



## **The 56<sup>th</sup> Israel Annual Conference on Aerospace Sciences**

### **In partnership with**

Faculty of Aerospace Engineering, Technion

Ben Gurion University of the Negev

Civil Aviation Authority of Israel

Directorate of Defense R&D, IMoD

Elbit Systems

IMI Systems

Israel Aerospace Industries

Israel Air Force

Israel Society of Aeronautics & Astronautics

Rafael Advanced Defense Systems

Tel-Aviv University

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## Program for Wednesday, March 9, 2016 Dan Panorama Hotel, Tel Aviv

**Registration**  
**08:00-09:00**

**Welcoming Address** Hall A

09:00-09:05

Harari, Amnon Chair, 56<sup>th</sup> IACAS  
Organizing Committee

**WeKLPL** Hall A

**Keynote Lecture** (Plenary Session)

Chair: Harari, Amnon Directorate of Defense R&D,  
Israel Ministry of Defense

09:05-09:50

WeKLPL.1

*Innovation and the Future of Mankind*

Eden, Shmuel (Mooly) Ex-Senior V.P Intel Corp. &  
President of Intel Israel;  
Hi-Tech Advisor

**WePI1PL** Hall A

**Plenary Lecture I** (Plenary Session)

Chair: Blass, Emanuel Israel Aerospace Industries

09:50-10:40

WePI1PL.1

*The High Tech Revolution and Its Impact on Air Power*

Rubin, Uzi Begin Sadat Center for  
Strategic Studies,  
Bar Ilan University

**Coffee Break**  
**10:40-11:00**

**WePI2PL** Hall A

**Plenary Lecture II - by winner of *The Meir Hanin International Aerospace Prize*** (Plenary Session)

Chair: Cohen, Jacob Technion

11:00-11:50

WePI2PL.1

*Vibration and Noise Reduction in Rotorcraft Using On-Blade Control: From Theoretical Concept to Flight Ready Hardware*

Friedmann, Peretz Univ. of Michigan

**Plenary Lecture III -  
Internationally Recognized Student Projects**  
(Plenary Session)

Chair: Yehoshua, Tal

Ministry of Defense

11:50-12:15

WePI3PL.1

*Development of an Autonomous Unmanned Aerial  
System for AUVSI SUAS Competition*

Yaari, Sagiv	Technion
Dalali, Gal	Technion
Gutnik, Yevgeni	Technion
Marcovici, David	Technion
Lesovoy, Ilia	Technion
Rozengard, Haya	Technion
Nagar, Shaya	Technion
Mazor, Lilach	Technion
Behar, Niv	Technion
Hassidof, Avishai	Technion
Garti, Havaya	Technion
Artzi, Dror	Technion
Orr, Itai	Technion
Bouscher, Shlomi	Technion
Kulikov, Michael	Technion
Malkis, Dima	Technion
Ashur, Ori	Technion
Avraham, Ori	EE, Technion
Aides, Amit	Technion
Ratner, Netanel	Technion
Gazit, Hovav	Technion

12:15-12:40

WePI3PL.2

*DBF 2015 – TAURNADO: Students UAV Design Project*

Ventura, Elad	Tel Aviv Univ.
Kaniewicz, Nadav	Tel Aviv Univ.
Epstein, Leonid	Tel Aviv Univ.
Koren, Barak	Tel Aviv Univ.
Shimron, Yair	Tel Aviv Univ.
Avrahami, Gil	Tel Aviv Univ.
Keshet, Mor	Tel Aviv Univ.
Altman, Ofir	Tel Aviv Univ.
Mishan, David	Tel Aviv Univ.

