



# 11<sup>th</sup> Mathematics Connection Conference

**May 2-10, 2018**

Hosted by the School of Education

In collaboration with The Murphy Institute, LEAP to Teacher Program, and the UFT

**Dr. Kenneth Gold**, Dean of School of Education

**Dr. Margaret E. Bérci**, Dept. Chair of Curriculum and Instruction

**Dr. Nelly Tournaki**, Acting Dept. Chair of Educational Studies

Program Chair and Conference Director: **Dr. Judit Kerekes**, Associate  
Professor of Mathematics Education

## Guest Speakers:

Dr. Ödön Vancsó, Head of Mathematics at the Education Centre of Eötvös Lóránd University in Budapest and leader of the Complex Mathematics Education Research Group of the Hungarian Academy of Sciences



Ödön Vancsó earned his diplomas in mathematics, physics and descriptive geometry at Eötvös Lóránd University. For five years he was a teacher at Daniel Berzsenyi Secondary School in Budapest. He was invited to join Eötvös University as assistant to the *Group for Didactics of Mathematics*. He continued his higher education studies and his first doctorate, in pure mathematics (in Calculus, Continuity types in Baire spaces) was directed by Miklós Laczkovich. His second was in Didactics of Mathematics (Classical and Bayesian approach in inferential statistics from educational point of view).

Dr. Vancsó took part in developing a new final exam for Mathematics at the High School Level in Hungary (1997-2004). Between 2005 -2013 he was a member of the Mathematics Committee, chairing it from 2010-2012. He worked for three years in Ministry of Education as teacher training expert before returning to Eötvös University as a Head of the Mathematics Education Centre. In 2016 he received a mandate to establish a new Research Group of the Hungarian Academy of Sciences. The Group, whose membership consists of distinguished mathematics professors, is named *Complex Mathematics Education*, received funding for four years to develop a new process for teaching and learning mathematics in pre-K to grade 12. Dr. Vancsó has taken part in several international projects in Europe, and worked to popularize Mathematics through performance and play (2002-2012).

**Dr. Eleonóra Stettner, Chairperson, Kaposvár University, Hungary.**



I have a Master's degree in Mathematics, Physics and Informatics. I got my PhD degree in Geometry at the Budapest University of Technology and Economics. I worked at a secondary grammar school for 25 years, where I taught Mathematics, Physics and Informatics for children between 10-18 years. I have been working at Kaposvár University since 2003. I teach Mathematics in BSc, MSc and PhD courses. I am the Head of Department of Mathematics and Informatics. I have publications on the methodology of teaching Mathematics, the application of computer programmes in teaching Mathematics and the connection of Mathematics and Arts. I work as a research coordinator in the International Experience Workshop. I held GeoGebra training for teachers, and I organized GeoGebra competition for primary and secondary school pupils. I participate in the grant "MTA-ELTE Complex Mathematics Education Research Group".

**Dr. Zsuzsa Márka, Research Scientist, Columbia University, USA**



Zsuzsa Márka is an experimental physicist at Columbia University with major interest in instrument development for frontier scientific endeavors. Among others, she works on the LIGO (Laser Interferometer Gravitational-wave Observatory) project, the experiment that has announced the first observation of gravitational-waves from a pair of merging black holes. Her main contribution is leading the manufacturing and testing of a key subsystem, the timing system, for the LIGO detectors, and she also leads the timing diagnostics studies for the collaboration. Beyond instrumentation, she also works with members of the Columbia Experimental Gravity group on various aspects of gravitational-wave astrophysics, including analysis of gravitational-wave data in conjunction with electromagnetic and neutrino messengers.

## Conference Program

### Wednesday, May 2<sup>nd</sup>

4:30 pm - 5:30 pm     **Reflections on Mathematics Education, Preparation and Mathematics**

3S 208                    **Teaching in Schools**

Participants: Alumni Mathematics Teachers Discussion

Facilitator: Dr. Kenneth Gold, Dean, School of Education

6:30 pm - 8:00 pm     **Opening:** Dr. Margaret E. Bérci, Chairperson Department of Curriculum and Instruction

1P Lecture Hall        **Opening Remarks: Elegant Solutions from Europe's Elementary and Middle School Students with GeoGebra**

Dr. Eleonóra Stettner, Chairperson of Mathematics and Informatics Department, Kaposvár University, Hungary

8:20 pm - 10:00 pm   **Interactive Activities for Teachers with GeoGebra**

3S 206                    Dr. Eleonóra Stettner, Chairperson of Mathematics and Informatics Department, Kaposvár University, Hungary

Dr. Judit Kerekes, Associate Professor of Math Education, College of Staten Island

### Thursday, May 3<sup>rd</sup>

5:00 pm - 6:00 pm     **Introduction:** Dr. Gary Reichard, Provost CUNY/College of Staten Island

1P Springer Hall        **Keynote lecture: Catching Einstein's Elusive Waives**

Dr. Zsuzsa Márka, Research Scientist, Columbia University, New York

6:30 pm - 7:30 pm     **Explore Practices that Promote Mathematical Discourse of Measurement**

3S 210

Dr. Judit Kerekes, Associate Professor of Math Education, CSI

### Friday, May 4<sup>th</sup>

3:30 pm - 4:00 pm     **Rubik's Cube Competition**

3S 203

Josephine Cuttitta-Ruggiero Substitute Teacher NYC DOE

Dr. Judit Kerekes, Associate Professor of Math Education, CSI  
Graduate Students, Department of Curriculum and Instruction

4:00 pm - 5:00 pm

**Playground for Young Children**

3S 210

Josephine Cuttitta-Ruggiero Substitute Teacher NYC DOE

Dr. Judit Kerekes, Associate Professor of Mathematics Education, CSI  
Graduate Students, Curriculum and Instruction

5:00 pm - 7:00 pm

**Forum: Strengthening Teacher-Paraprofessional Collaborations in  
Classroom**

1P Williamson Thtr.

