

Professional Presentations by

Dr. Cynthia J. Huffman

364. *Count Like an Egyptian: Decoding Hieroglyphic Numerals*, Egypt Mission/Vision Trip, Cairo, Egypt, November 4, 2025
363. *Numbers the Grecian Way*, MOKAN National Council of Teachers of Mathematics, Pittsburg, KS, October 6, 2025
362. *What's My Price? The Math Behind Barcodes*, 3 times, PSU Mathematics Honor Day, October 2, 2025
361. *It's All Greek to Me: A study tour of mainland Greece and the Peloponnese*, Pittsburg Sunflower Kiwanis, September 9, 2025
360. *Eureka! Finding Math on an Archaeological Study Tour of Greece*, PSU Math Colloquium, August 28, 2025
359. *Numbers the Incan Way*, Pittsburg High School Math Club, Pittsburg, KS, April 17, 2025
358. *Ancient Andean Arithmetic*, KSMAA, Emporia State University, Emporia, KS, March 29, 2025
357. *Knotty Numbers*, KME National Convention, Truman State University, Kirksville, MO, March 21, 2025
356. *Pre-Columbian Peru and Knotty Numbers*, Pittsburg Rotary Club, February 11, 2025
355. *Knotty Incan Math*, MOKAN National Council of Teachers of Mathematics, Pittsburg, KS, February 3, 2025
354. *The Incan Empire and Knotty Math*, PSU Mathematics Colloquium, December 5, 2024
353. *What's My Price? The Math Behind Barcodes*, 3 times, PSU Mathematics Honor Day, October 3, 2024
352. *Rare Math Books in the Herzog August Bibliothek*, PSU Mathematics Colloquium, September 12, 2024
351. *Mathematics in the Trivium and Quadrivium in the Middle Ages and Back Again*, invited Benedictine College Department of Mathematics and Computer Science Colloquium, Atchison, KS, September 9, 2024
350. *Using Linear Algebra in Archaeology*, joint with Ximena Catepillán, invited session "When are we going to use this?": Interdisciplinary Projects in Pure Math Courses, MathFest, Indianapolis, IN, August 9, 2024

349. *Deer, Death, Destructive Flames, and Determination*, by invitation in the session “Please Pay Attention to the Person Behind the Curtain,” MathFest, Indianapolis, IN, August 9, 2024
348. *Influential Books in the Development of Arithmetic and Algebra*, invited, Ramus International Symposium 2024, Herzog August Bibliothek, Wolfenbüttel, Germany, June 19, 2024
347. *Can You Do Math Like an Egyptian?*, KME Regional Convention, April 20, 2024
346. *Chateaux and Mathematics in the Loire Valley*, Pittsburg Sunflower Kiwanis, April 9, 2024
345. *Ellipses on Easter Island*, KSMAA, Washburn University, Topeka, KS, March 23, 2024
344. *Following Mathematical Footprints through the Loire Valley in France*, PSU Mathematics Colloquium, March 21, 2024
343. *Bell-y Mathematics: Math & Music Intertwined*, invited Zoom presentation sponsored by The Panamanian Foundation for the Promotion of Mathematics (FUNDAPROMAT) and the Mathematical Association of America (MAA) with attendees from Europe, North America, and South America, December 13, 2023
342. *Original Sources to Enhance Student Engagement in Math Classes*, PSU Sabbatical Showcase, video presentation due to family emergency, November 7, 2023
341. *Math Like an Egyptian*, 2 times, PSU Mathematics Honor Day, October 5, 2023
340. *Cambodia: Numbers, Geometry, and Zenith Passage*, PSU Mathematics Colloquium, September 28, 2023
339. *Symmetry in the Artwork of Early Indigenous North American Cultures*, MAA Contributed Paper Session on Ethnomathematics: Culture meets mathematics in the classroom, MathFest, Tampa, FL, August 4, 2023
338. *Ireland’s First Public Library – A 300 Year Step Back in Time*, Pittsburg Sunflower Kiwanis, June 13, 2023
337. *Ethnomathematics: The Intersection of Culture, History, and Mathematics*, joint with Ximena Catepillán, The Canadian Society for History and Philosophy of Mathematics, Toronto, Canada, May 29, 2023
336. *Volumes of Math Books in an Archbishop’s Library*, PSU Mathematics Colloquium, April 25, 2023
335. *Rare Mathematical Books in Dublin*, KSMAA, Lindsborg, KS, April 15, 2023
334. *A Passionate Mathematician (Émilie du Châtelet)*, Joplin Kiwanis, October 18, 2022
333. *Matrix Multiplication and Computer Generated Imagery*, 2 times, PSU Mathematics Honor Day, October 6, 2022
332. *A Mathematical Look at Ancient North American Pyramids*, PSU Mathematics Colloquium, September 8, 2022

