

**45TH ISRAEL ANNUAL
CONFERENCE ON AEROSPACE SCIENCES**

PROGRAM

Dan Panorama Hotel, Tel Aviv 23 February, 2005

Technion, Haifa 24 February, 2005

ORGANIZING COMMITTEE

A. Ginzburg, Chair, RAFAEL
T. Weller, Treasurer, Technion-IIT
D. Abir, Israel National Committee for Space Research
M. Attar, IAI
L. Banks-Sills, TAU
M. Boasson, RAFAEL
D. Givoli, Technion-IIT
O. Jerasi, EL AL
Z. Kaplan, Israel Space Agency
G. Levin, IAF
D. Saar, ISAA
S. Tsach, IAI
M. Wetzler, IMI
G. Wachsman, Secretary, Technion-IIT

PROGRAM COMMITTEE

M. Attar, Chair, IAI
H. Abramovich, Technion-IIT
L. Alon, IAF
R. Arieli, RAFAEL
D. Artzi, RAFAEL
I. Frankel, Technion-IIT
G. Ghilai, IAI
M. Idan, Technion-IIT
G. Iosilevski, Technion-IIT
D. Katoshevski, BGU
Y. Oshman, Technion-IIT
A. Peretz, RAFAEL
O. Rand, Technion-IIT
M. Rosenfeld, TAU
M. Velger, Elbit
A. Weinberg, RAFAEL
S. Yaniv, IMI
A. Goodman, Secretary, Technion-IIT

CONVENED BY

Israel Society of Aeronautics and Astronautics (ISAA)
Technion-Israel Institute of Technology
Tel-Aviv University (TAU)
RAFAEL Armament Development Authority
Israel Space Agency
Israel Aircraft Industries (IAI)
EL AL Israel Airlines
Israel National Committee for Space Research
Israel Military Industries (IMI)

2/9/2005

PROGRAM

Wednesday, February 23, 2005

Dan Panorama Hotel Tel Aviv

08:00-08:55 Registration

09:00-09:15 OPENING:

A. Ginzburg

RAFAEL

09:15-10:00 FIRST SESSION: Plenary Lecture

Chair: S. TSACH, IAI

**R&D, INNOVATION AND SYSTEM
ENGINEERING**

U. Rozzen

Israel Aircraft Industries

10:00-10:45 SECOND SESSION: **Plenary Lecture**

Chair: I. WYGNANSKI, TAU

**INDIAN AEROSPACE IN A GLOBALIZING
WORLD**

R. Narasimha

National Inst. of Advanced Sciences

Bangalore, India

10:45-11:15 Coffee Break

11:15-12:00 THIRD SESSION: **Plenary Lecture**

Chair: M. WOLFSHTEIN, TECHNION

**TURBULENCE MODELING AND
VALIDATION ACTIVITIES AT ONERA/DMAE**

B. Aupoix

ONERA, Toulouse, France

12:00-12:45 FOURTH SESSION: **Plenary Lecture**

Chair: D. GIVOLI, TECHNION

**AERODYNAMICS IN THE
BIOLOGICAL REALM**

D. Weihs

Faculty of AE, Technion, Haifa, Israel

12:45-14:00 FIFTH SESSION:

STUDENT COMPETITION

Chair: S. GALI, MoD

Chameleon – In Flight Simulator UAV

I. Zivan, A. Sosna, I. Klein, P. Livshitz, B. Eskin, G.

Eilam, O. Avital, R. Markovich, A. Stekler, S.

Stafora, V. Dobrovolsky, M. Shernosher, M. Kriger

and B. Prutkin, Fac. AE, Technion, Haifa, Supervisor

S. Tsach, IAI, Lod, Israel

Nano Satellite for Lunar Gravity Mapping by Inter-
satellites Laser Measurements

E. Hayun, A. Rokach, A. Fertman, G. Hajaj, H.

Werner, Y. Cohen, A. Skorohod, A. Novikov, V.

