

## Appendix 1: Conference Schedule and Abstracts

### 21ST BIENNIAL ACMS CONFERENCE

Charleston Southern University  
Charleston, SC

May 31 - June 3, 2017

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#### Tuesday, May 30

6:00-7:00 pm Dinner for early arrivals

#### Wednesday, May 31

7:00-8:00 am Breakfast

8:30 am - 12:00 pm Pre-Conference Workshops I

12:00 - 1:00 pm Lunch

1:00 - 4:30 pm Pre-Conference Workshops II

5:30 - 6:30 pm Dinner

7:00 - 7:15 pm Welcome

7:15 - 8:15 pm *Shaping a Digital World: Connecting Bytes and Beliefs*  
Derek Schuurman

8:30 - 9:30 pm Reception

#### Thursday, June 1

7:15 - 7:45 am Morning Prayer

7:45 - 8:45 am Breakfast (board meeting in a side room)

9:00 - 9:30 am Devotions and announcements

9:30 am - 2:45 pm Excursion to Downtown Charleston  
(including box lunch)

3:00-4:00 pm *The Mathematics of Faith: Euler's anonymous work on the  
limits of mathematics, science, and faith*  
Dominic Klyve

4:00-6:00 pm Parallel Sessions I

6:15-7:15 pm Dinner

7:30 - 8:30 pm Parallel Sessions II

8:30 -9:15 pm Discussion of the role of CS/IS in ACMS

\*Note: All meals (except Friday's banquet) will be in the Cafeteria. The locations for parallel sessions can be found on the parallel session schedule. All other activities will be held in WCCL room 102-3.

**Friday, June 2**

7:15 - 7:45 am	Morning Prayer
7:45 - 8:45 am	Breakfast
9:00 - 9:30 am	Welcome and Devotional
9:30 - 10:30 am	<i>De Morgan's Budget of Paradoxes</i> Sloan Despeaux
10:30 - 11:00 am	Break
11:00 - 12:00 pm	<i>Responsible Automation: Faith and Work in an Age of Intelligent Machines</i> Derek Schuurman
11:45 - 12:45 pm	Lunch (board meeting in a side room)
1:00-3:00	Parallel Sessions III
3:00-3:30 pm	Break
3:30-6:00 pm	Parallel Sessions IV
6:15 - 7:30 pm	Banquet
7:30 - 8:30 pm	<i>Translation and Betrayal: "Euler's Letters to a German Princess"</i> Dominic Klyve
8:30 - 9:15 pm	Discussion of the Role of Statistics in ACMS

**Saturday, June 3**

7:45 - 8:45 am	Breakfast
9:00 - 10:00 am	<i>Fit to print? Referee's Reports of Mathematics in Nineteenth-Century London</i> Sloan Despeaux
10:30 - 11:00 am	ACMS business meeting
11:00 - 12:00 pm	Worship Service

## SCHEDULE OF PARALLEL SESSIONS

### Parallel Sessions I - Thursday, June 1

	WCCL 201	WCCL 115	WCCL 116
4:00-4:15	<i>Models, Values, and Disasters</i> Michael Veatch	<i>Some Silly Analogies and Mnemonic Devices for Upper-Level Math Topics</i> Aaron Allen	<i>Gaudi's Geometry of Nature</i> Donna Pierce
4:20-4:35	<i>P-values Considered Harmful</i> Michael Stob	<i>Warm-up Problems in Linear Algebra</i> Kristin A. Camenga	<i>Portuguese Mathematical History</i> Maria Zack
4:40-4:55	<i>The Daily Question: Building Student Trust and Interest in Undergraduate Intro to Probability and Statistics Courses</i> Matthew A. Hawks	<i>Inquiry-Oriented Instruction in an Abstract Algebra Course</i> Jill Jordan	<i>Algebra without Signed Numbers: Mr. Frend's Universal Arithmetic</i> Richard Stout
5:00-5:15	<i>Mentoring as a Statistical Educator Within the Context of a Christian College</i> L. Marlin Eby	<i>Reading Journals: Promoting Student Engagement and Success in Undergraduate Mathematics Courses</i> Sarah A. Nelson	<i>The Resolved and Unresolved Conjectures of R.D. Carmichael</i> Brian D. Beasley
5:20-5:35	<i>Future Medical Professionals and the Statistics Classroom</i> Paul Lewis	<i>Revitalizing Complex Analysis</i> Russell W. Howell	<i>Ten Mathematicians Who Recognized God in Their Work (part 2)</i> Dale McIntyre
5:40-5:55	<i>Conceptual Understanding of Inference via Simulation</i> Justin Grieves	<i>The Complex Moduli Project and Mathematica-Based Modules in Complex Analysis</i> Bill Kinney	<i>Mathematics and an Epistemology of Love</i> Chris Micklewright

