3rd German-Japanese Seminar on Nanophotonics
Ilmenau, Germany, 26.-29.09.2010
Welcome Address

Dear Colleagues,

It is our great pleasure to welcome you all to the Third German-Japanese Seminar on Nanophotonics in Ilmenau. We are all looking forward to a very intense three-day conference with a densely-packed program consisting of about 40 oral presentations and 2 poster sessions. A total of 14 of these oral presentations will be given by our Japanese guests: We are particularly happy to welcome them here in Ilmenau! We think that for most of you this is your first visit to Ilmenau and we very much hope that it will not be the last one.

Our thanks also go to the German and European participants who accepted our invitation to present their outstanding research and together provide the other half of a dialogue between two national scientific communities leading in the field of nanophotonics.

The program covers an excitingly broad range of current topics in nanophotonics. The scientific program includes, e.g., the control and manipulation of light on the nanoscale, nano-lithography and materials processing, nano-optical information processing, nano-antennas, different aspects of plasmonics, light-matter interaction and carrier dynamics in nanostructures, ultrafast nanophotonics, to name just a few.

The "history" of this small binational seminar is quickly told. Some eight years ago, our colleague and friend, Professor Motoichi Ohtsu from the University of Tokyo, approached one us (CL) and brought up the idea to organize such a German-Japanese seminar. With a lot of financial help from the Deutsche Forschungsgemeinschaft and the Japanese Society for the Promotion of Science, we organized a small workshop in Berlin (March 17 – 19, 2003) and were overwhelmed by the enthusiastic responses that we received when announcing the workshop. Instead of the anticipated 30 people almost 70 scientists attended the meeting in Berlin and laid the foundation for a successful continuation of this binational seminar series. Four years later, our Japanese friends organized the follow-up seminar which was held in Yonago, September 24 – 28, 2007. We believe that all of the German participants were not only deeply impressed by the warm hospitality of our Japanese hosts but also by the profound interest and the strong competence in the field of nanophotonics in Japan. During a wonderful and memorable dinner, the other one of us (ER) agreed to host the next seminar in 2010. As a consequence, we now have to express our sincere gratitude to the members of the Theoretical Physics groups and the whole team from Ilmenau – in particular Dagmar Böhme – for all their efforts in preparing and organizing this workshop. THANK YOU on behalf of all participants!
Of course, we also want to thank all those organizations, specifically the DFG, JSPS and the Technische Universität Ilmenau, who supported this meeting.

While writing these lines, we looked up some of the old notes on the 2003 seminar. We wrote somewhere – probably in order to convince the DFG to support our workshop - that "Nanophotonics is an active and rapidly growing area of research, in which physicists, chemists and biologists aim at probing, understanding and manipulating light and matter on nanometer length scales using optical techniques. Light-matter interactions on the nanometer scale are a central issue in nanoscience and nanotechnology as optical techniques provide unique information about the structure, dynamics and function of solid-state, chemical and biological nanostructures." Looking at the program of the Third German-Japanese Seminar on Nanophotonics, we have the impression that today's nanophotonics research is at least as active as it was almost a decade ago. We are almost certain that nanophotonics will keep us and many other people busy for many more years to come.

At the time, Professor Ohtsu and ourselves also thought that "It is the aim of this symposium to bring together in particular Japanese and German scientists working on applications and theory of nano-optics to discuss recent developments and explore new research directions in this area. We attempt to stimulate lively discussions and to encourage scientific co-operations between the participating groups." We sincerely hope that the four days of this meeting will significantly contribute to reaching these aims. We very much hope that you all will enjoy some exciting and stimulating days in Ilmenau.

Christoph Lienau
Erich Runge
Program
(Small boldface: invited talks by Japanese guests, 30 min. incl. discussion; other invited talks: 20 min.)

Sunday, 26. September
17:00 Welcome Party

Montag, 27. September
08:30 – 09:00 Registration
09:00 – 09:30 Welcome Addresses
Representatives of the University
Co-Chair Program Committee
Lienau, Christoph Nanophotonics and ultrafast optics
Co-Chair Program Committee
Ohtsu, Motoichi Nanophotonics: Dressed photon science and technology
09:30 – 10:40 Session: Light
Kobayashi, Kiyoshi Excitation transfer and collective phenomena via optical near-field couplings and local environments
Kampfrath, Tobias Ultrafast manipulation of slow light in photonic crystals
Busch, Kurt Discontinuous Galerkin methods in nano-photonics
10:40 – 11:30 Coffee break
11:30 – 12:40 Session: Dynamics
Tamura, Hiroyuki Exciton dynamics in molecular aggregates mediated by electron-phonon coupling
Kienle, Diego Plasmon excitations at terahertz frequencies in carbon nanotube transistors
Förstner, Jens Simulation of the ultrafast nonlinear optical response of metallic nanostructures
12:40 – 13:30 Lunch
13:30 – 15:30 Session: Nanoparticles and Morphology
Rühl, Eckart Synthesis and characterization of nanoparticles for fundamental and applied research
Eisele, Dörthe Supramolecular origin and coupling of exciton transitions in highly uniform self-assembled double-walled dye nanotubes
Mawatari, Kazuma Micro and nano chemical systems on microchip and coupling with optical near field
Meixner, Alfred Nanometer scale optical imaging and spectroscopy: from molecular mono-layers to organic semiconductor
Okamoto, Toshihiro Second harmonic generation due to field enhancement in gold dimer on KTP
15:30 – 16:00  Coffee break / Poster A
16:00 – 17:40  **Session: Excitation transfer**

