

Monday April 1, 2019

08:00 - 09:00 *Coffee and Registration*

09:00 - 10:55 **Opening Session - Plenary Hall**

09:00 - 09:30 **Chairperson: Prof. Abraham Katzir, Chairman of Oasis 2019**

09:30 - 10:15 **Plenary Lecture:** Passion Extreme Light

Prof. Gérard Mourou, Nobel Prize Winner, École Polytechnique, Palaiseau, France

10:15 - 10:55 **Plenary Lecture:** Seeing the Unseen in Patients: Advancing Disease Prevention and Treatment through Microimaging

Prof. Guillermo Tearney, Mass General Hospital, Harvard University, MIT, Cambridge, MA, USA

10:55 - 11:25 *Coffee Break and Posters Review of Topics: Micro and Nano Optics, IFLA - International Fiber Lasers and Applications*

11:30 - 13:00 **Parallel Session 1**

Hall A	Hall B	Hall C	Hall D	Hall E
Optical Engineering <i>Dr. Hanni Inbar</i>	Lasers and Applications <i>Dr. Ariel Bruner</i>	Medicine and Biology <i>Prof. Dror Fixler</i> Sponsored by: Hamamatsu	Electro Optics in Industry <i>Dr. Rami Cohen</i>	IFLA: Specialty Fiber <i>Dr. Yoav Sintov</i>
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Photonics-Based Particle Acceleration Prof. Peter Hommelhoff , <i>Friedrich Alexander University Erlangen-Nuremberg, Germany</i>	Challenges in Further Power Scaling of Single-Mode Fiber Lasers Prof. Liang Dong , <i>Clemson University, USA</i>	Wide-field Time-correlated Single Photon Counting (TCSPC) for Fluorescence Lifetime Imaging (FLIM) Microscopy Prof. Klaus Suhling , <i>King's College London, UK</i>	Optimize Electro-Optics Mechanical Design for Additive Manufacturing Mr. Elad Yosef , <i>Elbit Systems-ISTAR, Israel</i>	Materials Development for Advanced Optical Fibers Prof. John Ballato , <i>Clemson University, USA</i>
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SWIR to Visible Up-Conversion Devices Development Prof. Gabby Sarusi , <i>Ben-Gurion University, Israel</i>	Femtosecond Pulse Generation by Using Single-Layer Graphene and Voltage-Controlled Graphene Supercapacitor Structures Prof. Alphan Sennaroglu , <i>Koç University, Turkey</i>	All Optical Monitoring of Cancer Treatment Efficiency with Overtone Absorption Spectroscopy on Microfibers with Random Surface Roughness Prof. Alina Karabchevsky , <i>Ben-Gurion University, Israel</i>	Embedded 3D Interconnects in Glass Substrates by a Combined Laser Trenching and Printing Process Mr. Yuval Berg , <i>Orbotech, Israel</i>	Image Transport through Glass-Air Disordered Optical Fiber Prof. Axel Schülzgen , <i>CREOL, USA</i>
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Non-Paraxial Fourier and Fresnel Optics in Design of Diffractive Optical Elements and Meta-Surfaces Prof. Michael A. Golub , <i>Tel Aviv University, Israel</i>	Axiparabola: A Long Focal Depth, High Resolution Mirror for Broadband High Intensity Lasers Mr. Slava Smartsev , <i>Weizmann Institute of Science, Israel</i>	Improved Photoacoustic Image Reconstruction of Clinical Data Dr. Idan Steinberg , <i>Stanford School of Medicine, USA</i>	State Of The Art Precision Metrology with Ultra-Low-Noise Optical Frequency Combs Dr. Benjamin Sprenger , <i>Menlo Systems, Germany</i>	Large Mode Area Fiber Designs for Megawatt Peak Power Generation in REPUSIL-Based Tapered Amplifiers Dr. Matthias Jäger , <i>IPHT, Germany</i>
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Joint Design of Optics and Post-Processing Algorithms Based on Deep Learning for Generating Advanced Imaging Features Mr. Shay Elmalem , <i>Tel Aviv University, Israel</i>	Micron Precision Assembly for Sensors and Laser Systems on a Reconfigurable Industrial Platform Mr. Tobias Mueller , <i>Fraunhofer Institute for Production Technology, Germany</i>	Advanced Fiber Optic Solutions for Biomed Photonics in 0.3-16µm Range Dr. Viacheslav Artyushenko , <i>Art Photonics GmbH, Germany</i>	Development of Thin Glass-based Technologies for Photonic System Integration Dr. Henning Schröder , <i>Fraunhofer IZM, Germany</i>	Mode Area Scaling Through a Multicore Supermode Fibre Prof. Seongwoo Yoo , <i>NTU, Singapore</i>
A K-Domain Method for Fast Propagation of Electromagnetic Fields through Graded-Index Media Ms. Huiying Zhong , <i>LightTrans International UG, Germany</i>	High Energy Tunable Narrow Bandwidth Tm:YAP Laser Dr. Salman Noach , <i>Jerusalem College of Technology, Israel</i>	Infrared Fiber-Optic Sensing Method for Early Detection of Melanoma and other types of Skin Cancer Mrs. Svetlana Basov , <i>Tel Aviv University, Israel</i>	Review on Free Form Optics: Advantages and Challenges Of An Emerging Technology Mr. Raginski Igor , <i>Rafael, Israel</i>	
		Automated Transscleral Laser Trabeculoplasty Dr. Zachary Sacks , <i>Belkin Laser Ltd., Israel</i>		