331. *Harmonize Keynote Presentation*, invited to co-present with Alicia Villareal, Mark Diacopoulos, and Susan Dellasega, 12th Annual PSU Professional Development Day, August 17, 2022
330. *Cultivate Engagement Using Harmonize*, with Mark Diacopoulos, Jennifer Harris, Michelle Hudiburg, and Jennifer Pursley, 12th Annual PSU Professional Development Day, August 17, 2022 (two times)
329. *Mathematical and Philosophical Imagery in Original Sources Related to Èmilie du Châtelet*, The Canadian Society for History and Philosophy of Mathematics, virtual, May 13, 2022
328. *An Ancient Egyptian Mathematical Photo Album – Hieroglyph Numerals and More*, KSMAA, Atchison, KS, April 9, 2022
327. *Pythagoras, a U.S. President, and Origami*, PSU Mathematics Colloquium, March 24, 2022
326. *Ringing Math* (invited), South-Central KME Regional Convention, virtual, March 5, 2022
<https://www.youtube.com/watch?v=RKeZlvXErEM>
325. *Cosets in the Belfry*, invited virtual presentation, HOM SIGMAA Virtual Speaker Series, December 1, 2021
324. *CGI and Matrix Multiplication*, 2 times, PSU Mathematics Honor Day, October 7, 2021
323. *Egyptian Numerals: Up Close and Personal*, PSU Mathematics Colloquium (virtual), August 24, 2021
322. *Organizing a Virtual Career Panel*, with Ananda Jayawardhana, PSU Professional Development Day, August 11, 2021
321. *Mathematical Mysteries of Rapa Nui with Classroom Activities* (based on joint work with Ximena Catepillan and Scott Thuong), accepted in Themed Contributed Paper Session on Ethnomathematics: Culture meets mathematics in the classroom, MathFest (virtual), August 5, 2021
320. *Agnesi vs. Colson: Did Place Matter?*, virtual, 5-yearly joint conference of the British Society for the History of Mathematics and Canadian Society for History and Philosophy of Mathematics (virtual), St. Andrews, Scotland, July 2021 (originally accepted for presentation in July 2020 but postponed due to COVID-19 Pandemic)
319. *The Future of the Textbook*, invited panel, AMS Western Sectional Meeting, May 2, 2021
318. *Emilie du Chatelet and Original Sources at the Linda Hall Library*, invited presentation for the Linda Hall Library President's Circle, April 14, 2021
317. *Maria Agnesi with the Preacher, the Witch, and Calculus*, PSU Mathematics Colloquium (virtual), April 13, 2021
316. *Calculus Notation: Agnesi vs. Colson*, KSMAA, virtual, March 27, 2021 (originally submitted for 2020 KSMAA meeting which was cancelled due to the pandemic)

315. *Non-Traditional Assessments – Digital Storytelling*, virtual, PSU Center for Teaching, Learning, and Technology panel session, November 12, 2020
314. *Using Student Video Assignments to Encourage Higher Level Thinking*, virtual, PSU Professional Development Day, August 12, 2020
313. *Ludolph Van Ceulen: A Piece of the Pi Story*, PSU Mathematics Colloquium, February 4, 2020
312. *A Brief History of the Mathematics Honor Society Kappa Mu Epsilon*, Joint Mathematics Meetings, Baltimore, MD, January 17, 2020
311. *A Real World Example of Solving a Quadratic Equation in Movie CGI*, PSU Community College Math Conference, November 16, 2019
310. *CGI Matrices*, 2 times, PSU Mathematics Honor Day, October 17, 2019
309. *Intro to Cryptology for the WWII Code Girls*, PSU American History class, October 15, 2019
308. *Algebra in Special Visual Effects in Movies and Video Games*, Kansas City Mathematics Teaching Technology EXPO, October 4, 2019
307. *Easter Island: Moais and Mysteries*, Sunflower Kiwanis, Pittsburg, KS, September 10, 2019
306. *Easter Island: Moais, Mapping, and Math*, PSU Mathematics Colloquium, August 29, 2019
305. *Easter Island: Island of Mystery*, Crusaders class, First United Methodist Church, Pittsburg, KS, August 25, 2019
304. *Lessons Learned from Creating a Course for Canvas Commons*, PSU Professional Development Day, August 14, 2019
303. *Matrices and CGI*, Pittsburg (KS) High School, Algebra 2 class, April 23, 2019
302. *Maya Geometry: Verification of a Right Angle*, 2 times, joint with John C. D. Diamantopoulos (Northeastern State University), KME National Convention, April 12, 2019
301. *Euler’s “Memorable” Induction Fallacy Example*, KSMAA, Pittsburg, KS, March 30, 2019
300. *Lagrange and the Development of Abstract Algebra*, PSU Mathematics Colloquium, February 26, 2019
299. *Maya Mathematics in a Geometry Classroom*, Joint Mathematics Meetings, Baltimore, MD, January 18, 2019
298. *Émilie du Châtelet – A Passionate Mathematician*, Pittsburg PechaKucha Night, November 14, 2018
297. *Euler and a Remarkable Example of an Induction Fallacy*, PSU Mathematics Colloquium, November 6, 2018
296. *Math Like an Egyptian*, 3 times, PSU Mathematics Honor Day, October 18, 2018

