

Newsletter, Feb. 2010

STSMs (Short Term Scientific Missions) are sponsored by the network: if you plan a short (up to 3 months) visit to the partners lab - this is the instrument.

Documents to be submitted (to STSMs Coordinator Dorota Pawlak:

Dorota.Pawlak@itme.edu.pl):

- CV of the applicant
- Acceptance letter of the host
- Detailed work plan
- On-line application (for the form - please, contact Dorota)

Planning: The documents should arrive to the network office at least one month before the trip.

Papers

Locally Functionalized Short-Range Ordered Nanoplasmonic Pores for Bioanalytical Sensing

M. P. Jonsson, A. B. Dahlin, L. Feuz, S. Petronis and F. Höök

Anal. Chem., Article ASAP

<http://pubs.acs.org/doi/abs/10.1021/ac902925e>

LSPR Study of the Kinetics of the Liquid–Solid Phase Transition in Sn Nanoparticles

M. Schwind, V. P. Zhdanov, I. Zorić and B. Kasemo

Nano Lett., Article ASAP

<http://pubs.acs.org/doi/abs/10.1021/nl100044k>

Dual band terahertz waveguiding on a planar metal surface patterned with annular holes

Williams, C.R., Misra, M., Andrews, S.R., Maier, S.A., Carretero-Palacios, S., Rodrigo, S.G., Garcia-Vidal, F.J., and Martin-Moreno, L.

Appl. Phys. Lett. 96, 011101 (2010)

<http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=APPLAB000096000001011101000001&idtype=cvips&gifs=yes>

Mid-IR plasmonic antennas on silicon-rich oxinitride absorbing substrates: Nonlinear scaling of resonance wavelengths with antenna length

Sikola, T., Kekatpure, R.D., Barnard, E.S., White, J.S., Van Dorpe, P., Brinek, L., Tomanec, O., Zlamal, J., Lei, D.Y., Sonnefraud, Y., Maier, S.A., Jumlicek, J., & Brongersma, M.L.

Appl Phys Lett 95, 253109 (2009)

<http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=APPLAB000095000025253109000001&idtype=cvips&gifs=yes>

Plasmonics beyond the diffraction limit

Dmitri K. Gramotnev & Sergey I. Bozhevolnyi

Nature Photon. 4, 83 (2010)

<http://www.nature.com/nphoton/journal/v4/n2/abs/nphoton.2009.282.html>

Jobs

POSTDOC POSITION IN GRAPHENE PLASMONICS (THEORETICAL) at Chalmers University of Technology (Göteborg, Sweden).

Postdoc position for investigating the properties of graphene as a plasmonic material. We seek a highly motivated and skilled postdoctoral researcher (documented skills in condensed matter physics and electromagnetic modelling in plasmonic structures) to be part of an ongoing theoretical effort at Chalmers University of Technology. The position is in the Applied Physics Department, Condensed Matter Theory group. The project will be carried out by the prospective applicant along with a PhD student and professors working within the field. In a

larger perspective the project will be done in a truly international environment and the home of several national and EU projects.

Application deadline 2010-03-01

The project lasts for two years and the prospective post-doc should be able to start during the first half of 2010. We will start to interview qualified applicants first week in March. A candidate maybe chosen at anytime after that, but applications will be accepted until position is filled. A post-doc at Chalmers is usually 1+1 years.

<http://www.chalmers.se/ap/EN/research/condensed-matter-theory>

For further information contact Professor Jari Kinaret (jari.kinaret@chalmers.se) and/or Peter Apell (apell@chalmers.se)

FACULTY POSITIONS FOR PHYSICISTS AND ENGINEERS IN FUNCTIONAL MATERIALS at Exeter, UK.

Up to 5 academic positions may be available at the University of Exeter. We are interested in recruiting staff at all stages, from lecturer to full professor. Applicants should be active researchers with a track record of high quality publications, and of attracting research funding. We are looking for people who will complement our existing activity, especially in photonic materials, plasmonics and structured meta-materials. You may be an ambitious post-doc, or perhaps you already an established faculty member elsewhere wishing to move your entire research group.

For informal advice, please contact Bill Barnes at w.l.barnes@ex.ac.uk

The closing date for completed applications is noon of 3rd March 2010.

Further details are at <http://newton.ex.ac.uk/research/positions/func.html>

PHD STUDENTSHIP: "Exotic light control in semiconductor metamaterials", Electromagnetic Materials Group: Exeter, UK.

The project involves theoretical/computational investigation of extra-ordinary metamaterial responses in semiconductor based structures.

Further details are available at <http://newton.ex.ac.uk/research/phd/specific/Foteinopoulou.pdf>

APPLICATIONS ARE INVITED FOR 2 FULL-TIME PHD STUDENTSHIPS in the Nano-optics and Near-field Spectroscopy Group (<http://www.nano-optics.org.uk>) at the Queen's University of Belfast to work on the projects within the UK Research Programme "Active Plasmonics" (<http://www.activeplasmonics.org>). The projects involve fabrication and optical characterisation of advanced plasmonic nanostructures and plasmonic circuits. In addition to exciting science, the project will require travelling to collaborating laboratories at Imperial College London and interactions with industrial partners.

The studentships are for 4 years and cover tuition fees and a stipend.

The start date is negotiable but March 2010 will be preferred.

Applications should be made on-line by visiting link <https://qolps.qub.ac.uk/home/> and quoting the project title "Active Plasmonics".

Events

International Workshop on Photonic Nanomaterials – PhoNa 2010, March 24/25, 2010, Jena, Germany, www.phona.uni-jena.de

The workshop will bring together renowned international scientists from the fields of nano-optics, plasmonics, nanofabrication, nano-chemistry, and theoretical methods in electrodynamics. The aims are to discuss future perspectives of Photonic Nanomaterials, to recognize the main streams of research in this scientific area and to identify particular challenges for applications as well as for fundamental science.

Deadline for papers/posters submission: March 1, 2010

Organizers: Falk Lederer, Thomas Pertsch, Carsten Rockstuhl, Ulrich S. Schubert

OSA Integrated Photonics Research: Deadline: 1 March 2010

<http://www.osa.org/meetings/topicalmeetings/IPR/about/default.aspx>

EOS General meeting: Deadline 7 June 2010

<http://www.myeos.org/events/eosam2010>

IOP Photon-10 conference: Deadline 26 February 2010

http://www.photon.org.uk/activity/QEP-18/page_35734.html

Metamaterials '2010

Fourth International Congress on Advanced Electromagnetic Materials in Microwaves and Optics (<http://congress2010.metamorphose-vi.org/>), Karlsruhe, Germany

Conference: September 13 – 16, 2010; Doctoral School: September 17 – 18, 2010

Deadline: March 29, 2010

Contact: Stefan Linden and Vladimir Podlozny (contact@congress2010.metamorphose-vi.org)