



THE 88TH ANNUAL MEETING OF THE ISRAEL CHEMICAL SOCIETY SCIENTIFIC PROGRAM

DAY 1 TUESDAY, FEBRUARY 18, 2025

08:00 - 09:00							
Registration Light Breakfast, Exhibition & Poster Mounting at Teddy Lounge							
10:12 Parallel Sessions		Main Hall	Oren 1	Oren 2	Oren 3	Oren 4	
		Organic & organometallic chemistry I Chair: Samer Gnaim (WIS)	Bio-organic & bio-inorganic chemistry Chair: Galía Maayan (IIT)	Physical chemistry Chair: Assaf Ben Moshe (BIU)	Energy & electrochemistry I Chair: Diana Goldnitsky (TAU)	Chemical education I Chair: Tamar Traube (BIU)	
Keynote 09:30	Moshe Portnoy (TAU) <i>Expanding the Span of Site Selectivity in Modifications of Amphiphilic Diols: from New Nucleophilic Catalysts to Amine Base Promoters</i>	Gary Gellerman (AU) <i>Antibody-driven sonodynamic therapy as a novel approach to target cancer</i>	Daniela Goldfarb (WIS) <i>From EPR spectroscopic methodology developments to exploring proteins in-cell</i>	Doron Aurbach (BIU) <i>The Challenge of High Energy Density, Safe, Durable Rechargeable Batteries: From Basic Science to Practical Devices</i>	09:30	Eyal Bittoun (Rafael) <i>A Chemical Journey into the World of Energetic Materials for Propulsion and Explosives</i>	
Invited 10:00	Zackaria Nairoukh (HUJI) <i>Enhancing Structural Complexity via Dearomative Functionalization of N-Heterocycles</i>	Bilha Fischer (BIU) <i>New School Approach for the Synthesis of Innovative Nucleosides and Cyclic Nucleotides</i>	Edward Bormashenko (AU) <i>Interaction of Magnetic Field with Diamagnetic Liquids</i>	Avner Rothschild (IIT) <i>Electrochemical and chemical cycles for decoupled water electrolysis</i>		10:00	David Eisenberg (IIT) <i>Science in Search of Meaning: YouTube and Tik Tok Adventures in Science Popularization</i>
Invited 10:15	Flavio Grynszpan (AU) <i>Bimanes as emerging tools for chemical sensing and molecular detection</i>	Muhammad Jbara (TAU) <i>Advancing Protein Editing for Basic Research and Biomedical Applications</i>	Yuval Shagam (IIT) <i>Searching for mirror symmetry breaking in chiral molecular ions</i>	Daniel Sharon (HUJI) <i>Addressing Anode Materials Instability in Rechargeable Aqueous-Based Batteries</i>			
10:30 - 11:00 Coffee Break & Exhibition at Teddy Lounge							
11:00-12:00 Parallel Sessions Continue		Gabriel Lemcoff (BGU) <i>How our attempts to put the Hoveyda catalyst to sleep with phosphites unexpectedly revealed a method for circumventing entropic barriers in chemical reactions</i>	Orestes Rivada Wheelaghan (Universidad de Sevilla) Spain <i>Solvent-induced oxidation state reversibility at a Cu₂ bioinspired complex</i>	Jordan Chill (BIU) <i>Probing conformational functionality with bioNMR under hydrostatic pressure</i>	Ayelet Tashakory (BGU) <i>Minute-Scale High-Temperature Synthesis of Polymeric Carbon Nitride Photoanodes</i>	11:00	Ayelet Shvalb (Afeka) <i>Developing Higher-Order Thinking Skills [HOTS1] through Infographics in Higher Chemistry Education</i>
Contributed 11:00	Yuri Glagovsky (IIT) <i>Heavy Group 14 enolates – the differences between their structures in solution and the solid states</i>	Anastasia Behar (IIT) <i>Peptoids as an Emerging Platform for Selective Copper Chelation in Alzheimer's Research</i>	Dvir Harris (IIT) (MIT) <i>Energetic robustness to large scale structural fluctuations in a photosynthetic supercomplex</i>	Kobby Saadi (BIU) <i>Nickel-Sulfide: Pioneer Electrocatalyst for aqueous Polysulfide/Bromine Redox Flow Battery</i>	11:15		Eitan Krein (Hemda) <i>A Celebration of Mini-Research at Different Levels: Adapting Experiments to Students' Abilities</i>
11:30 Flash talks	Mohamed Agbaria (HUJI)	Renana Schwartz (BIU)	Alon Krause (BIU)	Anna Sustonova (IIT)		11:30	Itzik Aroch (WIS) <i>GenAI for chemistry teaching – characterizing profiles of teachers' concerns</i>
11:35 Flash talks	Anna Vaisman (BGU)	Rawan Shahen (BGU)	Adi Lanton (Cohen) (WIS)	Suraj Pahar (IIT)	11:45		Noa Seri (HUJI) <i>From Paper to Poster: Empowering Students in Scientific Research Skills</i>
11:40 Flash talks	Alon Amir (BIU)	Shachar Bressler (BIU)	Amir Kleiner (WIS)	James Ebenezer (Ariel U)			
11:45 Flash talks		Gabriella Harel (BIU)	Ilya Olevsko (BIU)				
11:50 Flash talks		Subhomoj Das (BIU)	Guy Ohad (WIS)				
11:55 Flash talks		Sowmya Chivukula (HUJI)					
12:00-13:30 Lunch Break & Exhibition at Teddy Lounge							
13:00-13:30 ICS General Assembly - Main Hall							
13:00-14:30 Poster session A-1 to A-180 - Posters Area Oranim and Teddy Lounges							
