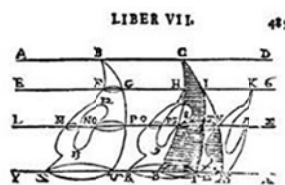


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**SIGMAA –
History of
Mathematics**

POM
SIGMAA

**Joint meeting of:
British Society for the History of Mathematics
Canadian Society for the History and Philosophy of Mathematics
History of Mathematics Special Interest Group of the MAA (HOMSIGMAA)
Philosophy of Mathematics Special Interest Group of the MAA
(POMSIGMAA)**

Marriott Wardman Park, Washington, D.C.

Wednesday, August 5

8:20 MAA Centennial Lecture #1

9:30 Hedrick Lecture #1

Session TCPS#1A: History of Mathematics

10:30 Amy Shell-Gellasch, Montgomery College, Maryland
*Ellipsographs: Drawing Ellipses and the Devices in the Smithsonian
Collection*

11:00 Peggy Aldrich Kidwell, National Museum of American History,
Smithsonian Institution
*Engaging Minds – Charter Members of the MAA and the Material Culture
of American Mathematics*

11:30 Florence Fasanelli
The History of Mathematics in Washington, D.C.

Session TCPS#1B: History of Mathematics

- 10:30 Cathleen O’Neil
Eisenhower, the Binomial Theorem, and the \$64,000 Question
- 11:00 S. Roberts
John Horton Conway: Certainly a Piece of History
- 11:30 E. Donoghue
*A Pair of Early MAA Presidents = A Pair of Mathematics Historians:
Florian Cajori and David Eugene Smith*
- 12:00 Lunch Break**

Session TCPS#1C: History and Philosophy of Mathematics

- 1:00 Charles Lindsey
Doing Arithmetic in Medieval Europe
- 1:30 Travis D. Williams, University of Rhode Island
Imagination and Reading the Third Dimension in Early Modern Geometry
- 2:00 Christopher Baltus, SUNY Oswego
*The Arc Rampant in 1673: an Early Episode in the History of Projective
Geometry*
- 2:30 Andrew Leahy
William Brouncker’s Rectification of the Semi-Cubical Parabola

Session TCPS#1D: History and Philosophy of Mathematics

- 1:00 Charles Groetsch
A Mathematical Look at Mersenne’s Water Jet Experiment
- 1:30 Ann Luppi von Mehren, Arcadia University
*Inspiration for Elementary Mathematics Descriptions from a “Heritage”
Reading (in the sense of Grattan-Guinness) of “On the Nonexistent” by
Gorgias*

- 2:00 Thomas Q. Sibley
Going to the Source
- 2:30 Cynthia J. Huffman
Scott V. Thuong
Rope Geometry of Ancient India in the Classroom
- 3:00 Steven J. Tedford
Getting to the Root of the Problem
- 3:30 Abraham Ayebo
Reenactment of the Calculus Controversy: Newton vs. Leibniz

Session TCPS#1E: The Mathematics of Euler

- 3:00 Sylvio R. Bistafa, University of Sao Paulo
Euler's Dissertation on Logic
- 3:30 Dominic Klyve, Central Washington University
Olivia Hirschey
Euler and Phonetics: the Untold Story of the Mathematics of Language
- 4:00 Ronald Calinger, Catholic University of America
Leonhard Euler: the Final Decade, 1773 to October 1783
- 4:30 William W. Hackborn, University of Alberta
Euler's Method for Computing the Movement of a Mortar Bomb
- 5:00 Rob Bradley, Adelphi University
Euler on L'Hôpital's Analyse
- 5:30 Andrew Martin
J. Martin
Euler's Other Constant

Thursday, August 6

Session TCPS#1F: Special Session in Memory of Jackie Stedall

- 8:30 June Barrow-Green, Open University
Sylvester's Amphigenious Surface
- 9:00 Janet Beery, University of Redlands
Jackie Stedall and the Mathematics of Thomas Harriot
- 9:30 Rosanna Cretney, Open University
The Construction of Map Projections in the Works of Lambert and Euler
- 10:00 Christopher Hollings, Oxford University
Soviet Views of Early (English) Algebra
- 10:30 Steve Russ, University of Warwick, UK
Kateřina Triflajová, Centre for Theoretical Studies, Prague, Czech Republic
Bolzano's Measureable Numbers: Are They Real?
- 11:00 Robin Wilson, Oxford University
The BSHM 1971-2015
- 11:30 MAA Prize Session**
11:30 CSHPM Council Meeting and Lunch
12:00 Lunch Break

Session TCPS#1G: History and Philosophy of Mathematics

- 1:00 Richard DeCesare, Southern Connecticut State University
Robert Patterson: American Revolutionary Mathematician
- 1:30 Maria Zack, Point Loma Nazarene University
Lisbon: Mathematics, Engineering and Planning in the Eighteenth Century
- 2:00 Alejandro R. Garciadiego, UNAM, Mexico
Vera on the Foundations of Mathematics

Session TCPS#1H: History and Philosophy of Mathematics

- 1:00 Michiyo Nakane
Yoshikatsu Sugiura: A Good Japanese Friend of Paul Dirac
- 1:30 J. Nicolas
Jonathan Sondow
Ramanujan, Robin, Highly Composite Numbers, and the Riemann Hypothesis
- 2:00 Matthew Haines
A Visit to the Vatican Library

Session TCPS#1J: Special Session on Philosophy of Mathematics

- 2:30 Elaine Landry, University of California, Davis
Mathematical Structuralism and Mathematical Applicability
- 3:00 Jean-Pierre Marquis, University de Montreal
Designing Mathematics: The Role of Axioms
- 3:30 Alex Manafu, University of Paris-1 Pantheon-Sorbonne
Does the Indispensability Argument Leave Open the Question of the Causal Nature of the Mathematical Entities?
- 4:00 Carl Behrens
How Does the Mind Construct/Discover Mathematical Propositions?
- 4:30 Jeff Buechner, Rutgers University-Newark and The Saul Kripke Center
CUNY, The Graduate Center
What is an Adequate Epistemology for Mathematics?

