



IVS TECHNICAL WORKSHOP

MAGNETISM, CRYSTAL GROWTH, PHOTONICS

Thursday, October 7, 2010
Tel-Aviv University, Tel-Aviv

- 8:30** Registration
- 9:40** Welcome to the Conference by Prof. Ehud Heyman, Dean, Faculty of Engineering, TAU
- 10:00-10:40** **INVITED KEYNOTE SPEAKER**
Prof. Ivan Schuller, Physics Department and Center for Advanced Nanoscience
University of California-San Diego, Magnetism & Crystal Growth
- 10:40-11:00** Coffee Break
- MAGNETISM Session**
- 11:00-11:20** E. Zeldov, WIS, Scanning Nanoscale SQUID on a tip for study of vortex dynamics
- 11:20-11:40** G. Markovich, TAU, Studying magnetization dynamics in magnetic nanoparticles using STM
- 11:40-12:00** A. Sharoni, BIU, Spin injection through transparent interfaces
- 12:00-12:20** A. Kohn, BGU, Characterization and Modeling of Exchange-Bias using Polycrystalline Ir_{0.22}Mn_{0.78} Antiferromagnetic Thin Films
- 12:20-12:40** L. Klein, BIU, The planar Hall effect sensor and memory applications
- 12:40-13:00** B. Almog, TAU, Probing the Cooper pairs spin structure near superconductor/ferromagnetic contacts
- CRYSTAL GROWTH Session**
- 11:00-11:20** A. Gelfgat, TAU, Modeling of crystal growth from the melt
- 11:20-12:00** M. Roth, HUJI, Growth-related Ferroelectric domain structure of KTP-type nonlinear optical and electro-optic crystal
- 12:00-12:20** Y. Golan, BGU, Chemical Epitaxy of Semiconductor Thin Films
- 12:20-13:00** M. Ben Shalom, TAU, Epitaxial laser deposition of Oxide Perovskites
- 13:00-15:00** Lunch and **POSTER SESSION**
- INVITED KEY-NOTE SPEAKER**
- 15:00-15:40** Prof. David Bergman, TAU, Photonics and Plasmonics
- 15:40-16:00** Coffee Break
- PHOTONICS Session**
- 16:00-16:25** Dan Oron, WIS, Multiexcitons and the microscopic origin of blinking in colloidal quantum dots
- 16:25-16:50** Uriel Levy, HUJ, The importance of polarization & modal degrees of freedom for tight confinement of light
- 16:50-17:15** Koby Sheuer, TAU, Circular Bragg nano-lasers, physics and applications.
- 17:15-17:30** Best Student Prize award ceremony