

Session I

- 13:30 Prof. Yi-Pai Huang, National Chiao-Tung University, Taiwan, China
Topic: 3D floating display with air-touch system
- 14:00 Prof. Qiong-hua Wang, Sichuan University, China
Topic: Two-view 3D displays
- 14:30 Prof. Jun Xia, Southeast University, China
Topic: Holographic 3D display with scalable Fourier transformation

15:00-15:30 Coffee break

Session II

- 15:30 Mr. Roger Hsu, Jasper Display, Taiwan, China
Topic: 4K LCoS 3D display application
- 16:00 Prof. Bin Hu, Beijing Institute of Technology, China
Topic: Basic problems in colorful 3D holographic display
- 16:30 Prof. Chaoping Chen, Shanghai Jiao Tong University, China
Topic: Holographic recording media for dynamic holographic display

17:00-17:30 Technical discussions

Workshop 5: Silicon photonics

Time: 13:30-18:20, Tuesday, 11 November
Venue: Room 5H

Organizers:



Prof. Lin Yang
Institute of Semiconductors, CAS, China



Prof. Zhiping Zhou
Peking University, China

Introduction:

Silicon Photonics, a technology using silicon as a material platform to develop optoelectronic devices, has drawn great attention in recent years due to its promise of cost-effective optoelectronic integration using existing, high-volume CMOS fabrication technology. The main drive for the rapid development of silicon photonics has been its application in energy-efficient, high-speed optical communications, optical interconnects and optical computing. In the past decade, major silicon photonic building blocks have been developed and proven viable for these high-speed applications. At the same time, other unique optical properties of silicon have been employed for biomedical sensing, nonlinear optics, as well as mid infrared applications. The silicon photonics market is expected to grow even fast in the next decade, however, many challenges still remain. This workshop is to provide a forum for international experts to present and discuss their vision, recent progresses, and future challenges of Silicon Photonics and its applications. A series of invited presentations, covering a variety of subjects, are scheduled for this half-day workshop in Shanghai, China.

Session I

- 13:30 Prof. Yasuhiko Arakawa, The University of Tokyo, Japan
Topic: Advances in silicon optical interposer with quantum dot lasers
- 14:00 Dr. Laurent Vivien, CNRS, France
Topic: Silicon photonics in 300 mm platform
- 14:30 Prof. Zhiping Zhou, Peking University, China
Topic: Low energy considerations in silicon photonics
- 15:00 Prof. Yongzhen Huang, Institute of Semiconductors, Chinese Academy of Sciences, China
Topic: Wavelength control and thermal management for multi-wavelength microlaser array bonded on SOI waveguide

15:30-15:50 Coffee break

Session II

- 15:50 Prof. Roel Baets, Ghent University-IMEC, Belgium

Topic: Spectroscopic sensing enabled by silicon photonics

- 16:20 Prof. Hon Ki Tsang, The Chinese University of Hong Kong, China
Topic: Progress towards polarization insensitive and wideband waveguide grating couplers
- 16:50 Prof. Yung Jui Chen, National Sun Yat-Sen University, China
Topic: Photon dynamics of micro-ring resonator
- 17:20 Prof. Lin Yang, Institute of Semiconductors, Chinese Academy of Sciences, China
Topic: Optical routers for photonic networks-on-chip
- 17:50 Prof. Sailing He, Zhejiang University, China
Topic: Silicon photonic crystal nanobeam cavities

Workshop 6: Hybrid nanophotonics: Photons meet electrons in the nano-world to push optical communication beyond terabit horizon

Time: 13:30-18:00, Tuesday, 11 November
Venue: Room 5E

Organizers:



Prof. Sergei Popov
KTH Royal Institute of Technology, Sweden



Prof. Ari T. Friberg
University of Eastern Finland, Finland

Introduction:

Plasmonics, subject dealing with simultaneous co-existence of collective electron oscillations and optical waves has demonstrated tremendous progress over recent decades. One of the most fascinating features of this field, capability to "pack" optical waves down to nano-sized spatial localization that is absolutely unattainable with

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Technical Program

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