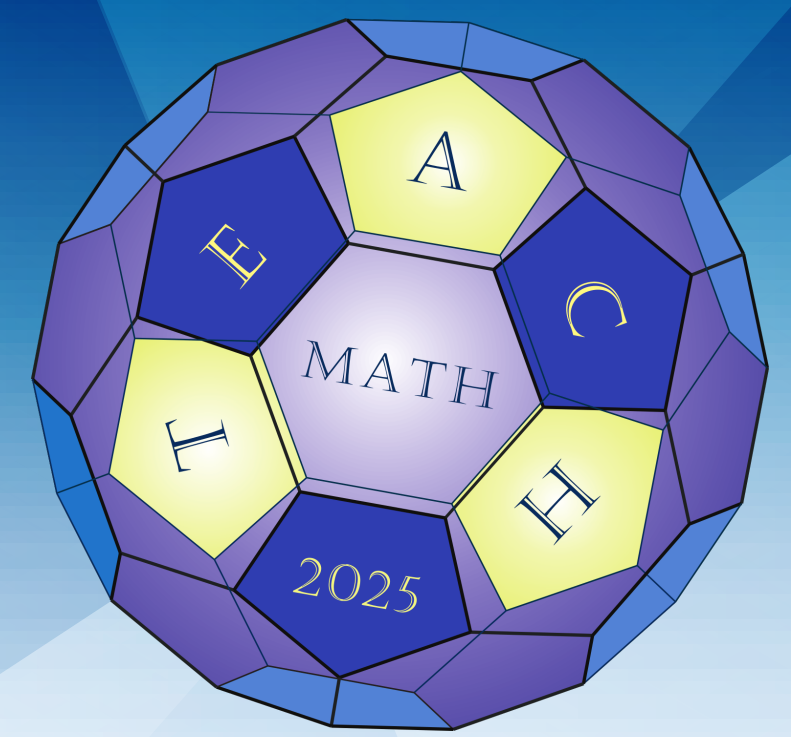


10<sup>th</sup> International Scientific Colloquium  
**MATHEMATICS AND CHILDREN**  
founded by Margita Pavleković  
**PROGRAM**



**FRIDAY, May 9**

**8.00 - 9.00**      **Registration**  
**9.00 - 9.30**      **OPENING**

**Morning Session**

Room 31 / Chairperson Diana Moslavac Bičević	
9.30 - 10.15	<b>Plenary lecture</b> Tatjana Hodnik <i>How the Mathematics and Children Research Group Has Contributed to the Field of Teaching and Learning Mathematics over 20 Years - Invited Lecture on the Occasion of the 10th Anniversary of the Mathematics and Children International Scientific Colloquium in Osijek</i>
	Sanja Rukavina, Marina Šimac <i>Development of Screening Tests in Mathematics for 6th and 8th Grade</i>
10.15 - 10.30	Janka Szeibert, Anna Krisztina Stirling, Csaba Szabó <i>Problem Posing in the Mathematics Classroom – I Know It Is Effective, but How Can I Implement It?</i>
10.30 - 10.45	Mihaela Bosak, Marija Jakuš <i>The Impact of Contextual Tasks on Students' Attitudes toward Learning Mathematics</i>
10.45 - 11.00	
11.00 - 11.30	Coffee Break

Room 31 / Chairperson Ljerka Jukić Matić	
11.30 - 11.45	Suzana Antunović, Ljiljana Arambašić, Anda Valent <i>From Problem Solving to Problem Posing: Two Classroom Examples</i>
11.45 - 12.00	Blerina Tafolli Avdylaj, Tatjana Hodnik <i>Exploring Students' Understanding of Fractions through Problem Posing and Problem Solving</i>
12.00 - 12.15	Branka Antunović, Vida Manfreda Kolar <i>Designing Activities to Foster Primary Students' Geometrical Reasoning through Cognitive Apprehension</i>
12.15 - 12.30	Dubravka Glasnović Gracin, Katarina Širanović <i>The Role of Visual Elements in Mathematics Textbooks: Developing Early Disciplinary Literacy</i>
12.30 - 12.45	Jasmina Milinković, Nives Baranović <i>Visualizing Division in Mathematical Textbooks</i>
12.45 - 13.00	Zoran Horvat <i>Cognitive and Social Factors of Student Workload in All-Day School: The Perspective of Mathematics Teaching in the Upper Primary Stage</i>
13.00 - 14.00	LUNCH