**Lunch**  
**12:40-14:00**

<b>WeL1T1</b>	Hall A
<b>Guidance &amp; Control</b> (Regular Session)	
Chair: Cohen, Agnes	IMI Systems
14:00-14:25	WeL1T1.1
<i>A Two-On-One Differential Game for Imposing a Relative Intercept Angle</i>	
Shaferman, Vitaly	Vienna Inst. of Tech.
Shima, Tal	Technion
14:25-14:50	WeL1T1.2
<i>Optimal Guidance Around Circular Trajectories for Impact Angle Interception</i>	
Tsalik, Ronny	Technion
Shima, Tal	Technion
14:50-15:15	WeL1T1.3
<i>Intercept Angle Guidance Based Motion Planning</i>	
Tchuiev, Vladimir	Technion
Shima, Tal	Technion
15:15-15:40	WeL1T1.4
<i>Integrated Guidance-Autopilot Approach for Civil Autonomous Aerial Refueling</i>	
Weiss, Martin	Technion
Tsukerman, Alexander	Technion
Shima, Tal	Technion
Löbl, David	Tech. Univ. München
Holzapfel, Florian	Tech. Univ. München
15:40-16:05	WeL1T1.5
<i>Stability Enhancement of Parasitic Loops in Homing Systems Via Loop Shaping</i>	
Klein, Itzik	Technion
Rusnak, Ilan	Rafael

<b>WeL1T2</b>	Hall B
<b>Propulsion &amp; Combustion I (Regular Session)</b>	
Chair: Greenberg, J. Barry	Technion
14:00-14:25	WeL1T2.1
<i>Advanced Vaporizer for Small Jet Engines</i>	
Levy, Yeshayahou	Technion
Gaissinski, Igor	Technion
Sherbaum, Valery	Technion
Roizman, Alexander	Technion
Erenburg, Vladimir	Technion
14:25-14:50	WeL1T2.2
<i>Flash Boiling Atomization of a Binary Mixture under Homogeneous Nucleation Regime</i>	
Levy, Moti	Technion
Levy, Yeshayahou	Technion
Sher, Eran	Technion
14:50-15:15	WeL1T2.3
<i>On Lifted Laminar Jet Spray Flames</i>	
Weinberg, Noam	Technion
Greenberg, J. Barry	Technion
15:15-15:40	WeL1T2.4
<i>Volumetric and Spray-Related Heat Loss Effects in Laminar Premixed Polydisperse Spray Flame Propagation</i>	
Katz, Gershon	Technion
Greenberg, J. Barry	Technion

<b>WeL1T3</b>	Hall C
<b>Estimation (Regular Session)</b>	
Chair: Oshman, Yaakov	Technion
14:00-14:25	WeL1T3.1
<i>Altruistic Approaches to Cooperative Estimation</i>	
Stein, Nitai	Technion
Oshman, Yaakov	Technion
14:25-14:50	WeL1T3.2
<i>A Pareto Based Comparison Approach for State Estimation of Nonlinear Algorithms</i>	
Benaloul, Oron	Rafael
Shimkin, Nahum	Technion
Rusnak, Ilan	Rafael
14:50-15:15	WeL1T3.3
<i>Optimal and Suboptimal State Estimation for Linear Systems with Additive Cauchy Noises</i>	
Fonod, Robert	Technion
Idan, Moshe	Technion
Speyer, Jason L.	Univ. of California, Los Angeles
15:15-15:40	WeL1T3.4
<i>Target Tracking in the Presence of Field-Of-View Constraints</i>	
Yeger, Matan	Technion
Oshman, Yaakov	Technion
15:40-16:05	WeL1T3.5
<i>No Correlations Involved: Decision Making under Uncertainty in the Conservative Information Space</i>	
Indelman, Vadim	Technion

