

### 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 Parallel Session 1 11:30 - 13:00 Hall A Hall B Hall C Hall D Hall E Medicine and Biology Prof. Dror Fixler Sponsored by: Hamamatsu Optical Engineering Dr. Hanni Inbar Lasers and Applications Dr. Ariel Bruner Electro Optics in Industry Dr. Rami Cohen IFLA: Specialty Fiber Dr. Yoav Sintov Vide-field Time-correlated Single Optimize Electro-Optics Mechanical Design for Additive Manufacturing Mr. Elad Yosef, *Elbit Systems-ISTAR*, Materials Development for Advanced Optical Fibers Prof. John Ballato, Clemson Photonics-Based Particle Acceleration Prof. Peter Hommelhoff, Friedrich Challenges in Further Power Scaling of Single-Mode Fiber Lasers oton Counting (TCSPC) for orescence Lifetime Imaging (FLIM) Prof. Liang Dong, Clemson University, USA licroscopy Prof. Klaus Suhling, King's Colle Alexander University Erlangen-**Aicro** Nuremberg, Germany University, USA

+ SWIR to Visible Up-Conversion Devices Development Prof. Gabby Sarusi, Ben-Gurion University, Israel	+ Femtosecond Pulse Generation by Using Single-Layer Graphene and Voltage-Controlled Graphene Supercapacitor Structures <b>Prof. Alphan Sennaroglu,</b> Koç University, Turkey	+ All Optical Monitoring of Cancer Treatment Efficiency with Overtone Absorption Spectroscopy on Microfibers with Random Surface Roughness <b>Prof. Alina Karabchevsky</b> , <i>Ben-</i> <i>Gurion University, Israel</i>	Embedded 3D Interconnects in Glass Substrates by a Combined Laser Trenching and Printing Process <b>Mr. Yuval Berg</b> , <i>Orbotech, Israel</i>	+ Image Transport through Glass-Air Disordered Optical Fiber Prof. Axel Schülzgen, CREOL, USA
Non-Paraxial Fourier and Fresnel Optics in Design of Diffractive Optical Elements and Meta-Surfaces <b>Prof. Michael A. Golub,</b> <i>Tel Aviv</i> <i>University, Israel</i>	Axiparabola: A Long Focal Depth, High Resolution Mirror for Broadband High Intensity Lasers Mr. Slava Smartsev, Weizmann Institute of Science, Israel	Improved Photoacoustic Image Reconstruction of Clinical Data <b>Dr. Idan Steinberg</b> , <i>Stanford School of</i> <i>Medicine, USA</i>	State Of The Art Precision Metrology with Ultra-Low-Noise Optical Frequency Combs <b>Dr. Benjamin Sprenger</b> , <i>Menlo</i> <i>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>
Joint Design of Optics and Post- Processing Algorithms Based on Deep Learning for Generating Advanced Imaging Features <b>Mr. Shay Elmalem,</b> <i>Tel Aviv</i> <i>University, Israel</i>	Micron Precision Assembly for Sensors and Laser Systems on a Reconfigurable Industrial Platform Mr. Tobias Mueller, Fraunhofer Institute for Production Technology, Germany	Advanced Fiber Optic Solutions for Biomed Photonics in 0.3-16µm Range Dr. Viacheslav Artyushenko, Art Photonics GmbH, Germany	Development of Thin Glass-based Technologies for Photonic System Integration <b>Dr. Henning Schröder</b> , <i>Fraunhofer</i> <i>IZM, Germany</i>	+ Mode Area Scaling Through a Multicore Supermode Fibre Prof. Seongwoo Yoo, NTU, Singapore
A K-Domain Method for Fast Propagation of Electromagnetic Fields through Graded-Index Media Ms. Huiying Zhong, LightTrans International UG, Germany	High Energy Tunable Narrow Bandwidth Tm:YAP Laser Dr. Salman Noach, Jerualem College of Technology, Israel	Infrared Fiber-Optic Sensing Method for Early Detection of Melanoma and other types of Skin Cancer <b>Mrs. Svetlana Basov</b> , <i>Tel Aviv</i> <i>University, Israel</i>	Review on Free Form Optics: Advantages and Challenges Of An Emerging Technology <b>Mr. Raginski Igor</b> , <i>Rafael, Israel</i>	
		Automated Transscleral Laser Trabeculoplasty <b>Dr. Zachary Sacks</b> , <i>Belkin Laser Ltd.,</i> <i>Israel</i>		
Lunch Break				
Poster Review of Topics: Electro Optics in Industry and Medicine and Biology				

