

# כנס לציון 40 שנה למחלקה להוראת המדעים

## Conference for the 40<sup>th</sup> Anniversary of the Department of Science Teaching

### Posters of Graduate Students Postdoctoral Fellows & Recent Graduates

#### POSTER SESSION I

13:00 – 14:00 , Wix Auditorium

Session A: *Professional Development of Teachers* – First Level

Chairperson: **Dr. Esther Bagno**

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| Hana Berger      | An “Evidence-Based” professional development program for physics teachers focusing on knowledge integration                            |
| Liora Bialer     | Teacher evidences on the instruction of learning skills for science as a basis for continuous professional development                 |
| Dorit Taitelbaum | Promoting discourse between chemistry teachers who teach Inquiry-type experiments in school laboratory                                 |
| Rachel Cohen     | The practical aspects of implementing the living cell topic as a longitudinal axis in junior- high schools                             |
| Elisheva Cohen   | “I Like These Problems But I Can’t Use Them on My Test”: How Instructors Lower the Bar for Student Performance                         |
| Osnat Eldar      | Collaborative diagnosis of scientific and pedagogical conceptions  |
| Orna Fallik      | Teacher intervention as a tool for bridging the gap between formal and informal science and technology education: The “KamatZ” program |

Session B: *Learning and Instruction (I)* – Second Level

Chairperson: **Dr. Rachel Mamlok-Naaman**

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| Malka Yayon          | How do high school students develop an understanding of chemical bonding as guided by the new Israeli curriculum in chemistry? |
| Dana Vedder<br>Weiss | Characterizing environmental factors that influence students’ motivation to learn science in and out of school                 |
| Tiruwork Mulat       | Elements of success in mathematics among students of Ethiopian origin  |
| Michal Ayalon        | Argumentation and school mathematics   |
| Dvora<br>Katchevich  | Researching the inquiry-based chemistry laboratory for the enhancement of cognitive and meta-cognitive skills                  |
| Shulamit Kapon       | A study of translated scientific explanations (TSE): Utilizing public scientific lectures in teaching contemporary physics     |
| Iyad M. Dkeidek      | Inquiring about the inquiry laboratories in chemistry in Arab high schools in Israel   |
| Tami Levy<br>Nahum   | Developing a new teaching approach for the Chemical Bonding concept aligned with current scientific and pedagogical knowledge  |

## POSTER SESSION II

14:05 – 15:05 , Wix Auditorium

### Session C: *Learning and Instruction (II)* – First Level

Chairperson: **Dr. David Fortus**

- Rivka Taub      The effect of ‘Computer Science Unplugged’ activities on middle school student’s attitudes towards computer science
- Roni Mualem      Junior high school physics: A new approach for qualitative explanation of phenomena
- Zvi Arica      ”Physics & Industry”: Development and study of a model for promoting excellence among under-achieving students
- Daphna Mandler      Environmental Chemistry: Research into a context-based learning approach
- Hadas Gelbart      The use of bioinformatics tools for teaching genetics via inquiry
- Carmit Cohen      Design based research of an oceanography course for high school earth sciences students

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### Session D: *Learning Environments* – Second Level

Chairperson: **Dr. Alex Friedlander**

- Hila Lernau      The influence of learning in the outdoor setting on knowledge and attitudes of elementary school students
- Hagit Yarden      Learning biotechnological methods using interactive animations: Students’ comprehension and conceptual status
- Hedda Falk      Characterizing the enactment of adapted-primary-literature based high-school biotechnology curriculum
- Eilat Hasson      Will separating the methodology from the research question help promoting students’ inquiry skills?
- Ayelet Weizman      The Planetarium as an Outdoor Learning Environment
- Michal Stolarsky      Students and teachers benefits and challenges in Teacher-Led Outreach Laboratories  
Ben-Nun      (TLOL) in contemporary biology
- Marcel Frailich      The Influence of Web-based chemistry learning on students’ perceptions, attitudes, and achievement

