



המרכז לחקר חדשנות בטכנולוגיות למידה  
Research Center for Innovation  
in Learning Technologies



**Learning in the Technological Era:  
The 11th Chais Conference  
for the Study of Innovation and Learning Technologies**

Tuesday-Wednesday, February 16-17, 2016

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**האדם הלומד בעידן הטכנולוגי:  
הכנס האחד-עשר לחקר חדשנות וטכנולוגיות למידה  
ע"ש צ"י**

שלישי-רביעי, ז' ח' באדר א' תשע"ו, 16-17 בפברואר 2016

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<http://www.openu.ac.il/innovation/chais2016>

**Program Committee**

- Prof. Yoram Eshet-Alkalai, chair, The Open University of Israel
- Dr. Christa Asterhan, The Hebrew University of Jerusalem
- Prof. Rakefet Ackerman, Technion – Israel Institute of Technology
- Dr. Ina Blau, The Open University of Israel
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- Prof. Ayelet Baram-Tsabari, Technion – Israel Institute of Technology
- Prof. Nitza Geri, The Open University of Israel
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- Dr. Gila Kurtz, The College for Academic Studies in Or Yehuda
- Prof. Yael Kali, University of Haifa
- Dr. Yoram Kalman, The Open University of Israel
- Dr. Gilad Ravid, Ben-Gurion University of the Negev
- Dr. Daphne R. Raban, University of Haifa
- Prof. Miky Ronen, Holon Institute of Technology
- Dr. Miri Shonfeld, Kibbutzim College of Education; The MOFET Institute

**Organizing Committee – The Open University of Israel**

- Dr. Vered Silber-Varod, Chair (The Research Center for Innovation in Learning Technologies)
- Osnat Tsarfati (The Research Center for Innovation in Learning Technologies)
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- Assaf Shambi (Public Relations)
- Meir Itzhaki (Operations Center)
- Ravid Morad (Computer Center)

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# Conference Program

**Tuesday, February 16, 2016**

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**08:30-9:30      Networking and Registration**

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**9:30-10:45      Opening Session** (Chais Auditorium)

Chair: **Vered Silber-Varod** (Organizing Committee Chair, Chais 2015 Conference)

## Welcoming Remarks

**Kobi Metzger**, President, The Open University of Israel

**Nitza Geri**, Head, The Research Center for Innovation in Learning Technologies, The Open University of Israel



Announcing the finalists for the **Best Student Paper Award**

## Opening Keynote

**Prof. Kevin Crowston**

Syracuse University

**Citizen Science:  
Learning to Effectively Contribute in Virtual Organizations**

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**10:45-11:00      Coffee Break**

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Nominee for Best Student Paper Award

**11:00-12:00 Parallel Session A****A1 Academic Dishonesty**

(Neudorfer Auditorium)

Chair: **Yehuda Peled** (Western Galilee Academic College)**Academic Dishonesty in the Israeli Public School System: Teachers' and Parents' Perspectives**Idit Rotem (The Open University of Israel), Ina Blau (The Open University of Israel),  
Yoram Eshet-Alkalai (The Open University of Israel)**Predictors of Digital and Analog Academic Dishonesty among School Students: The Role of Ethics**

Ina Blau (The Open University of Israel), Yoram Eshet-Alkalai (The Open University of Israel)

**The Faculty of Dishonesty Studies: Coping with Academic Dishonesty in Academia – Crime and Punishment**Adi Friedman (The Open University of Israel), Ina Blau (The Open University of Israel),  
Yoram Eshet-Alkalai (The Open University of Israel)**A2 Technology Integration in Educational Systems**

(Chais Auditorium)

Chair: **Rafi Nachmias** (Tel Aviv University)**Promoting and Hindering Forces and Perceptions of Successful ICT Implementation in Colleges of Education – Faculty Viewpoint over Time**

Orit Avidov-Ungar (Achva Academic College, The Open University of Israel), Alona Forkosh-Baruch (Levinsky College of Education, Tel Aviv University)

**What Can We Learn from Best Practice? Observations and Interviews with Expert Teachers in 1:1 Classrooms and their Students**

Anat Uphan (Bar Ilan University), Galit Trachtman (Bar Ilan University), Ornit Spektor-Levy (Bar Ilan University)

**Student-Teacher Relationship in Distant Teaching**

Akiva Berger (Tel Aviv University), Arnon Hershkovitz (Tel Aviv University)