<b>WeL1T4</b>	Hall D
<b>Aerospace Structure I (Regular Session)</b>	
Chair: Ghilai, Gila	Israel Aerospace Industries
14:00-14:25	WeL1T4.1
<i>Structural Health Monitoring of Composite-Based UAVs Using Simultaneous Fiber-Optic Interrogation by Rayleigh-Based Distributed Sensing and Fiber Bragg Grating Point Sensors</i>	
Kressel, Iddo	Israel Aerospace Industries
Shapira, Osher	Israel Air Force
Mashiach, Naama	Israel Air Force
Ben-Simon, Uri	Israel Aerospace Industries
Glam, Benny	Israel Air Force
Bergman, Arik	Tel-Aviv Univ.
Dvorjeski, Ariel	IMOD
Rothman, Tal	Israel Air Force
Yehoshua, Tal	IMOD
Tur, Moshe	Tel-Aviv Univ.
14:25-14:50	WeL1T4.2
<i>Health Monitoring of Aerospace Structural Joints by Local Dynamic Effects</i>	
Bracha, Ido	Technion, Rafael
Karp, Baruch	Ben Gurion Univ. of the Negev
Durban, David	Technion
14:50-15:15	WeL1T4.3
<i>Impact Damage Detection for Composite Fuselage Panel Using Distributed Strain Sensing Based on Fibre Optic Rayleigh Back-Scattering</i>	
Tur, Moshe	Tel-Aviv Univ.
Ben Simon, Uri	Israel Aerospace Industries
Gorbatov, Nahum	Tel-Aviv Univ.
Bergman, Arik	Tel-Aviv Univ.
Kressel, Iddo	Israel Aerospace Industries
Kontis, Nikoalos	Integrated Aerospace Sciences Corp. – INASCO, Greece
Koimtzoglou, Christos	Integrated Aerospace Sciences Corp. – INASCO, Greece
15:15-15:40	WeL1T4.4
<i>Implementation of Invariant-Based Approaches for Determination of Composite Materials Allowables</i>	
Freed, Yuval	Israel Aerospace Industries



<b>WeL1T5</b>	Hall E
<b>Student Competition (Regular Session)</b>	
Chair: Yudilevitch, Gil	Technion
14:00-14:25	WeL1T5.1
<i>Innovative Techniques in Modeling, Simulating and Controlling the SAMSON Satellites</i>	
Priel, Aviv	Technion
Leizeronok, Boris	Technion
Levy, Ori	Technion
Levy, Matan	Technion
Cohen, Liran	Technion
Azrak, Tal	Technion
Woolfe, Jeff	Technion
Marcovici, Emil	Technion
Goldenberg, Douglas	Technion
Golod, Oleg	Technion
Herscovitz, Jacob	Technion
14:25-14:50	WeL1T5.2
<i>Challenges in the Conversion of a Business Jet into a Regional Airliner, Based on the ARJ-100 Students Project</i>	
Alexandroni, Shai	Technion
Belonjko, Maxim	Technion
Elbaz, Yair	Technion
Lifshitz, Lior	Technion
Muller, Ilai	Technion
Twito, Naftali nati	Technion
Wollmark, Shahar	Technion
Attar, Moshe	Israel Aerospace Industries
14:50-15:15	WeL1T5.3
<i>ATLAS – Advanced Turbine Lifting AirShip</i>	
Pukshansky Fainshtein, Gershon	Technion
Klein, Israel	Technion
Fisher, Daniel	Technion
Birger, Nikolai	Technion
Ruhman, Ido C.	Technion
Sherman, Yahel	Technion
Ernowitz, Ofir	Technion
Elster, Ahiya	Technion
Loktev, Dina	Technion
Landkof, Benjamin	Technion

**Coffee Break****16:05-16:25****WeL2T1** Hall A**Guidance & Estimation** (Regular Session)

Chair: Rapoport, Ilia

Elbit Systems El-Op Ltd.

