

PROGRAMME

28 JANUARY 2005	FRIDAY
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9.00 - 10.00	Registration
	PRESENTATIONS
???	HALL 1
10.00 - 10.30	Opening Ceremony
Plenary Coordinator	A. Gagatsis
10.30 - 11.10 Plenary Speech 1	The anthyphairetic nature of the platonic principles of infinite and finite. Stylios Negrepontis
11.10 – 11.20	BREAK
Coordinators	M. Becheanu
11.20 – 11.40	Proofs of theorems in plane geometry by exit into space. Michael Lambrou
11.40 – 12.00	Reduction and understanding: the case of quantisation of classical functions. Demetris Portides
12.00 – 12.20	How many core systems for number? Athanassios Raftopoulos
12.20 - 12.40	Mathematics in a foreign language learning strategies. Marie Hofmannová, Jarmila Novotná
12.40 – 13.00	Maths education and training for autonomy in the mentally retarded pupil A. Montone – Michele Pertichino
13.00 – 14.20	LUNCH

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Registration	
PRESENTATIONS	
HALL 2	HALL 3
BREAK	BREAK
J. Novotna	A. Philippou
Should erroneous solutions be presented in schools? Teachers' views. Dina Tirosh, Pessia Tsamir	A review of the effects of different modes of representation in mathematical problem solving. Iliada Elia, Athanasios Gagatsis, Eleni Deliyianni
Using the intuitive rules theory to analyze Cypriot prospective teachers' areas – perimeter solutions. Demetra Pitta-Pantazi, Pessia Tsamir	The role of pictures in solving verbal division problems and the translation ability of second grade students. Agathi Theodoulou, Athanasios Gagatsis, Riana Theodoulou
Emotional Issues in the Learning of Mathematics and Science Michalinos Zembylas	On the visualness in mathematics education. Sava Grozdev
How do greek primary and secondary school teachers perceive and evaluate statistics? A comparative study. Sofia Anastasiadou	The use of the geometrical model of number line for the representation of equivalence and addition of fractions: A study with fifth grade students. Eleni Michaelidou, Athanasios Gagatsis
A mathematics course for elementary school pre-service teachers. George Gadanidis	The number line as a geometrical model for teaching whole number addition and subtraction. Myria Shiakalli, Athanasios Gagatsis
LUNCH	LUNCH

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PRESENTATIONS	
??? ?	HALL 1
Coordinators	M. Zembylas
16.30 – 16.50	The inductive reasoning of top students in mathematics. Constantinos Christou, Marios Antoniadis, Andreas Philippou
16.50 – 17.10	About some basic principles of the extracullar work with talented students. Svetoslav Jor Bilchev, Emiliya Ang. Velikova
17.20 – 17.40	Multicultural classrooms in Italy: A challenge for Maths teachers Favilli Franco, Tintori Stefania
17.40 – 18.00	Understanding of the ordering of numbers and the use of absolute value on the axis of real numbers. Christos Pansidis, Fotini Zoulinaki, Panayiotis Spyrou, Athanasios Gagatsis, Iliada Elia
18.00 – 18.20	Mathematics Competitions and the Development of Mathematics and Mathematics Education Petar Kenderov

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29 JANUARY 2005	SATURDAY
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FRIDAY	28 JANUARY 2005
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PRESENTATIONS	
HALL 2	HALL 3
S. Grozdev	
The illusion of proportionality in solving verbal geometrical problems by sixth grade students and the role of diagrams. Agathi Theodoulou, Athanasios Gagatsis, Riana Theodoulou	
The role of angle in understanding the vectors. George Pavlakos, Panayiotis Spyrou, Athanasios Gagatsis	
The notion of variable: some meaningful aspects of algebraic language. Elsa Malisani	
Introduction of algebraic thinking: connecting the concepts of linear function and linear equation. Vassiliki Farmaki, Nicolaos Klaoudatos, Petros Verikios	