Shimankov, S. Goldin and N. Sheinberg, Fac. AE,

Technion, Supervisors: D. Mishne and F. Ortenberg,

Asher Space Res. Inst., Technion, Haifa, Israel

Wing-in-Ground Effect Transport Aircraft "Samson"

B. Gauduk, E. Yujelevski, O. Markovich, A.

Prosvetov, D. Kutikov, A. Klebanov, I. Kaprovsky, A.

Rosichy, R. Reitbort, E. Shavelzon and J. Shamenzon,

Fac. AE, Technion, Supervisor: D. Artzi, RAFAEL,

Haifa, Israel

14:00-15:15 Buffet Lunch

Hall A

15:15-16:55 SESSION 6A

ROCKET PROPULSION

Chair: A. GANY, Technion

Mechanism of Combustion of Nitramine Based

Double Base Propellants

H. Singh, Armament R&D Estab., Pashan, Pune, India

Reduced Hazard Liquid Propellants for Rocket
Engines

D. Hasan and D. Reiner, RAFAEL, Haifa, Israel

Analysis of a Cycle Combining a Ducted Rocket for a
Space Launcher

G. Fridman, IAI, Beer Yaakov and A. Gany, Fac. AE,

Technion, Haifa, Israel

A Scientific Approach for Life Extension of solid
Rocket Propellants/Rocket Motor

H. Singh, Armament R&D Estab., Pashan, Pune, India

Hall B

15:15-16:55 SESSION 6B

CFD I

Chair: I. FRANKEL, Technion

Preliminary Validation of a Chimera Based Flow Solver for Store Separation Simulation

M. Adar, IAF, Y. Levy, Fac. of AE, Technion, Haifa, Israel

Numerical Simulation and Reduced Order Modeling of Airfoil Gust Response

A. Zaide and D. Raveh, Fac. of AE, Technion, Haifa, Israel

CFD and Experimental Study of Plume Effects on Missile Longitudinal Aerodynamic Stability

G. Avital, J. Pompan, J. Macales, S. Yaniv, IMI, Ramat HaSharon, and S. Gali, MoD, Israel

Development of a CFD Navier-Stokes Platform for Simulation of Supersonic/Hypersonic Turbulent Reactive Flows – Application to Air/H₂ Combustion Processes in a Scramjet Engine for Airbreathing Hypersonic Propulsion

S. Seror, IAI, Lod, Israel, Y. Burtshell, J. Giordano and D. Zeitoun, Ecole Polytechnique, Univ. of Provence, UMR-CNRS, Marseilles, France

Hall C

15:15-16:55 SESSION 6C

GNC I

Chair: M. IDAN, Technion

Wings Deployment UAV Control System via Second Order Sliding Modes Method

A. Cohen, I. Yaesh, IMI, Ramat Hasharon, and A. Levant, Dept. of Appl. Mathematics, TAU, Tel Aviv, Israel

New Euler-Vector and Quaternion Filters

I.Y. Bar-Itzhack, Fac. of AE, Y. Cohen, Asher Space Res. Inst., Technion, Haifa, Israel

Estimation Lower Bounds for Fault-Prone Systems: Recent Developments

I. Rapoport and Y. Oshman, Fac. of AE, Technion, Haifa, Israel

Mixed Actuation Concept for FBW Systems on Small Commercial Aircraft

A. Sirota, A. Rosler and M. Attar, IAI, Lod, Israel, K. Rosenberg, BAE Systems Avionics, Rochester, Kent, UK

Hall D

15:15-16:55 SESSION 6D

STRUCTURES I

Chair: H. ABRAMOVICH, Technion

Aeroservoelastic Modeling of a Wind Tunnel Model with Piezoelectric Strain Actuators

M. Karpel, B. Moulin and V. Feldgun, Fac. of AE, Technion, Haifa, Israel

Aeroelastic Simulations for Non-Linear Flow

Z. Sheena, IAI, Lod, Israel and L. Fornasier, EADS Deutschland GmbH, Munich, Germany

Predicting Fatigue Life and Residual Strength of Composite Material Structures

Z. Granot, A. Brot, G. Ghilai, Eng. Div., IAI, Lod, Israel, S. Gali, Consultant

Increasing Fatigue Crack Detection Inspection Intervals by Means of Low-Frequency Eddy-Current Non-Destructive Inspections

