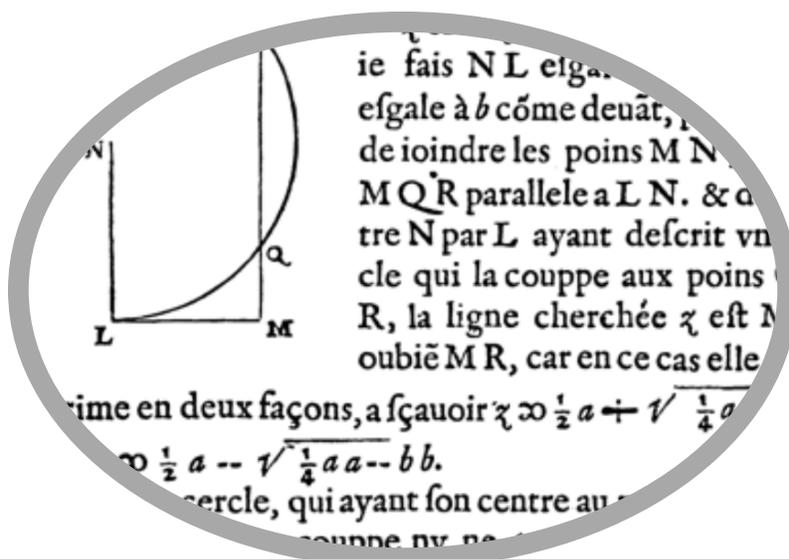


DEPARTMENT OF MATHEMATICS

Fall 2018 Colloquium Series



How Many Ways Can You Solve a Quadratic Equation Visually? From the Greeks to 21st Century Technology

Martin Flashman

Professor of Mathematics Emeritus, Humboldt State University

Thursday, September 13, 2018

BSS Room 204, 4:00 PM

Understanding a quadratic equation and finding its solutions (roots) is an important part of the curriculum where students encounter a rich domain of mathematics- including geometry, numbers (real and complex), and functions. Visualizing the solution of these equations is a valuable tool at any level. Starting with the Greek representation of the problem connected to finding areas and squares, Professor Flashman will lead a tour through various visualizations including connections to graphs and mapping diagrams and concluding with his recent work on visualizing complex functions with 3 dimensional mapping diagrams using Geogebra.

Martin Flashman holds BA, MA, and PhD degrees from Brandeis University as well as a JD (law) degree from New York University School of Law.. Professor Flashman has taught at Mount Holyoke College, Baruch College of CUNY, and Bard College before coming to at Humboldt State University(HSU) where he is now retired as Professor of Mathematics Emeritus. He spent the last year mainly visiting at the University of Arizona while working on several projects related to visualizing functions with mapping diagrams.

In summer 2013 he started work on a resource for mapping diagrams: Mapping Diagrams from A(lgebra) to C(alculus) and D(ifferential) E(quation)s. A Reference and Resource Book on Function Visualizations Using Mapping Diagrams which is now available in part on the internet in an alpha version. In April 2018 he presented 4 separate session at the British Congress of Mathematics Education all related to his work on mapping diagrams.

He also has continuing interests in the history and philosophy of mathematics and was chair of the MAA Special Interest Group in the Philosophy of Mathematics from 2007 to 2009.

His hobbies include music, tennis, chess, go, and trying to be on time.

To view this poster online, go to <http://www.humboldt.edu/math/news-and-events/math-colloquium>

We cordially invite you to the Pre-Colloquium Tea on the third floor of the BSS building at 3:30 pm on Thursday.