14:30 - 17:00 Parallel Sessions		Main Hall	Oren 1	Oren 2	Oren 3	Oren 4	
		Organic & organometallic chemistry II Chair: Alex Szpilman (Ariel)	Medicinal Chemistry Chair: Eylon Yavin (HUJI)	Inorganic chemistry & catalysis Chair: Idan Hod (BGU)	Energy & electrochemistry II Chair: Hannah-Noa Barad (BIU)	Chemical education II Chair: Dorit Taitelbaum (MOE)	
Keynote 14:30	Mark Gandelman (IIT) <i>Novel Strategies for (Asymmetric Catalytic) Synthesis of Halo-organic Compounds</i>	Moran Shalev-Benami (WIS) <i>ICS Prize for Outstanding Young Scientist "Light Up the Dance Floor" - Cryo-EM Studies of Bestrophins Provide New Snapshots of Light-Based Activation Mechanisms</i>	Ira Weinstock (BGU) <i>Solution-State Chemistry of Polyoxometalate-Complexed Oxides</i>	Maya Bar-Sadan (BGU) <i>Innovative Phosphides for Enhanced Hydrogen Evolution and Alcohol Oxidation Reactions</i>	14:30	Hanoch Senderowitz (BIU) <i>Sustainable Agriculture: Computational Studies on Green Pesticides</i>	
Invited 15:00	Sebastian Kosuch (BGU) <i>Go with the flow: Understanding catalysis as a chemical flux through the energy span model</i>	Shai Rahimpour (BIU) <i>Targeting Aβ oligomers for early theranostics of Alzheimer's disease</i>	Sivan Refaely-Abramson (WIS) <i>Many-body effects on excited-state dynamics in 2D semiconductors</i>	Ilya Greenberg (BIU) <i>First-principles studies of activity and durability of molecular electrocatalysts</i>		15:00	Gregory Gershinsky (SNRC) <i>Nuclear Forensics</i>
Invited 15:15	Arkadi Vigalok (TAU) <i>Selective Reductive Elimination of Polar Bonds from a Pt(IV) Center: from Mechanistic Studies to Protein Bioconjugation</i>	Yifat Miller (BGU) <i>Unraveling the role and activity of neuropeptides in amyloidogenic diseases</i>	Ronen Gottesman (HUJI) <i>High Entropy Oxides for Photo- and Electrochemical Catalysis</i>	Brian Rosen (TAU) <i>Improved durability of Ti3C2Tx at potentials above the reversible hydrogen electrode by tantalum and hafnium substitutions</i>			
15:30 - 16:00 Coffee Break & Exhibition at Teddy lounge							
16:00-17:00 Parallel Sessions Continue		Roy Weinstain (TAU) <i>Visible-light activatable photoremovable protecting groups: From chromophores to applicable tools</i>	Barak Akabayov (BGU) <i>Molecular insights into DnaG primase inhibitors across pathogens</i>	Eynat Haviv (WIS) <i>Guest Transition Metals in Host Keplerate Nanocapsules as Inorganic Functional Mimics of Monooxygenase Enzymes</i>	Nicola Seraphim (IIT) <i>Emergent Phenomena in Porous Particles</i>	16:00	Chen Tuby (Upenat AMIT) <i>highschool chemistry - a topographic map or just a destination? ICS Prize for Excellence in Chemistry Teaching</i>
16:15 Contributed	Ofer Reany (OUJ) <i>Visible-light activatable photoremovable protecting groups: From chromophores to applicable tools</i>	Ayelet Rothstein (BIU) <i>Novel Drug Candidates for Glioblastoma Therapy</i>	Michael Montag (WIS) <i>Synthesis of β-ketosulfides from epoxides and thiols using an Acridine-PNP-Ru(II) pincer complex</i>	Philip Immanuel (Ariel U) <i>Heavy Group 14 enolates – the differences between their structures in solution and the solid states</i>	16:15		Debora Marchak (WIS) <i>Addressing Visual Literacy Skills through a Neuropedagogical Approach - Impact on Organic Chemistry Students' Achievements</i>
16:30 Flash talks	Eliav Marland (HUJI)	Omri Shelef (TAU)	Tomer Reuveni (TAU)	Yaakov Shitrit (BGU)		16:30	Iris Shinar (WIS) <i>High School Students' Understanding of Nature of Science: The Interconnection between Contemporary Research and Historical Stories</i>
16:35 Flash talks	Kartick Dey (IIT)	Shaul Cemal (BIU)	Sakthi Rajee (IIT)	Gayathri Peta (BIU)	16:45		Lea Fink (HUJI) <i>Guidelines and Examples for Developing Research Experiments for High School Students</i>
16:40 Flash talks	Shiv Kumar (TAU)	Miriam Gulman (BIU)	Kavya Vidyadharan (Ariel U)	Thierry Slot (IIT)			
16:45 Flash talks	Ido Domb (BGU)	Ella Livnah (WIS)	Yarden Lavi (WIS)	Tal Rosner (IIT)			
16:50 Flash talks		Maayan Lavie (WIS)					
17:00 - 17:30 Special Panel: Where Do Big Ideas Come From? - Main Hall Chair: David Eisenberg (IIT) Panelists: David Cahen , David Avnir & Lital Alfonta (BGU)							
17:30-18:10 Plenary Lecture - Efrat Lifshitz (IIT) - Main Hall The wondering land of spins in semiconductor nanostructures							
18:10-19:00 Reception - Teddy Lounge							
19:00 - 20:00 ICS Prizes ceremony, 2 Poster awards and closing remarks - Main Hall							

