

# SINAM NANO SEMINAR

Center for Scalable and Integrated Nano  
Manufacturing (SINAM) - NSF Nanoscale  
Science and Engineering Center Presents:



## Anderson Localization of Light

*Prof. Mordechai Segev*  
*Trudy and Norman Louis Professor of Physics*  
*Technion - Israel Institute of Technology*

Wednesday, May 19th, 2010

2:00 PM - 3:00 PM

3110 Etcheverry Hall

### Biography

Mordechai (Moti) Segev is a Distinguished University Professor and the Trudy and Norman Louis Professor of Physics, at the Technion - Israel Institute of Technology, Haifa, Israel. He has received his B.Sc. and D.Sc. from the Technion, Israel, in 1985 and 1990, respectively. Moti Segev has spent one year at Caltech as a post-doctoral fellow and two more years as a Senior Research Fellow. He joined Princeton in September of 1994 as an Assistant Professor, becoming an Associate Professor in 1997, and a Professor in 1999. In the summer of 1998, Moti Segev went back to his home country, Israel, and joined the Technion, eventually resigning from Princeton in 2000.

Moti Segev's research interests are mainly in Nonlinear Optics, Solitons, Lasers and Quantum Electronics, although he finds much entertainment in more demanding fields such as basketball and hiking. He has around 250 publications in refereed journals, and has given more than 100 invited, keynote, and plenary presentations at conferences. His over all H-Factor is 59, and he has more than 12,500 citations, per ISI Web of Knowledge.

Among his most significant contributions are the discoveries of photorefractive solitons, of random-phase solitons (also called incoherent solitons, or self-trapping of solitons made of incoherent white light from an incandescent bulb), the first observation of 2D lattice solitons, and the first experimental demonstration of Anderson localization in a periodic system containing disorder.

Moti Segev is a Fellow of the Optical Society of America (OSA) (1997), a Fellow of the American Physical Society (2000). He has won several awards, among them the 2007 Quantum Electronics Prize of the European Physics Society (highest European award in optics / lasers / quantum electronics), and the 2009 Max Born Award of the OSA. In 2009, he was appointed as Distinguished University Professor - the highest rank at the Technion, currently held by only four other professors.

### *Refreshments Provided*

Hosted By: Professor Xiang Zhang, 3112 Etcheverry Hall  
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