



Propulsion Branch
IMOD



DEPARTMENT OF
AEROSPACE ENGINEERING

Turbo and Jet Engine Laboratory
Department of Aerospace Engineering
Technion, Haifa

<http://jet-engine-lab.technion.ac.il>



Propulsion Branch
IAF

THE 13TH (Bar Mitva) ISRAELI SYMPOSIUM ON JET ENGINES AND GAS TURBINES

Venue: main building of the Faculty of Aerospace Engineering

Thursday, November 6 2014 (9:00-17:00)
Technion, Haifa

TECHNICAL PROGRAM

8:00 - 9:00	(Registration) הרשמה
9:00 - 9:20	Opening: Professor Yeshayahou Levy, Chairman of the Symposium, Head, Turbo and Jet Engine Laboratory, Faculty of Aerospace Engineering, Technion.
	Professor Yaakov Oshman, Dean, Faculty of Aerospace Engineering, Technion.
	Ltc. Uri Zvikel, Head, Propulsion Systems Branch, Aeronautical Division, MOD.
	Lt.Col. Shlomi Konforty, Head of Propulsion Branch, IAF
9:20 - 13:30	(Session First) מושב ראשון Session Chairman: Ltc Uri Zvikel, MOD & Mr. Emanuel Liban, Edmatech
A1	James A. Kenyon, Pratt & Whitney, USA, "Trends in Advanced Engine Technology"
A2	Thurmond Senter, GE Aviation, USA, "Technology Impact On Future Products"
A3	Richard Hausen, Honeywell Propulsion, USA, "Emissions and Ignition Trade Considerations for Small Engines Low Emissions Combustor Design"
11:20 - 11:40	(Break and refreshments) הפסקה וכיבוד קל
A4	Prof. Michael Casey, PCA Engineers Limited, UK, "A new approach to map prediction of radial compressors"
A5	Prof. Damian Vogt, University of Stuttgart, Germany, "Turbomachinery Blade Vibrations: Causes, Opportunities and Challenges"
A6	Student's Project: Dorin Avsaid, Alon Dahan, Tomer Yehezkeal, Dor Shitrit, Tamir Ben Nachum, Yonit Zaslavsky, Michael Presman, Maor Schkolnik, Technion, Israel, "Afterburner and Vectoring Nozzle for a Small Jet Engine"
13:30 - 14:45	(Lunch) ארוחת צהריים

**THE 13TH (Bar Mitva) ISRAELI SYMPOSIUM ON JET ENGINES AND GAS TURBINES
TECHNICAL PROGRAM (Cont.)**

Thursday, November 6 2014 (9:00-17:00),

14:45 - 15:45	2 ND Session, Fluid Mechanics & H.T. מושב שלישי, מכניקת זורמים ומעבר חום Session Chairman: Dr. Khosid Savely, Rafael	14:45 - 15:45	3 RD Session, Fuel מושב שלישי, דלקים Session Chairman: Dr. Boris Chudnovski, Israel Electric Company
B1	Dr. Beni Cukurel, Technion, "Thermal Management Ramifications of Acoustic Resonances in Turbine Blade Internal Cooling Channels"	C1	Dr. Anat Bonshtien, Fuel Choices Initiative Prime Minister's Office , "The Fuel Choices Initiative – Pushing Towards Alternatives"
B2	Zvi Gorelik, Bet Shemesh Engines, "Identification and Treatment of Separation Phenomena during the CFD Design on Turbomachinery Blades"	C2	Mordechai Reshef and Dr. Boris Chudnovsky, Israel Electric Company, Dr. Moshe Keren and Shaike Baitel (Dor Chemical), "Long Term Experience of Methanol Firing in Utility Gas Turbine"
B3	Dr. Khosid Savely, Manor, Rafael, "Optimization using CFD: methods and tools for engineers"	C3	Prof. Yeshayahou Levy, Technion "Alternative Fuels for Gas Turbine and Jet Engines"
15:45 - 16:00	הפסקה וכיבוד קל (Break and refreshments)	15:45 - 16:00	הפסקה וכיבוד קל (Break and refreshments)
16:00 - 17:00	4 TH Session, Structure מושב רביעי, מבנה Session Chairman: Yitzhak Hochmann, Edmatech	16:00 - 17:00	5 TH Session, Systems & Control מושב חמישי, מערכות ובקרה Session Chairman: Dr. Moshe Shapira, Bet Shemesh Engines
D1	Ido Koresh, Shimshon Bar-ziv, Ahron Halevy, Anat Shenar, Shlomit Zamir, Manor Rafael, Israel, "Cold Spin Test (CST) of Silicon Nitride Discs for Jet-Engine Applications"	E1	Dr. David Lior, RJet Engineering, "Improvements in Cooling of Gas Turbines"
D2	Dolev Ohad, Rafael, Israel, "Additive Manufacturing for Jet Engine Applications"	E2	Ilan Berlowitz, Israel Aerospace Industries, "A View of the Future of Civil Transport Aircraft Propulsion Systems"
D3	Captain Shani Eitan , Israel Air Force, "Numerical and Analytical investigation of cracks in Turbine Exhaust Case Struts of F100 engine"	E3	Dr. Michael Lichtsinder, Bet Shemesh Engine, Israel, "Twin Spool Engine Control Using Partial Engine Model"

אישור כניסה לרכב

הצגת תכנית זו בשער הטכניון תאפשר כניסה עם רכב לטכניון



יחידת האבטחה בטכניון
בטכניון - מוסד המחקר והטכנולוגיה לישראל



CAR ENTRANCE PERMIT

**PRESENTATION OF THIS PROGRAM WILL SERVE AS THE CAR ENTRANCE PERMIT AT THE
TECHNION'S GATE**