

International Day of Light 2019: young researchers conference

Location: building 51, room 015

Program

9:00-9:30	Welcome reception
9:30-9:40	Prof. Adrian Stern , Electro-Optics and Photonics Eng. Dep. Head
Session I	Chair: Prof. Adrian Stern
9:40-9:55	<u>Parry Yu Chen</u> <i>Lightning-fast solution of scattering problems in nanophotonics: an effortless modal approach</i>
9:55-10:10	<u>Angeleene Ang</u> <i>Tailoring the trapping potential of cesium atoms using nano-antennas of different shapes on waveguide</i>
10:10-10:25	<u>Ashish Prajapati</u> <i>Photon management utilizing deep-Subwavelength sidewall features in Nanopillar arrays for broadband absorption enhancement of the solar radiation</i>
10:25-10:40	<u>Daler Dadadzhyanov</u> <i>Surface Enhanced Near-IR Absorption (SENIRA) of Molecular Overtone Transitions with Gold Nanorods</i>
10:40-11:10	Coffee break
Session II	Chair: Prof. Gabby Sarusi
11:10-11:55	Keynote Presentation: Prof. Motti Segev , Technion <i>Topological Photonics</i>
11:55-12:10	<u>Vladislav Kravets</u> <i>Multiscale LiDAR compressive sensing with Russian dolls ordered Hadamard basis</i>
12:10-12:25	<u>Yaron Heiser</u> <i>Deep neural network for reconstruction of compressive sensing hyperspectral images</i>
12:25-12:40	<u>Saswata Mukherjee</u> <i>Non-Invasive imaging through a thin scattering layer using a SLM</i>
12:40-12:55	<u>Mani Ratnam Rai</u> <i>Resolution Enhancement of incoherent imaging systems using a phase-only spatial light modulator</i>
12:55-13:10	<u>Angika Bulbul</u> <i>Superresolution Far-Field Imaging by Annular Array of Coded Phase Apertures</i>
13:10-14:10	Lunch break + Poster session



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Session III

14:10-14:20

14:25-15:05

Chair: Prof. Amiel Yeshaya

KLA Price awarding

Dr. Avner Safrani,

Invited Talk: KLA Low Coherence Dual Interferometry System for Wafer Thickness Measurements

15:05-15:20

Eyal Yacoby

Studies at Ben-Gurion University of continuous wave diode pumped cesium and potassium lasers with gas circulation

15:20-15:35

Ilya Auslender

Experimental and theoretical studies of diode-pumped alkali lasers

15:35-15:50

Aviran Halstuch

Femtosecond inscription of tunable, narrow-band, and phase shifted fiber Bragg gratings

15:50-16:10

Coffee break

Session IV

16:10-16:25

Chair: Prof. Shlomi Arnon

Hadar Manis-Levy

Energy band alignment role of CBD grown PbS(Th,O)/CdS heterojunctions for PV SWIR detection

16:25-16:40

Chen Klein

Molecular-Reductant-induced-control of-a-Graphene Organic Interface for Electron injection

16:40-16:55

Ankit Chauhan

Near-field optical microscopy of silicon arrays composed of subwavelength light funnel arrays

16:55-17:10

Sarah Sowmya Priya Konedana

Light Funnel Arrays realized on Silicon-on-insulator

17:10-17:20

Prof. Adrian Stern

Concluding remarks

Registration is free but required via: <https://forms.gle/en31VjGUNPzY1Lqx9>

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13:15-14:15

Poster session

Lidor Kahana

Up-conversion MMW imaging system based on Glow Discharge Detector row attached to commercial contact image sensor

Kobi Aflalo

Yellow LASER for Eye Surgery

Oded Geffen

Developing a machine vision system for detecting laying hens

Moti Ben Laish

Ultra-wideband and inexpensive glow discharge detector for millimeter wave wireless communication based on upconversion to visual light

Israel Hory

Design and simulation of a chemical bio-sensor based on double ring resonator waveguide

Rudrarup Sengupta

A unique technology proposition on room Temperature THz detection with graphene on AlGaN/GaN HEMT

Yakov Greenberg

Silicon Mode Converters Based on Dielectric Metamaterial Waveguide

Shaul Shmilovich

Nano-satellite hyperspectral imager based on a wedge shaped liquid crystal for spectral multiplexing

Shimon Elkabetz

Frequency conversion from single nano-particles

Sum-frequency generation from touching dimer

Yosef Bivas

An optical frequency atomic clock: the most accurate machine ever built

Evyatar Rimon

Improving Power Conversion Efficiency of Organic Solar Cells by Integrating Grating Metasurfaces

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