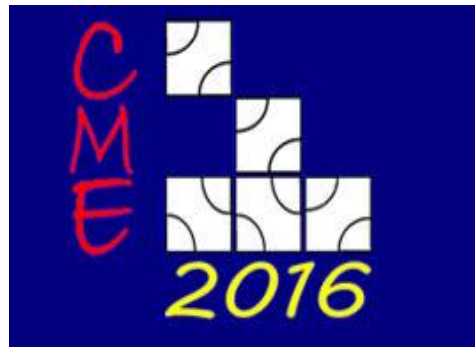


CME 2016

Children's Mathematical Education



Inquiry based mathematical education

CONFERENCE PROGRAM



Ministry of Science
and Higher Education
Republic of Poland



WROCŁAW, POLAND

18-21 JULY 2016

Date/Hour	Monday 18.07	Tuesday 19.07	Wednesday 20.07	Thursday 21.07
8.00 - 8.30		Late registration		
8.30 - 9.00	Registration	Plenary F. Arzarello	Plenary G. Törner	
9.00 - 9.30		Working Seminar 2	Working Seminar 3	Plenary J. Back, R. Griffiths
9.30 - 10.00				Working Seminar 4
10.00 - 10.30	Opening ceremony			
10.30 - 11.00	Plenary A. Sierpińska	Posters & Coffee	Coffee	
11.00 - 11.30	Coffee		Research Reports	Coffee
11.30 - 12.00	Working Seminar 1	Workshops	Lecture	Research Reports
12.00 - 12.30				Lecture
12.30 - 13.00				
13.00 - 13.30			Lunch	Lunch
13.30 - 14.00	Lunch	Lunch	Excursion	Reports from Working Seminars
14.00 - 14.30	Research Reports	Art Exhibition Lecture J. Świątkowski in Royal Palace & City walk		Closing Ceremony
14.30 - 15.00				
15.00 - 15.30				
15.30 - 16.00	Coffee			
16.00 - 16.30	Workshops			
16.30 - 17.00				
17.00 - 17.30				
17.30 - 18.00				
18.00-18.30				
18.30-19.00				
19.00-22.00	River Cruise & Grill Party			

The CME'16 conference will take place in Wrocław,
at the building of **Institute of Mathematics**, University of Wrocław.
Address:
Pl. Grunwaldzki 2/4
50-384 Wrocław
Phone 0048 713757402 (Secretary, from 8.00 to 15.00)

DETAILED CONFERENCE PROGRAM

Monday, 18.07

8:00 – 10:00	Registration			
10:00 – 10:30	Opening ceremony			
	Hugo Steinhaus Hall			
10:30 – 11:30	<p>Plenary lecture: Anna Sierpińska Inquiry-based learning approaches and the development of theoretical thinking in the mathematics education of future elementary school teachers (chairperson: Ewa Swoboda)</p> <p style="text-align: center;">Hugo Steinhaus Hall</p>			
11:30 – 12:00	Coffee			
	Walkway			
12:00 – 13:30	Working seminars			
	Room 604 3-6, leader: Liz Woodham	Room 603 7-9, leaders: Małgorzata Zambrowska & Marcin Karpiński	Room 602 10-12, leader: Leonid Shlyapochnik	Room 601 13-16, leader: Michal Tabach & Alex Friedlander
13:30 – 14:30	Lunch			
	Faculty canteen			
14:30 – 16:00	Research reports			
	Session A (chairperson: Jan Guncaga) Stanislaw Hartman Hall Chrysanthi Skoumpourdi Patterns for kindergartners: a developmental framework Eva Nováková Discovering geometrical concepts in the countryside and in mathematics education Marta Pytlak An arithmetic task developing third grade students' creative thinking	Session B (chairperson: Marie Ticha) Bronislaw Knaster Hall Eszter Herendiné-Kónya Area measurement teaching in a grade 6 classroom Gyöngyi Szanyi Word problems for the preparation of the function concept Ivan R. Vysotskiy School Olympiads on probability theory	Session C (chairperson: Lambrecht Spijkerboer) Edward Marczewski Hall Edyta Juskowiak Appropriate selection of mathematics tasks as a support of effective teacher's work Tatjana Hodnik Čadež, Vida Manfreda Kolar "There are more parts" – learning and teaching through monitoring pupils' problem solving Miroslawa Sajka The attitude of pre-service mathematics teachers towards inquiry-based education	

16:00 – 16:30	Coffee		
	Walkway		
16:30 – 18:00	Workshops		
	Room 601 Atara Shriki, <u>Liora Nutov</u> Illustrating the dynamic nature of area-perimeter relationships through fractals	Room 602 Agata Hoffman Art of asking questions- “Why”?	Room 603 Marek Matejuk* Mathematical Pretexts
19:00 – 22:00	Odra river cruise & grill party		