16:25-16:50

WeL2T1.1

*Evasion from a Homing Missile - Multiple Model Adaptive Control Approach*

Fonod, Robert

Technion

Shima, Tal

Technion

16:50-17:15

WeL2T1.2

*Coupled Guidance Laws against Helix Maneuvers*

Rusnak, Ilan

Rafael

Peled-Eitan, Liat

Rafael

17:15-17:40

WeL2T1.3

*In-Flight Modal Frequency Estimation of a Flexible Airframe - a Team Approach*

Avital, Irina

IMI Systems

Yaesh, Isaac

IMI Systems

Segal, Shai

IMI Systems

17:40-18:05

WeL2T1.4

*Error Analysis of a Laser-Designator-Based Terrain-Following Concept*

Livshitz, Arseny

Technion

Idan, Moshe

Technion

**WeL2T2**

Hall B

**Flow Control** (Regular Session)

Chair: Wagnanski, Israel

Univ. of Arizona

16:25-16:50

WeL2T2.1

*Induced Stall Cells on a NACA0015 Airfoil Using Passive and Active Trips*

Amitay, Miki

Rensselaer Polytechnic Inst.

Dell'Orso, Haley

Rensselaer Polytechnic Inst.

16:50-17:15	WeL2T2.2
<i>Aerodynamic Control by Vorticity Transport Modification Using Distributed Active Bleed</i>	
Kearney, John	Georgia Inst. of Tech.
Glezer, Ari	Georgia Inst. of Tech.
17:15-17:40	WeL2T2.3
<i>Closed-Loop Flow Control of the Oscillations of a Free-Suspended Cylinder at Low Reynolds Numbers</i>	
Hillier, Adam	Tel Aviv Univ.
Seifert, Avi	Tel Aviv Univ.
Friedland, Ori	Tel Aviv Univ.
17:40-18:05	WeL2T2.4
<i>Disturbance Source Identification for Flow Control: Problem Formulation for Infinitesimal Disturbances</i>	
Gluzman, Igal	Technion
Cohen, Jacob	Technion
Oshman, Yaakov	Technion
<b>WeL2T3</b>	Hall C
<b>Space Systems and Applications (Regular Session)</b>	
Chair: Mishne, David	Technion
16:25-16:50	WeL2T3.1
<i>Detection and Deflection Techniques for Short-Time Warning PHOs: ISU Planetary Defense Project</i>	
Rozenheck, Oshri	Technion
Entrena Utrilla Carlos Manuel	International Space Univ. (ISU)
Hussein, Alaa	International Space Univ. (ISU)
16:50-17:15	WeL2T3.2
<i>Hidden-Mode Fault-Tolerant Spacecraft Attitude Estimation and Control</i>	
Sadon, Aviran	Ben Gurion Univ. of the Negev
Choukroun, Daniel	Ben Gurion Univ. of the Negev
17:15-17:40	WeL2T3.3
<i>Collision Avoidance Maneuver of Propulsionless Satellite, Using Solar Radiation Pressure</i>	
Mishne, David	Technion

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17:40-18:05 WeL2T3.4

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*Intersatellite Laser Ranging and Attitude Robust Measurement Planning*

Salvoldi, Manuel	Ben Gurion Univ. of the Negev
Choukroun, Daniel	Ben Gurion Univ. of the Negev
Arnon, Shlomi	Ben Gurion Univ. of the Negev
Shiryaev, Alexander	Technion

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**WeL2T4** Hall D

**Aeroelasticity** (Regular Session)

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Chair: Raveh, Daniella Technion

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16:25-16:50 WeL2T4.1

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*An Artificial Neural Network Approach to Flutter Mechanism Classification*

Livshitz, Arseny	Technion
Iovnovich, Michael	Israel Air Force

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16:50-17:15 WeL2T4.2

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*Extraction of Dynamic Inflow Model from High-Fidelity Aerodynamic Analysis*

Rand, Omri	Technion
Khromov, Vladimir	Technion

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17:15-17:40 WeL2T4.3

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*Evaluation of an ARMA Flutter Boundary Prediction Method Based on Discrete-Time Structural Responses to Turbulence Excitation in Flight-Tests*

Nahom, Tzlil	Israel Air Force
Kogan, Tuvia	Israel Air Force
Iovnovich, Michael	Israel Air Force
Raveh, Daniella	Technion

