

THE AUSTRIA-ISRAEL ACADEMIC NETWORK INNSBRUCK AND THE RESEARCH PLATFORM ADVANCED MATERIALS INVITE YOU TO A GUEST LECTURE ON:

## Nanomaterials at interfaces: New insights on wet chemical preparation of functional nanomaterials



The talk will present the chemical bath deposition pathway to “chemical epitaxy”, which refers to the growth from solution of monocrystalline semiconductor thin films with well-defined orientation relations with respect to the substrate. Examples will be given for several systems, while describing the effect of deposition parameters on film morphology and resulting optical properties in the short wave infrared range. The second part of the talk will present the synthesis of highly uniform surfactant capped semiconductor nanoparticles, with emphasis on the role of “beneficial impurities” in controlling shape and aspect ratio.

**Wednesday, January 24, 2018, 17:00**

**Hörsaal 1, Josef-Möller Haus  
Innrain 52, 6020 Innsbruck**

**Professor Yuval Golan** is Director of the Ilse Katz Institute for Nanoscale Science and Technology and Professor at the Department of Materials Engineering at Ben-Gurion University of the Negev in Israel. His research interests include surfactant assisted synthesis of nanomaterials and chemical epitaxy of semiconductor thin films. Prof. Golan is Chairman of the Synchrotron Committee of the Israeli Academy of Science.