



ITE/IEXMH

ΣΕΜΙΝΑΡΙΟ
ΣΕΜΙΝΑΡΙΟ

ΟΜΙΛΗΤΗΣ: **Κωνσταντίνος Ανδρικόπουλος**, Μεταδιδακτορικός Ερευνητής
ITE/IEXMH

ΘΕΜΑ: **Μελέτη νανο-δομημένων υλικών για ενεργειακές εφαρμογές**
Studies of nanostructured materials for engineering energy applications

ΤΟΠΟΣ: Αίθουσα Σεμιναρίων ITE/IEXMH

ΗΜΕΡΟΜΗΝΙΑ: **Τετάρτη, 14 Ιουνίου 2017**

ΩΡΑ: **16:00**

ΠΕΡΙΛΗΨΗ

The presentation focuses on the study of nanostructured materials for engineering applications with an impact on energy. The information collected is basically provided by spectroscopic techniques such as Raman spectroscopy, FTIR, XPS etc., all of which are based on light-matter interaction and enable structural studies at molecular level. Correlation of the results at molecular level with the macroscopically observed properties will be described. Several examples will be considered including ones dealing with materials used in the production of modern membranes possessing extreme gas selectivity and/or water purification as well as materials used for the construction of innovative solar cells. Besides, the perspectives of materials applied on novel thermal energy storage devices will be discussed.



ITE/IEXMH

ΣΥΝΤΟΜΟ ΒΙΟΓΡΑΦΙΚΟ

Konstantinos S. Andrikopoulos: Degree: Physics, PhD: Chem. Eng. – Univ. of Patras. Career: Senior research scientist in FORTH/ICEHT (2012-now), senior research scientist in AUTH & TEI-Thess/niki (2008-12), research scientist in AUTH (2004-07), researcher in “Ormylia” Art Diagnosis Center (2000-04). Teaching experience: Master Courses – 12 semester courses/seminars, Undergraduate courses: Universities – 8 & Technological Educational Institutes (TEIs) >50 semester courses. Publications: 59, contributions to conferences: 81. Citations: >1000, h-index: 17. Transfer of knowledge to industries/private sector (Greek, international): >10. Reviewer: 14 journal titles. Major Research interests: Applied spectroscopy, Chemical Physics. Specific Research interests: SERS substrates/plasmonics, nanomaterials, photonic materials, membranes, glasses/amorphous materials, biomaterials and drug delivery, composites, food packaging materials/safety, flame retardant materials, textile materials, materials in cultural heritage art objects, on-site non-destructive instrumentations.