

**CME 2010**  
**Children's Mathematical Education**



**IWONICZ-ZDRÓJ, POLAND**

**24-29 AUGUST 2010**

**Motivation via Natural Differentiation in Mathematics**

**CONFERENCE PROGRAM**



## DETAILED CONFERENCE PROGRAM

### Tuesday, 24.08

10:00 – 15:00	Registration
14:00 – 15:00	Coffee break
15:00 – 16:00	Opening ceremony <span style="float: right;">Hotel Glorietta</span>
16:00 – 17:30	<b>Plenary lecture:</b> Günter Krauthausen, Petra Scherer – <i>Natural Differentiation in Mathematics (Nadima) Theoretical Backgrounds &amp; Selected Arithmetical Learning Environments</i> (chairperson: Lambrecht Spijkerboer) <span style="float: right;">Hotel Glorietta</span>
19:00	Reception, dinner

### Wednesday, 25.08

9:00 – 10:15	<b>Plenary lecture:</b> Stefan Turnau, <i>Theory of Didactic Situations from the Polish Perspective</i> (chairperson: Carlo Marchini) <span style="float: right;">Hotel Glorietta</span>			
10:15 – 11:00	Coffee break			
11:00 – 12:30	Working seminars			
	<b>Room C</b> <b>3-6, leaders:</b> Edyta Gruszczyk-Kolczynska, Paola Vighi	<b>Room B</b> <b>7-9, leaders:</b> Günter Krauthausen, Petra Scherer	<b>Room A</b> <b>10-12, leaders:</b> Marie Ticha, Filip Roubicek, Alena Hospesova	<b>Aula</b> <b>13-16, leader:</b> Jaroslav Zhouf, Naďa Stehlíková
12:30 – 13:00	Lunch			
13:00 – 14:30	Time for individual meetings			
14:30 – 16:00	Research reports			

	<p><b>Session A</b> (chairperson: Silva Kmetič), room A</p> <p><b>Konstantinos Tatsis</b> – <i>Pre-service teachers' first-time creations of open-ended problems</i></p> <p><b>Bozena Maj</b> – <i>Analyzing mathematics students' lesson plans: focusing on creative mathematical activities</i></p> <p><b>Jenni Back</b> – <i>Professional development for teachers of mathematics: engaging with research and student learning</i></p>	<p><b>Session B</b> (chairperson: Ioannis Papadopoulos) room B</p> <p><b>Jiří Bureš, Hana Nováková, Jarmila Novotná</b> – <i>Devolution as a motivating factor in teaching mathematics</i></p> <p><b>Jenny Young-Loveridge, Judith Mills</b> – <i>"Without maths we wouldn't be alive": Children's motivation towards learning mathematics in the primary years</i></p> <p><b>Elga Dreilinga, Elita Volāne, Elfrīda Krastiņa</b> – <i>Motivation of acquiring the content of mathematics, domestic science and technologies in integrated learning at primary school</i></p>	<p><b>Session C</b> (chairperson: Marianna Ciosek) room C</p> <p><b>Marta Pytlak</b> – <i>The social character of learning via building individual cognitive webs.</i></p> <p><b>Jodie Hunter</b> – <i>Developing early algebraic reasoning through exploration of odd and even numbers</i></p> <p><b>Beata Matłosz</b> – <i>The effect of intelligence type on learning algebra</i></p>
16:00 – 16:30	Coffee break		
16:30 – 18:00	Workshops		
	<p>Room A</p> <p><b>Lisicki Michał, Skura Małgosia</b> – <i>About the difficult art of time-orientation</i></p>	<p>Room B</p> <p><b>Beata Matłosz, Mirosława Sajka</b> – <i>Applying the theory of multiple intelligences</i></p>	<p>School in Iwonicz</p> <p><b>Andriy Kovalchuk, Vyacheslav Levitsky, Igor Samolyuk, Valentyn Yanchuk</b> – <i>Formulator TARSIA: a software tool for creating learning activities</i></p>
19:00	Conference dinner		

