

Newsletter, November 2010

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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

Abstracts Due: 8 November 2010

<http://spie.org/optics-optoelectronics.xml>

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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@chalmers.se](mailto:alex@chalmers.se)

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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](mailto: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

Controlling light localization and light-matter interactions with nanoplasmonics

V. Giannini, A. I. Fernández-Dominguez, Y. Sonnefraud, T. Roschuk, R. Fernández-García, and S. A. Maier

Small, Article ASAP (2010)

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

Thresholdless coherent light scattering from subband polaritons in a strongly coupled microcavity

J. Gambari, A. I. Fernández-Dominguez, S. A. Maier, B. S. Williams, S. Kumar, J. L. Reno, Q. Hu, and C. C. Phillips

Phys. Rev. B 82, 121303(R) (2010)

<http://prb.aps.org/abstract/PRB/v82/i12/e121303>

Broadband nano-focusing of light using kissing nanowires

D. Y. Lei, A. Aubry, S. A. Maier, and J. B. Pendry

New J. Phys. 12, 093030 (2010)

<http://iopscience.iop.org/1367-2630/12/9/093030/?rss=1.0>

Broadband plasmonic device concentrating the energy at the nanoscale: The crescent-shaped cylinder

A. Aubry, D. Y. Lei, S. A. Maier, and J. B. Pendry

Phys. Rev. B 82, 125430 (2010)

<http://prb.aps.org/abstract/PRB/v82/i12/e125430>

Geometry-induced electrostatic trapping of nanometric objects in a fluid

M. Krishnan, N. Mojarad, P. Kukura and V. Sandoghdar  
Nature 467, 692 (2010)

<http://www.nature.com/nature/journal/v467/n7316/abs/nature09404.html>

Extraordinary All-Dielectric Light Enhancement over Large Volumes

R. Sainidou, J. Renger, T. V. Teperik, M. U. González, R. Quidant, and F. J. Garcia de Abajo  
Nano Lett., Article ASAP (2010)

<http://pubs.acs.org/doi/abs/10.1021/nl102270p>

Surface plasmon coupling to nanoscale Schottky-type electrical detectors

T. Dufaux, J. Dorfmueller, R. Vogelgesang, M. Burghard, and K. Kern  
Appl. Phys. Lett. 97, 161110 (2010)

[http://apl.aip.org/resource/1/applab/v97/i16/p161110\\_s1](http://apl.aip.org/resource/1/applab/v97/i16/p161110_s1)

Broadband Purcell enhancement in plasmonic ring cavities

E. J. R. Vesseur, F. J. Garcia de Abajo, and A. Polman  
Phys. Rev. B 82, 165419 (2010)

<http://prb.aps.org/abstract/PRB/v82/i16/e165419>

## Funding

[partner network]

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

## Jobs

University of Eastern Finland (Joensuu, Finland): 10 postdoc positions (3-year).

[http://www.uef.fi/uef/avoimet-tyopaikat1?p\\_p\\_id=101\\_INSTANCE\\_lo5M&p\\_p\\_lifecycle=0&p\\_p\\_state=normal&p\\_p\\_mode=view&p\\_p\\_col\\_id=column-2&p\\_p\\_col\\_pos=1&p\\_p\\_col\\_count=2&\\_101\\_INSTANCE\\_lo5M\\_struts\\_action=%2Fasset\\_publisher%2Fview\\_content&\\_101\\_INSTANCE\\_lo5M\\_urlTitle=20101005-post-doctoral-researcher-positions-at-the-university-of-eastern-finland&\\_101\\_INSTANCE\\_lo5M\\_type=content&redirect=%2Fuef%2Favoimet-tyopaikat](http://www.uef.fi/uef/avoimet-tyopaikat1?p_p_id=101_INSTANCE_lo5M&p_p_lifecycle=0&p_p_state=normal&p_p_mode=view&p_p_col_id=column-2&p_p_col_pos=1&p_p_col_count=2&_101_INSTANCE_lo5M_struts_action=%2Fasset_publisher%2Fview_content&_101_INSTANCE_lo5M_urlTitle=20101005-post-doctoral-researcher-positions-at-the-university-of-eastern-finland&_101_INSTANCE_lo5M_type=content&redirect=%2Fuef%2Favoimet-tyopaikat)

The applications can be sent to any research area in the university but such that the research integrates with existing research groups in the department (supporting statement from the department is needed). Applications in general area of Photonics are welcome ([www.uef.fi/fysmat/fotoniikka](http://www.uef.fi/fysmat/fotoniikka))

Applications deadline: Nov. 5 2010

Contact (applications in Photonics): Pasi Vahimaa, [pasi.vahimaa@uef.fi](mailto:pasi.vahimaa@uef.fi)

Science Officer: Chemistry and Molecular Sciences and technology (CMST)

The ESF seeks a full-time Science Officer in the CMST for its COST Office in Brussels.

The Science Officer position will imply the management of the CMST Domain, by catalysing and supporting researchers, Domain Committees and COST Actions, promoting inter disciplinary research collaboration in a multi-disciplinary environment across Europe and beyond.

Specific competencies: PhD or equivalent research experience, preferably with a 3 to 5 years research experience in a relevant science area; Proven experience of science and budget management; Experience with grant assessment and review processes is an asset; Knowledge of European and national research structures and institutions and European and international science policy; Strong networking skills; Excellent spoken and written English, with a working knowledge of another European language being an advantage but not a requirement; Good working knowledge of MS Office systems, electronic databases and Web sites.

The ESF offers:

• An international working environment located in Brussels at 1050, avenue Louise 149; Competitive salary; Candidates must be eligible to work in Belgium and must have a Work Permit unless a national of the 'EU and EEE'.  
Electronic applications (motivation letter + CV) should be addressed to the Senior HR Officer and sent to [job@cost.eu](mailto:job@cost.eu)  
Reference code: SOCMST  
The selected person should ideally be available by January 2011 or earlier.  
For general details see <http://www.cost.eu>  
Closing date: 03 November 2010

#### Events

MRS Spring Meeting, April 25 - 29, 2011, Moscone West and San Francisco Marriott, San Francisco, California

Abstracts submission deadline: November 2<sup>nd</sup>, 2010.

[http://www.mrs.org/s\\_mrs/sec.asp?CID=21379&DID=246341&SID=1](http://www.mrs.org/s_mrs/sec.asp?CID=21379&DID=246341&SID=1)

[COST Plasmonics co-locates MC and WGs meetings]

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[organized by COST Plasmonics partner]

Training School on Experimental Characterization of Electromagnetic Metamaterials.

Dates: December 13-17, 2010

Registration deadline: November 22

Location: Foundation for Research and Technology Hellas (FORTH), Crete, Greece

<http://www.school.metamorphose-eu.org/>

Organizing committee: Sergei Tretyakov, Maria Kafesaki, George Kenanakis

Contact: Dr. George Kenanakis ([gkenanak@iesl.forth.gr](mailto:gkenanak@iesl.forth.gr))

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 17<sup>th</sup> 2010

[http://spie.org/biomedical-optics-europe.xml?WT.mc\\_id=REBO11ACE](http://spie.org/biomedical-optics-europe.xml?WT.mc_id=REBO11ACE)