## **Light and Disorder**

Professor Mordechai Segev
The Trudy and Norman Louis Professor of Physics
Physics Department and Solid State Institute
Technion - Israel Institute of Technology
Haifa, Israel

Photonic systems are naturally an excellent avenue to study fundamental concepts of waves' interactions, and many times lead to new discoveries. I will discuss Anderson localization of light, its exact opposite: hyper-transport (faster than ballistic) transport driven by fluctuating spatial disorder, and finally the recent breakthrough on photonic topological insulators. The emphasis will be on fundamental concepts, that are universal to all waves systems.