## Thursday, 26.08

9:00 – 10:15	<p><b>Plenary lecture:</b> Maarten Dolk, <i>Teachers practices supporting classroom conversations</i> (chairperson Jenni Back) Hotel Glorietta.</p>			
10:15 – 11:00	Coffee break			
11:00 – 12:30	Working seminars			
	<p><b>Room C</b> <b>3-6</b>, leaders: Edyta Gruszczyk-Kolczynska, Paola Vighi</p>	<p><b>Room B</b> <b>7-9</b>, leaders: Günter Krauthausen, Petra Scherer</p>	<p><b>Room A</b> <b>10-12</b>, leaders: Marie Ticha, Filip Roubicek, Alena Hospesova</p>	<p><b>Aula</b> <b>13-16</b>, leader: Jaroslav Zhouf, Naďa Stehlíková</p>
12:30 – 13:00	Lunch			
13:00	Excursion			
18:30	Dinner			

## Friday, 27.08

9:00 – 10:15	<b>Plenary lecture:</b> Pessia Tsamir and Dina Tirosh, <i>Defining and proving with teachers: from preschool to secondary school</i> (chairperson Konstantinos Tatsis) Hotel Glorietta			
10:15 – 11:00	Coffee break			
11:00 – 12:30	Working seminars			
	<b>Room C</b> <b>3-6, leaders:</b> Edyta Gruszczyk-Kolczynska, Paola Vighi	<b>Room B</b> <b>7-9, leaders:</b> Günter Krauthausen, Petra Scherer	<b>Room A</b> <b>10-12, leaders:</b> Marie Ticha, Filip Roubicek, Alena Hospesova	<b>Aula</b> <b>13-16, leader:</b> Jaroslav Zhouf, Naďa Stehlíková
12:30 – 13:00	Lunch			
13:00 – 14:30	Time for individual meetings			
14:30 – 16:00	Research reports			
	<b>Session A</b> (chairperson: Filip Roubicek), room A  <b>Konstantinos Tatsis, Božena Maj</b> – <i>Pre-service mathematics teachers' strategies in solving a real-life problem</i>  <b>Miroslawa Sajka</b> – <i>Pre-service mathematics teachers' understanding of the basic symbolism of functions</i>  <b>Lenka Tejkalová</b> – <i>Mathematics and language integrated learning – identifying teacher competences</i>	<b>Session B</b> (chairperson: Gabriela Pavlovičová) room B  <b>Paola Vighi</b> – <i>Proportional reasoning and similarity</i>  <b>Ewa Swoboda, Edyta Jagoda</b> – <i>Various intuitions of the point symmetry from the Polish school perspective</i>  <b>Barbora Divišová, Naďa Stehlíková</b> – <i>Ability to see in geometry or a geometric eye</i>	<b>Session C</b> (chairperson: Zbigniew Semadeni) room C  <b>Edyta Juskowiak</b> – <i>Graphic calculator as a tool for provoking students' creative mathematical activity</i>  <b>Ioannis Papadopoulos</b> – <i>Using simple arithmetic calculators as a diagnostic tool on place-value</i>  <b>Vida Manfreda Kolar, Tatjana Hodnik Čadež</b> – <i>Didactic material as a mediator between physical manipulation and thought processes in learning mathematics</i>	
16:00 – 16:30	Coffee break			
16:30 – 18:00	Workshops			
	<b>Room A</b>  <b>Jenni Back, Jodie Hunter</b> – <i>Tasks and big ideas in supporting teachers to develop professionally</i>	<b>Room B</b>  <b>Ketty Savioli, Francesca Ferrara, Luciana Bazzini</b> – <i>Analysing children's understanding from a semiotic stance</i>	<b>School in Iwonicz</b>  <b>Silva Kmetič</b> – <i>Computers help math learning</i>	
18:30	Dinner			
19:00	Social evening			

