לקראת עיצוב הזמנה לכנס בינלאומי המתקיים בזום בשיתוף מכללת אורנים, אוניברסיטת אוטווה (קנדה), מכללת שאנן ומט"ח.

להלן תכנית הכנס כפי שעוצבה על ידי מארגני הכנס ונמצאת בעיצוב של השיווק של אוטווה. על מנת לא לעכב את עיצוב ההזמנה שלנו אני שולחת את התוכנית וכל הפרטים הנלווים. ההזמנה צריכה להיות כתובה מצד אחד בעברית ומצד שני באנגלית.

S-T-E-A-M ! The Whole is Greater Than the Sum of its Parts

Organizers:

Dr. Ruti Segal, Oranim Academic College of Education, Israel

Dr. Yaniv Biton, Center for Educational Technology, Israel; Shaanan College of Education, Israel

Dr. Olga Fellus, University of Ottawa, Ottawa, ON, Canada

Chair: Dr. Boaz Silverman

The Center for Educational Technology

May 30, 2022

9:00AM to 11:00AM EST (16:00 to 18:00 Israel Time)

**9:00 - 9:05 (16:00 - 16:05 IS)**

Opening Remarks Oranim Academic College of Education, The Faculty of Graduate Studies Dean Lilach Lev-Ari

**9:05 - 9:10** **(16:05 - 16:10 IS)**

Opening Remarks University of Ottawa, Faculty of Education Dean Barwell

**9:10 - 9:40 (16:10 - 16:40 IS)**

Keynote speaker: [Dan Meyer](https://www.ted.com/talks/dan_meyer_math_class_needs_a_makeover?language=en) STEM is A Story

Students often like the "A" more than the "STEM" in "STEAM," especially stories. They spend their spare money consuming stories and their spare time producing them. Cognitive psychologists also identify stories as “psychologically privileged,” a particularly powerful vehicle for learning. We'll discuss three ways we can adapt the structure of stories for our learning of math.

**9:40 - 10:10**  **(16:40 - 17:10 IS)**

Speakers Ruti Segal & Yaniv Biton: STEAM in Teacher Education Programs

**10:10 - 10:30** **(17:10 - 17:30 IS)**

Speaker Olga Fellus: STEAM Forward: Arts, Fractions, and the Concept of Infinity

**10:30 - 10:50** **(17:30 - 17:50 IS)**

Breakout rooms & interactive doc for discussions and questions to speakers

**10:50 - 11:00 (17:50 - 18:00 IS)**

Dr. Boaz Silverman

Q&A from interactive document: STEAM! From Theory to Practice

The event will provide live Hebrew-English simultaneous subtitles.

* Event series description paragraph: **The Faculty of Education International Symposiums Series brings together Faculty members and scholars from across the world to share emerging research on education and to explore innovations in educational theory and praxis.**
* Date: **May 30, 2022**
* Time: **9AM - 11AM EST (16 - 18 IS)**

**Presenters' bios including live links:**

* Chair: Dr. Boaz Silverman

Boaz Silverman is a curriculum developer and teacher educator at the Center for Educational Technology and is a co-founder of YIRME – the organization for Young Israeli Researchers in Math Education. He earned his Ph.D. in Mathematics Education from the Weizmann Institute of Science and conducted his post-doctoral research at the Technion - Israel Institute of Technology. His research interests involve mainly the interplay of learning disabilities and mathematics and the role of context in the learning of mathematics.

* Dr. Dan Meyer
* @ddmeyer
* <https://blog.mrmeyer.com/>
* Dan Meyer taught secondary maths to students who didn't like secondary maths and drew novel techniques for teaching maths from the arts and humanities. He has advocated for those techniques on [CNN](https://blog.mrmeyer.com/2010/hello-cnn/), [Good Morning America](https://www.youtube.com/watch?v=nsYiHPbUJCg), Everyday With Rachel Ray, and [TED.com](https://www.youtube.com/watch?v=qocAoN4jNwc). He earned his doctorate from Stanford University in maths education and is the Dean of Research at Desmos, a math education startup, where he explores the future of maths, technology, and learning. He has worked with teachers around the world and calls California home.
* Dr. Olga Fellus