**A3 Students meet with Prof. Kevin Crowston**

(Kanbar Hall)

Chair: **Ronit Bogler** (The Open University of Israel)

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**12:00-13:00 Lunch Break**

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## 13:00-14:30 Parallel Session B

### B1 Social Networks

(Neudorfer Auditorium)

Chair: **Ayelet Baram-Tsabari** (Technion – Israel Institute of Technology)

#### **Characteristics of an Authentic Scientific Discourse in the Social Media: The Case of Drinking Water Fluoridation**

Doris Shaheen-Asakly (Technion – Israel Institute of Technology), Daniela Orr (Technion – Israel Institute of Technology), Ayelet Baram-Tsabari (Technion – Israel Institute of Technology)



#### **Footprints of Fascination: Digital Traces of Public Engagement with Particle Physics on CERN's Social Media Platforms**

Kate Kahle (European Organization for Nuclear Research (CERN)), Aviv J. Sharon (Technion – Israel Institute of Technology), Ayelet Baram-Tsabari (Technion – Israel Institute of Technology)

#### **Towards an Evaluation of Cyber Risks and Identity Information Sharing Practices in e-Learning, Social Networking, and Mobile Texting Apps**

Yair Levy (Nova Southern University), Michelle M. Ramim (Middle Georgia State University)

### B2 Cognitive Aspects of Technology Use

(Chais Auditorium)

Chair: **Gitit Kavé** (The Open University of Israel)



#### **The Effect of CAPTCHA on User Experience among Users with and without Learning Disabilities**

Ruti Gafni (The Academic College of Tel Aviv-Yaffo), Idan Nagar (The Academic College of Tel Aviv-Yaffo)

#### **Can I Become Smarter? Creative Computing and Changing Implicit Theories of Intelligence among At-risk Youth and Normative Students**

Nurit Benolol (Beit Berl College), Ina Blau (The Open University of Israel)

#### **Computerized Training for Executive Functions: The Effect of Feedback Availability**

Nirit Gavish (ORT Braude College), Hagit Krisher (ORT Braude College)



#### **Synchronous Learning – Face-to-face, One-way, and Two-way Videoconferencing: The Role of Teaching-Learning Strategies, Personality Traits and Media Naturalness**

Orli Weiser (The Open University of Israel), Ina Blau (The Open University of Israel), Yoram Eshet-Alkalai (The Open University of Israel)

**B3 Poster session I**

(Kanbar Hall)

Chair: **Gilad Ravid** (Ben-Gurion University of the Negev)**Web-based Research Educational Platforms**

Ido Bareket (Bareket observatory)

**New Pedagogy in a Technology Saturated School: From a Case Study to Conceptualization**

Alona Forkosh Baruch (Levinsky College of Education, Tel Aviv University), Drorit Ram (Levinsky College of Education), Hasi ran (Alterman High School Tel Aviv), Yael Kashtan (Levinsky College of Education)

**Mobile Location-Based Games for Learning at the Local Museum – Experiment Evaluation**

Liat Eyal (Ministry of Education, Levinsky College of Education), Amir Shenfeld (Ramat-Gam Municipality), Eti Alfandary (Ramat-Gam Municipality)

**Educating for Responsible Conduct of Research in Higher Education**

Gizell Green (Technion – Israel Institute of Technology), Miri Barak (Technion – Israel Institute of Technology)

**Learning in a Massive Open Online Course: Examining Differences Between English and Arabic Participants**

Abeer Watted (Technion – Israel Institute of Technology), Miri Barak (Technion – Israel Institute of Technology)

**Promoting the Perception of Basic Principles of Analytical Geometry among Elementary School Students Through the Learning of Computer Programming**

Hani Swirski (Technion – Israel Institute of Technology)

**The Effectiveness of Using Tablets in the Study of Geometry Concepts for Students with Learning Difficulties**

David Eldar (Kibbutzim College of Education), Betty Shrieber (Kibbutzim College of Education)

**Perception of Pedagogical Innovation Among the Managers of the "Pisga" Centers for Teacher Professional Development**

Orit Avidov Ungar (Achva Academic College, The Open University of Israel), Bat El Haddad (Achva Academic College)

**A Meaningful Learning Experience with Advanced (Level C) Digital Book**

Dovi Weiss (Kibbutzim College of Education; Et Hadaat), Keren Bitan (Kibbutzim College of Education)