**Tate, Naoya**  
Hierarchy in nano-scale light matter interactions

**Axt, Vollrath Martin**  
Ultrafast dynamics and optical spin-control in single magnetic quantum dots

**Da Como, Enrico**  
Carrier relaxation in a single flake of bi-layer graphene probed by ultrafast spectroscopy

**Matsuda, Kazunari**  
Novel excitonic properties of nano-carbon materials

17:40 – 18:00  Short break
18:00 – 19:20  **Session: Material systems**

**Kitamura, Kokoro**  
Phonon-assisted visible light photocatalyst using ZnO nanostructure

**Sebald, Kathrin**  
Optical properties of wide-bandgap monolithic pillar microcavities

**Koshida, Nobuyoshi**  
Photonic and related functions of nanosilicon

20:00  Conference Dinner

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**Tuesday, 28. September**

08:30 – 10:30  **Session: Antennae and Networks**

**Nomura, Wataru**  
Long range optical excitation transfer based on optical near-field interactions between randomly distributed quantum dots

**Peschel, Ulf**  
Bringing light to the nanoworld using nanoantennas

**Fischer, Ulrich**  
Antenna structures for near-field optics and near-field optical microscopy

**Höppener, Christiane**  
Antenna-assisted fluorescence microscopy

**Naruse, Makoto**  
Energy dissipation in optical excitation transfer on the nano-scale: Its lower bound and optimal network for efficient transfer

10:30 – 11:00  Coffee break / Poster B
11:00 – 12:20  **Session: Plasmonics I**

**Hartschuh, Achim**  
Enhancing and localizing light-matter interactions using surface plasmons

**Goncalves, Manuel**  
Field enhancements at triangular metal nanostructures and their application in enhanced Raman scattering

**Zerulla, Dominic**  
Tailoring SPP propagation via topographic and magnetic nanostructures

**Ropers, Claus**  
Strong-field effects in metallic nanostructures

12:20 – 12:30  Conference picture
12:30 – 13:00  Lunch
13:00 – 14:50 **Session: Technology**

*Macro-Nano integration at the ZMN Technology Center of TU Ilmenau* (10 min)

- **Yatsui, Takashi**
  - In situ real-time monitoring of changes in surface roughness during phonon-assisted optical near-field etching

- **Polli, Dario**
  - Nanoscale imaging of the interface dynamics in polymer blends by femtosecond pump-probe confocal microscopy

- **Wollenhaupt, Matthias**
  - Shaped femtosecond laser pulses for nanoscale material processing and LIBS (laser-induced breakdown spectroscopy) detection

- **Miyazaki, Kenzou**
  - Nanostructure formation with periodically enhanced nearfield in femtosecond laser ablation

15:00 Excursion to Weimar/Erfurt

**Wednesday, 29. September**

08:30 – 10:30 **Session: Plasmonics II**

- **Haraguchi, Masanobu**
  - Gap plasmon waveguide

- **Eng, Lukas**
  - Tuning plasmonic/photonic antenna structures for nanophotonic applications from visible to IR wavelengths

- **Hecht, Bert**
  - Single crystalline gold nano structures for plasmonics

- **Rockstuhl, Carsten**
  - Large scale simulations in the realm of nanophotonics

- **Saiki, Toshiharu**
  - Localized surface plasmon of Au nanoparticles on active nanostructured substrates with high refractive indices

10:30 – 11:00 Coffee break

11:00 – 12:10 **Session: Control and logic elements**

- **Kawazoe, Tadashi**
  - Room temperature operated nanophotonic logic-gate using InAs QDs in mesa structures

- **Pfeiffer, Walter**
  - Ultrafast optical near-field control

- **Brixner, Tobias**
  - Coherent two-dimensional nanoscopy

12:10 – 12:30 Closing Session

12:30 Lunch / Departure

15:00 Guided tour: Ilmenau (Japanese guests only)
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