POMSIGMAA LECTURE

- 5:00 John Burgess

Friday, August 7

Session TCPS#1K: Special Session on Mathematical Communities

- 8:00 Diana White
Brandy Wieggers
A Partial History of Math Circles
- 8:30 Janet Heine Barnett, Colorado State University-Pueblo
An American Postulate Theorist: Edward V. Huntington
- 9:00 Lawrence D'Antonio, Ramapo College of New Jersey
Title: Combating the "legion of half-wits": the Contentious Mathematicians of the Paris Academy of Sciences
- 9:30 Jane Wess, Edinburgh University/Royal Geographical Society-Institute of British Geographers
The Mathematics in 'Mathematical Instruments': The Case of the Royal Geographical Society, London, in the Mid to Late Nineteenth Century
- 10:00 Amy Ackerberg-Hastings, University of Maryland University College
Did American Professors Form a Mathematical Community in the Early 19th Century?

KENNETH O. MAY LECTURE AND CENTENNIAL LECTURE #5

- 10:30 Karen Parshall
We Are Evidently on the Verge of Important Steps Forward": The American Mathematical Community, 1915-1950
- 11:30 Lunch Break**
- 12:30 Annual General Meeting**

Session TCPS#1M: Special Session in Honor of Karen Parshall

- 2:00 Della Dumbaugh, University of Richmond
Leonard Dickson's Other Doctoral Student from 1928
- 2:30 Patti Hunter, Westmont College
*Spreading the Wealth: The Ford Foundation and Eugene Northrop's
Advancement of Mathematics and Science at Home and Abroad*
- 3:00 Deborah Kent
*The Annals of Mathematics: From the Fringes of Civilization to the
University of Virginia, 1873-1883*
- 3:30 David Zitarelli, Temple University
Karen Parshall and a Course on the History of Mathematics in America
- 4:00 Joseph W. Dauben, The City University of New York
Fuzzy Logic and Contemporary American Mathematics: A Cautionary Tale
- 4:30 Brittany Shields, University of Pennsylvania
*American Mathematics Beyond the Iron Curtain: The US-Soviet
Interacademy Exchange Program*

HOMSIGMAA RECEPTION

- 5:00 Reception in Honor of Karen Parshall

Saturday, August 8

Session TCPS#1N: History and Philosophy of Mathematics

- 8:30 Michael Molinsky, University of Maine
Some Original Sources for Modern Tales of Thales
- 9:00 Patricia Baggett, New Mexico State University
Andrzej Ehrenfeucht, University of Colorado
A Prehistory of Arithmetic
- 9:30 Gregg De Young, The American University in Cairo
Adelard's Euclid and the Arabic Transmission Attributed to al-Hajjāj
- 10:00 Valerie Allen
Al-Khwarizmi, Anselm, and the Algebra of Atonement
- 10:30 Duncan J. Melville, St. Lawrence University
Approaches to Computation in Third Millennium Mesopotamia
- 11:00 S. Gholizadeh Hamidi
Famous Mathematicians from Iran but Whom You May Not Know
- 11:30 Steve DiDomenico
L. Newman
The Quest for Digital Preservation: Will Part of Math History Be Gone Forever?

Session TCPS#1P: History and Philosophy of Mathematics

- 8:30 Roger Godard, Royal Military College of Canada
Finding the Roots of Non-Linear Equations: History and Robustness
- 9:00 Isobel Falconer, University of St. Andrews
J. D. Forbes and the Development of Curve Plotting
- 9:30 Gavin Hitchcock, University of Stellenbosch, South Africa
"Remarkable Similarities": A Dialogue Between De Morgan & Boole

- 10:00 Francine F. Abeles, Kean University
Clifford, Sylvester, and Peirce on the Development of the Algebra of Relations 1875-1885
- 10:30 S. Martin
Polygonal Numbers from Fermat to Cauchy
- 11:00 Troy Goodsell, Brigham Young University, Idaho
Orson Pratt: A Self Taught Mathematician on the American Western Frontier
- 11:30 Ezra (Bud) Brown
Five Families Around a Well: A New Look at an Ancient Problem
- 12:00 Lunch Break**

Session TCPS#1Q: Special Session in Memory of Ivor Grattan-Guinness

- 1:00 Joseph W. Dauben, The City University of New York
Ivor Grattan-Guinness (1941-2014) and his Contributions to the History of Analysis, Set Theory, and Applied Mathematics
- 1:30 Roger Cooke
Grattan-Guinness's Work on Classical Mechanics
- 2:00 John Dawson, Penn State York
Ivor Grattan-Guinness's Legacy to History and Philosophy of Logic
- 2:30 Albert C. Lewis, Educational Advancement Foundation
"Another big book": Ivor Grattan-Guinness as Editor and Organizer
- 3:00 Adrian Rice, Randolph-Macon College
"Same time next week?": Ivor Grattan-Guinness as a Ph.D. Advisor

Session TCPS#1R: History of Mathematics

- 3:30 Joel Haack
T. Hall
Humanistic Reflections on Mathematics Magazine Problem 1951 and a Solution
- 4:00 Alexander Kleiner, Drake University
The Interplay of “Hard” and “Soft” Analysis in the History of Summability Theory: Preliminary Report
- 4:30 Howard Emmens
The Life and Letters of William Burnside
- 5:00 James Parson
Prehistory of the Outer Automorphism of S_6