**Afternoon Session**

Room 31 / Chairperson Ana Katalenić	
14.00 - 14.45	<b>Plenary lecture</b> Željka Milin Šipuš <i>Mathematics and Other Disciplines: Epistemological and Didactical Challenges</i>
14.45 - 15.00	Emil Molnár <i>The "Quantum Dots" (Chemistry Nobel Prize 2023) as an "Application" of My Non-Orientable Space Groups (Published in 1983–84), with Mistakes Improved</i>
15.00 - 15.15	Ana Žgaljić Keko <i>Conceptual Teaching Approach Applied to a Numerical Mathematics Course</i>
15.15 - 15.30	Coffee Break

Room 31 / Chairperson Karolina Dobi Barišić	
15.30 - 15.45	Edith Debrenti, Tünde - Klára Baranyai <i>Applications of the Poly-Universe Game: An Experiment with Students</i>
15.45 - 16.00	Katarina Širanović, Goran Trupčević, Dubravka Glasnović Gracin <i>Exploring Digital Resources as an Assessment System: Who Is the Feedback Intended For?</i>
16.00 - 16.15	Mandi Orlić Bachler, Luka Marohnić <i>Application of the GNU Tools TeXmacs and Giac/Xcas in the Creation of Teaching Materials</i>
16.15 - 16.30	Vida Manfreda Kolar, Adrijana Mastnak <i>Insights into Self-Reflection and Self-Assessment of the Development of Teaching Competences in Mathematics Students</i>
16.30 - 16.45	Attila Bölcskei <i>Geometry Meets Statistics: The Simpson's Paradox</i>
17.00	Excursion and Colloquium Dinner (Dalj)

**SATURDAY, May 10**

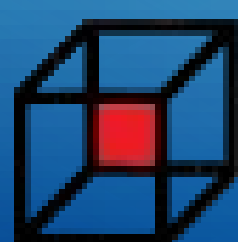
**Morning Session**

Room 31 / Chairperson Ana Mirković Moguš	
9.00 - 9.15	Angela Petrovska, Neva Slani <i>Enhancing the Primary Mathematics Curriculum in Croatia through the Singapore Model Method: A Comparative Study and Proposal</i>
9.15 - 9.30	Suzana Antunović <i>Overcoming Challenges: Unexpected Problems in Higher Education Mathematics</i>
9.30 - 9.45	Eleonóra Stettner <i>Poly-Universe in Teacher Training and Kindergarten</i>
9.45 - 10.00	Ružica Kolar-Šuper, Diana Moslavac-Bičević, Zdenka Kolar-Begović <i>Mathematical Personality in the Context of Mathematical Problem-Solving Strategies</i>
10.00 - 10.15	Josipa Matotek <i>Developing a Research Instrument for Task Analysis – A Methodological Approach</i>
10.15 - 10.30	Ljiljanka Kvesić, Katarina Šimić, Marina Zubac <i>Mathematics and Inclusion – The Role of Teaching Assistants in Working with Children with Learning Difficulties in Mathematics</i>
10.30 - 11.00	Coffee Break

Room 31 / Chairperson Ana Katalenić	
11.00 - 11.15	Darija Marković, Ljerka Jukić Matić <i>Students' Perceptions of the Games GeomWiz and Function Dungeon: Analysis of Digital Game-Based Learning in Secondary Mathematics</i>
11.15 - 11.30	Željko Gregorović, Ana Mirković Moguš <i>Minecraft as a Mathematical Playground: A Review of Educational Applications, Computational Models, and Mathematical Insights</i>
11.30 - 11.45	Karolina Dobi Barišić, Ana Katalenić <i>Transitions in STEM Education: A Systematic Literature Review</i>
11.45 - 12.00	Anita Čorak, Ljerka Jukić Matić <i>Addicted to the Game: A Design-Based Approach to Teaching Linear Dependence</i>
12.00 - 12.30	Poster Session Zdenka Kolar-Begović, Ružica Kolar-Šuper, Ana Katalenić, Diana Moslavac-Bičević, Željko Gregorović, Saša Duka <i>Margita Pavleković – Educator, Researcher, Visionary: A Life Devoted to Mathematics and Students</i> Sanja Vranić, Željka Milin Šipuš <i>Mathematical Terminology and Didactic Transposition: Equivalent Fractions in Primary Education</i> Milena Sošić <i>The Graph of a Function Determined by a Polar Equation and the Construction of Rose Curves in the Polar Coordinate System</i>

12.30      CLOSING  
LUNCH

**FACULTY OF EDUCATION, OSIJEK**  
**May 9-10, 2025**



HRVATSKA  
ZAJEDNICA  
TEHNIČKE  
KULTURE

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