

ISCM - 24

יום העיון הישראלי העשרים וארבעה במכניקה חישובית The 24th Israel Symposium on Computational Mechanics

בחסות:

אוניברסיטת תל-אביב
משרד הרקטור
פקולטה להנדסה ע"ש איבי ואלדר פליישמן
בית הספר להנדסה מכנית

מועד: יום חמישי, 3 באפריל, 2008

מיקום: אולם רוזנבלאט
בניין להנדסת תוכנה, פקולטה להנדסה, אוניברסיטת תל-אביב

הרשמה

דמי הרשמה ליום העיון:

חברי אישח"מ בשנת 2008-חינם
לא חברים-55 ש"ח

דמי חבר באישח"מ:

120 ש"ח לשנה

כולל ימי עיון של אישח"מ, חברות באיגוד הבין-לאומי למכניקה חישובית IACM, ומנוי לעלון IACM.

תעריפים מוזלים (לסטודנטים לתואר ראשון ולחיילים בשרות חובה)

דמי חבר לשנה – 60 ש"ח

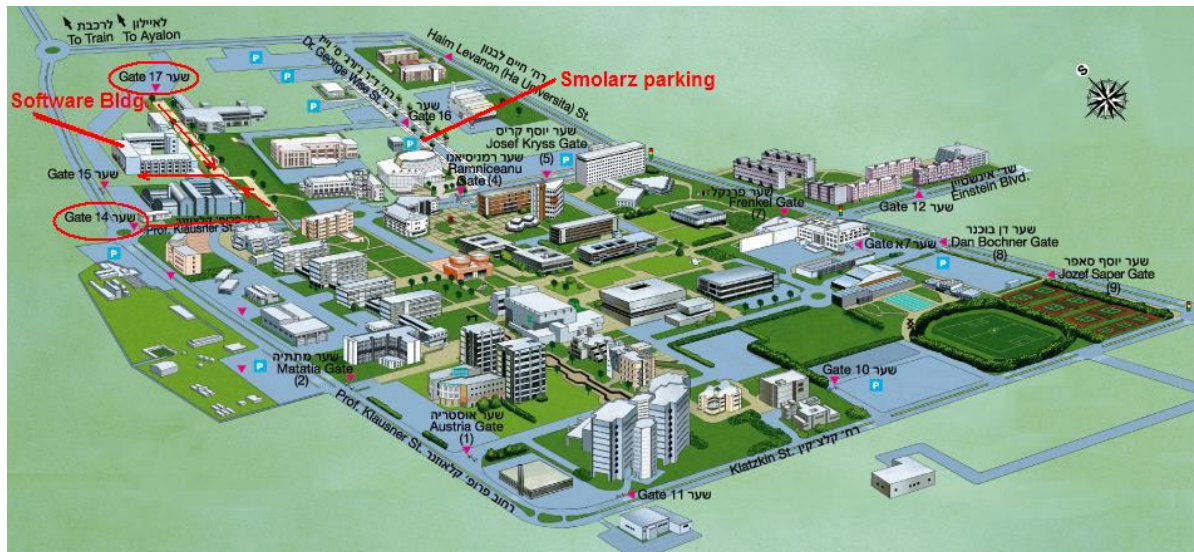
דמי הרשמה ליום עיון – 25 ש"ח

מארגנים מקומיים ונציגי אישח"מ

ד"ר סלבה קרילוב
בית הספר להנדסה מכנית
אוניברסיטת תל-אביב
טלפון: 03 640 59 30
פקס: 03 640 76 17

פרופ' אלכסנדר גלפגט
בית הספר להנדסה מכנית
אוניברסיטת תל-אביב
טלפון: 03 640 72 07
פקס: 03 640 73 34

דואר אלקטרוני: vadis@eng.tau.ac.il דואר אלקטרוני: gelfgat@eng.tau.ac.il



Location

The conference will take place in the **Rosenblatt Auditorium**, located in the new **Wolfson Computer and Software Engineering Building** at Tel Aviv University. The location of the building, which is adjacent to the "old" Wolfson Electrical Engineering Laboratories building, may be found in the TAU map at <http://www2.tau.ac.il/map/unimapple1.asp>. Directions to Tel Aviv University may be found by pressing "access".