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17:40-18:05 WeL2T4.4

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*Minimization of Wing Deformation in Trimmed Flight of Highly Flexible Aircraft Using Multiple Control Surfaces*

Yagil, Leeran	Technion
Raveh, Daniella	Technion

<b>WeL2T5</b>	Hall E
<b>Measurement Techniques</b> (Regular Session)	
Chair: Cukurel, Beni	Technion
16:25-16:50	WeL2T5.1
<i>Statistical Calibration Via Gaussianization in Hot-Wire Anemometry</i>	
Gluzman, Igal	Technion
Cohen, Jacob	Technion
Oshman, Yaakov	Technion
16:50-17:15	WeL2T5.2
<i>Reciprocity Failure Compensation in Infrared Radiation Thermography</i>	
Romm, Iliya	Technion
Lev, Michael	Technion
Cukurel, Beni	Technion
17:15-17:40	WeL2T5.3
<i>New Method for Measuring Transient Mass Gasification Rate of Condensed Systems</i>	
Perov, Viktor	Voevodsky Inst. of Chemical Kinetics and Combustion
Zarko, Vladimir	Voevodsky Inst. of Chemical Kinetics and Combustion
Zvegintsev, Valery	Khristianovich Inst. of Theoretical and Applied Mechanics
Nalivaichenko, Denis	Khristianovich Inst. of Theoretical and Applied Mechanics SB

<b>WeL2T6</b>	Hall F
<b>General Meeting of the Israel Society of Aeronautics &amp; Astronautics</b> 17:00-18:00	

Dekel Hall
<b>Festive Dinner</b> 18:15-20:45

# Program for Thursday, March 10, 2016

## The Technion, Haifa

**Registration**  
**08:30-09:00**

**Welcoming Address**

Hall A

09:00-09:10

Sidi, Moshe

Senior Executive Vice  
President, Technion

**ThPI1PL**

Churchill Auditorium

**Plenary Lecture IV (Plenary Session)**

Chair: Harari, Amnon

Directorate of Defense R&D,  
Israel Ministry of Defense

09:10-10:00

ThPI1PL.1

*The Birth of a Dream - the High Performance JS1  
Revelation Glider*

Jonker, Uys

Jonker Sailplanes, South Africa

**Coffee Break**  
**10:00-10:30**

**ThPI2PL**

Churchill Auditorium

**Plenary Lecture V (Plenary Session)**

Chair: Abramovich, Haim

Technion

10:30-11:20

ThPI2PL.1

*Lighter Aircraft Structures Using Variable Angle Tow  
Composites*

Weaver, Paul M.

Dept. of Aerospace Eng.,  
University of Bristol

**ThPI3PL**

Churchill Auditorium

**Plenary Lecture VI (Plenary Session)**

Chair: Attar, Moshe

Israel Aerospace Industries

11:20-12:10

ThPI3PL.1

*Aircraft and Rotorcraft Flight Control Technologies and  
Challenges*

Tischler, Mark B.

Aviation Development  
Directorate – AFDD  
(Moffett Field, CA)

**Lunch**  
**12:10-13:30**

**ThL1T1** Room 149  
**Fatigue & Fracture Mechanics (Regular Session)**

Chair: Banks-Sills, Leslie Tel Aviv Univ.

13:30-13:55 ThL1T1.1

*On the Scatter Factor in Fatigue Testing of Composite Material Structures*

Elmalich, Dvir Israel Aerospace Industries

Freed, Yuval Israel Aerospace Industries

13:55-14:20 ThL1T1.2

*A Summary of the New Iai Executive Jet Full Scale Fatigue Test*

Buimovich, Yael Israel Aerospace Industries

Freed, Yuval Israel Aerospace Industries

Noivirt, Gil Israel Aerospace Industries

Matias, Carmel Israel Aerospace Industries

14:20-14:45 ThL1T1.3

*Determination of Safe Life Retirement Time of Helicopter Dynamic Components Based on a Fretting Deterioration Model*

Heit, Ofer Israel Air Force

Shemesh, N.N.Y. Israel Air Force

Levi, Kobi Israel Air Force

Kalmanovich, Vadim Israel Air Force

14:45-15:10 ThL1T1.4

*Fatigue Delamination Propagation in a DCB Specimen Composed of a Plain Weave Multi-Directional Laminate Composite Subjected to Different Load Ratios*

Simon, Ido Tel-Aviv Univ.

