

JORCEP Workshop, Zhejiang University, Guangzhou, November 6, 2012

As every year JORCEP (The Joint Research Center of Photonics of the Royal Institute of Technology, Zhejiang University and Lund University) organized a workshop to report and discuss the results of on-going research in the cooperation projects as well as to explore new areas of collaboration and propose new collaboration projects. This year the workshop was organized at South China Normal University (SCNU) in Guangzhou, the university that is planned to join the JORCEP cooperation. For the second time ADOPT center sponsored its researchers participating in the meeting. The local organizing committee consisted of prof. Liu Liu, former PhD student and dr. Gabriel Somesfalean from Lund University. List of participants and the workshop program can be found in another document.

Sailing He, Director of JORCEP opened a morning session with a brief presentation of COER (Centre for Optical and Electromagnetic Research of Zhejiang University) with a broad spectrum of activities in Si photonics and biosensing. The following 7 presentations described research activities at South China Academy of Advanced Optoelectronics (SCAAO) including photonic hybrid integration, semiconductor single-photon sources, biophotonics and energy-related research. The presentation of SCAAO activities ended with lab visit.

Second, afternoon session was devoted to research activities and collaboration projects within JORCEP. Sune Svanberg from Lund Laser Center talked about applied multispectral imaging and remote sensing. In following Lars Thylen representing FMI KTH and HP Labs presented research on low power nanophotonics. Third speaker of this session, Liu Yang from ZJU described their activities in silicon nanophotonic integrated circuits followed by a guest from Politecnico di Milano, Alessandro Torricelli, who talked about noninvasive imaging of brain function and disease by pulsed near infrared light. In turn Stefan Andersson-Engels from Department of Physics, LU gave a talk about biophotonics research at Lund University. Last presentation before a coffee break was about a JORCEP plasmonic cooperation project, given by Lech Wosinski. He reported all the activities within the project during the present year.

In the session after the coffee break Qiuqiang Zhan from ZJU talked about optical bioimaging and biotherapy with help of multifunctional nanoparticles, Gabriel Somesfalean, LU described his work on gas in scattering media absorption spectroscopy, Lena Wosinska and Jiajia Chen, ONLab, KTH presented the lab and their recent results on inter-thread scheduling for LR-PON, and finally Liu Yang from Daoxin Dai's group at ZJU presented their work on plasmonics for efficient sunlight harvesting and photovoltaic solar cells.

The sessions were followed by discussion about present and future collaboration projects and plan for the further development of this joint research and education platform in Photonics. Striving for academic excellence and realization of synergies between research groups were expressed. The centre should also further promote Sino-Swedish academic collaboration (fostering student exchange, being a hub for interaction between researchers in related disciplines, creating partnerships with other leading groups) as well as industrial spin-off. Presently, both the Swedish and the Chinese government are emphasizing and supporting a stronger interaction in research, education and innovation, areas where JORCEP has long experience and could take a leading role.

The last activity in the workshop agenda was a common dinner

In conclusion: very interesting workshop.

Noted by Lech Wosinski