13:00 - 13:30 *Lunch Break*

13:30 - 14:00 *Poster Review of Topics: Electro Optics in Industry and Medicine and Biology*

14:00 - 15:30				
Parallel Session 2				
Hall A	Hall B	Hall C	Hall D	Hall E
Micro and Nano Optics Prof. Koby Scheuer	Atomic and Quantum Optics Prof. Barak Dayan	Medicine and Biology Prof. Dror Fixler Sponsored by: Hamamatsu	Start-up Session Ms. Salit Lev	IFLA: Mid-IR Fibers and Sources Prof. Amiel Ishaaya
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Kerr-Microresonator Solitons for Ultraprecise Measurements Dr. Scott Papp , NIST and University of Colorado, USA	Quantum-Dot Quantum Nanophotonics Prof. Nir Rotenberg , University of Copenhagen, Denmark	On-Chip Silicon Photonic Biosensors Prof. Sharon Weiss , Vanderbilt University, USA	Prof. Gabby Sarusi SenSWIR Dr. Yaakov Amitai Oorym	Silica-Based Hollow-Core Optical Fibres: A New Paradigm for the Mid-Infrared Prof. Jonathan Knight , University of Bath, UK
Parametrical Optomechanical Oscillations in Microbubble Resonators: Suppression, Enhancement and Route to Chaos Dr. Silvia Soria , IFAC-CNR Institute of Applied Physics "N. Carrara", Italy	Effect of Stokes Shift on Polariton Dynamics Prof. Jussi Toppari , University of Jyväskylä, Finland	+	Mr. Ran Bar-Yosef Spectralics Dr. Zachary Sacks Belkin Lasers Prof. Ibrahim Abdulhalim Photonicsys	Recent Advances in Mid-Infrared Fiber Lasers Prof. Real Valle , Laval University, Canada
Optomechanically-Driven Microstructures for Targeted Drug Delivery Applications Dr. Pavel Ginzburg , Tel Aviv University, Israel	Quantum Free-Electron Wavepacket Interactions with Light and Matter Prof. Avraham Gover , Tel Aviv University, Israel	Three Photon Adaptive Optics for in-vivo Mouse Brain Imaging. Dr. David Sinefeld , Cornell University, USA	Dr. Assaf Anderson MaterialsZone Mr. Ofer Harpak Oxitone Dr. Ilya Fine Elfi-Tech	+
Optical Skyrmions: A New Texture of Light Mr. Shai Tsesses , Technion – Israel Institute of Technology, Israel	Strong Coupling of THz Fields to Collective Molecular Vibrations Dr. Sharly Fleischer , Tel Aviv University, Israel	Imaging Tympanic Membrane Surface Vibrations - In Vivo Mr. Matan Hamra , Technion – Israel Institute of Technology, Israel	Dr. Dan Haronian Enervibe Prof. Yossef Ben-Ezra Cellowireless Dr. Cristina Canavesi LightTopTech	+
Spin-Locking In 2D and 3D Plasmonic Structures Dr. Yuri Gorodetski , Ariel University, Israel	Photonic Quantum Walks with Cyclic Geometry as Versatile Quantum Simulators Dr. Eliahu Cohen , Bar-Ilan University, Israel	Eye Tracking Control in Visual Prostheses Prof. Avi Caspi , Jerusalem College of Technology, Israel	Ms. Tovit Neizer Nano-Fabrica Mr. Eduardo Svetliza RetSight Mr. Itai Hayot Scopiolabs	
15:30 - 16:00				
Coffee Break and Posters Review of Topics: Non-Linear Optics and Lasers and Applications				

