11th ACMS Conference Proceedings Table of Contents

Wheaton College (1997)

INTRODUCTION

CONFERENCE SCHEDULE

INVITED PAPERS

- "Circles of the Gods: Copernicus, Kepler, and the Ellipse", p.1 Owen Gingerich, Smithsonian Astrophysical Observatory and Harvard University
- "Hypothesis, Proof, and Censorship or How Galileo Changed the Rules of Science", p.7 Owen Gingerich, Smithsonian Astrophysical Observatory and Harvard University

PAPERS ON TEACHING

- "A Tale of Two Transitions", p.17 David Klanderman, Trinity Christian College, Sharon Robbert, Trinity Christian College, and Robert Wheeler, Northern Illinois University
- "An Investigation of the Behavior of Calculus Students Working Collaboratively in an Interactive Software Environment", p.31 Angela Hare, Messiah College
- "Teaching Generalization and Reduction through an Elementary Probability Problem", p.51
 Erlan Wheeler, Carthage College

PAPERS WITH AN INTEGRATIVE THEME

- "The Mathematical Sciences and the Mediator of Creation", p.56
 W. David Laverell, Calvin College
- "The Role of Mathematics in Culture", p.66
 W. James Bradley, Calvin College
- "Mathematics and Values: Can Philosophy Guide Projects?", p.76 Michael H. Veatch, Gordon College

- "Solomon's Sea and the Biblical II", p.91 Andrew Simoson, King College
- "Mathematics at Chartres Cathedral", p.100 Richard Stout, Gordon College

PAPERS OF A TECHNICAL NATURE

- "Fractal Geometry and Chaos Theory: From Old Problems to New Models and Methods", p.105 Terence Perciante, Wheaton College
- "Hyperbolic Geometry with the Geometer's Sketchpad", p.116 Robert Frank, Seton Hill College
- "On Binary Quadratic Forms", p.135 Alain Togbe, University Laval (Quebec)
- "Digital Filtering and Smoothing", p.146 Eric Gossett, Bethel College
- "Exploring Various Methods of Interpolation", p.163 Mark Roberts, Southwest Baptist University
- "Using Java and HTML for Linear Algebra Instruction", p.177 Jonathan R. Senning, Gordon College, page 177

PAPERS WITH AN HISTORICAL THEME

- "History and Current Situation of the Russian Church", p.185 Gennadiy A. Kalyabin, Samara State Aerospace University
- "First Draft of the History of ACMS", p.196 Robert Brabenec, Wheaton College

LIST OF CONFERENCE DELEGATES, p.201

CONFERENCE PHOTOGRAPHS, p.205