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ΠΑΝΕΠΙΣΤΗΜΙΟ
ΘΕΣΣΑΛΟΝΙΚΗΣ

ΣΕΜΙΝΑΡΙΟ ΤΜΗΜΑ ΦΥΣΙΚΗΣ

Τετάρτη 5 Νοεμβρίου 2014

ώρα 12³⁰

Αίθουσα Α₃₁

Κύκλος σεμιναρίων

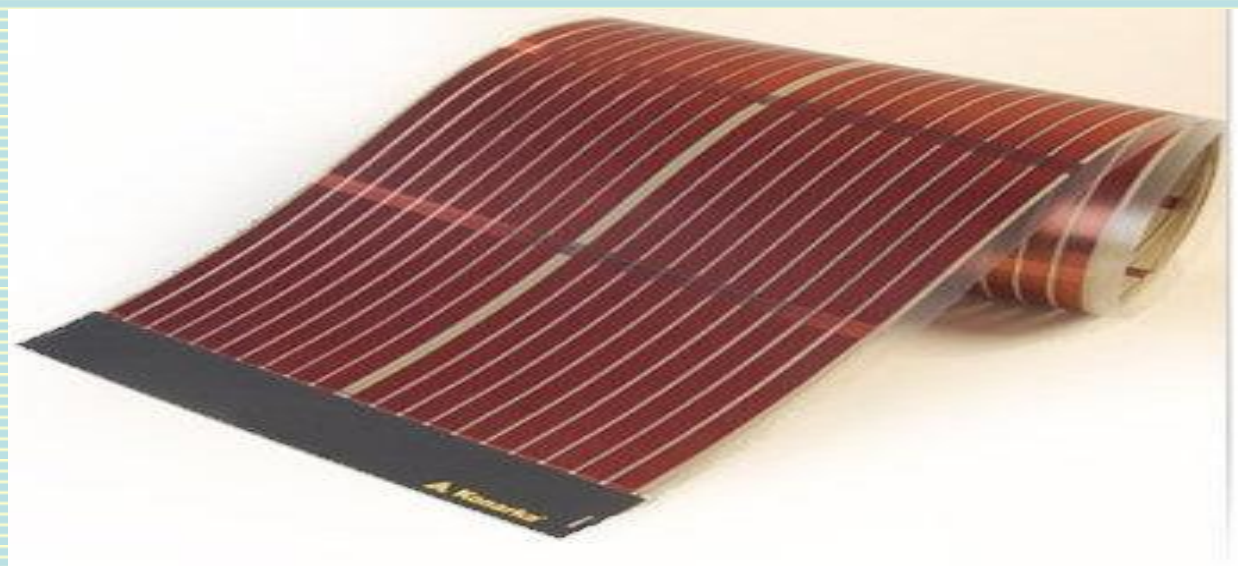


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The emerging technology of Organic Flexible and Printable Electronics



Prof. Georges Hadziioannou
University of Bordeaux

A brief presentation will be given on the evolution over the last century of two major parallel developments, namely communication and information science and technology as well as polymer science and engineering, on the shoulders of which the emerging “Polymer Organic Electronics” science and technology sits.

Then two examples will be given to illustrate how polymer material science and engineering can be of extreme help for the rise and consolidation, from technology and manufacturing points views the emerging industry of “Organic Electronics”. These are:

- i) the formulation of new materials for transparent conducting electrodes on the basis of semiconducting polymers and polyionic polymers as well as their integration to OLEDs and OPVs and
- ii) the happy marriage of semiconducting and ferroelectric polymers towards new optoelectronic properties and devices.

Το προφίλ του ομιλητή



Prof. Dr. Hadziioannou George, Professor and Director of Laboratoire de Chimie des Polymères Organiques, Université Bordeaux 1/CNRS. He received his Master's degree from the Aristotle University of Thessaloniki (Greece) in 1975 and his Doctorate in Physical Sciences from the University Louis-Pasteur of Strasbourg in 1980. He was Professor at the University Louis-Pasteur (ULP) Strasbourg (France), Director of the European Engineering School of Chemistry, Polymers and Materials (ECPM) of ULP and Director of the ‘Laboratoire d’Ingenierie des Polymeres pour les Hautes Technologies’ until 2008. His research area covers semi-conducting polymers, nanostructured polymer materials, polymer materials for data storage, organic electronics/plastic electronics – molecular electronics and systems thereof. Between 1980 and 1982, he was associate researcher at the Polymer Science and Engineering Department of University of Massachusetts. In 1982 he became research staff member of IBM Almaden Research Laboratory (California) where he directed the group “Surface and Interface Dynamics” from 1986 until 1989, and simultaneously Industrial Research Fellow of National Institute for Science and Technology (NIST), Washington (D.C.) and consulting professor at the Department of Chemical Engineering at Stanford University (California). He is the author of more than 300 publications, 18 patents, and more than 100 invited conferences since 1994.