



ΑΡΙΣΤΟΤΕΛΕΙΟ  
ΠΑΝΕΠΙΣΤΗΜΙΟ  
ΘΕΣΣΑΛΟΝΙΚΗΣ

# ΣΕΜΙΝΑΡΙΟ ΤΜΗΜΑ ΦΥΣΙΚΗΣ

“Το σεμινάριο εντάσσεται στο πλαίσιο των εκδηλώσεων του Εργαστηρίου Ηλεκτρονικής Μικροσκοπίας για τον εορτασμό των 50 χρόνων λειτουργίας του”

Τετάρτη 6 Νοεμβρίου 2013

ώρα 12<sup>30</sup>

Αίθουσα Α<sub>31</sub>

## Κύκλος σεμιναρίων

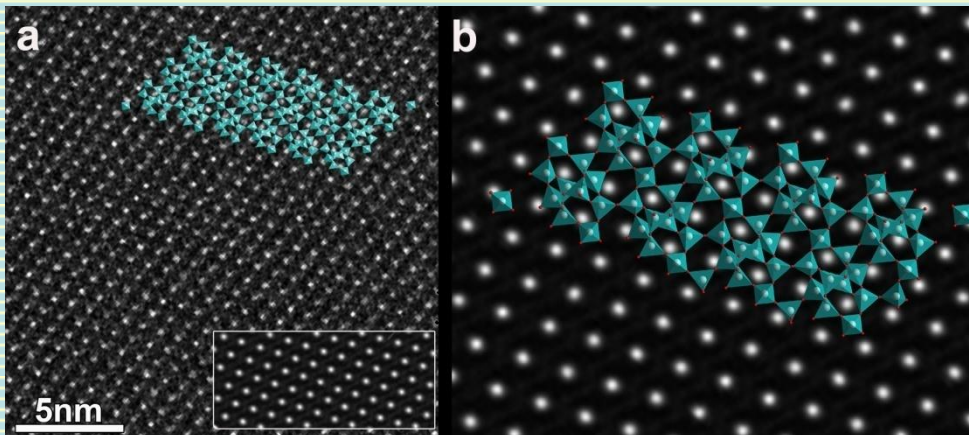


... ένα ταξίδι  
σύγχρονης

στον κόσμο της  
Φυσικής

στο Τμήμα Φυσικής

## “The role of electron microscopy in modern technology”



**Gustaaf Van Tendeloo**  
Professor

Physics Department, University of Antwerp



*Micro-electronics is no longer a correct description of reality. Nano-electronics would be a far better word. Technology in general has evolved into nanotechnology. In order to observe, analyze and develop these nanomaterials one needs the appropriate tools. Electron microscopy is the perfect tool for doing so. Electron microscopy (or better, electron nanoscopy) has indeed evolved into a technique able to provide information on the structure, composition and bonding at the sub-nanometer and even the atomic level. During this lecture we will provide different applications of advanced electron microscopy with respect to fundamental, technological and industrial applications.*

Το προφίλ του ομιλητή

- \* M. Sc. Physics:  
University of Brussels 1972
- \* Ph. D. Physics:  
University of Antwerp 1974
- \* Habilitation:  
University of Brussels 1981

### Scientific & Academic career

- \* 1980-1981 Post Doc. University of California (UCB)
- \* 1985 Professor solid state physics at University of Brussels
- \* 1988 Professor in physics at University of Antwerp
- \* 1993 Visiting professor Université de Caen
- \* 2003 Director EMAT laboratory
- \* 2006 Coordinator of the FP6 project “ESTEEM” (2006-2011)
- \* 2008 Methusalem award
- \* 2008 Francqui Chair University of Namur
- \* 2008 head of the “NANO Centre of Excellence”
- \* 2009 ERC Advanced Grant winner
- \* 2010 Member of the Academy

### Scientific activities

- \* 700 publications in international journals with referee system
- \* 20 000 citations in the ISI index
- \* h-index: 61
- \* Invited speaker at over 100 international conferences
- \* Editor “Handbook of Microscopy”
- \* Editor of “Handbook on Nanoscopy”
- \* Member of editorial board of 6 ISI journals

