

NFO-11

北京  
中国11th International Conference on Near-field Optics,  
Nanophotonics and Related Techniques

Beijing, 2010.8.29-9.2

# NFO-11

## 11th International Conference on Near-field Optics, Nanophotonics & Related Techniques

Peking University, Beijing, China Aug 29-Sept 2, 2010

### ▶ PLENARY LECTURES

#### Dieter Pohl

~30 Years of Near-field Optics  
(Basel University)

#### Martin Moskovits

Surface Enhanced Raman and Plasmonics as  
Near Field Phenomena  
(University of California, Santa Barbara)

### ▶ INVITED TALKS

|                      |   |   |
|----------------------|---|---|
| Volker Deckert       | Reproducibility of tip-enhanced Raman scattering (TERS) results   | (University of Jena)                              |
| Lukas M. Eng         | Superlensing with low loss oxide-based perovskites  | (Institut für Angewandte Photophysik, TU Dresden) |
| Ulrich C. Fischer    | Surface enhanced fluorescence near-field microscopy of a photosynthetic membrane  | (University Münster)                              |
| J. M. Gerton         | Energy transfer between a single quantum dot and a carbon nanotube  | (University of Utah)                              |
| Jean-Jacques Greffet | Optical patch antennas for single photon emission   | (Institut d'Optique Graduate School, Palaiseau)   |
| Bert Hecht           | Mode imaging and selection in strongly coupled nanoantennas   | (University of Würzburg)                          |
| Rainer Hillenbrand   | IR and THz near-field nanoscopy   | (CIC nanoGUNE Consolider)                         |
| Minghui Hong         | Laser fabrication of large-area meta-materials and near-field optics for terahertz wave enhancement and Detection         | (National University of Singapore)                |
| Hirokazu Hori        | Experimental and theoretical studies on fundamental processes and hierarchical properties of nano-optoelectronics systems | (University of Yamanashi)                         |
| Serge Huant          | Launching surface plasmons with a nanodiamond-based optical tip: towards scanning quantum plasmonics                      | (Institut Néel, CNRS & Université Joseph Fourier) |
| Satoshi Kawata       | Near-field scanning Raman microscopy in deep UV   | (Osaka University)                                |
| Ole Keller           | Pilot-wave theory for photons: near-field aspects   | (Aalborg University)                              |
| DaiSik Kim           | Near field control of terahertz transmission based on VO <sub>2</sub> phase transition                                    | (Seoul National University)                       |
| Christoph Lienau     | Ultrafast nano-optics: applications in materials science  | (Max Born Institute Berlin)                       |
| Aiqun Liu            | Micro-opto-fluidic systems (MOFS)/optofluidics  | (Nanyang Technological University)                |
| Boris Luk'yanchuk    | Optical Fano resonance in nanostructures with broken symmetry   | (Data Storage Institute of Singapore)             |
| Oliver J.F. Martin   | Optical trapping in the near-field of plasmonic nanostructures  | (Swiss Federal Institute of Technology Lausanne)  |
| Alfred J. Meixner    | Nanometer scale spectroscopic imaging of organic semiconductor films by plasmon-polariton coupling                        | (University of Tübingen)                          |
| Peter Nordlander     | Fano resonances in plasmonic nanostructures   | (Rice University)                                 |
| Ann Roberts          | Plasmonic lens for three-dimensional wavefield control  | (The University of Melbourne)                     |
| James Schuck         | Non-perturbative visualization of nanoscale plasmonic field distributions via photon localization microscopy              | (Lawrence Berkeley National Lab)                  |
| Zhongqun Tian        | SHINERS and TERS with various nanostructures for surface science and molecular electronics                                | (Xiamen University)                               |
| Pavel Tománek        | Local optical characterization of tantalum capacitors breakdowns  | (Brno University of Technology)                   |
| Din Ping Tsai        | Near-field optical interaction of plasmonic photo-catalytic chemical process  | (Taiwan University)                               |
| Ralf Vogelgesang     | Recent advances in real-space imaging of nanoplasmonic structures   | (Max-Planck-Institut für Festkörperforschung)     |
| Jianbin Xu           | Investigation of optical properties of 2-dimensional metallic arrays for sers and biomolecular detection                  | (The Chinese University of Hong Kong)             |
| Xianfan Xu           | Field Enhancement using high gain bowtie nano-antenna and antenna array and its engineering applications                  | (Purdue University)                               |

### ▶ CONFERENCE TOPICS

Near-field optics  
Nanophotonics  
Plasmonics  
Novel instrumentation for nano-imaging  
Theory and modeling  
Quantum optics in the near-field  
Nonlinear and ultrafast phenomena  
Near-field and local field enhancement  
Photonic crystals and plasmonic structures  
Optical metamaterials  
Applications and nanophotonic devices

### ▶ INTERNATIONAL ADVISORY COMMITTEE

Alain Dereux, University of Burgundy  
Naomi Halas, Rice University  
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Aaron Lewis, Hebrew University of Jerusalem  
Olivier J.F. Martin, EPFL, Lausanne  
Oscar Martínez, Universidad de Buenos Aires  
Lukas Novotny, Rochester University  
Motoich Ohtsu, University of Tokyo  
Dieter Pohl, Basel University  
Pavel Tomanek, Technical University of Brno  
Din Ping Tsai, Taiwan University

### ▶ TUTORIAL COURSE LECTURERS (Aug 29)

Bert Hecht, Principles of near-field optics and optical antennas  
(University of Würzburg)  
Olivier J.F. Martin, The numerical modeling of optical nanostructures  
(Swiss Federal Institute of Technology Lausanne)  
Volker Deckert, Practical aspects of near-field spectroscopy  
(University of Jena)  
Javier Aizpurua, Nanoantennas in field-enhanced spectroscopy and  
microscopy (Center for Materials Physics CSIC-UPV/EHU)

### ▶ ORGANIZATION

Xing ZHU, Peking University  
Jia WANG, Tsinghua University

<http://www.nfo11.pku.edu.cn>



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