

The Israeli Math, Computer & Natural Science Education Student Forum



June 7
2026



The David Lopatie Conference Centre
Weizmann Institute of Science

08:30 Reception

09:00 Opening

09:10 Plenary session

Cross-cutting and interdisciplinary studies

Tamara Dawud, University of Haifa
From Homeostasis to Uniform Motion: Mapping Student Challenges in Dynamic Equilibrium

Jardena Portman, Technion Israel Institute of Technology
How does Social-media-based Science Communication Affect Young Audiences? A Scoping Review of Impact Making

Licol Zeinfeld, Weizmann Institute of Science
Identifying Items on Which Humans and Chatbots Diverge Using Differential Item Functioning

Remah Haj, Technion Israel Institute of Technology
From Confusion to Curiosity: Epistemic Emotions Across the SSIDC Learning Pathway

10:20 Coffe break

10:50 Parallel session 1

10:50 **Teacher’s professional development through discourse and interaction**

Roni Jutkowitz, The Hebrew University of Jerusalem
Preparing for Peer-Led Productive Professional Discourse Around Classroom Video: In- and Pre-Service Teachers

Rima Zgaier-Araidy, Weizmann Institute of Science
Productive Pedagogical–Mathematical Discourse: An Illustrative Case of Discussing the Concept of Estimation

Myriam Goor, Weizmann Institute of Science
Dialogical Learning Across Disciplinary Boundaries in School–University STEM Collaborations

Dina Bartov, Weizmann Institute of Science
Integrating Mathematics into Middle-School Biology Lessons: Teachers' Pathways to Change

10:50 **Innovative representations and digital resources**

Asmaa Atrash-Ganayem, Ben-Gurion University of the Negev
Concreteness of Ionic Solution, Osmosis and Precipitation Reaction Concepts Among 10th Grade Chemistry Students

David Burstein, Tel Aviv University
Intuitive Interference in Proportional Reasoning: The Function of Representation and Instruction

Michal Elran, Weizmann Institute of Science
Teacher Learning and Professional Growth Through Engagement with PeTeL-M

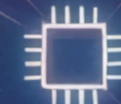
Dr. Zuzana Osifová, Weizmann Institute of Science
NMR-Challenge.com: Shape Your Skills in NMR Assignment

12:00 Lunch



WEIZMANN
INSTITUTE
OF SCIENCE

Department of
Science Teaching



Organizing Committee

Dr. Adva Shemi
Dr. Dan Klein
Department of
Science Teaching

Conference Coordinator & Accessibility Issues

Paula Shalom
paulal@weizmann.ac.il

Registration



[Click here >](#)

We are no longer accepting abstract submissions, but registration is still open

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12:45 Parallel session 2

12:45 ➡ Out of field, novice teachers, and novel curriculum

Rachel Perlman, Technion Israel Institute of Technology
Teacher Preparation from Diverse Disciplinary Backgrounds for Computer Science Teaching

Natasha Segal, Weizmann Institute of Science
Making Sense of Instructional Reform: Teacher Dilemmas and Instructional Profiles

Mayssa Hayeen-Halloun, University of Haifa
A Model for Characterizing Critical Events in Teacher Education: Novice Mathematics Teacher-Educators' Noticing

Dr. Sorynah Sabbah, Weizmann Institute of Science
Navigating Competing Demands in the Facilitation of a Mathematics Teacher Community

12:45 ➡ Thinking in different contexts

Shira Passentin, Weizmann Institute of Science
Centering Student Voices on Grand Challenges: A Cross-National Study

Karen Waskewitz, Weizmann Institute of Science
Shifting between Scientific and Narrative Reasoning

Gilat Falach, Tel Aviv University
Accumulative Thinking and Accumulation Functions: Building Meaning for the Integral Through Extra-mathematical Context

13:55 ☕ Coffe break

14:20 Parallel session 3

14:20 ➡ Assessment in the GenAI era

Tagil Perlmutter, Tel Aviv University
Developing Multivariate Graph Literacy in Dynamic Inquiry-Based Environments

Yael Schleifer, Weizmann Institute of Science
How Chemistry Teachers Navigate GenAI-Based Assessment of Critical Thinking: Considerations, Tensions, and Professional Decision-Making

Malki Van Dijk, Weizmann Institute of Science
Students' Engagement with Argumentation in Mendelian Genetics: Two-Dimensional Automated Assessment

Gilad Zohar, Weizmann Institute of Science
Designing Diagnostic-Dialogic Chatbot Activities: Integrating Generative AI in Physics Peer Dialogue

14:20 ➡ Learning outside of the classroom

Hagai Zeira, Technion Israel Institute of Technology
Guiding Students On the Fly in a Chemistry-Based Educational Escape Room: Types of Guidance and Content Aspects

Liz Lugasi, Weizmann Institute of Science
One Role, Different Approaches: Near-Peer Support for Undergraduates Coping with Mathematics Difficulties

Dr. Oshra Aloni, Weizmann Institute of Science
Online Learning for Personalized Climate Education: Advancing Students' Knowledge and Pro-Environmental Action

Hila Cohen, Ben-Gurion University of the Negev
Digital Pre-Lab Modules to Reduce Cognitive Load and Boost Self-Efficacy in Chemistry Labs

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