16:00 - 17:30

Parallel Session 3

Hall A	Hall B	Hall C	Hall D	Hall E
Micro and Nano Optics <i>Prof. Koby Scheuer</i>	Lasers and Applications <i>Dr. Ariel Bruner</i>	Spectroscopic and Optical Sensing <i>Dr. Ayala Ronen</i>	Non-Linear Optics <i>Dr. Haim Suchowski</i>	IFLA: Fiber Lasers and Applications I <i>Dr. Boaz Lissak</i>
Multifunctional Spectrally Interleaved Geometric Phase Metasurface Dr. Elhanan Maguid , Technion – Israel Institute of Technology, Israel	Progress in VECSEL Technology and Emerging Applications Prof. Mircea Guina , Tampere University, Finland	Atmospheric Optics: Beauty and Science Prof. Joseph A Shaw , Montana State University, USA	Quantum Design of Coherent X-rays with Spin and Orbital Angular Momentum Prof. Tenio Popmintchev , University of California San Diego, USA	Prospects in Power Scaling of Coherently Coupled Fiber Lasers and Amplifiers Prof. Andreas Tunermann , FSU, Germany
Guiding Surface Plasmon Polaritons on Curved Surfaces Mrs. Ana Libster-Hershko , Tel Aviv University, Israel	An Overview of the Israeli Consortium on Advanced Laser Technologies for Industrial Applications (ALTIA) Dr. Kobi Lasri , V-Gen Ltd., MKS Spectra-Physics, Israel	Accurate Synchronization of Spectrometers for Laser Induced Breakdown Spectroscopy Using New CMOS Sensors Dr. Thomas Rasmussen , Ibsen Photonics, Denmark	Loss of Time Reversibility in Absorption-Free Focusing Media Mr. Amir Sagiv , Tel Aviv University, Israel	Amplifiers and Lasers with Active Tapered Double Clad Fibers Prof. Valery Filippov , Ampliconix, Finland
Reconfigurable Semiconductor Metasurface Resonators Dr. Tomer Lewi , Bar-Ilan University, Israel	Optically Pumped Flip-Chip Wafer-Fused Vecsels Emitting at 1.55- μ m Wavelength Prof. Eli Kapon , Ecole Polytechnique Federale de Lausanne-EPFL, Switzerland	Design of an All-Optical Ultrasound Transducer Based on a Microcavity Resonator Dr. Silvia Soria , IFAC-CNR Institute of Applied Physics "N. Carrara", Italy	High Energy KGW/Tm:YLF Raman Laser Mr. Uzziel Sheintop , Jerusalem College of Technology, Israel	Beam Cleaning Effects in Multimode LD-Pumped GRIN-Fiber Raman Laser Prof. Sergey Babin , Novosibirsk State University, Russia
Non-Equilibrium Theory of "Hot" Electron Generation in Plasmonic Nanostructures under Illumination – Thermal vs. Non-Thermal Effects Dr. Yonatan Sivan , Ben-Gurion University, Israel	Towards Room Temperature Operation of Terahertz Quantum Cascade Lasers: Carrier Leakage Engineering as a Novel Design Concept Dr. Asaf Albo , Bar-Ilan University, Israel	NDIR Gas Measurement in Harsh Environments by Advanced IR Components and Packaging Technologies Mr. Steffen Biermann , Micro-Hybrid Electronic GmbH, Germany	Thermo-Optical Nonlinearity of Single Metallic Nanoparticle Dr. Ieng Wai Un , Ben-Gurion University, Israel	High Pulse Energy Single Frequency 1.55micron Fiber Amplifiers Dr. Shijin Jiang , AdValue, US
Optimization of Coupling Gratings for Lightguide-Based Displays Ms. Huiying Zhong , Friedrich-Schiller-Universität Jena, Germany	Micron-Scale Additive Manufacturing Using Laser Transfer of Metals Mr. Niv Gorodesky , Bar-Ilan University, Additive Manufacturing Lab, Orbotech Ltd, Israel	Measurements and Modeling of Laser Propagation in Fog and Clouds Dr. Ofer Yaron , RAFAEL, Israel	Indefinitely Switchable Nonlinear Optical Nanoantennas for Ultrafast Stream Cryptography Dr. Roman E. Noskov , Tel Aviv University, Israel	Robust Setup for Generation of High-Power CW Green Laser Dr. Yishai Albeck , Civan Ltd, Israel
Random Topological Defects-Induced Spin-Enabled Photonic Transport by Metasurfaces Dr. Bo Wang , Technion – Israel Institute of Technology, Israel		Application of Hyper-Spectral LIF-LIDAR Based on ICCD for Detection and Identification of Bio-Aerosol Clouds & Studying its Formation Dynamic Dr. Ofir Shoshanim , Israel Institute for Biological Research, Israel		

