Section 19: History of Mathematics

Invited Lectures

Monday, 24 August — MA 004

14:00 – 14:45 **Jeremy John Gray,** The Open University, Milton Keynes, England
The Riemann-Roch Theorem and Geometry, 1854-1914 *(I: p.208)*
Chair: Umberto Bottazzini

15:00 – 15:45 **Karine Chemla,** CNRS and Université Paris 7, Paris, France
History of Mathematics in China: A factor in World History and a Source for New Questions *(I: p.206)*
Chair: Sergei S. Demidov

16:15 – 17:00 **Joseph Dauben,** The City University of New York, New York, USA
Marx, Mao and Mathematics: the Story of Nonstandard Analysis in China and the Cultural Revolution *(I: p.208)*
Chair: Ivor Grattan-Guiness

Short Communications and Poster Sessions

Short Communications — Monday, 24 August

Non-European Mathematics — **H 2013**
Chair: Shirong Guo

17:15 – 17:30 **Shirong Guo,** The Needham Research Institute, Cambridge, Great Britain
Yang Hui's Influence on the Mathematical Tradition of the Ming Dynasty in China *(p.367)*

17:30 – 17:45 **Osamu Takenouchi,** Osaka International University, Toyanoka-shi, Japan
Summation of a sequence of natural numbers *(p.369)*

17:45 – 18:00 **Abdelkhalek Cheddadi,** École Mohammadia d'Ingénieurs, Rabat, Morocco
Un problème d'arithmétique et sa résolution par le mathématicien marocain al-Hassar (XIIè s.) *(p.365)*

Short Communications — Tuesday, 25 August

19th Century — **H 2013**
Chair: Herbert A. David

14:00 – 14:15 **Mircea Radu,** University Bielefeld, Bielefeld, Germany
Justus Grassmann's Account of Synthesis in Mathematics: between Schelling and Kant *(p.368)*

14:15 – 14:30 **Heiner Lichtenberg,** Bundesministerium der Finanzen, Bonn, Germany
The decoding of the Callippian Cycle in the Gregorian Calendar for the period between 1900 and 2099 *(p.367)*

14:30 – 14:45 **Herbert A. David,** Iowa State University, Ames, Iowa, USA
Early sample measures of variability *(p.366)*

Data Bases Chair: Patrick D.F. Ion		**H 2013**
15:00 – 15:15	**June E. Barrow-Green,** The Open University, Milton Keynes, UK *Mathematics in Britain 1860-1940: a database for the World Wide Web*	*(p.365)*
15:15 – 15:30	**Harry B. Coonce,** Mankato State University, Mankato, MN, USA *The Genealogy Project for Mathematicians*	*(p.365)*
15:30 – 15:45	**Patrick D.F. Ion,** Mathematical Reviews, Ann Arbor, MI, USA *The symbolism of mathematics: from pasigraphy in 1897 to MathML in 1998*	*(p.367)*

Short Communications — Wednesday, 26 August

Miscellaneous Chair: Seemanapalli V. Sastry		**H 2013**
16:15 – 16:30	**Seemanapalli V. Sastry,** Federal University of Paraiba, Paraiba, Brazil *History of Mathematics: Yesterday, Today, and Tomorrow*	*(p.368)*

Poster Session — Wednesday, 26 August

14:00 – 15:45 **MA 144**

Carlos Gomez Bermudez, Universidade da Coruña, Sada, Spain
Le système des nombres chez G. Cantor *(p.366)*

Harald Gropp, Universität Heidelberg, Heidelberg, Germany
Levi, Steinitz, Zacharias, and configurations — Three German mathematicians in the 20^{th} *century and a combinatorial structure* *(p.366)*

Aleksandar T. Lipkovski, University of Belgrade, Belgrade, Yugoslavia
Rational curves with elliptic arcs — Serret's solution of Legendre's problem *(p.368)*

Man-Keung Siu, University of Hong Kong, Hong Kong, China, Peoples Republic of
On the myth of an ancient Chinese theorem about primality *(p.369)*