295. *Teaching a Course on Mathematics in Computer Graphics using Ray-Tracing Software*, 28th Annual Kansas City Regional Mathematics Technology Expo, October 5, 2018
294. *An Ur-Mazing Game*, PSU KME meeting, September 19, 2018
293. *Encore presentation: Creating a Course for Canvas Commons*, (requested repeat of PD Day presentation, with updates), PSU Center for Teaching, Learning, and Technology, September 17, 2018
292. *Searching for Ancient Mathematics in Britain*, PSU Mathematics Colloquium, August 28, 2018
291. *Creating a Course for Canvas Commons*, PSU Professional Development Day, August 15, 2018
290. *Movie Magic in Calculus & Pre-Calc Classes*, KSMAA, Overland Park, KS, April 21, 2018
289. *A Mathematical Treasure Trove in our Own Backyard*, invited Keynote Address, Kappa Mu Epsilon (Mathematics Honor Society) North Central/South Central Regional Convention, Emporia, KS, April 14, 2018
288. *iPads and Digital Storytelling in History of Math*, PSU Center for Teaching, Learning, and Technology, March 30, 2018
287. *Mathematical Passion - A Look at Emilie du Chatelet*, invited presentation, Nerd Nite, Lawrence, KS, March 14, 2018
286. *Mathematics of Movie Magic*, PSU Mathematics Colloquium, February 13, 2018
285. *Using Activities based on Original Sources in a General Education Mathematics Course*, Joint Mathematics Meetings, San Diego, CA, January 12, 2018
284. *Leonardo Pisano: A Mathematician Who Rocked the Western World*, PSU Mathematics Colloquium, September 21, 2017
283. *Up Close and Personal with Ancient Greek Mathematics*, PSU Mathematics Colloquium, August 31, 2017
282. *Archaeology, Science, & Mathematics in Ancient Greece*, Sunflower Kiwanis, Pittsburg, KS, August 8, 2017
281. *Rare Mathematics Books at the Linda Hall Library*, KSMAA, Lawrence, KS, April 29, 2017
280. *Mathematics and Handbells*, Inspired by Math program for middle school students, Emporia State University, April 28, 2017
279. *iPads in a History of Mathematics Class*, PSU Center for Teaching, Learning, and Technology, April 10, 2017
278. *Bell-y Math: Connections between Mathematics and Change Ringing*, Kappa Mu Epsilon, 41st Biennial National Convention, Evangel University, Springfield, MO, April 7, 2017

277. *Girolamo Cardano: Physician, Astrologer, Gambler, Mathematician, and More*, PSU Mathematics Colloquium, March 30, 2017
276. *Puzzling and Perplexing Paper Tricks*, Enhancing Your Future with Mathematics and Science conference for middle school girls, Emporia State University, March 4, 2017
275. *Mathematics Professor: A Number One Career*, Enhancing Your Future with Mathematics and Science conference for middle school girls, Emporia State University, March 4, 2017
274. *Digital Storytelling in a History of Mathematics Class*, Joint Mathematics Meeting, Atlanta, GA, January 4, 2017
273. *iPads with Pre-Service Mathematics Teachers*, PSU Center for Teaching, Learning, and Technology, November 30, 2016
272. *Digital Storytelling in the Mathematics Classroom with the Adobe Spark App*, 26th Annual Kansas City Regional Mathematics Technology Expo, October 7, 2016
271. *Angry Birds Math*, 3 times, PSU Mathematics Honor Day, October 6, 2016
270. *Mathematical Passions: A Look at Two 18th Century Female Mathematicians*, PSU Mathematics Colloquium, September 13, 2016
269. *Digital Storytelling in the University Classroom*, PSU Professional Development Day, August 17, 2016
268. *Digital Storytelling in the Classroom*, 20th Annual Technology and the Classroom Conference, PSU Educational Technology program, June 3, 2016
267. *The Cubic Controversy*, the 13th Pittsburg PechaKucha Night, May 4, 2016
266. *Influential Books in the History of Math*, PSU Sabbatical Showcase, March 4, 2016
265. *Original Sources for Teaching Mathematics*, PSU Mathematics Colloquium, February 23, 2016
264. *The Great Art: Cardano's "Ars Magna" in College Algebra and Precalculus*, Joint Mathematics Meeting, Seattle, WA, January 9, 2016
263. *Math Treasures in Kansas City*, MOKAN National Council of Teachers of Mathematics, Pittsburg, KS, December 8, 2015
262. *Mathematical Masterpieces*, Oklahoma Alpha KME meeting, Tahlequah, OK, December 2, 2015
261. *Geogebra Applets for Ancient Indian Rope Geometry*, PSU Mathematics Colloquium, joint with Dr. Scott Thuong, October 22, 2015
260. *Mathematical Treasures at the Linda Hall Library*, Kansas Alpha chapter of KME, October 20, 2015
259. *Standing on the Shoulders of Giants to Bring out the Math Geek in Students*, Kansas Association of Teachers of Mathematics, Maize, KS, October 16, 2015

