

3rd Green Photonics Symposium at Technion

March 29-30, 2016

Auditorium 1003, Andrew & Erna Viterbi Faculty of Electrical Engineering

Tuesday, March 29th

9:15-9:30 Opening remarks

Session I Chairperson: Prof Gadi Eisenstein

9:30-10:15 **Mark A. Taubenblatt,**

IBM York Town Heights NY

"Fast Optical Circuit Switches for Next Generation Computing, Promise and Challenge"

10:15-11:00 **Elad Mentovich, Mellanox**

"Optical interconnect, what's next?"

11:00-11:15 Coffee Break

Session II Chairperson: Prof. Meir Orenstein

11:15-12:00 **Dieter Bimberg, TU Berlin**

"Energy efficient VCSELs for Green Computer Interconnects"

12:00-12:45 **Markus C. Amann, TU Munich**

"High-speed long-wavelength VCSELs and their arrays"

12:45-13:30 **Elyahu Kapon, École Polytechnique**

"Long-Wavelength Vertical Cavity Surface Emitting Lasers for Green Photonics"

13:30-14:30 Lunch Break

Session III Chairperson: Prof. Dieter Bimberg

14:30-15:15 **Ming C. Wu, UC Berkeley**

"Energy-Efficient Silicon Photonic Switches"

15:15-16:00 **Wolfgang Freude, Karlsruhe Institute of Technology**

"Optical modulators, network monitors, and high-speed wireless links: Towards OpEx and CapEx saving networks"

16:00-16:15 Coffee Break

Session IV Chairperson: Prof. Jesper Mørk

16:15-17:00 **Lars Zimmermann, IHP Germany**

"Monolithic photonic electronic integration in BiCMOS-technology for efficient optical links"

17:00-17:45 **Holger Schmeckebier, TU Berlin**

"Quantum-dot semiconductor optical amplifiers"

Wednesday, March 30th

Session V Chairperson: Dr. Holger Schmeckebier

9:30-10:15 **Eicke R. Weber, Fraunhofer ISE**

"Low-cost Harvesting of Solar Energy: the Future of Global Photovoltaics "

10:15-11:00 **Hoyeon I. Kim, KAIST**

"OLEDs on plastics: towards flexible and efficient real light sources"

11:00-11:15 Coffee Break

Session VI Chairperson: Hoyeon I. Kim

11:15-12:00 **Jesper Mørk, DTU Denmark**

"Low-energy and high-speed switches and lasers based on Fano effects in photonic crystals"

12:00-12:45 **Shaya Fainman, UCSD**

"Green Photonics with Nanolasers and Nanophotonics"

12:45-13:45 Lunch Break

Session VII Chairperson: Prof. Shaya Fainman

13:45-14:30 **Oliver Ambacher, Fraunhofer IAF Institute**

"Microelectronics for energy efficient mobile communication"

14:30-15:15 **Ran Ginosar, Technion**

"Interconnect challenges for Big data Machine Learning"

15:15-16:00 **Shahar Kvatinsky, Technion**

"Designing Extremely Energy Efficient Computers with Memristors"

16:00-16:15 Coffee Break

Session VIII Chairperson: Prof. Gadi Eisenstein

16:15-17:00 **Hyeon- Min Bae, KAIST**

"Plastic straw: Future of high speed signaling"

17:00-17:45 **Alex Fish, Bar Ilan University**

"Low voltage embedded memories"

For more information please contact

Mrs Pazit Savyon-Maram

Email: Pazits@physics.technion.ac.il, Tel: +972-4-8295037



Russell Berrie Nanotechnology Institute
Technion - Israel Institute of Technology
www.rbni.technion.ac.il



Deutsche Technion-Gesellschaft e.V.

RFs Reinhard Frank-Stiftung