

Morning Session 10:00-12:00

Opening remarks: Prof. Abraham Katzir, Tel Aviv University.

Education Panel | Chairman: Mr. Haim Rouso

Prof. Abraham Katzir, Tel Aviv University

Prof. Zeev Zalevsky, Bar-Ilan University.

Dr. Avi Karsenty, JCT.

Dr. Eli Eisenberg, Samuel Neeman Institute.

Mr. Dan Slasky, SCD.

Dr. Robert Sewell, ICFO.

Noon Session 13:00-15:00

**Quantum Technologies | Chairman: Dr. Amit Ben- Kish,
Dr. Abraham Gross**

Imaging | Chairman: Prof. Gabby Sarusi

13:00-13:10	Introduction: Quantum Technology, Overview and Challenges Dr. Amit Ben-Kish, Rafael	13:05-13:25	One Man's Noise is Another Man's Signal. Ayush Bhandari (Invited) Imperial College London, England
13:10-13:30	Quantum Computing with superconducting circuits and photons. Prof. Shay Hacohen-Gourgy, Technion	13:25-13:45	Thermal face recognition using synthesized visual faces. Oren Girshkin and Yitzhak Yitzhaky Ben-Gurion University of the Negev
13:30-13:50	Photonic, Fault-Tolerant, Quantum Computing. Prof. Barak Dayan, Weizmann Inst. of Science.	13:45-14:05	Hyperspectral imaging for food inspection and recycling applications. Valentin Regir, LLA-Instruments.
13:50-14:10	Photonic Quantum Memories. Prof. Ofer Firstenberg, Weizmann Inst. of Science	14:05-14:25	Deep Learning aided Compressive Imaging Prof. Adrian Stern, Ben Gurion University
14:10-14:30	Quantum Sensing with Nitrogen-Vacancy (NV) centers in Diamonds. Dr. Paz London, Rafael	14:25-14:45	High-speed 3D inspection with any industrial camera. Bernhard Blaschitz, AIT Austrian Institute of Technology.
14:30-14:50	Quantum Key Distribution at the Quantum Information Science Center (QISC) - Racah Institute of Physics. Dr. Simcha Korenblit, LightSolver LTD	14:45-15:05	Miniature Microscopes for Inspection and Bio-Med. Shai Eisenberg, Omek Optics Ltd.

Evening Session 15:30-17:30

Photonics in the Automotive | Chairman: Mr. Israel Lupa

Agriculture | Chairman: Dr. Victor Alchanatis

15:35-15:55	The use of automobile sensors in the development of the bionic eye for the blinds. Prof. Avi Caspi, Jerusalem College of Technology	15:35-15:55	Agricultural robotics. Prof. Yael Edan, Ben-Gurion University .
15:55-16:15	ADAS camera optical alignment and testing in mass production to meet requirements of tomorrow. Mr. Sebastian Frisch, Trioptics GmbH.	15:55-16:15	Nanostructured Optical Biosensors for Agropollutants Detection. Dr. Giorgi Shtenberg, The Volcani Center.
16:15-16:35	Completing autonomous vision at night in any weather. Dr. Ofer David, BrightWay Vision.	16:15-16:35	Implementing advanced statistical algorithms in order to relate spectral signatures to plant physiology reactions. Dr. Oded Liran, MIGAL- Galilee Research Institute
16:35-16:55	Fiber-optic Distributed Acoustic Sensing (DAS) - principles and limitations Prof. Avishay Eyal, Tel Aviv University	16:35-16:55	Spectral sensing of crops – high throughput phenotyping. Dr. Ittai Herrmann, The Hebrew University
16:55-17:15	Technical Considerations in choosing a sensor suit for Autonomous Vehicles. Mr. Gura Mantver, Elta Land Systems / Robotics Directorate.	16:55-17:15	Modular sensor front ends for AI based optimization of agricultural growth outdoor and indoor. Heinrich Grueger, Fraunhofer.