258. *Angry Birds Algebra*, PSU Mathematics Honor Day, October 15, 2015
257. *Influential Books in the Development of Arithmetic and Algebra in the 15th and 16th Centuries*, Linda Hall Library, October 7, 2015 (video available at <https://vimeo.com/142256343> and <http://www.lindahall.org/videos/>)
256. *Symmetry, Frieze Groups, Wallpaper Groups, and iPads*, 25th Annual Kansas City Regional Mathematics Technology Expo, October 2, 2015
255. *A Sampling of Ways Mathematics Helps People*, the 12th Pittsburg PechaKucha Night, September 15, 2015
254. *PechaKucha! - Short Efficient Student Research Presentations*, PSU Professional Development Day, August 12, 2015
253. *Developing a High Quality Online Course*, joint with Dr. Mark Johnson, Ms. Liz Mascher, and Dr. Julie Samuels, PSU Professional Development Day, August 12, 2015
252. *Rope Geometry of Ancient India in the Classroom*, MathFest, Washington, D.C., August 5, 2015
251. *20+ Timesavers for Teachers using Google*, 19th Annual Technology and the Classroom Conference, PSU Educational Technology program, May 29, 2015
250. *iPads in Applied Algebra*, PSU Center for Teaching, Learning, and Technology, April 28, 2015
249. *Wallpaper Borders, Dancing, and Math*, Sunflower Kiwanis, Pittsburg, KS, April 21, 2015
248. *Archimedes' Secrets Revealed*, KSMAA, Fort Scott, KS, March 28, 2015
247. *Mathematical Rhythms*, the 11th Pittsburg PechaKucha Night, March 24, 2015
246. *KenKen Puzzles*, Kansas Alpha chapter of KME, March 10, 2015
245. *Maya Mysteries Revealed and Hands-on Maya Geometry*, Enhancing Your Future with Mathematics and Science conference for middle school girls, Emporia State University, March 7, 2015
244. *Using iPads in Applied Abstract Algebra*, Joint Mathematics Meeting, San Antonio, TX, January 10, 2015
243. *Using iPads in a Mathematical Software Course*, PSU Center for Teaching, Learning, and Technology, December 4, 2014
242. *Secrets of a Greek Streaker Revealed by a Byzantine Prayer Book*, colloquium, PSU, December 2, 2014
241. *PSU Gangnam Style*, the 10th Pittsburg PechaKucha Night, October 28, 2014
240. *Transformational Geometry via Wallpaper Borders and Dance*, Kansas Association of Teachers of Mathematics, Hays, KS, October 13, 2014

239. *Pinterest and Five Other Digital Curation Tools for the Classroom*, 18th Annual Technology and the Classroom Conference, PSU Educational Technology program, May 30, 2014
238. *2012 and Maya Math*, Iowa Alpha chapter of KME, Chapter Installation, Central College, Pella, IA, April 30, 2014
237. *The Greek Streaker and the Secret of the Prayer Book*, the 9th Pittsburg PechaKucha Night, April 25, 2014 (A video based on the talk is published on the PSU Axe Library website at <http://libguides.pittstate.edu/history-of-math> .)
236. *Mathematics of the Native Alaskan Tlingit Indians*, KSMAA, Emporia, KS, March 29, 2014
235. *A Report on the 2013 PSU Delegation to Korea*, Southeast Crawford County Chapter of the American Association of Retired Persons, March 12, 2014
234. *Perspectives on Social Media in Higher Education*, panel discussion, PSU, February 17, 2014
233. *Techniques from the Ancients for Verification of Right Angles*, joint with John C. D. Diamantopoulos (Northeastern State University), Joint Mathematics Meeting, Baltimore, MD, January 18, 2014
232. *Course Redesign Applied to a History of Math Course*, Joint Mathematics Meeting, Baltimore, MD, January 16, 2014
231. *Angry Birds, Parabolas, and iPads*, MOKAN National Council of Teachers of Mathematics, December 2, 2013
230. *PSU in Korea*, P.E.O. Chapter CP, Pittsburg, KS, November 12, 2013
229. *Angry Birds Math*, PSU Mathematics Honor Day, October 17, 2013
228. *Angry Birds Algebra!*, Kansas Association of Teachers of Mathematics, Junction City, KS, October 14, 2013
227. *Alaska Dreamin'*, (the 8th) Pittsburg PechaKucha v.3.1, September 20, 2013
226. *Southeastern Alaska through a Mathematical Lens*, colloquium, PSU, September 3, 2013
225. *PSU's eLearning Academy*, joint with Dr. Mark Johnson and Dr. Brenda Frieden, PSU Professional Development Day, August 14, 2013
224. *Perusing Perugia*, Pittsburg PechaKucha v.7, April 30, 2013
223. *Mathematics in Bologna*, KSMAA (joint with three other MAA sections), Maryville, MO, April 20, 2013
222. *Mathematically Tourin' Turin*, the 6th Pittsburg PechaKucha night, March 12, 2013
221. *Mathematics and the Existence of God*, MOKAN National Council of Teachers of Mathematics, February 4, 2013
220. *Geometry and Baroque Architecture in Turin, Italy*, originally submitted to the MAA Special Session on The History of Geometry, its Applications, and their Uses in the

