The 9th International Scientific Colloquium
MATHEMATICS AND CHILDREN
founded by Margita Pavleković

PROGRAM

FRIDAY, May 19

8.00 - 9.00	Registration
9.00 - 9.30	OPENING

Morning Session

Room 31 / Chairperson: Diana Moslavac Bičvić	
9.30 - 10.15	**Plenary lecture** Milena Stavric, Albert Wiltsche *Spatial Ability In the Digital Age - Designing innovative analogue games*
10.15 - 10.30	Attila Bölcskei *Connecting statistics with spatial abilities*
10.30 - 10.45	András Ambrus, Pál Katonka *"Seeing" at solving algebraical problems*
10.45 - 11.00	Ljiljana Arambašić *On the teaching of linear algebra*

11.00 - 11.30   Coffee Break

Room 31 / Chairperson: Ljerka Jukić Matić	
11.30 - 11.45	Doris Dumičić Danilović, Sanja Rukavina *On the use of visualization when performing basic arithmetic operations*
11.45 - 12.00	Ana Krišto, Ana Kuzle, Dubravka Glasnović Gracin *Collective classroom climate in geometry lessons*
12.00 - 12.15	Janka Szeibert, Csilla Zámbó, Anna Muzsnay, Csaba Szabó *The potential of number theory in the development of mathematical thinking*
12.15 - 12.30	Adrijana Mastnak, Tatjana Hodnik *Preschool teacher's planning and implementation of dialogic teaching in dealing with combinatorics situations*
12.30 - 12.45	Branka Antunović Piton *Implementation of scientific findings in the 7th-grade teaching process - Preliminary results of collaborative action research*
12.45 - 13.00	Sanja Vranić *Fermi problems as a mathematical modeling activity in secondary education*

13.00 - 14.00   Lunch

Afternoon Session

Room 31 / Chairperson: Ljerka Jukić Matić	
14.00 - 14.45	**Plenary lecture** Jasmina Milinković *Representations in mathematics teaching - How to make a choice?*
14.45 - 15.00	Vida Manfreda Kolar, Klara Paulič, Uršula Podobnik *The role of mathematical picture books in teaching the concept of zero to first grade*
15.00 - 15.15	Eszter Kónya, Ibolya Szilágyiné-Szinger *On the experience of a problem-posing activity with second grade primary school pupils*

15.15 - 15.30   Coffee Break

A section

Room 31 / Chairperson: Ana Mirković Moguš	
15.30 - 15.45	Bojan Crnković, Vedrana Mikulić Crnković, Ivona Traunkar *Development of computational thinking through interdisciplinary activities in mathematics education*
15.45 - 16.00	Tomislav Rudec, Anja Šteko *Advanced education methods and application of mathematical knowledge in classes with advanced programmers*
16.00 - 16.15	Saša Duka, Ružica Kolar-Šuper, Zdenka Kolar-Begović *The specifics of solving mathematical problems using model based on the Tablet-Human Hybrid Model of Avatar in university face-to-face teaching*
16.15 - 16.30	Lidija Eret, Marjana Kuliš *Hybrid teaching and outcome indicators of the state graduation exam in mathematics*

B section

Room 21 / Chairperson: Ana Katalenić	
15.30 - 15.45	Marijana Zeljić, Milana Dabić Boričić, Svetlana Ilić *Superficial strategies in solving compare-combine problems*
15.45 - 16.00	Sanja Rukavina, Doris Dumičić Danilović, Marina Šimac *Mathematics teachers' continuous professional development - Reflections on Lifelong Learning Program "Enactive Learning in Mathematics"*
16.00 - 16.15	Hana Čadež, Ana Brudar *The importance of the mathematics teacher and special educator working together to support low-achieving pupils in mathematics*
16.15 - 16.30	Edith Debrenti, Tünde Klára Baranyai *Analysis of logical operational abilities and logical reasoning among university students*

16.45   Excursion and Colloquium Dinner (Erdut, Stari mlin)

SATURDAY, May 20
Morning Session

Room 31 / Chairperson: Mihaela Ribičić Penava	
9.00 - 9.45	**Plenary lecture** Mirela Jukić Bokun, Ljerka Jukić Matić *Game-based learning in mathematics*
9.45 - 10.00	Eleonóra Stettner *STEAM-BOX project*
10.00 - 10.15	Monika Zupančič,Tatjana Hodnik *The traditional–contemporary construct in relation to the learning paradigms in the discipline of didactics of mathematics*
10.15 - 10.30	Josipa Čuka, Maja Cindrić, Maja Čuletić Čondrić *Teacher's beliefs about teaching mathematics and teaching practice in Croatian primary schools*

A section

Room 31 / Chairperson: Zdenka Kolar-Begović	
11.00 - 11.30	Emil Molnár *On Kárteszi points of a triangle, via three reflections theorem and geometric algebra*
11.30 - 11.45	Maja Čuletić Čondrić, Maja Cindrić, Josipa Čuka *The importance of thought transformations in learning geometry based on Van Hiele's theory*
11.45 - 12.00	Nikolina Kovačević *Learner-generated drawings in mathematics: Who? When? How?*
12.00 - 12.15	Marija Jakuš *Sudoku puzzle*
12.15 - 12.30	Maja Cindrić, Josipa Čuka, Maja Čuletić Čondrić *Mathematics teaching in public schools in Croatian countries in the era of proto-modernization*

B section

Room 22 / Chairperson: Karolina Dobi Barišić	
11.00 - 11.15	Zoran Horvat, Ružica Jurčević *Digital pedagogy and teaching mathematics - Trends, perspectives, limitations and challenges*
11.15 - 11.30	Ivana Đurđević Babić, Natalija Bošnjaković *Decision trees in research on mathematics in elementary school*
11.30 - 11.45	Dubravka Glasnović Gracin, Ana Krišto *Requirements in digital mathematics textbooks: Development of the framework for task analysis*
11.45 - 12.00	Anja Horvat, Hana Horvat, Hanna Jakovac, Anamarija Kanisek, Ana Katalenić *Word problems in the textbooks for primary mathematics education in Croatia*
12.00 - 12.15	Goran Trupčević, Anđa Valent, Ana Žgaljić Keko *Discipline of noticing – The case of three university teachers*
12.15 - 12.30	Darija Marković, Ljerka Jukić Matić *Games in mathematics classroom: What do teachers and students think about them?*
12.30 - 12.45	Ljiljanka Kvesić, Maja Zubac, Marina Lasić *Mathematical teaching of preschool children through elements of performing arts*

13.00	CLOSING
	LUNCH

FACULTY OF EDUCATION, OSIJEK
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