

SEMT
'11

International Symposium Elementary Mathematics Teaching

Prague, Czech Republic
Charles University in Prague, Faculty of Education
Club of Friends of Didactics of Mathematics at Charles University
August 21 - 26, 2011

Programme

Sunday August 21, 2011

13:00-16:00	Registration	
16:00-16:30	Opening	Aula
16:30-18:00	<i>S. Vinner</i> : The elementary teacher – beyond mathematical knowledge	Aula

Monday August 22, 2011

9:00-10:30	<u>Workshops</u>	
	A1 – <i>E. Levenson, R. Barkai</i> : Explanations, justifications, and proofs in elementary school	R003
	A2 – <i>A. Jančařík</i> : Mathematics Ludus	VS
	A3 – <i>M.-P. Chopin, J. Novotná</i> : Theory of didactical situations (TDS) and its relationships with mathematics education	Aula
11:00-12:30	<i>E. Wittmann</i> : Early mathematical education: A plea for mathematically founded conceptions	Aula
14:00-14:30	<i>A. Savard</i> : Elementary teachers do not teach through mathematics	R003
	<i>N. Panorkou</i> : A phenomenographic study on students' experiences of dimension	VS
	<i>E. Levenson</i> : Exploring the roles of the teacher in promoting collective mathematical creativity	Aula
14:30-15:00	<i>A. Chestnut</i> : Using pedagogical content scaffolds evidenced in transcripts to measure teacher knowledge	R003
	<i>E. Swoboda</i> : Axis symmetry as an epistemological obstacle	VS
	<i>J. Bureš, R. Havlíčková, J. Novotná</i> : Analysis of a young teacher's communication with pupils in a mathematical environment fostering combinatorial reasoning (a case study)	Aula
15:00-15:30	<i>T. Marcinek, E. Partová</i> : Measures of mathematical knowledge for teaching: Issues of adaptation of a US developed instrument for the use in the Slovak Republic	R003
	<i>J. Kloboučková</i> : Cube building in primary school geometry	VS
	<i>M.-P. Chopin</i> : Didactic time and heterogeneities in mathematics teaching: How teachers deal with clock, knowledge and pupils in their practice	Aula
16:00-17:30	<u>Workshops</u>	
	B1 – <i>B. Hodgson, C. Lajoie, L. Poirier</i> : The mathematical preparation of elementary school teachers: facing the challenge from three complementary perspectives	R003
	B2 – <i>M. Kaslová</i> : The role of photography in the teaching of maths	VS
	B3 – <i>S. Hershkovitz, M. Tabach</i> : Instruction and technology	IT
19:00-22:00	Welcome party	

Tuesday August 23, 2011

9:00-10:30	<u>Workshops</u> B1 – <i>B. Hodgson, C. Lajoie, L. Poirier</i> : The mathematical preparation of elementary school teachers: facing the challenge from three complementary perspectives B2 – <i>M. Kaslová</i> : The role of photography in the teaching of maths B3 – <i>S. Hershkovitz, M. Tabach</i> : Instruction and technology	R003 VS IT
11:00-12:30	<i>M. Bartolini-Bussi</i> : Towards a cultural analysis of the content to be taught in elementary school	Aula R003
14:00-14:30	<i>E. Jagoda</i> : Symmetry in a static and dynamic environment <i>P. Guidoni, M. Mellone, C. Minichini, M. Serpico</i> : Towards a “resonance” comprehension of the polynomial representation of numbers <i>M. Kaslová, C. Marchini</i> : The mathematical knowledge needed for teaching to five year old pupils	VS Aula
14:30-15:00	<i>I. Peled, S. Anat</i> : Prospective teachers experiencing the power of intuitive knowledge involving percentages <i>A. Seifert</i> : Improving mathematical knowledge through targeted instruction: focusing on data utilization to improve teaching and learning <i>P. Tsamir, D. Tirosh, R. Barkai, M. Tabach, E. Levenson</i> : Investigating the effects of an intervention on the geometric knowledge of abused and neglected kindergarten children	R003 VS Aula
15:00-15:30	<i>M.M. Capraro, R.M. Capraro, R Rosli, SY. Han, A. Harbaugh, P. L. Moch</i> : Teacher educator strategies for improving preservice teachers’ knowledge of fractions <i>J. Young-Loveridge, J. Mills</i> : The challenge for teachers of helping students acquire a range of strategies to solve addition and subtraction problems <i>V.V. Cifarelli, S. P. Morge, D. Pugalee, T. Goodson-Espy</i> : Examining the math content and pedagogical knowledge of pre-service teachers: How Katelyn and Matthew made sense of students' problems	R003 VS Aula
16:00-17:30	<u>Workshops</u> A1 – <i>E. Levenson, R. Barkai</i> : Explanations, justifications, and proofs in elementary school A2 – <i>A. Jančařík</i> : Mathematics Ludus A3 – <i>M.-P. Chopin, J. Novotná</i> : Theory of didactical situations (TDS) and its relationships with mathematics education	R003 VS Aula