C. Matias, A. Brot and W. Senderovits, IAI, Lod, Israel

Hall E

15:15-16:55 SESSION 6E

AERODYNAMICS

Chair: G. IOSILEVSKI, Technion

Control of Flap Vortices

D. Greenblatt, NASA Langley Res. Center, Hampton, VA, USA

The Concept of Hybrid Transonic-Subsonic Wings

M. Steinbuch, B. Marcus and M. Shepshelovich, IAI, Lod, Israel

Adjustment of Aerodynamic Characteristics of an External Store Using Flight Test Data

R. Odes and K. Enciu, IAF, Israel

Aerodynamics of Contaminated UAV Wings

B. Marcus, M. Sarid and M. Shepshelovich, IAI, Lod, Israel

2/9/2005

Hall F

15:15-16:55 SESSION 6F

AIRCRAFT DESIGN & PERFORMANCE

Session in Memory of Niv-Ya Durban

Chair: L. ALON, IAF

Conceptual Definition of a New 6 Pax "Micro-Jet"
Configuration

A. Yaniv, A. Pratzovnik and D. Penn, IAI, Lod, Israel

Aircraft Weighing Procedure Error Analysis – Flight
Safety Implementations in the IAF
M. Shomer and E. Koskas, IAF, Israel

Aircraft Digital Mockup Development using
Teamcenter Engineering and UG
I. Gheriani and Y. Hayat, IAI, Lod, Israel

The Bingo Fuel Optimization Problem Revised – A
Generalized Approach to Define a Robust Bingo
Algorithm

A. Dvorjetski, E. Shabi and G. Levin, IAF, Israel

16:55-17:15 Coffee Break

Hall A

17:15-18:30 SESSION 7A

COMBUSTION & SPRAYS

Chair: D. KATOSHEVSKI, BGU

A Simple Model of a Gel Spray Diffusion Flame
A. Kunin, J.B. Greenberg and B. Natan, Fac. of AE,
Technion, Haifa, Israel

Experimental Investigation of a Pulsatile Injection
Gel Spray
V. Chernov and B. Natan, Fac. of AE, Technion,
Haifa, Israel

Simultaneous Grouping and Evaporation of Spray
Droplets in Oscillating Flow-Theoretical Analysis
D. Katoshevski, Dept. of Biotechnology and
Environmental Eng., BGU, Beer Sheva, Israel

Hall B

17:15-18:30 SESSION 7B

CFD II

Chair: S. YANIV, IMI

Multipoint Optimization of Aerodynamic Shapes
S. Peigin, IAI, Lod and B. Epstein, Computer Sci.
Dept., The Academic College of Tel Aviv Yaffo,
Israel

3D Harmonic Excitation of a Turbulent Mixing Layer
Y. Lifshitz and D. Degani, Fac. of Mechanical Eng.,
Technion. Israel

Missile Stage Separation, CFD Time Dependent
Analysis, Incorporating Six Degrees of Freedom
Motion

Y. Rapoport and Z. Lavee, IAI, Lod, Israel

Hall C

17:15-18:30 SESSION 7C

GNC II

Chair: Y. OSHMAN, Technion

An Improved Integer Ambiguity Resolution
Technique for Fixed Arrays
J.D. Wolfe and J.L. Speyer, Dept. of Mechanical and
Aerospace Eng., UCLA, Los Angeles, USA

Fast Graph-Search Algorithms for General Aviation
Flight Trajectory Generation
E. Rippel, Dept. EE, Technion, Haifa, A. Bar-Gill,
Hoshen-Eliav Systems Eng., Tel Aviv, N. Shimkin,
Dept. EE, Technion, Haifa, Israel

Constrained Estimation for Ballistic Trajectory
Tracking

M. Pachter, E.B. Nelson, Air Force Institute of
Technology, Wright Patterson, AFB and S. Musick,
Sensors Directorate, Air Force Res. Lab, Wright
Patterson AFB, OH, USA

