

**Presentations**  
**7<sup>th</sup> Israeli Symposium on Jet Engines and Gas Turbines**  
**Faculty of Aerospace Engineering, Technion, Haifa (6/11/2008)**

**Opening:**

- **Professor Omri Rand**, Dean, Faculty of Aerospace Engineering, Technion
- **Ltc. Baruch Bar Netz**, Chief Propulsion Branch, IAF
- **Ltc. Roni Gordana**, Head, Propulsion Systems Branch, Aeronautical Division, MOD

**First Session**

**Session Chairman: Dr. Moshe Shapira, V.P R&D, Bet Shemesh Engines, Israel.**

1. New Developments for Military Gas Turbines,  
Lars Seumenicht, Head of Defense Sales, Rolls-Royce, Germany.
2. Intelligent Incorporation of Advanced Technology into Legacy Fighter Jet Engines to Increase Time on Wing and Reduce Maintenance Cost,  
Konstantino Kouris, F100 Engineering Manager, Pratt & Whitney, USA.
3. Aviation Technology Strategy for the 21st Century,  
Rolf Hetico, Manager, F136 Engine Systems Design and Integration, GE Aviation, Evendale, Ohio, USA.
4. Infrared Signatures Modeling of Aircraft Exhaust Plume,  
Prof. Arvind G. Rao and Prof. J.P.van Buijtenen, Faculty of Aerospace Engineering, Technical University of Delft, The Netherlands.
5. Unsteady Forces and Flutter in the Compressor of the Aircraft Engine, Numerical and Experimental Results.  
Prof. Romuald, Rządkowski, Department of Aeroelasticity, Institute of Fluid Flow Machinery, Polish Academy of Sciences, Poland.

**Second Session**

Session Chairman: Adam Weintraub, Manager, Engines Research, IAI

6. Incorporation of Gas Turbine with Combined Cycle (GTCC) in the Generation Expansion Plan of the Israeli Power System,  
Dr. David Elmakis, V.P. Planning Development & Technology, Israel Electric Company.
7. RotorDynamics and Active Detection of Faults in Rotating Bodies - Theoretical and Experimental Results,  
Prof. Izhak Bucher, Mechanical Engineering, Dynamics and Mechatronics Laboratory, Technion, Israel.
8. Atomization vs. Vaporization of Fuel in Micro Gas Turbines,  
Daniel Kutikov, Faculty of Aerospace Engineering, Technion, Haifa, Israel.
9. Swirling Flow in Annular Diffusers Between Two Counter-Rotating Turbines,  
Dr. Vladimir Ehrenburg, Becker Turbo System Engineering, Givatayim, Israel.
10. Numerical Investigation of Burning Processes in a Small Gas Turbine Combustor,  
Alex Dolnik, Turbo-Jet Engine Dept., RAFAEL Advanced Defense Systems Ltd., Israel.
11. Identification of Control Parameters of an Engine the Algorithm of Which is Partially Known,  
Dr. Michael Lichtsinder, Bet Shemesh Engines, Bet Shemesh, Israel.