Wednesday August 24, 2011

9:00-9:30	<i>E. Polotskaia, A. Savard, V. Freiman</i> : A “fairy” tale to represent a holistic approach to additive word problem solving <i>P. Vighi, C. Marchini</i> : A-priori analysis as a revealing tool of ‘new enrolled’ teachers’ mathematical knowledge – A case study <i>M. Tabach</i> : Promoting technology integration among prospective teachers of mathematics	R003 VS Aula
9:30-10:00	<i>M. Hejny</i> : The process of discovery in teaching focusing on building schemes <i>H. Nováková, J. Novotná</i> : A priori analysis in theory and teachers’ practice <i>R. Cabassut</i> : Mathematical knowledge for teaching modelling in elementary school	R003 VS Aula
10:00-10:30	<i>C. Mathews, H. Venkat, J. du Plessis</i> : To be or not to be: Examples and non-examples of patterns <i>L. Kasmer, E. Billings</i> : Prediction questions in the elementary classroom <i>B. Divišová, N. Stehlíková</i> : Geometric problems effectively solvable without algebraic calculations	R003 VS Aula
11:00-11:30	<i>A. Hošpesová</i> : Mosaics as substantial learning environment in geometry <i>J. van Bommel</i> : Preparing student teachers with MKT	R003 VS

	<i>C. Sheets, V.V. Cifarelli</i> : Developing instructional sequences in pre-service K-2 elementary mathematics teacher education	Aula
11:30-12:00	<i>X. Xistouri, D. Pitta-Pantazi</i> : The structure of elementary students' ability in geometric transformations: The case of translation	R003
	<i>C.M. Ribeiro, J. Carillo</i> : Discussing Maria's MKT and beliefs in the task of teaching	VS
	<i>S. Anastasiadou</i> : Greek pre-service teachers' cognitive abilities in understanding central tendency measures: a multilevel statistical analysis	Aula

14:00 *Excursion*

Thursday August 25, 2011

9:00-10:30	<u>Workshops</u>	
	A1 – <i>E. Levenson, R. Barkai</i> : Explanations, justifications, and proofs in elementary school	R003
	A2 – <i>A. Jančařík</i> : Mathematics Ludus	VS
	A3 – <i>M.-P. Chopin, J. Novotná</i> : Theory of didactical situations (TDS) and its relationships with mathematics education	Aula
11:00-12:30	<i>D. Sprangler</i> : Facilitating knowledge development and refinement in elementary school teachers	Aula
14:00-15:30	Posters	
16:00-17:30	<u>Workshops</u>	
	B1 – <i>B. Hodgson, C. Lajoie, L. Poirier</i> : The mathematical preparation of elementary school teachers: facing the challenge from three complementary perspectives	R003
	B2 – <i>M. Kaslová</i> : The role of photography in the teaching of maths	VS
	B3 – <i>S. HersHKovitz, M. Tabach</i> : Instruction and technology	IT

Friday August 26, 2011

9:00-9:30	<i>Chun-ip Fung</i> : A practitioner's encounter with the mathematical knowledge needed for teaching in elementary school	R003
	<i>M. Bardelli</i> : The Pedagogical Content Knowledge of primary mathematics teachers facing a student error	VS
	<i>L. Lang, H. Hawthorne, F. Sakon, A. Reta, R. Schoen</i> : Examining the effects of a K-3 mathematics formative assessment System	Aula
9:30-10:00	<i>J. Cooper</i> : Mathematicians teaching elementary school teachers - A case study	R003
	<i>D. Jirotková</i> : Generic models in geometry	VS
	<i>M.L. Niess, D.K. Pugalee</i> : Assessing K-8 teachers' knowledge for teaching with technology: A complex problem needing a comprehensive assessment system	Aula
10:00-10:30	<i>W. Klassen</i> : The impact of an innovative field based component within the mathematics methods course for preservice teachers at UBC Okanagan	R003
	<i>M. Pytlak</i> : Early algebraic reasoning - discovering regularities on the primary school level	VS
10:45-12:00	Closing session	Aula

Social events

Monday August 22, 2011

19:00-22:00 Welcome party

Wednesday August 24, 2011

14:00 Excursion