Hall D

17:15-18:30 SESSION 7D

STRUCTURES II

Chair: G. GHILAI, IAI

Using Probabilistic Simulations in Order to Minimize
Fatigue Failures in Metallic Structures
A. Brot, IAI, Lod, Israel

Buckling Behavior of Composite Laminated Stiffened
Panels Under Torsion
H. Abramovich, T. Weller, Fac. of AE, Technion,
Haifa, Israel and C. Bisagni, Dept. of AE, Politecnico
di Milano, Milano, Italy

Notched Bodies Subjected to Thermal Loads
C. Ishbir, IAF and L. Banks-Sills, Dept. of Solid
Mechanics, Materials and Systems, TAU, Ramat
Aviv, Israel

2/9/2005

Hall E

17:15-18:30 SESSION 7E

SPACE SYSTEMS

Chair: Z. KAPLAN, Israel Space Agency

Stationkeeping about the Collinear Equilibrium Points
in the Restricted Three-Body Problem

P. Gurfil and D. Meltzer, Fac. of AE, Technion,
Haifa, Israel

Optimal Formationkeeping for Formation Flying
Spacecraft

P. Gurfil, Fac. AE, Technion, Haifa, Israel

TECSAR Program –System Features, Configuration
and Status

Y. Efraty, IAI, Lod, Israel

Hall F

17:15-18:30 SESSION 7F

UAVs

Chair: J. CHEMLA, IAI

Wing Concepts for Tactical UAV

A. Nagel, M. Steinbuch and M. Shepshelovich, IAI,
Lod, Israel

The CAPECON Program – Civil Applications and
Economical Effectivity of Potential UAV
Configurations

A. Peled, S. Tsach, D. Penn and D.H. Touitou, IAI,
Lod, Israel

Incremental Process for the Development of Mini
UAV

A. Abershitz, IAI, Lod, Israel

18:35 Hall D General Meeting - ISAA

19:30 FESTIVE DINNER

DAN PANORAMA TEL AVIV

Advance registration and payment

2/9/2005

Thursday, February 24, 2005
Technion-IIT Haifa-Churchill Auditorium

09:00-09:20 Welcoming Address

Chair: D. GIVOLI, Dean, Faculty of Aerospace Eng.,
Technion-IIT

Professor Aviv Rosen
Senior Vice-President, Technion-IIT

09:20-10:10 EIGHTH SESSION Invited Plenary
Lecture

Chair: A. ROSEN, TECHNION

THE IMPACT OF GLOBAL TERRORISM
ON CIVIL AVIATION

I. BOROVICH
Chairman of the Board
EL AL Israel Airlines Ltd.

10:10-10:40 Coffee Break

10:40-11:30 NINTH SESSION Invited Plenary
Lecture

Chair: M. ZILBERMAN, IAI

TECHNOLOGIES AND MANAGEMENT OF
TACTICAL MISSILE SYSTEM

S. PRAHLADA
Head, DRDL, DRDO, India

11:30-12:20 TENTH SESSION Invited Plenary
Lecture

Chair: M. BOASSON, RAFAEL

THREE DECADES OF PROGRESS IN
CIRCULATION CONTROL HIGH LIFT
SYSTEMS

J. LOTH
Mech. & Aerospace Eng.,
West Virginia Univ., USA

12:20-13:40 Buffet
Foyer Churchill Auditorium

Room 235

13:40-15:20 SESSION 11A

GNC III

Chair: M. ATTAR, IAI

Spacecraft Angular Rate Estimation from Vector
Observations Using a Fast Particle Filter
A. Carmi and Y. Oshman, Fac. AE, Technion, Haifa,
Israel

Integrated Autopilot-Guidance for Dual Control
Missiles Using the Sliding Mode Approach
M. Idan, Fac. AE, Technion, T. Shima and O.M.
Golan, RAFAEL, Haifa, Israel

