

Newsletter, January 2011

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

Our two sister COST Actions - MP0702 (Sub-Wavelength Photonics) and MP0805 (Gain Materials and Devices Based on III-V-N Gain Devices) - will have their 2011 annual events co-located with ICTON 2011: The 13th International Conference on Transparent Optical Networks ICTON 2011 <http://www.itl.waw.pl/icton2011> (Royal Institute of Technology (KTH), Stockholm, Sweden, June 26 - 30, 2011).
Contributions submission deadline: March 31, 2011.

Papers

Plasmon Hybridization Reveals the Interaction between Individual Colloidal Gold Nanoparticles Confined in an Optical Potential Well
L. Tong, V. D. Miljkovic, P. Johansson, and M. Käll
Nano Lett., Article ASAP (2010)
<http://pubs.acs.org/doi/abs/10.1021/nl1036116>

Single-particle plasmon resonance spectroscopy of phase transition in vanadium dioxide
Lei, D.Y., Appavoo, K., Sonnefraud, Y., Haglund, RF (Jr), & Maier, S.A.
Opt. Lett. 35, 3988 (2010)
<http://www.opticsinfobase.org/abstract.cfm?uri=ol-35-23-3988>

Interaction between plasmonic nanoparticles revisited with transformation optics
Aubry, A., Lei, D.Y., Maier, S.A., & Pendry, J.B.
Phys. Rev. Lett. 105, 233901 (2010)
<http://prl.aps.org/abstract/PRL/v105/i23/e233901>

Conformal transformation applied to plasmonics beyond the quasistatic limit
Aubry, A., Lei, D.Y., Maier, S.A., & Pendry, J.B.
Phys. Rev. B 82, 205109 (2010)

<http://prb.aps.org/abstract/PRB/v82/i20/e205109>

Controlling light localization and light-matter interactions with nanoplasmonics
Giannini, V., Fernández-Dominguez, A.I., Sonnefraud, Y., Roschuk, T., Fernández-García, R., & Maier, S.A.

Small 6, 2498 (2010)

<http://onlinelibrary.wiley.com/doi/10.1002/sml.201001044/abstract>

Atomically flat single-crystalline gold nanostructures for plasmonic nanocircuitry
J.-S. Huang, V. Callegari, P. Geisler, C. Brünig, J. Kern, J. C. Prangsma, X. Wu, T. Feichtner, J. Ziegler, P. Weinmann, M. Kamp, A. Forchel, P. Biagioni, U. Sennhauser and B. Hecht

Nat. Commun. 1, doi:10.1038/ncomms1143

<http://www.nature.com/ncomms/journal/v1/n9/pdf/ncomms1143.pdf>

A holey-structured metamaterial for acoustic deep-subwavelength imaging
J. Zhu, J. Christensen, J. Jung, L. Martin-Moreno, X. Yin, L. Fok, X. Zhang and F. J. Garcia-Vidal

Nature Phys. 7, 52 (2010)

<http://www.nature.com/nphys/journal/v7/n1/abs/nphys1804.html?lang=en>

Spectral Imaging of Individual Split-Ring Resonators

G. Boudarham, N. Feth, V. Myroshnychenko, S. Linden, J. García de Abajo, M. Wegener, and M. Kociak

Phys. Rev. Lett. 105, 255501 (2010)

<http://prl.aps.org/abstract/PRL/v105/i25/e255501>

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

EUROMAT2011, the European Congress and Exhibition on Advanced Materials and Processes: symposia on Metamaterials (A11) and Photonic Nanostructures (A12)

12-15 September, 2011, Montpellier, France

Deadline for abstracts submission: January 31, 2011.

<http://euromat2011.fems.eu/category/programme/topics-symposia>

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/>