

Scientific Organizers

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**5<sup>th</sup> workshop**

**The Center for Nanoscience & Nanotechnology  
Tel Aviv University**

**February 22-24, 2009  
Ha'Goshrim, Israel**

**Chairs: Ron Lifshitz & Shachar Richter**

**<http://nano.tau.ac.il>**



<http://www.hagoshrim-hotel.co.il>

**PROGRAM**



# PROGRAM

## Sunday, 22 February, 2009

- 13:00 - 15:45 Arrival, Light refreshments & Lunch  
Registration and Check-in
- 15:45 - 16:00 Opening & Greetings  
**Ehud Gazit**, Vice President for Research & Development at TAU  
**Ori Cheshnovsky**, Head of the Center for Nanoscience & Nanotechnology
- Session I: Chair, Ori Cheshnovsky**
- 16:00 - 17:00 **Julio M. Fernandez**  
*Force-clamp spectroscopy of single proteins*
- 17:00 - 17:30 Coffee Break
- 17:30 - 19:30 Poster Flash session
- 19:30 - 20:30 Dinner
- 20:30 - 23:00 Beers, Snacks, and Posters

## Monday, 23 February, 2009

- 07:30 - 09:00 Breakfast
- 09:00 - 10:00 **Session II: Chair, Ron Lifshitz**  
**Aharon Kapitulnik**  
*A Cantilever-based apparatus for detecting micron-scale deviations from Newtonian gravity*
- 10:00 - 10:30 **Alexander Gerber**  
*Spintronics and nano-scale disorder in magnetic semiconductors*
- 10:30 - 11:00 Coffee Break

## Session III: Chair, Yael Hanein

- 11:00 - 11:30 **Yael Roichman**  
*Holographic assembly of quasicrystalline photonic heterostructures*
- 11:30 - 12:00 **Reuven Boxman**  
*Pulsed submerged discharge production of carbon and metal nanoparticles*
- 12:00 - 12:30 **Koby Scheuer**  
*Fantastic plastic: Casting photonic integrated circuits in polymers*

12:30 - 15:00 Lunch Break

## Session IV: Chair, Shachar Richter

- 15:00 - 15:30 **Yoram Selzer**  
*Laser light as a tool to analyze and control processes in molecular junctions*
- 15:30 - 16:00 **Tamar Seideman**  
*Electron- and photon-controlled dynamics in nano-junctions*
- 16:00 - 16:30 **Oded Hod**  
*Electromechanical properties of suspended graphene nanoribbons*

16:30 - 17:00 Coffee Break

## Session V: Chair, Ronit Satchi-Fainaro

- 17:00 - 17:30 **Noam Shomron**  
*MicroRNAs involved in nerve blockade using drug-containing microparticles*
- 17:30 - 18:00 **Ella Sklan**  
*Host factors required for hepatitis C virus replication*
- 18:00 - 18:30 **Slava Krylov**  
*Experimental and numerical investigation of spatial vibrational modes of nano cantilevers*

19:30 - 21:30 Conference Banquet

## Tuesday, 24 February, 2009

- 07:30 - 09:00 Breakfast
- 09:00 - 10:00 **Session VI: Chair, Itai Benhar**  
**Andreas Herrmann**  
*Nanoparticles from nucleic acid/synthetic polymer-hybrids*
- 10:00 - 10:30 **Yoel Kashman & Drorit Neumann**  
*New bioactive marine sponge-derived natural compounds as inhibitors of proliferation and inducers of cell death*
- 10:30 - 11:00 Coffee Break
- 11:00 - 11:30 **Session VII: Chair, Rimona Margalit**  
**Abdussalam Azem**  
*Variations on the function of type I chaperonins*
- 11:30 - 12:00 **Dan Peer**  
*Harnessing nanotechnology and RNA interference for therapy of leukocyte-implicated diseases*
- 12:00 - 12:30 Closing
- 12:30 - 14:00 Lunch and Departure