Banks-Sills, Leslie Tel Aviv Univ.

Fourman, Victor Tel-Aviv Univ.

Eliasi, Rami Tel-Aviv Univ.

15:10-15:35 ThL1T1.5

*Fatigue Evaluation for Hi-Lok Fastener Instalation Methods in Interference-Fit Holes*

Matias, Carmel Israel Aerospace Industries

Katsav, Ekaterina Israel Aerospace Industries

<b>ThL1T2</b>	Room 150
<b>Multi-Agent Systems (Regular Session)</b>	
Chair: Zelazo, Daniel	Technion
13:30-13:55	ThL1T2.1
<i>Cooperative Interception Via Staggering and Information Sharing</i>	
Shaferman, Vitaly	Vienna Inst. of Tech.
Oshman, Yaakov	Technion
13:55-14:20	ThL1T2.2
<i>Robustness of Heterogeneous Cyclic Pursuit</i>	
Mukherjee, Dwaipayan	Indian Inst. of Science
Zelazo, Daniel	Technion
14:20-14:45	ThL1T2.3
<i>Multi-Robot Decentralized Belief Space Planning in Unknown Environments Via Ecient Re-Evaluation of Impacted Paths</i>	
Regev, Tal	Technion
Indelman, Vadim	Technion
14:45-15:10	ThL1T2.4
<i>Cooperative Guidance Law for Intra-Salvo Tracking</i>	
Balhance, Nadav	Technion
Weiss, Martin	Technion
Shima, Tal	Technion
15:10-15:35	ThL1T2.5
<i>An Optimal Control Framework for Cooperative Control of Autonomous Systems</i>	
Weiss, Martin	Technion



<b>ThL1T3</b>	Room 165 (Library)
<b>Optimal Guidance - Prof. Shinar Memorial Session</b> (Regular Session)	
Chair: Shima, Tal	Technion
13:30-13:55	ThL1T3.1
<i>Optimal Rocket Trajectories Using Gradient Methods</i>	
Ben-Asher, Joseph Z.	Technion
13:55-14:20	ThL1T3.2
<i>Minimum Effort Intercept and Evasion Guidance Algorithms for Active Aircraft Defense</i>	
Weiss, Martin	Technion
Shima, Tal	Technion
Rusnak, Ilan	Rafael
Castaneda, David	Technion
14:20-14:45	ThL1T3.3
<i>Target Evasion Strategy against a Missile with Switched Guidance Law</i>	
Turetsky, Vladimir	Ort Braude College
Shima, Tal	Technion
14:45-15:10	ThL1T3.4
<i>Guidance Law Using Time-Limited Balanced Autopilot Model Reduction</i>	
Hexner, Gyorgy	Rafael
Weiss, Haim	Rafael
15:10-15:35	ThL1T3.5
<i>An Optimal Guidance Law for Controlling the Acceleration Component Perpendicular to the Line-Of-Sight</i>	
Shaferman, Vitaly	Vienna Inst. of Tech.