Classroom, accepted but “upgraded” by invitation to be a longer special presentation at the opening of the annual History of Math Special Interest Group of the MAA (HOMSIGMAA), Joint Mathematics Meeting, San Diego, CA, January 9, 2013

219. *Bells and Mathematics*, Children’s Music class, PSU, December 6, 2012
218. *Using an iPad for Geometry for Preservice Middle School Teachers*, PSU Center for Teaching, Learning, and Technology, December 5, 2012
217. *Traipsing through Italy in Mathematical Shoes*, colloquium, PSU, November 29, 2012
216. *SmartBoard Basics for Teaching Mathematics*, Teaching of Mathematics Seminar class, November 7, 2012
215. *Hands-on Mayan Geometry*, Kansas Association of Teachers of Mathematics, PSU, October 26, 2012
214. *Mayan Time Keepers and 2012*, Kansas Association of Teachers of Mathematics, PSU, October 26, 2012
213. *Teaching Geometry with an iPad*, Kansas City Regional Mathematics Technology EXPO, October 6, 2012
212. *Teaching Mathematics Using a SmartBoard*, Techniques for Teaching Mathematics class, PSU, September 25, 2012
211. *Hiatus in Haiti*, the 5th Pittsburg PechaKucha night, September 15, 2012
210. *Change Ringing and Mathematics*, Power of Music honors class, PSU, September 2012
209. *Dance the Frieze Groups*, Kansas Alpha chapter of KME, September 5, 2012
208. *Mayan Mysteries Revealed*, Pittsburg Noon Kiwanis, July 26, 2012
207. *Mayan Myths and Maths*, Pittsburg Christian Women’s Fellowship Club, April 16, 2012
206. *2012 and Mayan Mathematics*, KSMAA, Kansas State University, April 14, 2012
205. *Movie Mathematics*, Math Club, Pittsburg High School, March 14, 2012
204. *Mathematics Professor: A Number One Career*, Expanding Your Horizons in Science and Mathematics conference for middle school girls, Emporia State University, March 10, 2012
203. *Fibonacci and the Golden Rectangle*, fourth Pittsburg PechaKucha Night, February 22, 2012
202. *Mayan Geometry in the Classroom*, national Joint Mathematics Meeting, Boston, MA (Out of the over 2700 talks at the conference, one of the few chosen to be featured on the American Mathematical Society’s webpage in selected highlights from JMM2012. <http://www.ams.org/meetings/national/jmm12-addresses#mayan>), January 7, 2012
201. *2012 and Mayan Math*, Northeastern State University in Tahlequah, OK, December 5, 2011
200. *PSU in Paraguay*, the third Pittsburg PechaKucha night, November 30, 2011
199. *Mayan Mysteries Revealed*, Sunflower Kiwanis, Pittsburg, November 8, 2011