#### ASSOCIATION OF ENGINEERS, ARCHITECTS AND GRADUATES IN TECHNOLOGICAL SCIENCES IN ISBAEL

## International Conference and Exhibition on Optics and Electro-Optics

### 1-2 April 2019 David InterContinental Hotel Parallel Session 2

### 14:00 - 15:30

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

### ASSOCIATION OF ENGINEERS, ARCHITECTS AND GRADUATES IN TECHNOLOGICAL SCIENCES IN STRAL

# International Conference and Exhibition

on Optics and Electro-Optics

16:00 - 17:30

### 1-2 April 2019 David InterContinental Hotel Parallel Session 3

Hall A	На	all B	Hall C	Hall D	Hall E
Micro and Nano Optics Prof. Koby Scheuer	Lasers and Dr. Arie	Applications al Bruner	Spectroscopic and Optical Sensing Dr. Ayala Ronen	Non-Linear Optics Dr. Haim Suchowski	IFLA: Fiber Lasers and Applications I Dr. Boaz Lissak
Multifunctional Spectrally Interlea Geometric Phase Metasurface Dr. Elhanan Maguid, Technion – Institute of Technology, Israel	+ Progress in VECSE Emerging Applicatic Srael Prof. Mircea Guina University, Finland	L Technology and ons 1, <i>Tampere</i>	+ 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 Polarit Curved Surfaces Mrs. Ana Libster-Hershko, <i>Tel A</i> University, Israel	An Overview of the on Advanced Laser Industrial Applicatio <b>Dr. Kobi Lasri</b> , V-G Spectra-Physics, Isi	Israeli Consortium Technologies for Ins (ALTIA) Gen Ltd., MKS Irael	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 <b>Mr. Amir Sagiv</b> , Tel Aviv University, Israel	+ Amplifiers and Lasers with Active Tapered Double Clad Fibers Prof. Valery Filippov, Ampliconyx, Finland
Reconfigurable Semiconductor Metasurface Resonators <b>Dr. Tomer Lewi,</b> Bar-Ilan Univers Israel	Optically Pumped F Fused Vecsels Emit Wavelength ty, Prof. Eli Kapon, Ec Federale de Lausar Switzerland	ilip-Chip Wafer- tting at 1.55-µm cole Polytechnique nne-EPFL,	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 <b>Prof. Sergey Babin</b> , <i>Novosibirsk</i> State University, Russia
Non-Equilibrium Theory of "Hot" Electron Generation in Plasmonic Nanostructures under Illuminatior Thermal vs. Non-Thermal Effects Dr. Yonatan Sivan, Ben-Gurion University, Israel	Towards Room Ten of Terahertz Quantu Carrier Leakage En Design Concept <b>Dr. Asaf Albo</b> , Bar Israel	nperature Operation um Cascade Lasers: gineering as a Novel <i>Ilan University</i> ,	NDIR Gas Measurement in Harsh Environments by Advanced IR Components and Packaging Technologies <b>Mr. Steffen Biermann</b> , <i>Micro-Hybrid</i> <i>Electronic GmbH</i> , <i>Germany</i>	Thermo-Optical Nonlinearity of Single Metallic Nanoparticle Dr. leng Wai Un, Ben-Gurion University, Israel	+ High Pulse Energy Single Frequency 1.55micron Fiber Amplifiers Dr. Shibin Jiang, AdValue, US
Optimization of Coupling Gratings Lightguide-Based Displays <b>Ms.Huiying Zhong,</b> Friedrich-Scl Universität Jena, Germany	for Micron-Scale Additiv Using Laser Transfe Mr. Niv Gorodesky University, Additive Orbotech Ltd, Israel	ve Manufacturing er of Metals , Bar-Ilan Manufacturing Lab, I	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-Indi Spin-Enabled Photonic Transport Metasurfaces <b>Dr. Bo Wang</b> , Technion – Israel Institute of Technology, Israel	ced by		Application of Hyper-Spectral LIF- LIDAR Based on ICCD for Detection and Identification of Bio-Aerosol Clouds & Studding its Formation Dynamic <b>Dr. Ofir Shoshanim</b> , <i>Israel Institute for</i> <i>Biological Research, Israel</i>		