<b>ThL1T4</b>	Room 240
<b>Propulsion &amp; Combustion II (Regular Session)</b>	
Chair: Sher, Eran	Technion
13:30-13:55	ThL1T4.1
<i>Statistical Thermodynamics Analysis of the Explosion Limits of Hydrogen-Oxygen System</i>	
Lidor, Alon	Technion
Weihls, Daniel	Technion
Sher, Eran	Technion
13:55-14:20	ThL1T4.2
<i>Measurement of the Explosive Decomposition Speed in a Powdered FTDO Sample Placed into Glass Capillary</i>	
Akhmetshin, Rinat	Tomsk Pol. Univ.
Akhmetshina, Veronica	Tomsk Pol. Univ.
Tsipilev, Vladimir	Tomsk Pol. Univ.
Razin, Alexey	Tomsk Pol. Univ.
Zarko, Vladimir	Inst. of Chemical Kinetics and Combustion
14:20-14:45	ThL1T4.3
<i>The Effect of Preliminary Mechanical Processing of Mg and B Mixture on the Parameters of Its Thermal Explosion and Reaction Products Characteristics</i>	
Korchagin, Mikhail	Inst. of Solid State Chemistry and Mechanochemistry, Novosibirsk
Zarko, Vladimir	Inst. of Chemical Kinetics and Combustion
Fomenko, Sergey	The Inst. of Combustion Problems
Alypbaev, Amanbol	Kazakh National Univ.
Abdulkarimova, Roza	The Inst. of Combustion Problems
14:45-15:10	ThL1T4.4
<i>The Modeling of Unused Propellant Residues Processes from a Tank of Rocket Stage</i>	
Trushlyakov, Valeriy	Omsk State Tech. Univ.

<b>ThL1T5</b>	Room 241
<b>Computational Fluid Dynamics (Regular Session)</b>	
Chair: Arieli, Rimon	Technion
13:30-13:55	ThL1T5.1
<i>A Robust Numerical Method for the Simulation of Chemically Reacting Flows</i>	
Wasserman, Mark	Israeli CFD Center
Levy, Yuval	Israeli CFD Center
Greenberg, J. Barry	Technion
13:55-14:20	ThL1T5.2
<i>An Approximate Method for Aero-Optical Computations Using Incompressible LES</i>	
Weidenfeld, Mickey	Rafael
Arad, Eran	Rafael
14:20-14:45	ThL1T5.3
<i>Computational Fluid Dynamics Modeling of Cathodic Arc Jet in Stationary Atmospheric Pressure Gas</i>	
Ronis, Anton	Technion
Kronhaus, Igal	Technion
14:45-15:10	ThL1T5.4
<i>Propeller Wing Aerodynamic Interference for Small UAVs During VSTOL</i>	
Adair, Desmond	Nazarbayev Univ.
Alimaganbetov, Mergen	Nazarbayev Univ.

<b>ThL1T6</b>	Auditorium 235
<b><i>Industrial Projects: Challenges and Lessons Learned</i></b> (Regular Session)	
Chair: Levin, Gil	Israel Air Force
13:30-13:55	ThL1T6.1
<i>110 + 314 = 122: IAF F15 Tail Number 122 Restoration Project</i>	
Ratner, Vadim	Israel Air Force
13:55-14:20	ThL1T6.2
<i>Transforming a Large Business Jet Aircraft to a Mission Aircraft</i>	
Shtayman, Zvi	Israel Aerospace Industries
14:20-14:45	ThL1T6.3
<i>F-16 Structure Challenge</i>	
Mirengof, Haim	Israel Air Force
14:45-15:10	ThL1T6.4
<i>Algorithms in combat-developing and deploying new algorithms "under fire"</i>	
Zohar, Ron	Rafael
15:10-15:35	ThL1T6.5
<i>Collision Avoidance of Ofeq 10 Satellite with the International Space Station During the Satellite Launch</i>	
Benet, Igal	Israel Aerospace Industries