Tuesday April 2, 2019

08:00 - 09:00 Coffee and Registration

09:00 - 11:30 Opening Session - Plenary Hall

09:00 - 09:10 **Chairperson: Prof. Abraham Katzir, Chairman of Oasis 2019**

09:10 - 09:15 **Eng. Ehud Noff** - Chairman of AEAI - Association of Engineers, Architects and Graduates in Technological Sciences in Israel

09:15 - 09:55 **Plenary Lecture:** Recovering Lost Information in the Digital World

Prof. Yonina Eldar, Weizmann Institute of Science, Israel

09:55 - 10:35 **Plenary Lecture:** Gravitational-wave Interferometers: A Revolution in the Way We Observe the Universe

Prof. David Reitze, The LIGO Laboratory, Caltech, Pasadena, CA, USA

10:35 - 10:50 Coffee Break

10:50 - 11:30 **Plenary Lecture:** Landmarks in Quantum Optics: From Photons to Atoms

Prof. Alain Aspect, Institut d'Optique, Paris, France

11:30 - 11:50 Coffee Break and Posters Review of Topics: Atomic and Quantum Optics, Photonics in Defense, and Electro Optics Devices

11:50 - 13:20 Parallel Session 4

Hall A	Hall B	Hall C	Hall D	Hall E
Solar Energy <i>Prof. David Cahen</i>	Electro Optics Devices <i>Prof. Dan Marom</i>	Photonics in Defense <i>Dr. Joelle Schlesinger, Dr. Ami Yaacobi</i>	Optical Engineering <i>Dr. Hanni Inbar</i>	IFLA: Fiber Lasers and Applications I Fiber Lasers and Applications II <i>Dr. Zachary Sacks</i>
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Experimental Realization and Theoretical Understanding of High Open-Circuit Voltages in LeadHalide Perovskites Prof. Thomas Kirchartz , University of Duisburg-Essen, Germany	Highly Integrated Silicon Photonic Subsystems For Real World Applications Dr. Christopher Doerr , Acacia Communications, USA	Performance Assessment of Electro-optical Imagers: TRM4 Model and Imaging Simulation Dr. Stefan Kessler , Fraunhofer Institute of Optonics, System Technologies, and Image Exploitation IOSB, Germany	Transforming Optical Networks Design - Intelligent Networks in the Nonlinear Regime Prof. Polina Bayvel , University College London, UK	Unconventional High-Power Fiber Lasers for Improved Wavelength Coverage Prof. Johan Nilsson , University Southampton, UK
