khosid, Rafael, Israel, " Optimization of Aero-Mechanical Turbo Machinery Design"	H		מושב רביעי 16:50 - 15:50 MAINTANANCE Session Chairman: MOSHE LEVY, IAF

Break and refreshments 15:30-15:50 הפסקה וקיבוד קל

D1	H. Rosenson, A. Fleisher, S. Essel and Alex Katz, Israel Institute of Metals, Foundry Laboratory, Technion R&D Foundation, "High Entropy Alloys"	H	E1	Emanuel Liban, EDMATECH, Isreal: "F-4 (Phantom) A/C modernization by engines' conversion"	H	F1	Dave Ogden, Southwest Research Institute (SRI), "Condition Based Maintenance work"	E
D2	Raz Faibish, Technion, Student project: "SE'ARA" (Storm) – Conceptual UAV Jet-engine design (Students' project, under the supervision of Dr. Boris Glezer).	H	E2	Cpt. Ivgeni Glishensky, IAF, Israel, "Minimizing Flutter in the T700 Turbo shaft Engine"	H	F2	Steve Deane, ZOK International Group, UK, "Shaping the Future of Gas Turbine Washing"	E
D3	Eli Yakirevich, Bet Shemesh Engine, Israel, "Graphic - Analytical Solution for Contradicting Engine Specification Requirement"	H	E3	Dr. Doron Gur, Head Metallurgic Laboratory, Engine Division, IAI, Israel, "Investigation of Jet Engines Failure"	H	F3	Jarrold Schell, Moog/Mid-America Aviation - "ADVANCED SURFACE REPAIR CAPABILITIES"	E

LANGUAGE: E=English, H = Hebrew