



Session 14

DIDACTICAL APPROACHES TO MATHEMATICAL THINKING

Organiser: Ewa Swoboda (Rzeszow)

August 05 / 2013, Room 319N

Time - duration	Presenters	Title	Domain
14.30 – 15.00	Introduction, aims, expectations etc.		
15.00 – 15.30	Maria Salett Biembengut, Stavros Ioannis Kostopoulos	Mathematical Modeling in Engineering: possibilities in teaching Differential Integral Calculus	University students, calculus
15.30 – 16.00	break		
16.00 – 16.30	Anna Pyzara	Modeling - a problem not only for secondary school students	University students, modeling
16.30 - 17.00	Bożena Maj-Tatsis, Konstantinos Tatsis, Ewa Szczerba	The use of variables in a patterning activity	School algebra
17.30 – 18.00	Izabela Solarz	A game which incidentally teaches algebra	School algebra, teaching with IPC
18.00 – 18.30	Time for discussion		

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12.10 – 12.40	E. Y. Bidaibekov, B. G. Bostanov, G. B. Kamalova	“The mathematical heritage of Al-Farabi” by A.Kubesov in modern conditions of education	Geometry, University students, teaching with IPC
12.40 – 13.10	Elena Raenko	About study’s problems of stochastic line in Russian schools and universities	University and secondary students,



			stochastic
lunch			
14.30 – 15.00	Magdalena Kubat	An overview of changes connected with elements of calculus in the syllabus of secondary schools in Poland in years 1970–2013.	Secondary students, calculus
15.30 – 16.00	Valentyna Ternopilska	Main motivation tendencies of future mathematics' teachers' educational and professional activity	University students, teacher training
16.00 – 16.30	Coffee break		
16.30 – 17.00	Swoboda, Maj, Pytlak	Semi-reflection as a method for developing mathematical knowledge for teaching	University students, teacher training
17.00 – 18.00	General conclusions, discussion		