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Stability Studies of Perovskite PV Materials and Devices Using Concentrated Sunlight Dr. Iris Visoly-Fisher , Ben-Gurion University, Israel	The Multiple-Functionality of Double Injection Mr. Roei Cohen , Tel Aviv University, Israel	Quantification of Human Color Perception Applied in TRM Model for Range Prediction of Imaging Color Systems Dr. Ephi Pinsky , RAFAEL Advanced Defense Systems Ltd. Israel	Nonlinear Optical Holograms for Shaping of Light Beams Prof. Ady Arie , Tel Aviv University, Israel	Recent Developments in High Power Industrial Fiber Lasers Prof. Scott Christensen , IPG Photonics, USA
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Low Dimensional Perovskite: Stability, Solar Cells and Nanostructures Prof. Lioz Etgar , The Hebrew University of Jerusalem, Israel	Eight-Channel Dense-Wavelength-Division Multiplexer in Silicon Photonics Mr. Dvir Monk , Bar-Ilan University, Israel	New Devices and Materials for Infrared Detectors Dr. Philip Klipstein , Semiconductor Devices, Israel	Sub-Nanometer Overlay Metrology Dr. Yuri Paskover , KLA, Israel	Advanced Fiber Laser Design with Pulse-On-Demand for Next Generation Airborne Lidar Applications Dr. Doron Barness , VGen, Israel
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Photovoltaics for Internet of Things vs. Solar Power—the Optics Factor Mr. Barry Breen , 3GSolar Photovoltaics Ltd, Israel	Maxwell Fisheye for Integrated Optics Mr. Yaniv Blinder , Weizmann Institute of Science, Israel	Applications of High Power Lasers in the Battlefield Dr. Yehoshua Kalisky , Shamoon College of Engineering, Israel	Beam Shaping Based on Aspheres and Freeforms Mr. Stefan Klinzing , Asphericon GmbH, Germany	Multi KW, High Power Laser with Single Mode (SM) Dynamic Beam using Coherent Beam Combining (CBC) Dr. Benayahu Urbach , Civan Ltd., Israel
On Optimization of Heliostat Fields for Solar Central Receiver Plants Dr. Pinchas Doron , Azrieli College of Engineering, Israel	Complex Fiber Micro Devices Ms. Shir Shahal , Bar-Ilan University, Israel	Breaking Through the Atmospheric Barrier Dr. Daniel Golubchik , Rafael, Israel	Layout and Analysis of Fused Silica Precision Glass Molding Processes Mr. Tim Grunwald , Fraunhofer IPT, Germany	Fiber Optic Distributed Acoustic Sensing (DAS) Data Processing via Artificial Neural Networks Mrs. Lihi Shiloh , Tel Aviv University, Israel
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	Exploring 2.5 and 3D Integration to Meet the Bandwidth Density Challenge Dr. Oded Raz , TU/Eindhoven, Netherlands			

13:20 - 14:20 Lunch Break

13:50 - 14:20 Posters Review of Topics: Optical Engineering, and Ultrafast Phenomena

