THE 89TH ANNUAL MEETING OF THE ISRAEL CHEMICAL SOCIETY

SMOLARZ AUDITORIUM, TEL AVIV UNIVERSITY

SCIENTIFIC PROGRAM

DAY 2 FEBRUARY 11 , 2026

8:30-9:30	**Gathering and light breakfast**			
	Parallel sessions			
	Main Hall (1)	**Balcony (2)**	**South Hall (3)**	**North Hall (4)**
9:30-11:00	**Methodology and Catalysis in Organic Chemistry**	**Magnetic Resonance**	**Classic and Quantum Thermodynamics**	**Nanoscience and Nanotechnology**
	Chair: Doron Pappo, BGU	Chair: Michal Leskes, WIS	Chair: David Gelbwaser-Klimovsky, Technion	Chair: Fernando Patolsky, TAU
	Michael M Meijler, BGU *Synthetic Probes to Unravel Mechanisms Behind Coexistence within Microbial Ecosystems*	Ilia Kaminker, TAU *From Investigation of Polarization Transfer to Materials Insight: DNP Mechanisms Probe Diamond Defects Distribution*	David Gelbwaser-Klimovsky, Technion *Necessary conditions for the Markovian Mpemba effect*	Uri Banin, HUJI *Excitons & multiexcitons in quantum dot molecules*
	Roman Dobrovetsky, TAU *Mimicking Transition Metals with Structurally Constrained P III and Sb III Cations*	Sharon Ruthstein, BIU *Exploring oligomerization states of proteins in solution using EPR spectroscopy*	Oren Raz, WIS *Thermodynamic Geometry Near Phase Transitions*	Adi Salomon, BIU *Seeing Depth in Color: Optical Encoding of Nanometric Axial Distances*
	Anthony Cohen, ADAMA Ltd. *The development of an innovative route toward Prothioconazole at ADAMA*	Noam Shemesh, WIS *Correlation Tensor Magnetic Resonance as a probe of microstructure*	Haim Diamant, TAU *Relation between entropy and kinetics far from equilibrium*	Ernesto Joselevich, WIS *Enantioselective Guided Growth of Chiral Nanowires*
	Flash talks Anjali Soniwal , AU Batya Blank, WIS Keren Iudanov, BGU Michael Montag, WIS Omer Shaashua, BGU	*Flash talks* Ilia Moroz, WIS	*Flash talks* Tomer David Keidar, TAU Alon Krause, BIU Ido Avitan, Technion	*Flash talks* Achiad Goldreich, AU Elad Gaver, WIS Hagay Shpaisman, BIU Shai Kiriati, WIS Shir Abrahami Ben Harush, WIS
	Samer Gnaim, WIS *One-Electron Approach for Trans-Selective Alkyne Semi-Reduction via Cobalt Catalysis*	Amir Goldbourt, TAU *133Cs NMR as a tool to study and guide waste immobilization in geopolymers*		Ronit Satchi-Fainaro, TAU *Rewriting the Rules of 3D Tumor-Host Interactions with Precision Nanomedicine*
	Ori Gidron, HUJI *A Twisted Synthon for Inducing Helicity and Handedness in Nanographenes*	Amnon Bar Shir, WIS *Introducing Fluorine Metabolic Imaging (FMI) for "Multicolor" MRI Mapping of Redox Biomarkers in Health and Disease*		Raz Jelinek, BGU *Capacitance-based carbon dot photodetector*
11:00-11:30	Coffee break			
11:30 - 13:00	**Polymer and Supramolecular Chemistry**	**Light–Matter Interactions**	**From Lab to Market: The Chemistry of Tech-Transfer**	**Bioinorganic Chemistry**
	Chair: Charles Eliezer Diesendruck, Technion	Chair: Igal Levine, HUJI	Chair: Ronen Kreizman, RAMOT	Chair: Graham De-ruiter, Technion
	Roy Shenhar, HUJI *Toward bimetallic nanowires: Insights from the co-impregnation of block copolymer films*	Daniel Grave, BGU *The Role of Optical Transitions in Determining Carrier Yields of Metal-Oxide Photoabsorbers*	Ronit Goldberg, LipoSphere Ltd. *Redefining the Treatment Paradigm for Knee Osteoarthritis*	Sotiris Hadjikakou, UoI *Hybrid Metallodrugs Targeting Breast Tumor Cancer Proliferation*
	Yossi Weizmann, BGU *Photoswitchable latent monomers as a new paradigm for latency in metathesis polymerization*	Tal Schwartz, TAU *Nothing can do something: Manipulating Molecules by Tailoring the Electromagnetic Vacuum*	Rotem Brakin, TomGrow Ltd. *TomGrow: reinventing soil*	Ori Green, Technion *Aza-Wittig based Sensors for Imaging Cellular CO_2 Production*
	Shira Haber, BIU *Polymer Upcycling and Recycling: Insights from NMR Methodology*	Ron Tenne, Technion *Ultrafast spectroscopy at the single nanoparticle level*	Panel discussion Ronit Goldberg, LipoSphere Ltd. Ziv Kohav, ICL Ltd. Shoshi Mizrahi, RAMOT Itsik Bar-Nahum, ADAMA Ltd. Doron Shabat, TAU	Mindy Levine, AU *From Coordination to Color: Mechanistic Insights into Fluorophore- and Nanoparticle-Based Metal Ion Detection in Aqueous Media*
	Flash talks Alexander Laskavy, Volcani Arti Joshi, BGU Hadar Nasi, WIS Nir Lemcoff, BGU Ofer Burg, HUJI	*Flash talks* Michal Hartstein, WIS Anchal Vashishtha, BGU Paz Toledano, BIU Livin Paul, TAU Maya Levy Greenberg, WIS		Yuri Tulchinsky, HUJI *Formation and Reactivity of High-Valent Metal-Oxo Species Inside a Cavitand Pore*
	Ofer Reany, Open U *semiaza -Bambusurils as Versatile Macrocycles for Anion Transport and Sensing*	Sharly Fleischer, TAU *Ultrafast Triggering of Strong Coupling in a Semiconductor Terahertz Fabry-Pérot Cavity*		Daniella Goldfarb, WIS *Unlocking Gd(III) Anisotropy: Determining the Zero-Field Splitting Axes to Enhance Spin-Label Structural Analysis*
	Tamar Segal-Peretz, Technion *Synthesizing water filtration polymer membranes, one monolayer at a time*	Igal Levine, HUJI *Mapping the Energetic Defect Landscape of Pb-free HaPs Using Surface PhotoVoltage*		