Dr. Nelly Tournaki, Acting Chairperson of Educational Studies, Panel  
Discussion Leader

Iris DeLutro, CUNY-Wide LEAP to Teacher Program Manager, Murphy  
Institute

Dr. Tünde Jakab, LEAP to Teacher Program Site Coordinator

6:00 pm - 6:30 pm

**The Rocky Road to Algebra**

1P Williamson Thtr.

Ms. Danielle Iacoviello, PS/IS 48

Ms. Drita Lazoja, IS 27 Grade 6 math teacher

Ms. Eunice Miller, PS 69 Grades 3-5 math teacher

Ms. Patty Brady, PS 65 Grade 5 math teacher

6:30 pm - 8:00 pm

**Math Cafe**

1P Conference Room

Dr. Mikhail Epshteyn, Associate Professor of STEM Education, CSI  
Sergey Mikhelson, Math teacher, LREI School, New York City

**Monday, May 7<sup>th</sup>**

4:40 pm - 6:20 pm

**Engaging Elementary School Students in Math Learning with GeoGebra**

3S 206

Dr. Irina Lyublinskaya, Professor of STEM Education, CSI

6:30 pm - 7:30 pm

**Connections to Mathematics Literature and Storytelling in the Early  
Childhood Classroom**

3S 201

Dr. Ting Yuan, Assistant Professor of Early Childhood Education, CSI

Dr. Judit Kerekes, Associate Professor of Mathematics Education, CSI

## **Tuesday, May 8<sup>th</sup>**

- 4:00 pm - 4:40 pm     **Integrating Language Literacy and Culture through Technology in Teaching English to Speakers of Other Languages TESOL**  
3S 206  
Dr. Rebecca Curinga, Assistant Professor of TESOL
- 2:30 -4:30            **Spring Festival, School of Education Event**  
3S LAWN
- 4:40 pm - 5:15 pm     **The Other Hamilton: An Episode in the History of Mathematics (Middle and High School)**  
3S 210  
Dr. Eileen Donoghue, Associate Professor of Mathematics Education, CSI

## **Wednesday, May 9<sup>th</sup>**

- 4:40 pm - 5:30 pm     **Classroom Strategies for New Middle and High School Mathematics Teachers**  
3S 116  
Barbara Neiderhoffer Lecturer and Student Teachers, CSI
- 4:40 pm - 5:40 pm     **The Best of EdTPA Task 4 Mathematics Re-engagement**  
3S 206  
Gail Rosenberg, Adjunct Faculty EdTPA Program Coordinator, CSI  
Bryan McGuckin, CLT and Graduate Students, CSI
- 8:20 pm - 9:20 pm     **The Myth of the Golden Ratio in Real-life Context**  
3S 210  
Dr. Judit Kerekes, Associate Professor of Mathematics Education, CSI
- 9:20 pm - 10:00 pm   **Montessori Method in Mathematics One Hundred Years Ago and Today**  
3S 210  
Hoda Ezzat, Teacher, Former Montessori Program Leader, Egypt

## **Thursday, May 10<sup>th</sup>**

- 4:00 pm - 4:30 pm     **Discussion on Primary, Pre-school and Elementary Education:**  
3S 210  
Collaboration between Eötvös Lóránd University, TÓK, Budapest, Hungary & City University of New York, CSI, SOE, Staten Island, New York  
Dr. Kenneth Gold, School of Education Dean; Dr. Ödön Vancsó, CMER leader of the Hungarian Academy of Sciences, Dr. Margaret E. Bérci, Chairperson, Dr. Nelly Tournaki, Acting Chairperson, Dr. Judit Kerekes,

Associate Professor, Dr. Eileen Donoghue, Associate Professors, Dr. Ting Yuan Assistant Professor, CSI

3:00 pm - 7:00 pm **Graduate Research and Scholarship Conference (college wide)**

1P Atrium

4:40 pm - 6:00 pm **Closing Remarks: How Could Paradoxes be used in Teaching Statistics and Probability from grades 1 to 12**

5S 123

Dr. Ödön Vancsó, Hungarian Academy of Science, Eötvös Loránd University, Budapest, Complex Mathematics Education Research Group Leader

6:30 pm - 8:10 pm **Interactive Activities in Probability for Teachers**

3S 210

Dr. Ödön Vancsó & Dr. Judit Kerekes

Staff:

**Ms. Mary Ann Durante,**

**Ms. Marge Nichols,**

**Mr. Bryan McGuckin,**

**Ms. Ann Marie Tafone**