14:20 - 15:50					
Parallel Session 5					
Hall A	Hall B	Hall C	Hall D	Hall E	
Ultrafast Phenomena <i>Prof. Oren Cohen</i>	Non-Linear Optics <i>Dr. Haim Suchowski</i>	Photonics in Defense <i>Dr. Joelle Schlesinger, Dr. Ami Yaacobi</i>	Atomic and Quantum Optics <i>Prof. Barak Dayan</i>	IFLA: Ultrafast Fiber Sources and Related Applications <i>Prof. Zeev Zalevsky</i>	
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Spatiotemporal Dynamics of Optical Pulse Propagation in Multimode Fibers Prof. Frank Wise, Cornell University, USA	Opto-Mechanical Time-Domain Reflectometry Mr. Gil Bashan, Bar-Ilan University, Israel	Mission Ready Optics: Conquering Frontiers in Aerospace & Defense Contamination Control with First Contact Polymers Prof. James Hamilton, UW Platteville, USA	Quantum Photonics for Computer Security and other Applications Prof. Philip Walther, University of Vienna, Austria	Coherent Pulse Stacking Amplification – Extending Fiber Chirped Pulse Amplification by Two Orders of Magnitude Prof. Almantas Galvanauskas, University of Michigan, USA	
Self-Compressed Polarization Controlled Red Shifted Soliton from Supercontinuum for 1 μm CPA Systems Ms. Zaharit Refaeli, Soreq, Israel	Observation of Strong Nonlinear Interactions in Parametric Down-Conversion of X-Rays into Ultraviolet Radiation Mr. Or Sefi, Bar-Ilan University, Israel	Controlled Distortion for Optical-Equivalent Zoom Lens with No Moving Parts Mrs. Paula Roit, Rafael, Israel	New Frontiers for Light Storage at Room Temperature Dr. Ofer Firstenberg, Weizmann Institute of Science, Israel	The Myths, the Reality, and the Unexplored Potential of SESAM Technology for Mode-Locking Prof. Mircea Guina, Tampere University, Finland	
Interferometric Attosecond Lock-In Measurement of Extreme Ultraviolet Circular Dichroism Dr. Doron Azoury, Weizmann Institute of Science, Israel	THz Generation and Manipulation by a Nonlinear Metasurface Fresnel Zone Plate Mr. Eviatar Minerbi, Tel Aviv University, Israel	Lenses on Diet Dr. Oded Arnon, Applied Materials, Israel	Demonstration of a Two-Qubit Photon-Atom Gate and Engineering Quantum States of Light Mr. Ziv Aqua, Weizmann Institute of Science, Israel	Tailoring the Spectral Response in Fibers by Localized Fs Laser Modifications Prof. Stefan Nolte, FSU, Germany	
Two-photon Excitation of an Exciton-Polariton Condensate Mr. Nadav Landau, Technion – Israel Institute of Technology, Israel	Enhanced Frequency Doubling of High-Power CW Fiber Lasers in The Presence of Doubler Phase-Mismatch Through Injection of a Conjugate Seed Beam Dr. Steven Jackel, Civan, Israel	Bullet Speed System – Calibration Method Dr. Uri Maurice, QCC Hazorea, Israel	Quadrature Phase Detection in Atom Interferometry Mr. Chen Avinadav, Weizmann Institute of Science, Israel	Asynchronous Optical Sampling Technique for Pump-Probe Measurements Dr. Benjamin Sprenger, Menlo Systems, Germany	
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Revealing the Motion of Hybrid Light-Matter Excitations by Ultrafast Microscopy Dr. Tal Schwartz, Tel Aviv University, Israel	Stabilizing Soliton-Based Propagation in Nonlinear Optical Waveguide Loops by Frequency-Dependent Linear Gain-Loss and the Raman Self-Frequency Shift. Dr. Avner Peleg, Ort Braude College of Engineering, Israel	Photonic Integrated Interferometric Telescopes--- Scalable and High-Resolution Imaging with 2D/3D Integrated Photonic Chips Prof. S. J. Ben Yoo, UC Davis, USA	Squeezing-Enhancement of Stimulated and Spontaneous Raman Spectroscopy Mr. Yoad Michael, Bar-Ilan University, Israel	Megawatt Single-Mode Lasers Prof. Frank Wise, Cornell University, USA	
	Advantageous Hurdles in Rotational Echo Spectroscopy Mrs. Dina Rosenberg, Tel Aviv University, Israel				
15:50 - 16:20					
Coffee Break and Posters Review of Topics: Solar Energy and Spectroscopic and Optical Sensing					