Optimal Rocket Guidance with Lateral Pulse Jets
B. Gendler, IMI, Ramat Hasharon, J.Z. Ben-Asher,
Fac. AE, Technion, Haifa and I. Yaesh, IMI, Ramat
Hasharon, Israel

Gust Loads Alleviation Using Special Control
Surfaces
B. Moulin and M. Karpel, Fac. AE, Technion, Haifa,
Israel

Room 149

13:40-15:20 SESSION 11B

JET PROPULSION

Chair: Y. LEVY, Technion

Inverse Jet Engine Model for Performance Prediction
in Transient Operation
M. Lichtsinder and Y. Levy, Fac. of AE, Technion, Haifa,
Israel

Low- and High-Frequency Pressure Oscillations
Obtained from a Single-Stage Low-Speed Axial
Compressor
J. Pismenny and Y. Levy, Fac. of AE, Technion, Haifa,
Israel and A. Deppe, H. Saathoff, H. Schrapp and U. Stark,
TU Braunschweig, Germany

F100PW-229I Thermodynamic Model Simulation
with "GasTurb 9"
A. Brandstein, Y. Efrati, Y. Nakash and D. Perl, IAF, Israel

Room 240

13:40-15:20 SESSION 11C

STRUCTURES III

Chair: O. RAND, Technion

Re-Design of a Helicopter Component Transmission by Composite Materials

S. Laurenzi, D. Di Nallo, F. Valente, M. Marchetti, Dept. of Aerospace and Astro. Eng., Univ. of Rome "La Sapienza", Rome and E. Lalia Morra, E. Anamateros, Augusta-Westland S.p.A, Aerospace Composites Center, Anagni, Italy

The Conservative M-Integral for a Delamination Along a 0°/90° Interface: The Thermal-Elastic Problem

O. Dolev, IMI, Ramat HaSharon and L. Banks-Sills, Dept. of Solid Mechanics, Materials and Systems, TAU, Ramat Aviv, Israel

Buckling Load Enhancement of Flexible Columns Using Piezoelectric Patches

Y. Freedman and H. Abramovich, Fac. AE, Technion, Haifa, Israel

Risk Analysis for IAF F-16 Wing Attach Fitting (WAF)

R. Halevi, I. Kochavi, H. Ishbir, S. Bar Moshe, IAF, Israel and K.M. Welch, Lockheed Martin Aeronautics Co., Fort Worth, Texas, USA

Room 241

13:40-15:20 SESSION 11D

AEROSPACE SYSTEMS & TESTS

Chair: Z. WEINBERG, RAFAEL

Aircraft Fire Safety Detection and Suppression

I. Berlowitz, IAI, Lod, Israel

Deployable Mesh Antenna

U. Nissel, E. Kats, M. Shmulevitz, Y. Altshuler, E. Matza, A. Aharonov, N. Elhai and S. Sabatello, IAI, Lod, Israel

Experimental Study of the Influence in Overweighed UH-60L Blackhawk for the Functionality of Dynamic and Structural Components

A. Kushnirsky, B. Azulay and E. Rabinovich, IAF, Israel

Evaluation of Refurbishment Procedure to Flight Safety Components

M. Mileguir, Y. Bendet-Roser, K. Kochavi, A. Maimon, H. Cohen, S. Bar-Moshe and T. Ankori, IAF, Israel

Room 150

13:40-15:20 SESSION 11E

ELECTRO-OPTICAL SYSTEMS

Chair: I.Y. BAR-ITZHACK, Technion

BRITENING – Commercial Aircraft Protection Suite

P. Bar-Avi, RAFAEL, Haifa, Israel

Compact Head-Up Display for General Aviation Aircraft

D. Tsadock, Y. Artstein, Y. Blumenfeld and M. Velger, ELOP Ltd., Rehovot, Israel

Terrestrial Demonstrator for Communication and Ranging Laser Inter-Satellite Link System

E. Pinsky, E. Shamay, D. Zehavi, RAFAEL, M. Guelman and M. Orenstein, Asher Space Res. Center, Technion, Haifa, Israel

Adaptation of LORD Obstacle Warning System Parameters to Helicopter/Pilot Flight Envelope Performance

