ISCM - 20
יומ יسرائيلי למשפטים במכניקה והשברים

בחסות:
אוניברסיטת תל-אביב
משרד הר特斯
פקולטה להנדסת גאיה לאבלד פלישמן
מחלקה לפיזיקה ומכניקה, תומיר ומרעדות
מחלקה למכניקה וורמים ומוניות

מועד:
 yaloom 23 במרץ, 2006

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http://www.iacmm.org.il/ISCM20/iscm20.html
# Program

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<th>Time</th>
<th>Session</th>
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<tr>
<td>9:00</td>
<td>Registration.</td>
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<td>9:20</td>
<td>Opening.                    H. Messer-Yaron — Vice President for Research and Development, Tel Aviv University</td>
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| 9:30  | Invited lecture.  
*Modern Aspects of Finite Element Computations Using Constitutive Models of Evolutionary-type*  
S. Hartmann, University of Kassel |
| 10:10 | Invited lecture.  
*Solving PDEs with Weighted Moving Finite Elements*  
A. Wacher, Faculty of Aerospace Engineering, Technion |
| 10:50 | Coffee break.                                                            |
| 11:10 | Morning session. Chairman: S. Krylov, Tel Aviv University                |
| 11:10-11:30 | A New 3-D Brick Element for Nonlinear Orthotropic Elastic Materials Using the Theory of a Cosserat Point  
M. Jabareen and M. Rubin, Faculty of Mechanical Engineering, Technion |
| 11:30-11:50 | FVM Based Solutions for the Displacement of High Wind Speed Foci out of Access Areas around a High-Rise Building  
A. Herszage and Y. Banzger, Israel Electric Co. |
| 11:50 | Commercial session.  
*Unlimited Memory Systems - The Large Scale Modeling Revolution*  
G. Koren, Principal Technology Analyst, SGI (Silicon Graphics) Israel |
| 12:10 | Lunch break. IACMM council meeting.                                    |
13:30 General assembly of the association. Auditing committee.
14:00 Afternoon session. Computational mechanics in bioengineering.
   Chairman: A. Gelgat, Tel Aviv University
14:00-14.20 Finite Element Analysis (FEA) Role in the Design of Bio-medical Devices
   S. Keidar, Consulting Analyst
14:20-14:40 P-FE Analysis of the Proximal Femur
   N. Trabelsy and Z. Yosibash, Department of Mechanical Engineering, Ben-Gurion University
14:40-15:00 Real-Time Patient-Specific Finite Element Analysis of Residual Limb Stresses in Trans-Tibial Amputees during Treadmill Walking
   S. Portnoy, G. Yarnitzky, Z. Yizhar, A. Kristal, U. Oppenheim, I. Siev-Ner, A. Gefen,
   'Tel Aviv University, 'Tel-Ha'Shomer Hospital
15:00:15:20 Real-Time Subject-Specific Finite Element Model of The Buttock During Wheelchair Sitting: A Tool to Evaluate The Mechanical Conditions for Deep Pressure Sores
   E. Linder-Ganz, Z. Yizhar, A.Gefen, Tel Aviv University
15:45 Tutorial lecture.
   Discontinuous Galerkin Methods
   P. Bar-Yoseph, Faculty of Mechanical Engineering, Technion
17:00 Closing.