**Teachers' Contribution to the Enactment of Animations in Class – Testing Empiric Model into Teachers' Education and Practice**

Hagit Yarden (Brainpop Israel, Oranim Academic College of Education), Dana Prop (Oranim Academic College of Education)

**"The Brain" – Record Breaking Science Mobile App**

Julia Sagalin (Davidson Institute of Science Education)

**Teachers' Perceptions and Teaching Styles as Facilitators and/or Barriers to ICT Usage in the Classroom**

Becky Leshem (Achva Academic College, Ben Gurion University of the Negev), Orit Avidov Ungar (Achva Academic College, The Open University of Israel), Adva Margalio (Achva Academic College), Ety Grobgeld (Achva Academic College)

**"Twinning Schools Project" Integrated ICT to Developing Self-Regulated Learning**

Noga-Magen Nagar (Gordon College), Sigal Edri (Gordon College)

**Project Presentation: HaTanakh Website**

Yael Alon (Herzog Academic College), Shuky Reiss (Herzog Academic College), Esthy Klein (Herzog Academic College)

**Teaching Methodology for the Information Era**

Moshe Kalige (Hadassah Academic College)

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**14:30-15:00 Coffee Break and Poster Exhibition Tour**

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**15:00-16:00 Parallel Session C****C1 Reading and Writing in the Digital Era** (Neudorfer Auditorium)

Chair: Gal Ben Yehuda (The Open University of Israel)

**Students' Reading and Writing Preferences in a "Paperless classroom"**

Hagit Meishar-Tal (Holon Institute of Technology), Miri Shonfeld (Kibbutzim College of Education; The MOFET Institute), Hasi Ran (Alterman High School Tel Aviv)

**Touch-Typing Acquisition Process: A Comparison between Students with and without Learning Disabilities**

Hayley Weigelt- Marom (The Hebrew University of Jerusalem), Naomi Weintraub (The Hebrew University of Jerusalem)

**Whose Line Is It Anyway? Open-mindedness and Collective Psychological Ownership in Collaborative Writing**

Ariella Levenberg (Technion – Israel Institute of Technology), Miri Barak (Technion – Israel Institute of Technology)

## **C2 Models of Learning in Technological Environments** (Chais Auditorium)

Chair: Ornit Spektor-Levy (Bar Ilan University)

### **Learning in a "Pedagogical Island" from Students' Perspective: The Case of an ICT-based Instructional Unit in Biology**

Alona Chwat (The Hebrew University of Jerusalem), Yifat Ben-David Kolikant (The Hebrew University of Jerusalem)

### **"Flipped Classroom" at the Open University? Self-regulated Individual and Collaborative Learning in an Academic Course**

Tamar Shamir-Inbal (The Open University of Israel), Ina Blau (The Open University of Israel)



### **Up and down: Trends in Students' Perceptions about Learning in a 1:1 Laptop Model – A Longitudinal Study**

Tal Berger-Tikochinski (Bar Ilan University), Michal Zion (Bar Ilan University), Ornit Spektor-Levy (Bar Ilan University)

## **C3 Poster Session II**

(Kanbar Hall)

Chair: **Ronen Hammer** (Holon Institute of Technology)

### **How Learners' Native Language Affects Them When Learning a New Language Online**

Itamar Shatz (Tel Aviv University)

### **Course Site Design on Moodle: Implications for Teaching and Learning**

Deborah Azaryad Shechter (Tel Aviv University)

### **Evaluation of Activities that Integrate Online Learning Materials According to Bloom's and Passig's Taxonomies**

Aya Horwitz (Tel Aviv University), Anat Cohen (Tel Aviv University)

### **The Activities of the Online Learner in MOOC Forums**

Udi Shimony (Tel Aviv University), Anat Cohen (Tel Aviv University), Rafi Nachmias (Tel Aviv University), Tal Soffer (Tel Aviv University)

### **Using Sonification-based Computer Models and the Influence on the Degree of Learning Complex Chemical Effects of the Structure of the Gas among Blind Students**

Noha Chagab (Tel Aviv University), Orly Lahav (Tel Aviv University), Vadim Talis (Tel Aviv University)

### **inTree@ctive – Interactive Video Scenarios Production System**

Lilach Gal (Holon Institute of Technology), Tamar Golan-Donenfeld (Holon Institute of Technology), Oren Ben-Aharon (Holon Institute of Technology), Shavit Cohen (Holon Institute of Technology)