A. Yaniv, V. Krupkin, A. Abitbol, J. Stern, Y. Shimoni, S. Biltz, A. Goldberg, B. Lubashitz, N. Zuntz and A. Zajdman, ELOP, Haifa, Israel

15:20-15:50 Coffee Break

Room 235

15:50-17:15 SESSION 12A

GNC IV

Chair: M. VELGER, ELOP

Time Efficient Closed Loop Steering Laws for Rigid Satellite Large Rotational Maneuver

D. Verbin, IAI, Lod and J. Ben-Asher, Fac. AE, Technion, Haifa, Israel

Sliding Mode Guidance for a Precursor Interceptor

O.M. Golan and T. Shima, RAFAEL, Haifa, Israel

Capture-Guaranteeing Pursuer Linear Strategies

V. Turetsky, V.Y. Glizer, Fac. of AE, Technion, Haifa, Israel

Room 149

15:50-17:30 SESSION 12B

PROPULSION

Chair: A. PERETZ, RAFAEL

Fuel Cells – Status and Potential Aerospace Applications

E. Peled, School of Chemistry, TAU, Tel Aviv, Israel

Design Criteria for Hall Thrusters Designated for Drag Compensation of Micro-Satellite

A. Rober, Asher Space Res. Inst., Technion, A. Oren, RAFAEL, Haifa, Israel

Development Considerations for a PPU for Hall Thruster Application

I. Tidhar, A. Warshavsky, J. Herscovitz and D. Hasan, RAFAEL, Haifa, Israel

Room 240

15:50-17:30 SESSION 12C

STRUCTURES IV

Chair: A. NATHAN, IAI

Damaged Composites

D. Mager and M. Mirkarimi, Aerospace Eng., INHOLLAND Univ. of Tech., Harlem, The Netherlands, H. Abramovich, Fac. AE, Technion, Haifa, Israel

Improved Computational Efficiency by Structural Reduction with Reference to Aeroelastic Applications

V. Krylov and I. Harari, Dept. of Solid Mechanics, Materials and Systems, Fac. of Eng., TAU, Tel Aviv, Israel

Structural Airworthiness Assurance of Historic Aircraft

C. Rodberg and M. Myara, IAF, Israel

Rectangular Composite Plates with Extension and Shear Piezoceramic Patches

L. Edery-Azulay and H. Abramovich, Fac. AE, Technion. Haifa, Israel

Room 241

15:50-17:55 SESSION 12D

VORTICAL FLOWS & CFD III

Chair: R. ARIELI, RAFAEL

Control of the Vortex Breakdown in a Swirling Jet Using Buoyancy Effect

D. Mourtazin and J. Cohen, Fac. AE, Technion, Haifa, Israel

Study of an Artificially Generated Hairpin Vortex Using a Holographic PIV Method

A. Svizher and J. Cohen, Fac. AE., Technion, Haifa, Israel

On the Evolution of Amplitude Modulated Excitation in Still Air

T. Yehoshua and A. Seifert, Dept. of Fluid Mechanics and Heat Transfer, TAU, Tel Aviv, Israel

CFD Analysis of Pylon Design for Aft Mounted Nacelle

I. Darmon and T. Rubin, IAI, Lod, Israel

Prediction of Slag Formation in a Solid Rocket Motor

H. Wirzberger, Y. Macales and S. Yaniv, IMI, Ramat HaSharon, Israel

Room 150

15:50-17:30 SESSION 12E

STRUCTURES V

Chair: D. RAVEH, Technion

Development of an Engineering Tool for Determining Repair Limitations of Fractured CH-53 Main Gearbox Housing Assembly (MGB)

A. Mikler, C. Klein, G. Giorgio, S. Arbel, A. Margalit, H. Shinkopf and T. Ankori, IAF, Israel

Development of a Numerical Tool for the Prediction of Fracture Progression and the Evaluation of Residual Strength in Randomly Perforated Structures

