



**16th ISRAELI SYMPOSIUM ON JET ENGINES & GAS TURBINES,
Auditorium (room 235), Faculty of Aerospace Engineering, Technion,
Haifa, Israel
November 9 2017,**



TECHNICAL PROGRAM

16 th ISRAELI SYMPOSIUM ON JET ENGINES & GAS TURBINES, NOVEMBER 9 2017, Auditorium , Faculty of Aerospace Engineering (room 235)	
07:45 - 09:00	(Registration) הרשמה
09:00	Opening: Professor Yeshayahou Levy, Chairman, Faculty of Aerospace Engineering, Technion.
	Professor Wayne D. Kaplan Executive Vice President for Research Technion – Israel Institute of Technology
	Professor Yaakov Cohen, Dean, Faculty of Aerospace Engineering, Technion.
	Major Yigal Ben Shabat, Head, Propulsion Systems Branch, Aeronautical Division, MOD/MFAT
	Lieutenant Colonel Avi Yosfan, Head of Engineering, Propulsion Branch, IAF
09:20 - 13:10	מושב ראשון (First Session, In English)
	RECENT ADVANCEMENTS IN ENGINE DESIGN
35 min. lectures	Session Chairman: Yeshayahou Levy, Technion
A1	“Integrated Thermal Management Systems” Glenn Crabtree Consulting Engineer, Military Systems Engineering, GE Aviation,
A2	“The Technical Evolution of Fighter Engine Propulsion in the IAF” Tom Prete Vice President, Engineering, Military Engines Pratt & Whitney
A3	“ Thermal Mechanical Analysis of an Internally Cooled Stator” Bruno Aguilar ,Honeywell,
11:05 - 11:25	(Break and refreshment) הפסקה וכיבוד קל
A4	“Effects of manufacturing variability on unsteady interaction in a transonic turbine” John Clark Principal Engineer in Turbine Engine Division, US Airforce
A5	“Integrated Approach for Direct Calculation of Off-Design Performance of Gas Turbine Engine” Abdul Nassar Managing Director, Softinway
A6	“A Radical View on the Improvement of Gas Turbine Technology and Future Direction” Changmin Son Pusan National University, S. Korea
13:10 -14:30	ארוחת צהריים וסיור במעבדה למנועי סילון (Lunch and laboratory visit)



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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 room 165		Third Session מושב שלישי 14:30 -15:30 room 235	
Design & Optimization		Turbomachinery	
Session Chairman: Savely Khosid, Rafael		Session Chairman: Beni Cukurel, Technion	
B1	“Optimization in design of a miniature turbojet engine: Existing tools and potential of implementation” Savely Khosid, Ohad Miller, Manor, Rafael LTD.	C1	“Influence of Turbine Exit Flow Swirl on Exhaust Nozzle Performance” Ram Evron, Zvi Gorali and Ori Kam BSE LTD.
B2	“Economic Dispatch and Unit Commitment of a Single Micro-Gas Turbine under CHP Operation” Dan Zelazo, Beni Cukurel Technion	C2	“Increasing Efficiency of UAV Internal Combustion Engines via Inverted Brayton Cycle” Idan, Chazan, Beni Cukurel Technion
B3	“Aero-Engine Fan Gearbox Design” Ilan Berlowitz Israel Aerospace Industries,	C3	“Mean-line optimum design of a small axial turbine with millions configurations” S.Khosid, M. Goldbaum, R. Priampolsky Manor, Rafael LTD.
15:30- 15:50 (Break and refreshment) הפסקה וכיבוד קל			
Fifth Session מושב חמישי 15:50 -17:10 room 165		Six Session מושב שישי 15:50 -17:10 room 235	
Fuel & Combustion		Systems & Maintenance	
D1	“On the Conversion of a Large Turbo Fan Engine’s Combustor To Be Fueled By Natural Gas” Yeshayahou Levy Technion	E1	“OT or Not? Issues concerning Over-Temperature in Turbine's Blades” Capt. Nitzan David Foucks, M&P Dept., IAF
D2	“On the Development of a SMD Correlation for a Spray Exiting from a Slinger Atomizer SMD” Ariel Cohen, BSE Ltd	E2	“Monitoring Engine Gearbox as preventive maintenances” Yosi Pickel, IAF
D3	“Lean Premixed Prevaporized Combustion for Gas Turbines” Aharon David, LPP Combustion LTD.	E3	“The Danger of Water in Aircraft Fuel Systems” Orian Elmaliach and Michal Yardeni Fuel and Chemistry Department, Materials Division, IAF
D4	“Impact of fuel composition on the dynamics of lean premixed combustion” Dan Michaels, Technion	E4	TBD