Abstracts for oral presentations

Monday July 14

16:30-17:30: Oral presentation: **Theme 2 & 3**

**Room A200 Chair:**
Cecilia Costa (Portugal): *The ancestral Chinese method for solving linear systems of equations seen by a ten years old Portuguese boy.*
Shuping Pu (China): *HPM teaching design.*

**Room A210 Chair:**
Panagiotis Delikanlis (Greece): *Meno by Plato: an ancient inexhaustible mine of knowledge.*
Fanglin Tian (China): *Integrating the History into the Teaching of the Concept of Logarithms.*

**Room A212 Chair:**
Morten Misfeldt and Henrik Kragh Sørensen (Denmark): *Cognitive conflicts and exploratory experimentation: How can the continuous overlap between empirical and deductive proof schemes be conceptualized?*
Hong Yanjun (China): *Teaching the Area of a Circle from the Perspective of HPM.*

**Room A214 Chair:**
Zou Jiachen (China): *The Genetic Approach to Teaching the Ellipse.*
Michel Kourkoulos and Costas Tzanakis (Greece): *Statistique et libre arbiter.*

**Room A130 Chair:**
Lei Chang
Maria Zoraide Martins Costa Soares, Rosa Maria Machado and Otília Terezinha Wiemann Paques and Douglas Daniel (Brazil): *Solving some Lamé’s problems using geometric software.*

**Room A104 Chair:**
Mario Sanchez Aguilar (Mexico): *A didactic proposal for using the difference between two*
quantities to analyze the relationships between some magnitudes of the circle.

Tuesday July 15

16:30-18:00: Oral presentation: Theme 1

Room A200 Chair:
Qi Chunyan (China): Analysis about Case of Teaching Mathematics from the Viewpoint of HPM

Michael N. Fried (Israel) and Hans Niels Jahnke (Germany): Toeplitz’s 1926 Paper on the Genetic Method: Meaning and Context.

Ladislav Kvasz (Czech Republic): Degrees of inconsistency.

Room A210 Chair:
David Guillemette (Canada): Sociocultural approaches in mathematics education for the investigation of the potential of history of mathematics with pre-service secondary school teachers.

René Guitart (France): History in Mathematics According to André Weil.

Leo Rogers (UK): Historical Epistemology: Contexts for contemplating classroom activities.

Room A212 Chair:
Aline Bernardes & Tatiana Roque (Brazil): Reflecting on meta-discursive rules through episodes from History of Matrices.

Ke Wang (China): A New Paradigm in the Field of HPM - Design Research.

Karel Zavřel (Czech Republic): Parallels between phylogeny and ontogeny of logic.

Room A214 Chair:
Katrin Reimann (Germany): On the understanding of the concept of number in Euler’s algebra.

Gabriela Buendia Abalos (Mexico): The necessity of developing epistemologies of practices and uses so they can conform a significances basis for any kind of didactical proposal.

Lin Jiale (China): A Theoretical Framework of HPM.

Room A104 Chair:
Ingo Witzke (Germany): On preservice teachers’ understanding of mathematics.

Arto Mutanen (Finland): Knowledge acquisition and mathematical reasoning.

Wang Xiaojin (China): HPM in Mainland China: an Overview.
Room A130 Chair:  
Klaus Volkert (Germany): The problem of the parallels at the 18th century: Kästner, Klügel and other people.

Thomas Hausberger (France): Training students in mathematics education to use history and epistemological tools: theory and practice on the basis of experiments conducted at Montpellier University (France).

Thursday July 17

18:00-19:00: Oral presentation: Theme 4, 5, 6 & 7

Room A200 (themes 5) Chair:  
James F. Kiernan (USA): A Course to Address the Issue of Diversity.

Andrea V. Rohrer (Brazil): The Teuto-Brazilians of Friburgo – mathematics textbooks and the use of (non-metric) measure systems.

Room A210 (theme 5) Chair:  
Li Hai

Alain Bernard and Katalin Gosztonyi (Brazil): Reflecting on metadiscursive rules through episodes from History of Matrices.

Room A212 (theme 6) Chair:  

Thomas Morel (Germany): Teaching mathematics in mining academies: an overview at the end of the 18th century.

Room A214 (theme 6) Chair:  
Luis Puig (Spain): The beginning of algebra in Spanish in the sixteenth Century: Marco Aurel’s Arithmetica Algebraica.


Room A100a (theme 6) Chair:  
Karel Lepka (Czech Republic): T. G. Masaryk and mathematics.

Mária Cristina de Almeida (Portugal): Mathematics textbooks, in Portugal: the case of the first
unique mandatory Algebra textbook (1950).

Room A104 (theme 7) Chair:
Kajsa Bråting (Sweeden): E.G Björling’s view of fundamental concepts in mathematical analysis in an epistemological and didactical perspective.

Harald Gropp (Germany): Thomas Clausen (1801 - 1885) or how to become a professor of astronomy.

Room A130 (theme 6) Chair:
Karasawa Toshimitsu(Japan): Specialization and generalization of the mathematical concept by Mr. Inatsugi Seiichi in Japan.

Hervé Renaud (France): When modern mathematics questioned the pedagogical methods in secondary education (1905-1910).