

Newsletter, October 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

Photon antibunching in the optical near-field,  
Marty, A. Arbouet, V. Paillard, C. Girard, and G. Colas des Francs  
Phys. Rev. B 82, 081403(R) (2010)

<http://link.aps.org/doi/10.1103/PhysRevB.82.081403>

Optical gain, spontaneous and stimulated emission of surface plasmon-polaritons in confined plasmonic waveguide,  
G. Colas des Francs, P. Bramant, J. Grandidier, A. Bouhelier, J.-C. Weeber, and A. Dereux,  
Opt. Exp. 18, 16327 (2010)

<http://www.opticsinfobase.org/oe/abstract.cfm?uri=oe-18-16-16327>

Excitation of multiple dipole surface plasmon resonances in spherical silver nanoparticles  
B. Niesen, B. P. Rand, P. Van Dorpe, H. Shen, B. Maes, J. Genoe, and P. Heremans  
Opt. Exp. 18, 19032 (2010)

<http://www.opticsinfobase.org/abstract.cfm?uri=oe-18-18-19032>

Strong location dependent surface enhanced Raman scattering on individual gold semishell and nanobowl particles

J. Ye, C. Chen, L. Lagae, G. Maes, G. Borghs, and P. Van Dorpe

Phys. Chem. Chem. Phys. 12, 11222 (2010)

<http://pubs.rsc.org/en/Content/ArticleLanding/2010/CP/c0cp00872a>

Groove-gratings to optimize the electric field enhancement in a plasmonic nanoslit-cavity

C. Chen, N. Verellen, K. Lodewijks, L. Lagae, G. Maes, G. Borghs and P. Van Dorpe

J. Appl. Phys. 108, 034319 (2010)

[http://jap.aip.org/resource/1/japiau/v108/i3/p034319\\_s1](http://jap.aip.org/resource/1/japiau/v108/i3/p034319_s1)

## 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

Department of Applied Physics at Chalmers, Göteborg, Sweden: ASAP theoretical post-doc in functional electromagnetic metamaterials (within a consortium of 6 research groups where 5 PhDs have recently been employed). We seek a creative and independent candidate with documented analytical capacity, excellent language skills and a particular interest in applied nanoscience. The candidate should have a good knowledge of theoretical and numerical methods for treating the electromagnetic properties of engineered systems.

Subject areas of the project: Optimized plasmonic metamaterials for label-free biomolecular sensing and spectroscopy / Metamaterials filters for virus detection and cell-membrane sensors / Magnetoplasmonic metamaterials for optical manipulation and data storage / Functional metamaterials for enhanced photon capture in solar cells / Metamaterials for clean energy solutions: hydrogen production and storage / Electromagnetic theory and modelling of nanoplasmonic metamaterials.

More info / contact: Peter Apell, [apell@chalmers.se](mailto:apell@chalmers.se)

School of Engineering, Australian National University (ANU) College of Engineering and Computer Science, Canberra, Australia: research fellow in the area of plasmonics for photovoltaics (part of the Australian Solar Institute project).

Details are available at: <http://jobs.anu.edu.au/PositionDetail.aspx?p=1553>

Closing date: 21 October 2010

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)

## Events

[organized by COST Plasmonics partner]

On behalf of The Scottish Chapter of the Photonics Society (ex-LEOS), we would like to invite you to a one-day conference on "Integrated and guided wave photonics". This event will mark a significant milestone in the life and career of Richard De La Rue.

Location: University of Glasgow

Date: Wednesday 20th October 2010

Contact: Dr Nigel P Johnson, [njohnson@elec.gla.ac.uk](mailto:njohnson@elec.gla.ac.uk)

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)

[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)

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)