198. *Using a SmartBoard in the College Classroom*, PSU Faculty Professional Development Day, October 20, 2011
197. *Can You Ken Ken?*, PSU Mathematics Honor Day, October 13, 2011
196. *Yes, You KenKen!*, Kansas Association of Teachers of Mathematics, Topeka, KS, October 3, 2011
195. *Apocalypse 2012? What Do Mayan Calendars and Mathematics Tell Us*, colloquium, PSU, September 15, 2011
194. *Mayan Mysteries Revealed*, Retired School Personnel Association, Pittsburg, September 9, 2011
193. *Guatever: An Overview of a Mayan Math Study Trip*, second Pittsburg PechaKucha Night, July 12, 2011
192. *Pixar and Mathematics*, Northeastern Oklahoma A&M College Pre-Engineering Club, April 21, 2011
191. *Geometry, Flatland, and Sliceforms*, Countryside Christian School
190. *Napoleon, Mathematics, and Egyptomania*, first Pittsburg PechaKucha Night, April 5, 2011
189. *Visualizing 3D via 2D*, MOKAN NCTM affiliate meeting, April 4, 2011
188. *Napoleon and Mathematics: A Case Study of the Interplay between Mathematics and History*, colloquium, PSU, March 30, 2011
187. *Fourier Meets the Pharaohs*, KSMAA, Baker University, March 5, 2011
186. *Flatland Meets Spaceland*, Kansas Alpha chapter of KME, PSU, February 16, 2011
185. *Do the KenKen!*, MOKAN NCTM affiliate meeting, December 6, 2010
184. *Math for Drummers and Poets*, Kansas Association of Teachers of Mathematics, Wichita, KS, October 15, 2010
183. *Bell-y Math*, PSU Mathematics Honor Day, October 7, 2010
182. *Facebook for Faculty: Best Practices, Groups, Pages, Security, Privacy, and a Whole Lot More*, joint with Michelle Hudiburg, Susan Johns Smith, PSU Center for Teaching, Learning, and Technology, September 16, 2010
181. *Writing Across the Mathematics Curriculum*, MAA Project NExT, MathFest, Pittsburgh, PA, August 4, 2010
180. *BoomWhacker Math*, Kauffman Scholars, Inc. College Residential Institute, PSU, June 2010
179. *A Mathematical Tour of Egypt*, KSMAA, Washburn University, March 27, 2010
178. *A Mathematical History Study Tour of Egypt*, PEO Chapter CP, March 9, 2010
177. *Teaching Math Using a SmartBoard*, PSU, March 8, 2010

176. *Mathematics Professor: Fun Thinking for a Living*, Expanding Your Horizons in Science and Mathematics conference for middle school girls, Emporia State University, March 6, 2010
175. *Can You “Ken Ken”?*, Expanding Your Horizons in Science and Mathematics conference for middle school girls, Emporia State University, March 6, 2010
174. *Teaching a Course on Women in Mathematics*, Joint Mathematics Meeting, San Francisco, CA, January 16, 2010
173. *Math Like an Egyptian*, Northeastern State University, Tahlequah, OK, November 18, 2009
172. *A New Math Logic Puzzle (An introduction to KenKen puzzles)*, Kansas Alpha KME Math Honor Society meeting, November 12, 2009
171. *Camels, Pyramids, and Mummies, Oh My!*, P.E.O. Chapter IO, November 10, 2009
170. *Visual Egyptian Math*, Kansas Alpha KME, October 22, 2009
169. *Can You Ken Ken?*, PSU Mathematics Honor Day, October 2009
168. *Into the Pyramid*, colloquium, PSU, September 22, 2009
167. *BoomWhacker Math*, Kauffman Scholars, Inc. College Residential Institute, PSU, June 2009
166. *Strengthening Mathematical Skills with Sudoku*, Countryside Christian School, March 2009
165. *Do U Sudoku???*, Northeastern State University, Tahlequah, OK, February 25, 2009
164. *Math for Drummers and Poets*, MOKAN Area Council of Teachers of Mathematics, February 2, 2009
163. *The Local Case Sub-Algorithm for Suslin’s Stability Theorem*, AMS Session on Commutative Algebra, Joint Mathematics Meeting, Washington, DC, January 7, 2009
162. *Stamping Across Mathematical History*, Symposium, SMARTT Science and Mathematics conference, Overland Park, KS, November 8, 2008
161. *Colorful Patterns in Pascal’s Triangle*, SMARTT Science and Mathematics conference, Overland Park, KS, November 7, 2008
160. *Poetry, Dance Music, and Mathematics*, colloquium, PSU, October 21, 2008
159. *Mathematical Rhythms: the nature of rhythm and pattern from a mathematical perspective*, lecture at the opening reception for the exhibit “The Art of Rhythm” at the Little Room gallery in Pittsburg, KS, October 11, 2008
158. *Stamping Through the History of Math*, MOKAN affiliate of the National Council of Teachers of Mathematics, October 6, 2008
157. *Bell-y Math*, PSU Mathematics Honor Day, October 2008
156. *A SMART(board) Way to Do Math*, MOKAN Secondary Math Conference, September 23, 2008