16:20 - 17:50				
Parallel Session 6				
Hall A	Hall B	Hall C	Hall D	Hall E
Solar Energy <i>Dr. Iris Visoly-Fisher</i>	Spectroscopic and Optical Sensing <i>Dr. Ayala Ronen</i>	Electro Optics in Industry <i>Dr. Rami Cohen</i>	Electro Optics Devices <i>Prof. Dan Marom</i>	IFLA: Fiber Components <i>Prof. Amiel Ishaaya</i>
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Coupling "Regular" Quantum Dots with Lead Halide Perovskites Prof. Dan Oron , Weizmann Inst. of Science, Israel	Measuring the BRDF Optical Properties of Surfaces Dr. Dan Sheffer , IARD SENSING SOLUTIONS LTD, Israel	Optical Wafer Inspection Challenges – Optimizing Optical Configuration for Detection Mr. Tal Kuzniz , Applied Materials, Israel	Integrated Nanophotonics Technology and Applications Prof. Yeshaiahu Fainman , University of California, USA	Functionalized Micro-Nano-Fibres and Hybrid Photonic Crystal Fibres: The Role of New Materials Prof. George Kakarantzas , Theoretical and Physical Chemistry Institute, Greece
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Magnetism in Nominally Non-Magnetic Semiconductor Nanocrystals Prof. Efrat Lifshitz , Technion - Israel Institute of Technology, Israel	Toward UAV Based Compact Thermal Infrared Hyperspectral Imaging Solution for Real-time Gas Detection Identification and Quantification Dr. Stefane Boubanga Tombet , Telops Inc., France	Permanent USP Laser Marking of Stainless Steel Devices without Post-Processing Mr. Daniel Seitz , Coherent Munich GmbH&Co, Germany	Superconducting Light-Emitting Diode Mr. Shlomi Bouscher , Technion – Israel Institute of Technology, Israel	In-Fiber Speckle-Based Interferometry for Fabric Integrated, Non-Contact Bio-Sensor of Vital Signs Prof. Zeev Zalevsky , Bar-Ilan University Israel
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Luminescent Solar Power–Quantum Separation between Free-Energy and Heat For Cost-Effective Base-Load Solar Energy Generation Prof. Carmel Rotschild , Technion, Israel	Multispectral and Thermal Detection Methods for Finding Missing Persons Dr. Yishay Bruckental , Bar-Ilan University, IARD Sensing Solutions, Israel	Early Detection of Fires from Space Dr. Shimshon (Steven) Lashansky , Michael Gilichinsky and Yuval Erez , Elop, Elbit system, Israel	E-SWIR High Operating Temperature P-N Photodetectors Mrs. Inbar Shafir , Soreq, Israel	Water-Wave Lasers Prof. Tal Carmon , Technion – Israel Institute of Technology, Israel
Observing the Green Flash in the Laboratory Prof. Stephen Lipson , Technion – Israel Institute of Technology, and Ort Braude College, Karmiel, Israel	Snapshot Spectral Imaging Using Two Cameras, Optical Diffuser and Compressed Sensing Algorithms Mr. Jonathan Hauser , Tel Aviv University, Israel	Yb:YAG and Nd:YAG Crystals for High Energy DPSSL Dr. Karel Nejezchleb , Jana Precliková , Štěpán Uxa , CRYTUR, spol. s r.o., Czech Republic	Optical Gas Imaging Using Liquid Crystal Absorption Properties Dr. Karni Wolowelsky , Technion – Israel Institute of Technology, Israel	Improved Sensitivity and Spatial Resolution in Fiber Bragg Gratings Dynamic Strain Sensing System via Iterative Soft Thresholding Algorithm Mr. Roy Shen-Tzur , Tel Aviv University, Israel
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Photon Management Utilizing Deep-Subwavelength Sidewall Features in Nanopillar Arrays for Broadband Absorption Enhancement of the Solar Radiation Mr. Ashish Prajapati , Ben-Gurion University, Israel	Silver Halide Fiber Sensors with Surface Chemistry for Specific Protein Immobilization Using Infrared Evanescent Wave Spectroscopy Prof. H. Michael Heise , South-Westphalia University of Applied Sciences, Germany	The Recent Advances in Quantitative Imaging and Spectroscopy Instrumentation for EUV-SWIR Regime Mr. Ravi Guntupalli , Princeton Instruments, USA	Chip-Scale Metrology: Coupling and Interfacing Atoms, Kerr Frequency-Combs and Cavities, Dr. Liron Stern , National Institute for Standards and Technology, USA	High Resolution Heterodyne Measurement of Phase Shifted Fiber Bragg Gratings Dr. Garry Berkovic , Soreq, Israel
	Multi-Modal Fiber-Probe Spectroscopy for Tissue Diagnostics and Biological Fluid Sensing Prof. Francesco Pavone , LENS, Italy			

Key: + Invited/Keynote Speaker