



Science and Mathematics Learning Technologies in Education: Innovation and Pedagogical Aspects

March 26, 2018 | Weizmann Institute of Science



09:00 Registration and Refreshments

09:00-09:15 Greetings

Prof. Anat Yarden, Weizmann Institute of Science

09:15-10:15 Opening Session

Prof. Gail Jones, NC State University

Keynote lecture: Presence, Development and Visualization: Learning Science with Haptic and Virtual Reality Technologies

10:15-10:35 Coffee Break

10:35-11:45 Parallel Sessions

Chair: **Ella Yonai**, Weizmann Institute of Science

Experiences from the classroom: Tangram-based puzzle as a tool for developing geometric thinking

levels in a technological and tangible environments

Huda Shayeb and **Michal Tabach**, Tel-Aviv University

Visual skills and their importance in teaching and in online exams in biology

Rivka Misgav, Biology moderator and MSc student in The Rothschild-Weizmann Program

Learning Genetics on the Fly: Interrelating Three Conceptual Models in Genetics

Michal Haskel-Ittah, Weizmann Institute of Science & Rutgers, The State University of New Jersey

Anat Yarden, Weizmann Institute of Science

10:35-11:45 Chair: Emil Eidin, Weizmann Institute of Science

Chemical Education Workshop: Experiencing Molecular Models of Matter

Sharona T. Levy, University of Haifa

Elon Langbeheim, Weizmann Institute of Science

Sigal Samon, Asnat Zohar and **Janan Saba**, University of Haifa

10:35-11:45 Chair: Yael Feldman-Maggor, Weizmann Institute of Science, The Open University of Israel

Innovation in learning technology: Educational Data Mining for Analytics and Adaptivity in Online Learning Environments

Giora Alexandron, Weizmann Institute of Science

Cultivating Perspective Taking through Game Making

Minducate Center for the Science of Learning

Gidi Dishon, Tel Aviv University

Ecological learning of a foreign language in a virtual reality environment

Orly Fuhrman, The Center for Educational Technology

11:45-12:30 Panel: Scientific online courses in the eyes of participating students

Chair: **Rachel Rosanne Eidelman**, Weizmann Institute of Science

12:30-13:30 Lunch Break

13:30-14:15 Parallel Sessions

Chair: **Gil Schwartz**, Weizmann Institute of Science

Workshop: Mathematic Education Research

Perimeter - More Points of View

Gali Shimoni, Israel Center for Excellence through Education

13:30-14:15 Chair: Ohad Levkovich, Weizmann Institute of Science

Workshop: Online modeling tool Using a free Online Modeling Tool

Tom Bielik, Michigan State University

14:15-15:15 Closing session

14:15-15:00 Avi Warshavsky, MindCET CEO

Startup, Evolution and the Future of Education: Educational Technological Entrepreneurship

15:00-15:15 Summary

The conference was organized by research students from the department of science teaching with support of the academic staff

Organizing Committee

Yael Feldman-Maggor
Weizmann Institute of Science
The Open University of Israel

Asaf Bar Yosef
Weizmann Institute of Science

Ella Yonai
Weizmann Institute of Science

Emanuel Eidin
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