ASSOCIATION OF ENGINEERS, ARCHITECTS AND GRADUATES IN TECHNOLOGICAL SCIENCES IN ISRAEL



International Conference and Exhibition on Optics and Electro-Optics

1-2 April 2019 David InterContinental

on Op	tics and Electro-Opti	CS 🖉 🔹	David InterCont	inental Hotel			
	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. Abrahan	n Katzir. Chairman of Oasis	2019				
09:10 - 09:15	Eng. Ehud Noff - Chairman of A	AEAI - Association of Engineers,	Architects and Graduates inTech	nological 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 Revolut	ion in the Way We Observe the I	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'Op	otique, Paris, France					
11:30 - 11:50	Coffee Bi	reak and Posters Review of Topics:	Atomic and Quantum Optics, Phot	onics in Defense, and Electro Optic	cs Devices		
11:50 - 13:20			Parallel Session 4				
	Hall A	Hall B	Hall C	Hall D	Hall E		
	Solar Energy Prof. David Cahen	Electro Optics Devices Prof. Dan Marom	Photonics in Defense Dr. Joelle Schlesinger, Dr. Ami Yaacobi	Optical Engineering Dr. Hanni Inbar	IFLA: Fiber Lasers and Applications I Fiber Lasers and Applications II Dr. Zachary Sacks		
	+ 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 Optronics, System Technologies, and Image Exploitation IOSB, Germany	+ Transforming Optical Networks Design - Intelligent Networks in the Nonlinear Regime <b>Prof. Polina Bayvel,</b> University College London, UK	+ Unconventional High-Power Fiber Lasers for Improved Wavelength Coverage Prof. Johan Nilsson, University Southampton, UK		
	+ 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 <b>Mr. Roei Cohen</b> , Tel Aviv University, Israel	Quantification of Human Color Perception Applied in TRM Model for Range Prediction of Imaging Color Systems <b>Dr. Eph Pinsky</b> , <i>RAFAEL Advanced</i> <i>Defense Systems Ltd. Israel</i>	+ 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		
	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-Tencor, Israel	+ Advanced Fiber Laser Design with Pulse-On-Demand for Next Generation Airborne Lidar Applications <b>Dr. Doron Barness</b> , VGen, Israel		
	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 <b>Dr. Pinchas Doron</b> , <i>Azrieli College of</i> <i>Engineering, Israel</i>	Complex Fiber Micro Devices Ms. Shir Shahal, Bar-Ilan University, Israel	Breaking Through the Atmospheric Barrier <b>Dr. Daniel Golubchik</b> , <i>Rafael, Israel</i>	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		

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

Exploring 2.5 and 3D Integration to Meet the Bandwidth Density Challenge Dr. Oded Raz, TU/Eindhoven, Netherlands

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# International Conference and Exhibition

on Optics and Electro-Optics

David InterContinental Hotel Parallel Session 5

1-2 April 2019

14:20 - 15:50	Parallel Session 5				
	Hall A	Hall B	Hall C	Hall D	Hall E
	Ultrafast Phenomena Prof. Oren Cohen	Non-Linear Optics Dr. Haim Suchowski	Photonics in Defense Dr. Joelle Schlesinger, Dr. Ami Yaacobi	Atomic and Quantum Optics Dr. Barak Dayan	IFLA: Ultrafast Fiber Sources and Related Applications Prof. Zeev Zalevsky
	+ Spatiotemporal Dynamics of Optical Pulse Propagation in Multimode Fibers Prof. Frank Wise,, Cornell University, USA	Opto-Mechanical Time-Domain Reflectometry <b>Mr. Gil Bashan</b> , <i>Bar-Ilan University,</i> <i>Israel</i>	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 <b>Prof. Mircea Guina</b> , <i>Tampere</i> <i>University</i> , <i>Finland</i>
	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 <b>Mr. Eviatar Minerbi</b> , <i>Tel Aviv</i> 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 <b>Mr. Ziv Aqua</b> , 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, <i>Civan, Israel</i>	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
	+ 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 <b>Mrs. Dina Rosenberg</b> Tel Aviv University, Israel			

15:50 - 16:20

Coffee Break and Posters Review of Topics: Solar Energy and Spectroscopic and Optical Sensing

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# International Conference and Exhibition

on Optics and Electro-Optics 16:20 - 17:50 1-2 April 2019 David InterContinental Hotel Parallel Session 6

Hall A	Hall B	Hall C	Hall D	Hall E
Solar Energy Dr. Iris Visoly-Fisher	Spectroscopic and Optical Sensing Dr. Ayala Ronen	Electro Optics in Industry Dr. Rami Cohen	Electro Optics Devices Prof. Dan Marom	IFLA: Fiber Components Prof. Amiel Ishaaya
+ 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
+ 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 <b>Dr. Stefane Boubanga Tombet,</b> <i>Telops Inc., France</i>	+ 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 <b>Prof. Zeev Zalevsky</b> , Bar Ilan University Israel
Luminescent Solar Power–Quantum Separation between Free-Energy and Heat For Cost-Effective Base-Load Solar Energy Generation <b>Prof. Carmel Rotschild</b> , <i>Technion,</i> <i>Israel</i>	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 <b>Mr. Jonathan Hauser</b> , <i>Tel Aviv</i> <i>University, Israel</i>	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 <b>Mr. Roy Shen-Tzur,</b> <i>Tel Aviv</i> University, Israel
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 <b>Prof. H. Michael Heise</b> , South- Westphalia University of Applied Sciences, Germany	The Recent Advances in Quantitative Imaging and Spectroscopy Instrumentation for EUV-SWIR Regime <b>Mr. Ravi Guntupalli</b> , <i>Princeton</i> <i>Instruments, USA</i>	+ 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