
Date and Location

Date: March 30th and 31st, 2015

Location: Lecture Hall EW 201
Eugene-Wigner-Building
Technische Universität Berlin
Hardenbergstr. 33
10623 Berlin, Germany

Registration

Please register online at www.green-photonics-symposium.com or via email at registration@green-photonics-symposium.com (w/ full name and affiliation) until March 13th, 2015. The attendance of Green Photonics Symposium is free of charge. Please bring your ID.

Confirmed Speakers

Markus Amann, TU Munich
John Cunningham, Oracle
Yoav Etsion, Technion Haifa
Alexander Fish, Bar-Ilan University
Eby Friedman, Rochester University
Chris Kocot, Finisar
Avinoam Kolodny, Technion Haifa
Karl Leo, TU Dresden
James Lott, TU Berlin
Mario Martinelli, Politecnico di Milano
Bert Offrein, IBM Zürich
Carmel Rotschild, Technion Haifa
Johann P. Reithmaier, Kassel University
Holger Schmeckeber, TU Berlin
Klaus Streubel, OSRAM München
Rodney Tucker, Melbourne University
Eicke Weber, Fraunhofer ISE Freiburg
Eli Yablonovitch, UC Berkeley
Eitan Zahavi, Mellanox Yokneam

The symposium is organized by Professor Dieter Bimberg and Professor Gadi Eisenstein and is funded by the Reinhard Frank Foundation.

Invitation and Program

Green Photonics Symposium 2015

March 30th-31st, 2015

For further information visit:

www.green-photonics-symposium.com

- Energy problems in data-com systems
- Energy problems in computers: from systems to the chip level
- Advanced solar energy harvesting



In the framework of 50th anniversary of diplomatic relations between Israel and Germany.

Program

Monday, March 30th, 2015

9.30 am Session I

Opening and Ceremonial Act
(ID and previous registration obligatory)

Yakov Hadas-Handelsman,
Israeli ambassador to Germany

Dr. Benedikt Haller,
Foreign Office of Germany

Prof. Dr. Christian Thomsen,
President of Technische Universität Berlin

Prof. Dr. Peretz Lavie,
President of Technion Haifa

11.00 am Coffee Break

11.30 am Session II

Dieter Bimberg, TU Berlin, and
Gadi Eisenstein, Technion
Introduction

Eicke Weber, Fraunhofer ISE Freiburg
Novel Concepts for Highest-Efficiency Photovoltaic Energy Harvesting

Karl Leo, TU Dresden
Highly Efficient Organic Solar Cells

12.55 pm Lunch Break

1.45 pm Session III

Rodney Tucker, Melbourne University
Towards a Green Internet

Chris Kocot, Finisar
Photonic Technologies for Efficient Datacom Modules

Bert Offrein, IBM Zürich
Photonics for Datacenters: How to Go Green

Carmel Rotschild, Technion Haifa
On the Transition from Photoluminescence to Thermal Emission and its Implication on Solar Energy Conversion

4.00 pm Coffee Break

4.30 pm Session IV

Eby Friedman, University of Rochester
Distributed On-Chip Power Delivery for Low Energy Nanoelectronic Systems

Alexander Fish, Bar-Ilan University
Alternative Logic Families for Energy-Efficient, Fast and Secured Chip Design

Yoav Etsion, Technion Haifa
System-on-Chip or System of Chips?

6.00 pm Closing

Tuesday, March 31st, 2015

9.30 am Session V

Klaus Streubel, OSRAM München
The Future of Lighting

Eli Yablonovitch, UC Berkeley
Regenerative Thermo-Photovoltaics: a New Opportunity in Black-Body Science

Eitan Zahavi, Mellanox Yokneam
Green Data Centers

11.15 am Coffee Break

11.45 am Session VI

Holger Schmeckeber, TU Berlin
Quantum-Dot Optical Amplifiers for Energy-Efficient Optical Communication

Johann P. Reithmaier, Kassel University
Power Saving in Communication Applications by Nano-Structured Optoelectronic Components

12.45 pm Lunch Break

13.45 pm Session VII

James Lott, TU Berlin
Energy Efficient VCSELs: How we will reach the performance limits

Mario Martinelli, Politecnico di Milano
Opportunity and Challenge Offered by the Photon Total Angular Momentum in the Context of Green Photonics

Markus Amann, TU Munich
High-Speed Energy-Efficient Long-Wavelength VCSELs

13.15 pm Coffee Break

13.45 pm Session VIII

Avinoam Kolodny, Technion Haifa
Power Efficient System Architectures

John Cunningham, Oracle
Silicon Photonics for Scalable WDM Interchip Links for Systems

Gadi Eisenstein, Technion, and
Dieter Bimberg, TU Berlin
Concluding Remarks

5.00 pm Closing