

# IVS Student Conference

19 September 2024 | The David Lopatie Conference Centre  
Weizmann Institute of Science

📍 **Kimmel Hall, The David Lopatie Conference Centre**

📍 **Andrea's Room, The David Lopatie Conference Centre**

**8:30** ☕ **Gathering & Coffee**

**9:00** 🗣️ **Opening Remarks** | Dr. Sidney Cohen

**9:10-10:10 | Session 1 | Electrochemistry**  
**Session Chair:** Ido Biran

**Session 2 | Soft Matter and Biomaterials**  
**Session Chair:** Avital Wagner

9:10 **Tomer Reuveni** - Catalytic Fabrics via In-situ Growth of Metallic Nanoparticles within Porous Polymeric Microfibers

**Noam Pinsk** - From Fireflies to Crystals: Synchronization Transition in Hydrogen-Bonded Crystals

9:25 **Paz Stein** - Nitrate Reduction to Ammonia: Assessing the Electrocatalytic Activity of Cu-Based Structures

**Rachael Lynn Deis** - Genetic Control Over Biogenic Crystal Morphogenesis in Zebrafish

9:40 **Shiri Dishon** - On the Chemistry of Electrofreezing of Super-Cooled Water as Induced by an AI electrode

**Shashanka Indri** - Elucidating Guanine Crystallization Pathways

9:55 **Isaac Buchine** - Advanced Characterization of Alucone-Coated Silicon Anodes for High-Energy Lithium-Ion Batteries

**Lotem Alus** - Bio-Inspired Crystalline Core-Shell Guanine Spherulites

10:10 **Dr. Moshiel Biton** - Addionics: from PhD research to a successful startup  
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11:10 ☕ **Coffee Break**

**11:40-12:40 | Session 2 | 3D Printing and Functional Materials**  
**Session Chair:** Shir Andreev Batat

**Session 3 | Spectroscopy and Nanoscience**  
**Session Chair:** Noya Ruth Itzhak

11:40 **Gal Finkelstein-Zuta** - A Self-Healing Multispectral Transparent Adhesive Peptide Glass

**Mor Cohen Jungerma** - Unusually High Thermopower in Molecular Junctions From Molecularly Induced Quantized Two-Dimensional States in Their Semimetal Leads

11:55 **Ranu Satish Dhale** - Modulation of polyelectrolyte mechanical properties cast under external electrical fields

**Anna Lavie** - Alignment of Polarizable Elastic Dipoles Determines Anelastic and Electrostrictive Behavior of Aliovalent-Doped Ceria

12:10 **Michal Levin** - Exploiting 3D-printing to Measure Swelling-Induced Stress of Gels Under Constraints

**Dekel Nakar** - Three-Photon Cascaded Emission From Triexcitons in Giant CsPbBr<sub>3</sub> Quantum Dots At Room Temperature

12:25 **Ofir Shelonchik** - Light-induced MOF Synthesis Enabling Composite Photothermal Materials

**Guy Ohad** - Accurate Solid-State Electronic and Optical Excitations From Non-Empirical (Time-Dependent) Density Functional Theory

12:40 🖨️ **Poster Viewing & Lunch**

**14:00 CV workshop** | **Hila Golshan** | Senior HR Recruiter at Zota & Poster Viewing  
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**15:00-15:45 | Session 5 | Thin Films and 2D Materials**  
**Session Chair:** Avital Wagner

**Session 6 | Biomedical Materials**  
**Session Chair:** Tal Binyamin

15:00 **Amir Kleiner** - On The Complexity of Excitons At The TMD-Graphene Interface

**Xiaoling Lin** - Development of plant protein-based nanoparticles for the delivery of coenzyme-Q10

15:15 **Dana Cohen-Gerassi** - Conductive Peptide-Based MXene Hydrogel as A Piezoresistive Sensor

**Gabriel Petresky** - Near-Infrared Optical Fingerprinting Sensors Selection for Metal-ion Classification

15:30 **Bar Favelukis** - Without a Grain of Salt: Facile Micropatterning for Clean MXene Thin-Film Electronics

**Yarden Nahmias** - Inhibiting Pathological Calcium Phosphate Mineralization: Implications for Disease Progression

**15:45** ☕ **Coffee Break & Poster Viewing**

**16:10** 🗣️ **Panel Discussion About Different Career Paths**  
**Panel Host:** Amir Gildor  
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**Keren Regev** | Co-Founder and CTO of Polyfos 3D

**Dr. Leeya Engel** | Assistant Professor, Technion Israel Institute of Technology

**Dr. Shira Rosencwaig** | Head of the National Public Health Food Laboratory

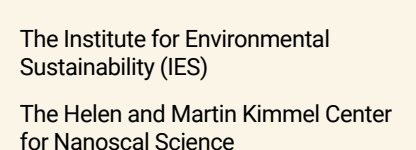
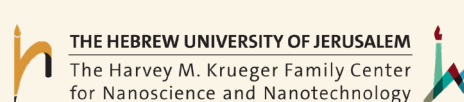
**Michal Khenkin** | Head of Chemistry, Tomgrow

**17:15** 🎉 **Presentation of Poster Awards & Rosh Hashana Happy Hour**

## ORGANIZING COMMITTEE

**Noya Ruth Itzhak** | Weizmann Institute of Science  
**Avital Wagner** | Ben-Gurion University of the Negev  
**Tal Binyamin** | Hebrew University of Jerusalem  
**Ido Biran** | Tel-Aviv University  
**Shir Andreev Batat** | Tel-Aviv University  
**Srijith** | Bar Ilan University  
**Amir Gildor** | Technion - Israel Institute of Technology

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