**"I Wanted My Student to Know I'm Here for Them" Teachers-Students Interactions on WhatsApp**

Sivan Giora (Holon Institute of Technology), Shahar Brooks (Holon Institute of Technology), Hagit Meishar-Tal (Holon Institute of Technology, The Open University of Israel)

**"Look me in the eyes" – How Lecturers Cope with Intensive Use among Students in Laptop Computers During Lessons**

Tal Fisch (Holon Institute of Technology), Noy Perets (Holon Institute of Technology), Hagit Meishar-Tal (Holon Institute of Technology, The Open University of Israel)

**Information Security Violations in Organizational WhatsApp Groups**

Naama Eisenreich (Holon Institute of Technology), Avi Barsheshet (Holon Institute of Technology), Hagit Meishar-Tal (Holon Institute of Technology, The Open University of Israel)

**Teachers' Self-branding on Facebook**

Yarden Bareket (Holon Institute of Technology), Timor Nissim (Holon Institute of Technology), Hagit Meishar-Tal (Holon Institute of Technology, The Open University of Israel)

**Waze as a Performance Support System and its Contribution to Route Learning**

Sharon Oren (Holon Institute of Technology), Chen Schreiber (Holon Institute of Technology), Hagit Meishar-Tal (Holon Institute of Technology, The Open University of Israel)

**Like to Get "Like"? The Meaning of "Like" and Lack of "Like" for Facebook Users**

Shiran Aharoni (Holon Institute of Technology), Karin Laskar (Holon Institute of Technology), Hagit Meishar-Tal (Holon Institute of Technology, The Open University of Israel)

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**16:00-16:30 Coffee Break and Poster Exhibition Tour**

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**16:30-17:30 Closing Session** (Neudorfer Auditorium)

Chair: **Nitza Geri** (The Open University of Israel)

**Closing Keynote**

**Prof. Judit Bar-Ilan**

Bar-Ilan University

**If You Are Not There You Don't Exist?  
Metrics for Measuring Visibility  
in the Academic World**

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**Wednesday, February 17, 2016**

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**8:30-9:30      Networking and Registration**

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**09:30-10:30    Opening Session** (Chais Auditorium)

Chair: **Yoram Eshet-Alkalai** (Program Committee chair, Chais 2015 conference)



**Best Student Paper Award**

**Opening keynote**

**Prof. Alan R. Hevner**

University of South Florida

**The Front End of Innovation: Implications for Design  
and Learning**

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**10:30-10:45    Coffee Break**

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**10:45-12:15    Parallel Session D**

**D1 Technology Integration in Science Teaching** (Neudorfer Auditorium)

Chair: **Anat Yarden** (The Weizmann Institute of Science)

**Learning about STEM in the ICT Environment – The Case of the Sound, Wave and  
Communication Systems Course**

Nayif Awad (Sakhnin College, Ben Gurion University of the Negev), Moshe Barak (Ben  
Gurion University of the Negev)

**PILL-VR Simulation Learning Environment for Teaching Medication Administration to  
Nursing Students**

Ilana Dubovi (University of Haifa), Sharona T. Levy (University of Haifa), Efrat Dagan  
(University of Haifa)

**What are the Levers by which a Complex Systems Approach may Empower Learning?**

Sigal Samon (University of Haifa), Sharona T. Levy (University of Haifa)

**Early Adapters: Using a Math Application to Facilitate Preservice Math Education in  
Elementary School**

Shirly Azmon (Levinsky College of Education), Alona Forkosh Baruch (Levinsky College  
of Education, Tel Aviv University), Tami Reuveni (Levinsky College of Education)



Nominee for Best Student Paper Award

**D2 Emotions and Motivation in a Technological Environment** (Chais Auditorium)Chair: **Avner Caspi** (The Open University of Israel)**The Effect of Students' Self-discrepancy and Self-efficacy on Learning with a Virtual Instructor**

Lilach Alon (The Open University of Israel), Avner Caspi (The Open University of Israel)

**Design Principles for Promoting Intergroup Empathy in Online Environments**Noa Shapira (University of Haifa, CET), Haggai Kupermintz (University of Haifa),  
Yael Kali (University of Haifa)**Long-Term Effects of Computerized Simulations in Protracted Conflicts:****The Case of Global Conflicts**

Ronit Kampf (Tel Aviv University)

**Violent Digital Games: The Gamers' Perspective**Angela Nahra (University of Haifa), Ina Blau (The Open University of Israel), Sheizaf  
Rafaeli (University of Haifa)**D3 Students meet with Prof. Alan R. Hevner**

