



Propulsion Branch
IMOD



DEPARTMENT OF
AEROSPACE ENGINEERING



Propulsion Branch
IAF

TECHNICAL PROGRAM

	<p align="center">17th ISRAELI SYMPOSIUM ON JET ENGINES & GAS TURBINES, NOVEMBER 8 2018, Auditorium(#6), Dan and Betty Kahan Building, Faculty of Mechanical Engineering</p>
07:45 - 09:00	(Registration) הרשמה
09:00	<p>Opening: Professor Yeshayahou Levy, Chairman, Faculty of Aerospace Engineering, Technion.</p>
	<p>Professor Itschak Frankel, Dean, Faculty of Aerospace Engineering, Technion.</p>
	<p>Major Yigal Ben Shabat, Head, Propulsion Systems Branch, Aeronautical Division, MOD/MFAT</p>
09:20 - 13:10	(First Session, In English) מושב ראשון
	RECENT ADVANCEMENTS IN ENGINE DESIGN
40 min. lectures	Session Chairman: Ariel Cohen, Bet Shemesh Engines LTd.
A1	<p>Aero-Thermal Methods For Engine Design: Evolution And Challenges Atul Kohli, Pratt & Whitney</p>
A2	<p>Gas Turbine Engine Secondary Flow System Overview Bruno Aguilar, Honeywell</p>
10:40 - 11:00	(Break and refreshment) הפסקה וכיבוד קל
A3	<p>Design for Additive Manufacturing of Internal Cooling Channel Optimization Prof. Francesco Montomoli, Imperial College London</p>
A4	<p>Design Optimization and Experimental Testing of Advanced Turbine Tip Geometries Prof. Tom Verstraete, Von Karman Institute for Fluid Dynamics</p>
A5	<p>Additive Manufacturing Challenges and Opportunities with Regard to Turbomachinery in 2018 Eli Yakirevich Bet Shemesh Engines Ltd.</p>
13:00 -14:30	<p align="center">ארוחת צהריים וסיור במעבדה למנועי סילון (Lunch and laboratory visit)</p>

**17th ISRAELI SYMPOSIUM ON JET ENGINES & GAS TURBINES,
Auditorium(#6), Faculty of Mechanical Engineering, Technion, Haifa,
November 8 2018,**

TECHNICAL PROGRAM (Cont.)

Lectures in Hebrew, 20 min. lectures. 14:30 - 17:10 כל ההרצאות 20 ד' ובעברית.			
Second Session מושב שני 14:30 -15:30 Auditorium (#6)		Third Session מושב שלישי 14:30 -15:30 room 217	
Design & Optimization		Turbomachinery	
Session Chairman: Boris Leizeronok, Technion		Session Chairman: Ella Berlowitz Paska, Rafael	
B1	Influence of Installation on Turbine Performance Ram Evron and Albert Levy Bet Shemesh Engines Ltd.	C1	Reconstruction of Jet Engine Compressor Map Using Transient Test Michael Lichtsinder, Bet Shemesh Engines Ltd.
B2	1-D Model of Secondary Flow in Micro Gas Turbines Julian Härter, Yedidya Cohen, Beni Cukurel, TECHNION	C2	A Laboratory Platform for Dynamic Investigation, Simulation and Validation of High-Speed Rotors Alexander Ferdinskoif and Prof. Izhak Bucher, TECHNION
B3	Transport Airplane Cabin Air Contamination Using Engine Bleed Akiva Kraus, Ilan Berlowitz Israel Aerospace Industries Ltd.	C3	Compact Volute Design Methodology for Uniform Flow Turning, Lukas Englebert, Ron Miezner, Beni Cukurel Technion
15:30- 15:50 (Break and refreshment) הפסקה וכיבוד קל			
Forth Session מושב רביעי 15:50 -17:10 Auditorium(#6)		Fifth Session מושב המישי 15:50 -17:10 room 217	
Fuel & Combustion		Systems & Maintenance	
D1	The Influence of Injector's Configuration on The Quality of Fuel Spray During Start-Up in Jet Engines Dafna Markovitch, IAF	E1	Thrust Augmentation in Micro-Turbojets Using Water Spraying Balas Shachar, Rafael Advanced Defense Systems
D2	On the Operation of Fuel Vaporizers of Small Jet Engines Prof. E. Levy Yeshayahou Dr. Valery Sherbaum, Igor Gaisinsski, Vitali Ovcharenko, Vlademer Erenburg and Ori Kam, Technion	E2	Shortening of a Small Turbojet Starting Time Yohanan Nahmana and Albert Levy Bet Shemesh Engines Ltd.
D3	Combined Methanol and Fuel Oil Burning in Gas Turbines And Utility Boilers As an Attractive Alternative for Emission Reduction and an Option for Onsite Fuel Security Boris Chudnovsky and Modi Reshef, Israel Electric Corporation (IEC), Shaike Baitel, DOR Chemicals	E3	Transport Airplane Turbofan Engine Controls & Displays Ilan Berlowitz Israel Aerospace Industries
D4	New Insights for Ignition in Gas Turbine Engines Joseph Lefkowitz, Technion	E4	TBD