## Saturday, 28.08

9:00 – 10:30	Working seminars			
	<b>Room C</b> <b>3-6, leaders:</b> Edyta Gruszczyk-Kolczynska, Paola Vighi	<b>Room B</b> <b>7-9, leaders:</b> Günter Krauthausen, Petra Scherer	<b>Room A</b> <b>10-12, leaders:</b> Marie Ticha, Filip Roubicek, Alena Hospesova	<b>Aula</b> <b>13-16, leader:</b> Jaroslav Zhouf, Naďa Stehlíková
10:30 – 11:00	Coffee break			
11:00 – 12:30	Research reports			
	<b>Session A</b> (chairperson: Ema Mamede), room A  <b>Bożena Rożek</b> – <i>Structures of 2d arrays identified in children’s drawings</i>  <b>Cristina Sabena, Luciana Bazzini, Chiara Strignano</b> – <i>Imagining a mysterious solid: the synergy of semiotic resources</i>  <b>Eszter Herendiné-Kónya, Margit Tarcsi</b> – <i>Preparation for and teaching of the concept of area</i>	<b>Session B</b> (chairperson: Mirosława Sajka) room B  <b>Antonella Montone, Michele Pertichino</b> – <i>Mathematics in kindergarten: grown-up things</i>  <b>Despina Desli</b> – <i>Young children’s organization and understanding of data in everyday mathematics situations</i>  <b>Anna Żeromska</b> – <i>The perimeter and surface of geometrical figures – how do school students understand these concepts?</i>	<b>Session C</b> (chairperson: Andras Ambrus) room C  <b>Carlo Marchini, Jenni Back</b> – <i>Teachers’ best practices using differentiation</i>  <b>Marianna Ciosek</b> – <i>How to help a student who errs while knowing</i>  <b>Dorota Turska, Ryszarda Ewa Bernacka</b> – <i>Conduct of male teachers of mathematics in the perception of female and male pupils. A lower secondary school perspective</i>	
12:30 – 13:00	Lunch			
13:00 – 14:00	Time for individual meetings			
14:00 – 15:30	Research reports		Workshops	
	<b>Session A</b> (chairperson: Margit Tarcsi), room A  <b>Francesca Ferrara, Ketty Savioli</b> – <i>Acquiring a sense of motion: toward the concept of function at primary school</i>  <b>Paula Cardoso, Ema Mamede</b> – <i>Analysing the effects of situations on fractions learning environments – the case of quotient situations</i>  <b>Gabriela Pavlovičová, Júlia Záhorská</b> – <i>The impact of formative assessment on pupil’s academic achievement at the elementary school</i>	<b>Session B</b> (chairperson: Ewa Swoboda) room B  <b>Aleksandra Urbanska</b> – <i>Number banknotes in children’s activity</i>  <b>Monika Czajkowska, Michał Sitek</b> – <i>Mathematics and mathematics pedagogy knowledge of future teachers in Poland. The results of the TEDS-M 2008 study</i>	School in Iwonicz  <b>Bronisław Pabich</b> – <i>CABRI as didactic tool in the teaching of math</i>	

15:30 – 16:00	Coffee break		
16:00 – 17:30	Workshops		
	Room B  <b>Carol Murphy</b> – <i>Dialogue and Arithmetic: Defining the dialogic space and analysing the learning</i>	Room C  <b>Agata Hoffmann</b> – <i>Perpetum Mobile – Mathematics as a motivational factor of teaching-learning mathematics?</i>	Aula  <b>Uldarico Malaspina Jurado</b> – <i>Searching for optimal solutions with children</i>
18:00	Dinner		
19:00	Social evening – campfire		

## Sunday, 29.08

9:00 – 10:00	Seminar presentations	
	<b>Aula</b> <b>3-6</b> , leaders: Edyta Gruszczyk-Kolczynska, Paola Vighi	<b>Room C</b> <b>10-12</b> , leaders: Marie Ticha, Filip Roubicek, Alena Hospesova
10:00 – 10:30	Coffee break.	
10:30 – 11:30	Seminar presentations	
	<b>Aula</b> <b>7-9</b> , leaders: Günter Krauthausen, Petra Scherer	<b>Room C</b> <b>13-16</b> , leader: Jaroslav Zhouf, Naďa Stehlíková
11:30 – 12:30	Closing Ceremony	
	Aula	
12:30 – 13:00	Lunch	