(Kanbar Hall)

Chair: **Gila Kurtz** (The College for Academic Studies in Or Yehuda)

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**12:15-13:00 Lunch Break**

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**13:00-14:00 Parallel Session E****E1 MOOCs**

(Neudorfer Auditorium)

Chair: **Yair Levy** (Nova Southern University)**Online Peer Assessment: Comparing between In-class and Massive Open Online Course Students**Maya Usher (Technion – Israel Institute of Technology), Miri Barak (Technion – Israel  
Institute of Technology)**The Characteristics of Successful MOOCs in Software, Science, and Management Fields According to Students' Perception**

Simona Holstein (Tel Aviv University), Anat Cohen (Tel Aviv University)

**Characterizing Types of Learners in a Massive Open Online Course (MOOC)**Tali Kahan (Tel Aviv University), Tal Soffer (Tel Aviv University), Rafi Nachmias  
(Tel Aviv University)

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## **E2 Assistive Technologies for people with Special Needs** (Chais Auditorium)

Chair: **Sigal Eden** (Bar Ilan University)

### **Sound-based Computer Models as an Exploratory Learning Environment for Blind Students in Science Education**

Ran Peleg (University of Haifa), Sharona T. Levy (University of Haifa), Orly Lahav (Tel Aviv University), Noha Chagab (Tel Aviv University), Vadim Talis (Tel Aviv University)

### **Characteristics of the Decision-making Process among Young People with Cerebral Palsy During a Training Program that Combines Technological Assistance**

Orit Moyal (Kibbutzim College of Education), Betty Shrieber (Kibbutzim College of Education)

### **How Mentoring Social Network Can Become an Assistive Technology for Students with Communication Disabilities and Students with Intellectual Impairments?**

Liora Mekamel (The Open University of Israel), Ina Blau (The Open University of Israel)

## **E3 Poster Session III**

(Kanbar Hall)

Chair: **Yoram Kalman** (The Open University of Israel)

### **Intervention Program for Cyber-Bullying Training for Children and Adolescents**

Denise Ben Ari-Kopel (The Open University of Israel), Tali Heiman (The Open University of Israel), Dorit Olenik-Shemesh (The Open University of Israel)

### **Integrated Learning of Science and Creative Computing Through Simulation Design**

Rivka Taub (The Open University of Israel), Ina Blau (The Open University of Israel), Yoram Eshet-Alkalai (The Open University of Israel)

### **An Outline for Teaching Computer Game Development in Class**

Yael Hakshurian (The College for Academic Studies), Gila Kurtz (The College for Academic Studies)

### **Applying TPACK Model for Designing and Developing an Academic Course**

Gila Kurtz (The College for Academic Studies), Vicky Horenstein (The College for Academic Studies), Sharon Hardof (The College for Academic Studies), Gila Levi-Atzmon (The College for Academic Studies), Noemy Porath (The College for Academic Studies), Esty Tzivion (The College for Academic Studies), Gila Kisslevitz (The College for Academic Studies)

### **Offer a Digital Literacy Curriculum for Students in Grades Third and Fourth**

Einav Bashiri (The College for Academic Studies), Ofri Meirav (The College for Academic Studies), Gila Levi Atzmon (The College for Academic Studies)

**Senior ICT Coordinators' Positions Towards Their Role as Leaders of the National ICT Programs**

Ella Gogan (The College for Academic Studies), Liat Ben-Shimol (The College for Academic Studies), Gila Levi- Atzmon (The College for Academic Studies)

**Attitudes of Principals and Assistant Principals in Elementary Schools to the National Information Communication Technologies Program Implementation**

Gila Kurtz (The College for Academic Studies), Neta Lev (The College for Academic Studies), Osnat Tabachnik (The College for Academic Studies)

**Third Agers Uses and Attitudes Toward Digital Technologies**

Keren Barak (The College for Academic Studies), Miri Shani (The College for Academic Studies), Gila Kurtz (The College for Academic Studies)

**Teachers' Perceptions Towards the Usage of WhatsUp for Communication with Students**

Ronit Ben Porat (The College for Academic Studies), Bat Sheva Machluf (The College for Academic Studies), Gila Kurtz (The College for Academic Studies)