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13:00-14:30	Lunch and poster			
14:20-14:30	Introducing Reaxys - Marta Da Pian, Elsevier GmbH (Main Hall)			
	Parallel sessions			
	Main Hall (1)	**Balcony (2)**	**South Hall (3)**	**North Hall (4)**
14:30 - 16:30	**Medicinal and Biological Chemistry**	**Translational Colloid Science: Bridging Materials, Medicine, and Agriculture**	**AI in Chemsitry**	**Energy**
	Chair: Muhammad Jbara, TAU	Chair: Guy Mechrez, Volcani	Chair: Barak Hirshberg, TAU	Chair: Hannah-Noa Barad, BIU
	Ashraf Brik, Technion *Synthetic Proteins Behind the Plasma Barrier: Molecular Spies*	Avi Domb, HUJI *Solid lipid nanoparticles for the delivery of lipophilic drugs*	Ekaterina V. Skorb, ITMO Univerity *AI-Driven Design of Biomimetic Interfaces: From Patterned Materials to Cellular Communication*	Michal Leskes, WIS *Tracking Lithium Dendrites and Solid Electrolyte Interphase Formation using Solid State NMR Spectroscopy*
	Moran Frenkel-Pinter, HUJI *Primordial Peptide Backbone Affects Assembly in Aqueous Solutions*	Dganit Danino, Technion *Engineered Alternative Casein Proteins for Drug Delivery*	Daniel Freedman, Genesis Molecular AI *A Theoretical Framework for an Efficient Normalizing Flow-Based Solution to the Electronic Schrödinger Equation*	Menny Shalom, BGU *Photocatalytic panels development for catalytic oxidation and reduction reactions*
	Ariel Afek, WIS *Chemical Decoding of Protein–DNA Recognition in Health and Disease*	Sivan Antler, TEVA Ltd *Pharmaceutical Formulations: From API to Therapeutic Impact*	Yohai Bar Sinai, TAU *Machine Learning the Entropy to Estimate Free Energy Differences without Sampling Transitions*	Ido Hadar, HUJI *Organic Spacer Control of Charge Transport and Luminescence in Mn-Doped 2D Perovskites*
	Gonen Ashkenasy, BGU *Mimicking Cyanobacteria Circadian Clock with Peptide Oscillators*	David Mocatta, ADAMA Ltd *Polymorphism in agrochemical formulations: A case study*	Ofir Lindenbaum, BIU *Interpretable deep learning for scientific discovery in chemistry*	Malachi Noked, BIU *On the Importance of Careful Electrochemical Analysis in Battery Performance Reporting*
	Flash talks Boaz Nutkovich, Technion Gal Raviv-Franco, WIS Miriam Gulman, BIU Shani Dvir, TAU Yuval Farchy, HUJI	*Flash talks* Men Guo, AU Yehonatan Levy, HUJI	*Flash talks* Yamin Ben-Shimon, TAU Sofia Blyufer, Technion	*Flash talks* Anat Itzhak, DTU Mydhili Varma, AU Or Ben Zion, WIS Roy Marrache, TAU Yuval Mualem, BIU
	Sigal Saphier, IIBR *From basic physicochemical studies to a unique in-vitro ADME array: toward the development of improved opioid antagonists*	Levi Gottlieb – RAFAEL Ltd *Burn Rate Enhancement by In-Situ Catalytic Metathesis Reaction*	Barak Akabayov, BGU *Combining NMR-fragment screening with AI-based cheminformatics to design small molecules targeting RNA for antibiotic development*	Charlotte Vogt, Technion *Emergent Interfacial Dynamics: Rethinking Catalysis for a Sustainable Energy Future*
	Doron Shabat, TAU *Unlocking the Barrier of Chemiluminescence in Water*	Lihi Adler Abramovich, TAU *Engineered Supramolecular Nanostructures for Tissue Regeneration*	Mark Sierka, FSU Jena *Interplay of Digitization and Simulation in the Quest for New Functional Materials*	Ahiud Morag, BGU *Reorganization of Mg Species Enables Cathode Electrochemistry*
			Ilya Kuprov, WIS *Neural nets in Magnetic Resonance: how do they actually work?*	Lena Yadgraov, AU *Highly selective photocatalytic degradation of organic pollutants by core-shell nanoparticles via superoxide radical pathway*
16:30-17:00	Plenary talk - Kira Radinsky, Diagnostic Robotics *Chemistry in the Age of AI: Designing, Predicting, and Discovering*			
17:00-17:30	Poster awards and closing remarks			