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Slovenská technická univerzita v Bratislave
Fakulta elektrotechniky a informatiky
Katedra mikroelektroniky



si Vás dovoľujú pozvať na odborný seminár v rámci: „Týždňa vedy v SR“ za účasti viacerých významných prednášateľov zo zahraničia s tematickým zameraním:

„Carbon nanotubes - material of the future“

ktorý sa uskutoční dňa 12.11.2007 (pondelok) o 14.00 na FEI STU BA, Ilkovičova 3 v Klube zamestnancov FEI (Blok - B).

Program:

Úvodné slovo – Viera Skákalová 14.00

Siegmar Roth 14.00-14.50

Max Planck Institute for Solid State Research
Stuttgart, Germany
e-mail: S.roth@kf.mpg.de

„Carbon nanotubes – what is that? “
Introduction into physics and material science of carbon nanostructures. New effects, new applications.

Miroslav Haluška 14.50-15.20

Micro- and Nano- Scale Engineering Group
Technical University of Eindhoven
Netherlands
e-mail: M.Haluska@tue.nl

„Growth of carbon nanotubes“
Methods of single wall carbon nanotubes growth and effect of the growth conditions on SWNT properties will be presented.

Dirk Obergfell 15.20-15.50

Max Planck Institute for Solid State Research
Stuttgart, Germany
e-mail: D.obergfell@kf.mpg.de

„Magnetotransport in single wall carbon nanotubes and graphene“
Magnetotransport at low temperatures was performed on individual SWNTs, peapods and graphene. The importance of combining transport with a structural investigation on the same nano-object is pointed out.

Prestávka 15.50-16.10

Hans Kuzmany 16.10-17.00

Faculty of Physics
University of Vienna, Austria
e mail: hans.kuzmany@univie.ac.at

„Recent efforts to make money from carbon nanotubes“
Recent experience in strong Japan-Korean efforts to commercialize carbon nanotubes will be shared. These efforts cover low price production of the tubes, separation of metallic and semiconducting tubes, chirality selective growth, field emission applications, electro-optical applications, drug delivery, biosensing, and others.

Rudolf Pfeiffer 17.00-17.30

Faculty of Physics
University of Vienna, Austria
e-mail: rudolf.pfeiffer@univie.ac.at

„Catalytic and non-catalytic growth of nanotubes inside nanotubes“
A detailed growth study of nanotubes formed inside SWNTs filled by fullerenes and ferrocene, and their characterization with Raman spectroscopy, HR-TEM and x-ray diffraction will be presented.

Ferenc Simon: 17.30-18.00

Department of Experimental Physics
Budapest University of Technology and Economics, Hungary
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„Playing with the inside of carbon nanotubes: from strong correlation effects till drug delivery“
The hollow inside of single-wall carbon nanotubes provides a unique degree of freedom to investigate chemical reactions inside this confined environment and to study the tube properties.