**Smartphones as a Teaching Tool: Teachers' Perspectives**

Aviv Aizner (The College for Academic Studies), Hilla Elad (The College for Academic Studies), Gila Kurz (The College for Academic Studies)

**Integration of ICT in Physical Education**

Ronit Segal (The College for Academic Studies), Ruhama Nachmani (The College for Academic Studies), Gila Levi-Azmon (The College for Academic Studies)

**The Added Value of the Knowledge Community and Inquiry (KCI) Model for Learning in Future Learning Spaces (FLS)**

Hava Ben-Horin (University of Haifa), Carmit Pion (University of Haifa), Yael Kali (University of Haifa)

**Online Collaborative Learning in a Multicultural Environment at Junior High School's Shelah Lessons**

Tamar Yedidim (Kibbutzim College of Education), Ilana Ronen (Kibbutzim College of Education), Miri Shonfeld (Kibbutzim College of Education; The MOFET Institute)

**From Molecular Dynamics to Random Walks: Students Construct Computational Models in an Interdisciplinary Science Program**

Haim Edri (The Weizmann Institute of Science), Bat-Sheva Eylon (The Weizmann Institute of Science), Sam Safran (The Weizmann Institute of Science), Nava Schulmann (The Weizmann Institute of Science), Edit Yerushalmi (The Weizmann Institute of Science)

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**14:00-14:30 Coffee Break and Poster Exhibition Tour**

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**F1 Scientific Discourse Analysis**

(Chais Auditorium)

Chair: **Arnon Hershkovitz** (Tel Aviv University)**Tendencies and Preferences of Choosing Information Sources in Academic Learning: Differences between Native Hebrew and Native Arabic Speakers**

Moti Merdler (Western Galilee Academic College), Yehuda Peled (Western Galilee Academic College)

**Assessing Credibility of Scientific Content on Facebook: Observed vs. Reported**

Eddie Leventman (Tel Aviv University), Aviad Rotboim (Tel Aviv University), Arnon Hershkovitz (Tel Aviv University)

**Analyzing the Discourse of the Articles of Chais Conferences for the Study of Innovation and Learning Technologies via a Data-Driven Approach**

Vered Silber-Varod (The Open University of Israel), Yoram Eshet-Alkalai (The Open University of Israel), Nitza Geri (The Open University of Israel)

**F2 Technologies in Teachers' Professional Development** (Chais Auditorium)Chair: **Yael Kali** (LINKS I-CORE, University of Haifa)**Bringing Technology into the Classroom One Iteration at a Time**

Leah Doryoseph (University of Haifa), Micki Zaritsky (University of Haifa), Anat Goodman (University of Haifa), Ornit Sagy (University of Haifa), Yael Kali (University of Haifa)

**Learners & Designers: How does Teacher Knowledge Develop when They Start as Learners in Technology-enhanced Learning Environments and Continue as Their Designers?**

Keren Sarah Levy (Technion – Israel Institute of Technology), Rachel Levin-Peled (Technion – Israel Institute of Technology), Yael Kali (University of Haifa), Tali Tal (Technion – Israel Institute of Technology)

**Combining Virtual Communication Channels to Preform Simple and Complex Tasks as Part of a Professional Teamwork in School**

Gilat Cohen (Oranim Academic College of Education, The Open University of Israel), Orit Kovo Hiat (Oranim Academic College of Education)

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**15:30-15:45 Coffee Break**

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**15:45-17:15 Closing Session**

(Neudorfer Auditorium)

Chair: Yotam Hod

## **Closing Keynote**

### **International Panel Discussion**

Organized by LINKS I-CORE

## **Challenges and Opportunities for Research and Design of Future Learning Spaces**

**Interconnecting the Knowledge Spaces of Different Communities for Sustained  
Knowledge Building**

Jianwei Zhang (University at Albany, USA)

**Knowledge Construction in the Instrumented Classroom: Supporting Student  
Investigations of Their Physical Learning Environment**

Jim Slotta (University of Toronto, Canada)

**Designing Spaces to Foster Collaboration**

Elizabeth Charles (Dawson College, USA), Chris Whittaker (Dawson College, USA)

**Conceptualizing and Researching Overlapping Communities of Learners**

Scott P. McDonald (Penn State University, USA), Michael M. Rook (Penn State  
University, USA)

**Designing an FLS based on Learning Community Principles**

Yotam Hod (University of Haifa), Dani Ben-Zvi (University of Haifa), Tamar Weiss  
(University of Haifa), Yael Kali (University of Haifa)