155. *Beyond the Basics or Ways to Get Fancy with the SmartBoard*, MOKAN Secondary Math Conference, September 23, 2008
154. *Mathematical Family Trees*, Kansas Alpha KME Math Honor Society meeting, September 18, 2008
153. *Using the SMART board as an Instructional Tool*, PSU Arts & Sciences Technology Mini-Conference, September 9, 2008
152. *BoomWhacker Math*, Kauffman Scholars, Inc. College Residential Institute, PSU, June 2008
151. *Handbells and Math*, SEK Retired School Personnel, Pittsburg, KS, May 9, 2008
150. *Symmetries, Group Theory, and Depression Glass*, colloquium, PSU, May 6, 2008
149. *Abstract Algebra in the Dining Room*, KSMAA, Bethel College, North Newton, KS, May 3, 2008
148. *Mathematics Professor: Fun Thinking for a Living*, Expanding Your Horizons in Science and Mathematics conference for middle school girls, Emporia State University, March 8, 2008
147. *So, Do You Sudoku?*, Expanding Your Horizons in Science and Mathematics conference for middle school girls, Emporia State University, March 8, 2008
146. *Using a SMART Board in Abstract Algebra*, Joint Mathematics Meeting, San Diego, CA, January 7, 2008
145. *Mathematical Genealogies*, colloquium, PSU, November 27, 2007
144. *Wallpaper Patterns and Crystallographic Groups*, College of Arts & Sciences Lecture Series, PSU, November 15, 2007
143. *Bell-y Math*, PSU Mathematics Honor Day, October 2007
142. *Mostly Bells with a little bit of Math*, 15th Annual Mid-America Regional Bell Meeting, Branson, MO, September 16, 2007
141. *Do U Sudoku?*, Pittsburg Noon Kiwanis Club, July 5, 2007
140. *BoomWhacker Math*, Kauffman Scholars, Inc. College Residential Institute, PSU, June 2007
139. *Movie Mathematics*, KSMAA, Wichita State University, March 31, 2007
138. *Mathematician: A Number One Career*, Expanding Your Horizons in Science and Mathematics conference for middle school girls, Emporia State University, March 10, 2007
137. *So, Do You Sudoku?*, Expanding Your Horizons in Science and Mathematics conference for middle school girls, Emporia State University, March 10, 2007
136. *Bells with a little bit of Math*, TV program, Visions Unlimited, Missouri Southern State University, January 29, 2007

135. *Proofs, Equivalence Classes and Groups Sudoku-Style*, MAA Session on The Mathematics of Sudoku and Other Puzzles, Joint Mathematics Meetings, New Orleans, LA, January 7, 2007
134. *Mathematics and Sudoku*, Math Club, Pittsburg High School, December 5, 2006
133. *Do U Sudoku?*, PSU Mathematics Honor Day, November 2006
132. *A Grab Bag of Logic Puzzles*, Kansas Alpha KME, November 7, 2006
131. *Treasure Chest of Numbers*, P.E.O. Chapter CP, October 10, 2006
130. *Problem Solving with Sudoku*, Kansas Association of Teachers of Mathematics conference, Manhattan, KS, September 22, 2006
129. *Sudoku Fun*, MOKAN Secondary Math Conference, PSU, September 21, 2006
128. *Smartboard Lessons*, joint with Karla Childs, MOKAN Secondary Math Conference, PSU, September 21, 2006
127. *Do U Sudoku?*, Math Social and Seminar, Emporia State University, September 11, 2006
126. *Smart Teaching with the Smart Board*, joint with Karla Childs and Hazel Coltharp, colloquium, PSU, August 29, 2006
125. *Mathematics and the Sudoku Puzzle*, KSMAA, Cowley College, March 18, 2006
124. *Mathematician: A Number One Career*, Expanding Your Horizons in Science and Mathematics conference for middle school girls, Emporia State University, March 11, 2006
123. *Totally Tubular Math*, Expanding Your Horizons in Science and Mathematics conference for middle school girls, Emporia State University, March 11, 2006
122. *The Sudoku Craze – Where’s the Math?*, Southeast Area Conference of Mathematics Teachers, March 4, 2006
121. *The Sudoku Craze – Where’s the Math?*, colloquium, PSU, February 28, 2006
120. *Do You Sudoku?*, Kansas Alpha KME/MAA Student Chapter meeting, PSU, February 7, 2006
119. *Using Colorings of Pascal’s Triangle to Visualize Algebraic Concepts*, Joint Mathematics Meeting, San Antonio, TX, January 12, 2006
118. *Bell-y Math*, PSU Mathematics Honor Day, November 2005
117. *Thinking Outside the Box: Math in Music*, invited keynote speaker, Labette Community College’s Math/Science Day for high school students, November 18, 2005
116. *Pascal’s Triangle for Secondary Teachers*, Labette Community College’s Math/Science Day for high school students, November 18, 2005
115. *Pascal’s Triangle for Secondary Students*, Labette Community College’s Math/Science Day for high school students, November 18, 2005