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SATURDAY	29 JANUARY 2005
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PRESENTATIONS	
???	HALL 1
Plenary Coordinator	A. Gagatsis
10.00 -10.40 Plenary speech 3	Research in Mathematics Education: The Theory of Didactical Situation in Mathematics Guy Brousseau
10.40 – 10.50	BREAK
Coordinators	P. Kenderov
10.50 - 11.10	Mathematical research experience of talented high school students in SciTech. Abraham Berman, Felix Goldberg
11.10 – 10.30	Gnomons and their use in teaching. Evangelos Ntziachristos, Dimitris Kontogiannis
11.30 - 11.50	Self-efficacy and burnout in mathematics teaching. Chryso Athanasiou, Demetra Telemachou, George Philippou
11.50 – 12.10	Metacognitive abilities in mathematics in relation to cognitive abilities. Areti Panaoura, George Philippou
12.10 – 12.20	BREAK

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29 JANUARY 2005	SATURDAY
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PRESENTATIONS	
HALL 2	HALL 3
BREAK	BREAK
V. Berinde	E. Velikova
The role of teaching in the development of basic concepts in geometry: the concept of similarity and intuitive knowledge. Kallia Mattheou, Panayiotis Spyrou	The shift for intuition to formal mathematics: A case study. Vassiliki Farmaki, Theodorus Paschos
Certain elements of geometry in Greece and Cyprus in 19 th century. Costas Demetriades, Christos Karydas, Savvas Timotheou, Chrystalla Syrimi-Skitsa, Athanasios Gagatsis	What can we gain from a conceptual change approach to the learning and teaching of mathematics? Stella Vosniadou, Xenia Vamvakoussi, Konstantinos P.Christou
The construction of the concept of similarity – Proportions and the educational experience. George Kospentaris, Panayiotis Spyrou	Mathematics and architecture: the curves and the baroque. Nicoletta Sala
On development of students' abilities in problem posing: A case of plane geometry. Oleksiy Yevdokimov	Calculus for engineers: An application motivated approach. Shuki Aroshas, Igor Verner, Abraham Berman
BREAK	BREAK

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SATURDAY	29 JANUARY 2005
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PRESENTATIONS	
??? ?	HALL 1
Coordinators	J. Zhouf
12.20 – 12.40	Research on mathematical creativity. Emiliya Angelova Velikova
12.40 – 13.00	Motivating students towards math through math clubs. Elena Papanastasiou, Laurie Bottiger
13.00 – 14.30	LUNCH
Plenary Coordinator	F. Spagnolo
14.30 – 15.10 Plenary speech 4	The knowledge quartet: A tool for developing mathematics teaching. Tim Rowland
15.10 – 15.20	BREAK
Coordinators	M. Antoniadis
15.20 – 15.40	Motivation and development of mathematical thinking, using optimization problems. Uldarico Malaspina Jurado
15.40 - 16.00	Attitudes towards mathematics, self-efficacy and achievement in problem solving. Maria Nicolaidou, George Philippou
16.00 - 16.20	Using game theory to increase students' motivation to learn mathematics. Gura Ein-Ya
16.20 – 17.00	CONFERENCE SYNOPSIS

PRESENTATIONS	
HALL 2	HALL 3
M. Hofmannová	S. Anastasiadou
The key element for good teaching: teachers' listening Erkki Pehkonen, Maija Ahtee	“Procedural” is not enough. Buma Abramovitz, Miryam Berezina, Abraham Berman, Ludmila Shvartsman
Some difficulties with the dear old Pythagorean theorem. A prospect for an educational research. Aldo Scimone, Filippo Spagnolo	Mathematics and Constructions. Michael Voskoglou
LUNCH	LUNCH
BREAK	BREAK
T. Gardiner	S. Bilchev
The tactics of mathematics in the capital of Norway. Astrid Stamenov	Didactical aspects of the geometrical transformations study - J.S.Bach's Music Offering. Daniela Galante
Teachers specialization – An Intermediate Report. Abraham Berman, Aliza Malek, Karni Shir, Jacob Thimor	“Teacher as researcher”. Greek Project in action. The case of the perimeter and the area of parallelograms. A research in evaluation. Maria Chionidou-Moskofoglou, Nicolaos Kosmanos, Anastasios Vasiliadis, Sotiris Vogiatzoglou
The Mediterranean mathematics competition – A presentation. Francisco Bellot Rosado	Towards a yin-yang balance in mathematics education MA Li