### Parallel Sessions II - Thursday, June 1

	WCCL 201	WCCL 115	WCCL 116
7:30-7:45	<i>Hybrid Courses Across the Curriculum: What Works and What Doesn't</i> Catherine Crockett	<i>Influence on Students' Dispositions Toward Mathematics</i> Patrick Eggleton	<i>The Topology of Harry Potter: Exploring Higher Dimensions in Young Adult Fantasy</i> Alexa Schut, Sarah Klander- man, Dave Klander- man, William Boerman-Cornell
7:50-8:05	<i>Teaching Math and Computer Science Using Graphic Novels</i> Eric Gossett	<i>Poster Projects in Math for Liberal Arts</i> Brandon Bate	<i>Book Review: Redeeming Mathematics - A God-centered Approach by Vern Poythress</i> Kevin Vander Meulen
8:10-8:25	<i>Including a Writing Project in a Service Learning Course for Mathematics and Computer Science Students is a Win for Both Students and Professor</i> Lori Carter	<i>Finding Meaning in Calculus (and Life)</i> Doug Phillippy	<i>God: One, Part Two</i> Daniel Kiteck

### Parallel Sessions III - Friday, June 2

	WCCL 201	WCCL 115	WCCL 116
1:00-1:15	<i>Using Machine Learning and Data Mining to Analyze Retention Rates at Bethel University</i> Deborah Thomas	<i>Precalculus and Calculus Students' Understanding of the Concept of Function</i> Lauren Sager	<i>An Overview of Specifications Grading</i> Mike Janssen
1:20-1:35	<i>An Analysis of SNU Chapel Attendance Data</i> Nicholas Zoller	<i>A Pre-Calculus Controversy: Infinitesimals and why they really matter</i> Karl-Dieter Crisman	<i>A "Big Ideas" Reflection Assignment Inspires Students to Make Valuable Connections</i> Jeremy Case and Mark Colgan
1:40-1:55	<i>Mathematics and Statistics Service Learning: Beyond the Project</i> Alana Unfried	<i>Using Inertial Navigation to Demonstrate Basic Calculus Concepts</i> Ron DeLap	<i>Mathematics/STEM Study Abroad across Europe</i> Nicholas J. Willis
2:00-2:15	<i>The Heart of Mathematics Through the Eyes of Faith</i> Matt D. Lunsford	<i>Why You Should Move Your Infinitesimals to the Top Drawer</i> Troy Riggs	<i>Axioms: Mathematical and Spiritual</i> Melvin Royer
2:20-2:35	<i>Classical Mathematics: An Attempt to Integrate Mathematics and Christian Worldview in a General Education Mathematics Course</i> Jamie K. Fugitt	<i>Variations on the Calculus Sequence</i> Chris Micklewright	<i>Integrating Faith and Discipline - Beyond the Classroom</i> Kevin Hopkins
2:40-2:55	<i>Teaching by Not Teaching: The Power of Collaboration</i> Audrey DeVries	<i>A Pre-Lab Style Approach to Calculus III</i> Michael Martinez	<i>Living at Work: My First Year as a Faculty-in-Residence</i> Rachel Grotheer

### Parallel Sessions IV - Friday, June 2

	WCCL 201	WCCL 115	WCCL 116
3:30-3:45	<i>Logical Axioms and Computational Complexity: A Correspondence</i> Danny Rorabaugh	<i>Creating a Natural Progression Through a College Algebra Course</i> Denise K. Dawson	<i>The Role of Informal Learning in Supporting Mathematics Teacher Education</i> Alice E. Petillo
3:50-4:05	<i>Techniques for Integrating Faith Into the Computer Science Classroom</i> CSU computer science department	<i>The Corset Theorem</i> Owen Byer	<i>Math Teacher Circles: How and Why to Start Yours</i> Amanda Harsy, Tom Clark, Dave Klanderma
4:10-4:25	<i>Using Real-World Team Projects: A Pedagogical Framework</i> Michael Leih	<i>The Set of Zero Divisors of Factor Rings</i> Jesús Jiménez	<i>Math Teacher Circle Problems: This Year's Brightest and Best</i> Mike Janssen, Mandi Maxwell, Sharon Robbert
4:30-4:45	<i>ScratchFoot: A Tool for Transitioning Students From Scratch to Greenfoot</i> Victor Norman	<i>Bicycle Routes and Euler Double-paths</i> C. Ray Rosentrater	<i>A Framework for Integrating Faith and Learning in the K-12 Mathematics Classroom</i> Ryan and Valorie Zonnefeld
4:50-5:05	<i>Teaching Introductory Computer Programming with "Processing"</i> Jeff Nyhoff	<i>Tightened Relaxations of the Traveling Salesman Problem</i> Audrey DeVries	<i>Cultivating Mathematical Affections through Engagement in Service-Learning</i> Joshua Wilkerson
5:10-5:25	<i>A Practical Mechanism to Perform Secure Computation</i> Benjamin Mood	<i>Sculpting Seifert Surfaces: Shepherding a Student Through a Mathematical Art Project</i> Lisa Hernández	<i>Revamping the Path Through High School Mathematics - The Impossible Dream?</i> Clayton R. Hall II
5:30-5:45	<i>Brokering Trust in Knowledge Management with the use of Data Visualizations</i> Kari Sandouka	<i>Manifold Methods for Averaging Subspaces</i> Justin Marks	<i>On Beyond Calculus: A Day for Community Outreach</i> Rebekah Yates