I. Dukhovny, Y. Movchan, C. Klein, S. Arbel, H. Sheinkop, A. Margalit and T. Ankori, IAF, Israel

Disbond Detection in Composite Adhesively Bonded T-Joints Using Vibration Signatures

B. Whittingham, Dept. of Mech. Eng. Monash Univ., H.C.H. Li, School of Aerospace, Mech. & Manufacturing Eng., RMIT, I. Herszberg, CRC-ACS, and W.K. Chiu, Dept. of Mech. Eng., Monash Univ., VC, Australia

A "Unified" and a "Kujawski Parameter" Crack Growth Models for Aluminum 2024-T351

G. Maymon, RAFAEL, Haifa, Israel

2/9/2005

GENERAL INFORMATION

Conference Language: English

Venue 23/2/2005: Congress Center, Dan Panorama
Hotel, 10 Kaufman St., Tel-Aviv,
Tel: ++972-3-5190190

Public Transport: Line 10 "Dan", from Arlozoroff St.,
Train Station. All "Dan" bus lines to Carmel Market,
10 minutes walk from Dan Panorama Hotel.

Paid parking available: Hotel, Dolphinarium & in the
area.

Bus to Haifa after the Festive Dinner

Venue 24/2/2005: Technion-IIT, Haifa

Public Transport: Lines 11 - Hof HaCarmel Train
Station, 17 - Bat Galim Train Station, 19 - Hadar

PROGRAM UPDATES

<http://www.aeroconf.org.il/conf/>

For additional information, please contact:

Organizing Committee

Gideon Wachsman, Secretary

Faculty of Aerospace Eng. Technion, Haifa 32000,
Israel

Tel: +972-4-8292260

Fax: +972-4-8231848

Program Committee

Alice Goodman, Secretary

Faculty of Aerospace Eng. Technion, Haifa 32000,
Israel

Tel: +972-4-8292713

Fax: +972-4-8231848

email: alice@aerodyne.technion.ac.il

Registration and Organization

Dan Knassim Ltd.

P.O.B. 1931, Ramat Gan 52118, Israel

Tel: +972-3-6133340 (extension 217)

Fax: +972-3-6133341

Email: registration@congress.co.il

Separate Forms for Registration and Dinner.

REGISTRATION FORM
45TH ISRAEL ANNUAL CONFERENCE ON AEROSPACE SCIENCES
Dan Panorama, Tel Aviv, February 23, 2005
Technion-IIT, Haifa, February 24, 2005

Personal Details:

First Name.....
Last Name
e-mail:.....

Registration fee (includes: CD Conf. Proceedings, Book of Abstracts, Bag, Coffee Breaks and Lunch):

Regular participants: US\$ 155
Graduate students US\$ 60
Undergraduate students US\$ 10

Deposit for hotel accommodation US \$115

B/B including service charge:
(Add 17% VAT for payment in shekels).

Dan Panorama Tel Aviv:

Double Room US \$120 Single Room US \$115

Single room Double room.....

Check-in Check-out No. nights

Holiday Inn Haifa:

Double Room US \$150 Single Room US \$125

Single room Double room.....

I will share accommodation with

Check-in Check-out No. nights.....

Payment by two checks:

1. Registration payable to - Technion-IIT.
2. Accommodation payable to - Dan Knassim Ltd.

Return checks and form in enclosed envelope to:
Dan Knassim Ltd. P.O.B. 1931, Ramat Gan 52118, Israel

Date Signature

2/9/2005

REGISTRATION FORM

FESTIVE DINNER

**45th Israel Annual Conference
on Aerospace Sciences**

**DAN PANORAMA HOTEL
At 19:30, FEBRUARY 23, 2005**

Limited Places

40 NIS per person

**Deadline for Reservations:
February 18th, 2005**

Personal Details:

First name:

Family Name:

Tel:

No. of person(s):

1

2

Total Amount:

**Checks Payable to Technion-IIT
Mail check and form in enclosed envelope to:
Dan Knassim Ltd.
P.O.B. 1931
Ramat Gan 52118, Israel**

Invitation will be in the conference kit.