**Coffee Break**  
**15:35-16:00**

<b>ThL2T1</b>	Room 149
<b>Aerospace Structures II (Regular Session)</b>	
Chair: Kressel, Iddo	Israel Aerospace Industries
16:00-16:25	ThL2T1.1
<i>Aeroservoelastic Response Simulation with Geometric Nonlinearities Using Full Finite-Element Models</i>	
Gov, Favel	Rafael
Karpel, Moti	Technion
16:25-16:50	ThL2T1.2
<i>Nonlinear Structural Modal Model for Aeroelastic Applications</i>	
Cavallaro, Rauno	Technion
Raveh, Daniella	Technion
Kantor, Etay	Technion
16:50-17:15	ThL2T1.3
<i>Comparison of Laboratory Testing Techniques for Airborne Store's Dynamic Response to In-Flight Environmental Conditions</i>	
Cohen, Kobi	Technion
Raveh, Daniella	Technion
17:15-17:40	ThL2T1.4
<i>A Study of the Dynamic Effects on the Design Loads of a Civil Aircraft</i>	
Bronstein, Michael	Israel Aerospace Industries
Feldman, Esther	Israel Aerospace Industries
Vescovini, Riccardo	Pol. Di Milano
Bisagni, Chiara	Pol. Di Milano

<b>ThL2T2</b>	Room 150
<b>Aerospace Systems &amp; Maintenance</b> (Regular Session)	
Supported by <i>The Gordon Center for Systems Engineering</i>	

Chair: Landkof, Benjamin	Technion
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16:00-16:25	ThL2T2.1
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*Aircraft Lightning Protection System Continued  
Airworthiness*

Berlowitz, Ilan	Israel Aerospace Industries
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16:25-16:50	ThL2T2.2
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*Selection of an Acceptable Risk Criterion for Avoiding a  
Major Fatigue Failure on a Commercial Aircraft*

Brot, Abraham	Israel Aerospace Industries
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16:50-17:15	ThL2T2.3
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*Equalized Maintenance for Widebody Aircraft*

Berlowitz, Ilan	Israel Aerospace Industries
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<b>ThL2T4</b>	Room 240
<b>Fluid Mechanics</b> (Regular Session)	

Chair: Rokita, Tomer	Rafael / Technion
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16:00-16:25	ThL2T4.1
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*Stability of Streaks in Shear Flows*

Karp, Michael	Technion
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Philip, Jimmy	Dept. of Mechanical Eng. Univ. of Melbourne
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Cohen, Jacob	Technion
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16:25-16:50	ThL2T4.2
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*Influence of Circular Rear Face Geometry on the Cavity  
Flow Oscillations at  $M=0.7$*

Das, Sudip	Birla Inst. of Tech. Mesra
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Cohen, Jacob	Technion
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16:50-17:15	ThL2T4.3
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*Effect of Approaching Boundary-Layer Thickness on  
Turbulent Cavity Flow*

Rokita, Tomer	Rafael / Technion
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17:15-17:40	ThL2T4.4
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*The Sound of a Permeable Pitching Airfoil*

Weidenfeld, Mickey	Rafael
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Manela, Avshalom	Technion
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<b>ThL2T5</b>	Room 241
<b>High-Precision Navigation (Regular Session)</b>	
Chair: Rusnak, Ilan	Rafael
16:00-16:25	ThL2T5.1
<i>Towards BAFOS: Bundle Adjustment with Feature Orientation and Scale</i>	
Indelman, Vadim	Technion
16:25-16:50	ThL2T5.2
<i>Optical Flow As a Navigation Means for UAVs with Opto-Electronic Cameras</i>	
Popov, Alexey	Inst. for Information Transmission Problems of the Russian Academy of Sciences (Kharkevich Institute)
Miller, Boris	Inst. for Information Transmission Problems RAS and Monash University
Miller, Alexander	Inst. for Information Transmission Problems, RAS
Stepanyan, Karen	Inst. for Information Transmission Problems
16:50-17:15	ThL2T5.3
<i>Visual-INS Using a Human Operator and Converted Measurements</i>	
Montgomery, Turner	US Air Force Inst. of Tech.
Pachter, Meir	US Air Force Inst. of Tech.
17:15-17:40	ThL2T5.4
<i>Model Selection for Radar Registration Errors by Comparison of Radar and ADS-B Data</i>	
Bedin, Dmitrii	Institute of Mathematics and Mechanics (IMM), Ural Branch of the Russian Academy of Sciences