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Olga Fellus holds a doctoral degree in Education – Teaching, Learning, and Evaluation, M.Ed. in TESOL, and an M.A. in Translation and Interpreting. Dr. Fellus also holds two teaching diplomas. With over 20 years of experience as a teacher, teacher educator, and researcher, Dr. Fellus has developed a deep interest in learning theories and educational change with a particular focus in mathematics education. Dr. Fellus has published more than 50 scientific articles in journals and conferences. Her recent publications include: [Closing the gap on the map: Davydov’s contribution to current Early Algebra discourse](https://link.springer.com/article/10.1007/s10649-020-09989-6), which was co-authored with Dr. Viktor Freiman and published in *Educational Studies in Mathematics*; and [Connecting the dots: Toward a four-dimensional conceptualization and operationalization of identity in mathematics education](https://link.springer.com/article/10.1007/s11858-019-01053-9), which was published in *ZDM Mathematics Education*. Dr. Fellus currently serves as the elected Program Chair for the AERA Educational Change SIG and was past editor of the [Educational Change SIG Lead the Change series](https://www.aera.net/SIG155/Lead-the-Change-Series). She is also the Book Editor of the [*Journal of the Canadian Association of Curriculum Studies*](https://jcacs.journals.yorku.ca/index.php/jcacs)and is JCACS Interview Team Lead for the [Curriculum Without Borders](https://www.youtube.com/channel/UCTLoiF3Ahbl7KRLDBZp2QHA) YouTube channel.

* Dr. Ruti Segal

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Dr. Ruti Segal is the Department Chair of the master's program in Primary School Mathematics and Science. She teaches Mathematics Education at the [Oranim College of Education](http://en.oranim.ac.il/about/), Tivon, as well as at Shaanan College of Education, Haifa, Israel. Dr. Segal’s research focuses on exploring teachers’ professional development and teachers’ mathematical and pedagogical knowledge; surfacing processes in mathematics-oriented techno-pedagogical content knowledge; and improving professional development for pre-service and in-service mathematics teachers. As a member of a research team in the [Samuel Neaman Institute](https://www.neaman.org.il/EN/Home) at the Technion, she has been investigating teachers’ professional development within [a learning community of experts](https://www.neaman.org.il/EN/Technology-environment-that-accelerates-sharing-and-professional-development-for-mathematics-teachers-The-case-of-RAMZOR). She has also been working on incorporating humanized mathematics into high school mathematics education through [the Mathematical News Snapshots](https://mns.org.il/about/) initiative. As an academic advisor for the Video and Didactic (Vidactica) project that she conducted at the [Weizmann Institute of Science](https://www.weizmann.ac.il/pages/), she studied how self-videotaping a lesson and subsequently carrying out a curiosity-driven discourse can enhance teachers’ professional development.

* Dr. Yaniv Biton

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Dr. Yaniv Biton is Head of Mathematics Education at the [Center for Educational Technology](https://home.cet.ac.il/?lang=en) (CET), Tel Aviv, Israel. CET is a non-profit organization that promotes innovative learning by introducing solutions that integrate pedagogical innovation, relevant content, and advanced technologies. He is currently leading a team that develops K-12 printed, digital, and hybrid mathematical content for CET. Through his work with in-service and pre-service teachers, Dr. Biton promotes effective and efficient integration of diverse innovative technologies in K-12 mathematics education. He also develops massive open online courses (Mooc) for teachers on pedagogies in mathematics. Dr. Biton is also a mathematics teacher educator at the [Shaanan College of Education](https://www.shaanan.ac.il/), Haifa, Israel. Dr. Biton’s research focuses on assessment and technology in mathematics education, adaptive learning systems, and learning mathematics on social networks. He serves in master’s and doctoral thesis committees in mathematics education. He is also the Editor in Chief of the [*Journal of Research and Scholarship in Mathematics Education*](https://www.shaanan.ac.il/wp-content/uploads/2021/04/%D7%9B%D7%AA%D7%91-%D7%A2%D7%AA-%D7%9E%D7%AA%D7%9E%D7%98%D7%998-copy.pdf)(in Hebrew). The journal includes entries on the Mathematics Olympiad, mathematical concepts, the human side of mathematics, pedagogies in mathematics, and research reports.