Tuesday, 19.07

8:30 – 9:30	Plenary lecture: Ferdinando Arzarello Basing on an inquiry approach to promote mathematical thinking in the classroom (chairperson: Konstantinos Tatsis) Hugo Steinhaus Hall			
9:30– 11:00	Working seminars			
	Room 604 3-6, leader: Liz Woodham	Room 603 7-9, leaders: Małgorzata Zambrowska & Marcin Karpiński	Room 602 10-12, leader: Leonid Shlyapochnik	Room 601 13-16, leader: Michał Tabach & Alex Friedlander
11:00 – 12:00	Poster Session & Coffee			
	Walkway			
12:00 – 13:30	Workshops		Lecture	
	Room 601 Lambrecht Spijkerboer Surface and deep approach	Room 602 Olga Jurak, Dominika Markiewicz* Smart calculation techniques	Room 603 Elżbieta Kalinowska* Specific difficulties in learning mathematics	
13:30 – 14:30	Lunch			
	Faculty canteen			
14:30 – 18:00	Wacław Szpakowski “Rhythmic Lines” – art exhibition Jacek Świątkowski “Mathematics in Szpakowski’s art” – lecture* Municipality Museum in Royal Palace & City walk Cathedral Island, Old University, Market Square, Old Town			

Wednesday, 20.07

8:30 – 9:30	Plenary lecture: Günter Törner Adult-learning of teachers - often overlooked restrictions for continuous professional development (chairperson: Tomasz Szemberg) Hugo Steinhaus Hall			
9:30 – 11:00	Working seminars			
	Room 604 3-6, leader: Liz Woodham	Room 603 7-9, leaders: Małgorzata Zambrowska & Marcin Karpiński	Room 602 10-12, leader: Leonid Shlyapochnik	Room 601 13-16, leader: Michal Tabach & Alex Friedlander
11:00 – 11:30	Coffee			
11:30 – 13:00	Walkway			
	Research Reports			
	Session A (chairperson: Tatiana Hodnik) Stanislaw Hartman Hall Joana Silva, <u>Ema Mamede</u> Exploring patterns using inquiry-based lessons Emmanouela Skandalaki, Chrysanthi Skoumpourdi Two – step problem solution by 7-8 year-old students Paola Vighi How to compare surfaces?	Session B (chairperson: Miroslawa Sajka) Bronislaw Knaster Hall Konstantinos Tatsis, Bożena Maj-Tatsis Problems posed by preservice teachers – How do they fit in an inquiry mathematics classroom? Libuše Samková, <u>Marie Tichá</u> On the way to improve primary teachers’ professionalism: The case of inquiry and concept cartoons <u>Andreas Moutsios- Rentzos, Eleni Leontiou</u> Systemic investigations about parental involvement in mathematics	Session C (chairperson: Eszter Konya) Edward Marczewski Hall Joanna Jureczko Spacial modelling as motivation for studying mathematics Monika Czajkowska To what extent can a computer replace geometrical solid model manipulation? (on certain aspects of teaching spatial geometry in middle school)	
13:00 – 14:00	Lunch			
14:00	Faculty canteen Excursion to Książ Castle Departure from the Odra river bank next to the university venue Expected return time 20:00			

Thursday, 21.07

9:00 – 10:00	Plenary lecture: <u>Jenni Back</u>, Rose Griffiths Making Numbers: supporting teachers and children to use manipulatives to understand arithmetic (chairperson: Paola Vighi) Hugo Steinhaus Hall			
10:00 – 11:30	Working seminars			
	Room 604 3-6 , leader: Liz Woodham	Room 603 7-9 , leaders: Małgorzata Zambrowska & Marcin Karpiński	Room 602 10-12 , leader: Leonid Shlyapochnik	Room 601 13-16 , leader: Michal Tabach & Alex Friedlander
11:30 – 12:00	Coffee			
12:00 – 13:00	Research reports		Lecture	
	Session A (chairperson: Edyta Juskowiak) Stanislaw Hartman Hall Beata Strycharz-Szemberg, <u>Tomasz Szemberg</u> From a problem to an open problem <u>Ewa Swoboda</u>, Sebastian Kwolek Deepening mathematical knowledge by using a "black box"		Bronislaw Knaster Hall Małgorzata Mikołajczyk* Archimedean Geometry Tricks	
13:00 – 14:00	Lunch			
	Faculty canteen			
14:00 – 15:00	Reports from Working Seminars Hugo Steinhaus Hall			
15:00 – 15:30	Closing ceremony Hugo Steinhaus Hall			
18:00 – 20:00	Gala Dinner Restaurant "Plastyczna"			

*These activities are offered by University of Wrocław as complementary to CME'16 program.