Directions

General: The Engineering Quad is best reached from **Gate 14** or **Gate 17** (Social Work).

By Car via Ayalon: exit at Tel Aviv University exit, and follow directions to TAU up the hill. Drive straight keeping to the right. After passing a first traffic circle, there is an entrance to a first parking lot on the left, ca. 200 m. after the circle. The parking lot is adjacent to **Gate 17**. The Engineering buildings are immediately on the right as you enter through **Gate 17**. Those who "miss" this parking lot may continue to a second traffic circle, which sits near **Gate 14**. Alternatively, it is possible to park in the George Wise East parking lot (Smolarz lot) adjacent to the Smolarz auditorium. Park in the adjacent public parking facility and walk to the Engineering Quad.

By Train: exit at the Tel Aviv University station and either **walk** via the tunnel (follow directions to TAU) and up the hill (ca. 600 m) to **Gate 17** or **14**, or take the **bus** or **taxi** to **Gate 14**.

Please note that the University does not allow car entrance to conference participants.

ISCM - 24

יום עיון ישראלי עשרים וארבעה במכניקה חישובית - אביב 2008 The 24th Israel Symposium on Computational Mechanics

Preliminary Program

- 9:00** **Registration.**
- 9:20** **Opening.**
Prof. Ehud Heyman — Dean of Engineering, Tel Aviv University
- 9:30** **Keynote lecture.**
Multiscale Design System
Prof. Jacob Fish
Rensselaer Polytechnic Institute, Troy, NY
- 10:30** **Coffee break.**
- 10:50** **Morning session.** Chairman: S. Krylov, Tel Aviv University
- 10:50-11:10 *Design of Fracture Resistant Low-density Materials*
F. Lipperman, M. Ryvkin and M.B. Fuchs, School of Mechanical Engineering,
Tel Aviv University
- 11:10-11:30 *Surprising Failures of the Patch Test*
M. Jabareen and M.B. Rubin, Faculty of Mechanical Engineering, Technion
- 11:30-11:50 *Shape Optimization in an Elastic Plate under Remote Shear:
from Single to Interacting Holes*
S. Vigdergauz, Research and Development Division,
The Israel Electric Corporation Ltd.
- 11:50-12:10 *Godunov's Method for Irreversibly Compressible Soft Soil and its
Application to Soil-Structure Interaction Problems*
V. Feldgun, Y. Karinski, D. Yankelevsky,
National Building Institute, Technion
- 12:10** **Lunch break.** IACMM council meeting.



- 13:30** **General assembly of the association. Auditing committee.**
- 14:00** **Afternoon session.** Chairman: A. Gelfgat, Tel Aviv University
- 14:00-15:00 **Keynote lecture.**
Application of CFD for Analyzing Cardiovascular Flows
Prof. A. Yakhot, Department of Mechanical Engineering, Ben-Gurion University
- 15:00-15:20 *A Multilevel Non-Uniform Grid Algorithm for Acceleration of Boundary Element Based Solvers for Acoustic Scattering*
Y. Brick and A. Boag, School of Electrical Engineering, Tel Aviv University
- 15:20-15:40 *Time-integration of Incompressible Navier-Stokes Equations by Accelerated Multigrid Technique*
Y. Feldman and A. Gelfgat, School of Mechanical Engineering, Tel-Aviv University
- 15:40-16:00 *CFD Methods Derived from Simplified Variational Principles*
A. Yahalom, Institute of Astronomy, University of Cambridge, United Kingdom and Ariel University Center, Israel
- 16:00-16:15** **Coffee break.**
- 16:15** **Tutorial lecture.**
Computational Biomechanics
Z. Yosibash, Computational Mechanics Laboratory, Department of Mechanical Engineering, Ben-Gurion University
- 17:30** **Closing.**