

Newsletter, December 2010

COST Plasmonics Working Groups 1-5 + MC meetings will be co-located with SPIE Optics+Optoelectronics
18 - 21 April 2011, Prague Congress Centre, Prague, Czech Republic
<http://spie.org/optics-optoelectronics.xml>

COST Plasmonics invites applications to host the hands-on training school(s): it is our commitment to spread the experimental and theoretical (methodological) hands-on knowledge in the plasmonics community, thus we aim at supporting focused events where participants learn in practice a particular (new) technique or real practical aspects of the established one. Example: Hole-mask Colloidal Lithography (HCL) training school (<http://www.chalmers.se/ap/EN/research/bionanophotonics/adverts/hcl>). If you would like to organize/host such event to share your knowledge with the community - please, contact me directly at alex.d@chalmers.se

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

Optical properties of carbon nanofiber photonic crystals
R. Rehammar, R. Magnusson, A. I. Fernandez-Dominguez, H. Arwin, J. M. Kinaret, S. A. Maier and E. E. B. Campbell
Nanotechnology 21, 465203 (2010)
<http://iopscience.iop.org/0957-4484/21/46/465203/>

Cavity Plasmonics: Large Normal Mode Splitting of Electric and Magnetic Particle Plasmons Induced by a Photonic Microcavity
R. Ameling and H. Giessen
Nano Lett. 10, 4394 (2010)
<http://pubs.acs.org/doi/abs/10.1021/nl1019408>

Enhancing the Optical Excitation Efficiency of a Single Self-Assembled Quantum Dot with a Plasmonic Nanoantenna
M. Pfeiffer, K. Lindfors, C. Wolpert, P. Atkinson, M. Benyoucef, A. Rastelli, O. G. Schmidt, H. Giessen, and M. Lippitz
Nano Lett. 10, 4555 (2010)
<http://pubs.acs.org/doi/abs/10.1021/nl102548t>

Plasmonic modes of extreme subwavelength nanocavities
J. Petschulat, C. Helgert, M. Steinert, N. Bergner, C. Rockstuhl, F. Lederer, T. Pertsch, A. Tünnermann, and E.-B. Kley
Opt. Lett. 35, 2693 (2010)
<http://www.opticsinfobase.org/abstract.cfm?URI=OL-35-16-2693>

Wavelength Dependence of Raman Enhancement from Gold Nanorod Arrays: Quantitative Experiment and Modeling of a Hot Spot Dominated System

M. D. Doherty, A. Murphy, J. McPhillips, R. J. Pollard, and P. Dawson
J. Phys. Chem. C 114, 19913 (2010)

<http://pubs.acs.org/doi/abs/10.1021/jp107063x>

Label-free Biosensing Based on Single Gold Nanostars as Plasmonic Transducers

S. K. Dondapati, T. K. Sau, C. Hrelescu, T. A. Klar, F. D. Stefani, and J. Feldmann
ACS Nano 4, 6318 (2010)

<http://pubs.acs.org/doi/abs/10.1021/nn100760f>

Deterministic subwavelength control of light confinement in nanostructures

G. Volpe, G. Molina-Terriza and R. Quidant
Phys. Rev. Lett. 105, 216802 (2010)

<http://prl.aps.org/abstract/PRL/v105/i21/e216802>

Nonlinear dark-field microscopy

H. Harutyunyan, S. Palomba, J. Renger, R. Quidant, L. Novotny
Nano Lett. (2010), Article ASAP, DOI: 10.1021/nl1033304

<http://pubs.acs.org/doi/abs/10.1021/nl1033304>

Magnetic field concentrator for probing optical magnetic metamaterials

T. J. Antosiewicz, P. Wróbel, and T. Szoplik
Opt. Exp. 18, 25906 (2010)

<http://www.opticsinfobase.org/oe/abstract.cfm?URI=oe-18-25-25906>

Performance of Scanning Near-Field Optical Microscope Probes with Single Groove and Various Metal Coatings

T. J. Antosiewicz, P. Wróbel, and T. Szoplik
Plasmonics, DOI 10.1007/s11468-010-9163-6

<http://www.springerlink.com/content/v42251231j363641/>

Multiscale analysis of subwavelength imaging with metal-dielectric multilayers

R. Kotyński and T. Stefaniuk

Opt. Lett. 35, 1133 (2010)

<http://www.opticsinfobase.org/ol/abstract.cfm?URI=ol-35-8-1133>

Funding

[partner network]

ESF Network PLASMON-BIONANOSENSE: Applications are open for short and long term visits and conferences/workshops, www.esf.org/plasmon

Jobs

The PlasTips ANR project (CEMES, Toulouse, France): a post-doctoral research associate position for a physicist willing to develop a combined optical TIR Fluorescence and AFM near field bench. Applicants with demonstrated experience in optical physics, luminescence (TIRF), instrumentation and AFM are welcome to apply.

<http://www.comosyel.cemes.fr/index.php/postdoc>

Starting date: February 2011, duration – 1 year (renewable).

Apply to: Erik Dujardin, dujardin@cemes.fr

Events

SPP5: Surface Plasmon Photonics 5

May 15-20 2011, BEXCO, Busan, Korea

Abstracts deadline: December 15
<http://www.spp5.org>

SPIE/OSA European Conferences on Biomedical Optics
22 - 26 May 2011, ICM - International Conference Centre Munich (Munich, Germany)
Submission deadline: December 17th 2010
http://spie.org/biomedical-optics-europe.xml?WT.mc_id=REBO11ACE

SPIE Optics+Photonics
21 - 25 August 2011, San Diego Convention Center, San Diego, California, USA
Abstracts Due: 7 February 2011
NanoScience+Nanoengineering, <http://spie.org/x13190.xml>
Solar Energy+Technology, <http://spie.org/x13194.xml>
Photonic Devices+Applications, <http://spie.org/x13192.xml>
Optical Engineering+Applications, <http://spie.org/x13188.xml>

PIERS 2011: Progress In Electromagnetics Research Symposium in Suzhou, China
12-16 September, 2011
Abstract Submission Deadline: 20 February, 2011
<http://www.piers.org/piers2011Suzhou/>