114. *Visualizing Algebraic Concepts through Coloring Pascal's Triangle*, Kansas City Regional Mathematics Technology EXPO, October 7, 2005
113. *Writing to Learn for Elementary Statistics*, joint with and presented by Ananda Jayawardhana, Joint Statistical Meetings, Minneapolis, MN, August 2005
112. *Report on ADVANCE Leadership Institute*, colloquium, PSU, April 26, 2005
111. *Sticking Together: Math and Stamps*, KSMAA, University of Kansas, March 19, 2005
110. *Mathematician: A Number One Career*, Expanding Your Horizons in Science and Mathematics conference for middle school girls, Emporia State University, March 12, 2005
109. *Patterns in Pascal's Triangle*, Expanding Your Horizons in Science and Mathematics conference for middle school girls, Emporia State University, March 12, 2005
108. *Bells and Math*, P.E.O., February 22, 2005
107. *Mathematical Careers*, panel discussion, Riverton Middle School, February 9, 2005
106. *Bell-y Math*, Pittsburg High School Math Club, December 13, 2004
105. *Mathematical Connections to Handbells*, Pittsburg chapter of the American Association of Retired Persons, December 2004
104. *Bell-y Math*, PSU Mathematics Honor Day, November 2004
103. *Using Coloring to Explore Patterns in Pascal's Triangle*, Kansas Association of Teachers of Mathematics Conference, Topeka, KS, October 22, 2004
102. *Bell-y Math*, Kansas Alpha KME, September 14, 2004
101. *Lessons I Have Learned Teaching Quant*, colloquium, PSU, September 7, 2004
100. *Visualization Activities for Abstract Algebraic Concepts*, poster, PSU Research Day, April 7, 2004
99. *Cosets in the Belfry*, KSMAA, Benedictine College, March 20, 2004
98. *Legos in Mathematics*, Southeast Area Conference of College Science and Mathematics Teachers, February 28, 2004
97. *Handbells and Mathematics*, Pittsburg, KS chapter of the American Association of University Women, December 2003
96. *Bell-y Math*, PSU Mathematics Honor Day, November 2003
95. *Effective Implementation of M-D Multirate Systems by Factorization of M-D Polynomial Polyphase Matrices*, joint with and presented by Mikhail Tchobanou of Moscow Power Engineering Institute, 5th International Conference and Exhibition on Digital Signal Processing and Its Applications, Moscow, Russia, 2003
94. *Computational Commutative Algebra for the Design of Multi-Dimensional Filter Banks*, poster, PSU Research Day, April 9, 2003

93. *Using Visualization in Teaching Abstract Algebra Concepts*, KSMAA, Fort Hays State University, April 5, 2003
92. *Philately Mathematics: A Brief Tour of the History of Math via Stamps*, colloquium, PSU, February 13, 2003
91. *The PascGalois Project: Visualization Projects for Abstract Algebra*, aiding Kathleen Shannon of Salisbury University in Maryland, Special Session on Teaching Abstract Algebra using Visualization, Joint Mathematics Meetings, Baltimore, MD, January 2003
90. *Keeping the Platters Spinning: Effective Time Management*, panel discussion, Joint Mathematics Meetings, co-sponsored by the Young Mathematicians' Network and Project NExT of the Mathematical Association of America, Baltimore, MD, January 2003
89. *Bell-y Math*, PSU Mathematics Honor Day, November 2002
88. *Factoring Polynomial Matrices for Digital Filter Bank Design*, colloquium, PSU, September 12, 2002
87. *Implementation Issues in 2-D Filter Bank Design Based on Matrix Factorization*, joint with and presented by Prof. Mikhail Tchobanou of Moscow Power Engineering Institute, XI European Signal Processing Conference, Toulouse, France, September 2002
86. *Design and Implementation of 2-D and 3-D Multirate Systems*, poster session, joint with and presented by Mikhail Tchobanou, International TICSP Workshop on Spectral Methods and Multirate Signal Processing, SMMSP'02, Toulouse, France, September 2002
85. *Factorization of M-D polynomial matrices for design of M-D multirate systems*, joint with Mikhail Tchobanou, MTNS2002 (the 15th International Symposium on Mathematical Theory of Networks and Systems), University of Notre Dame, August 2002
84. *Factoring Polynomial Matrices*, poster, joint with Tim Pierce, PSU Research Day, April 10, 2002
83. *Computational Algebra Methods in Digital Signal Processing*, colloquium, PSU, March 12, 2002
82. *Termespheres: Math and Art*, KSMAA, Ottawa University, March 9, 2002
81. *Gröbner Bases – A Powerful Tool for Solving DSP Tasks*, invited plenary talk, 4th International Conference and Exhibition on Digital Signal Processing and Its Applications, Moscow, Russia, February 27, 2002
80. *AAAS Women's International Science Collaboration grant program report*, American Association for the Advancement of Science, Boston, MA, February 2002
79. *Time for Your First Sabbatical... Now What?*, panel discussion, Joint Mathematics Meetings, San Diego, CA, January 2002
78. *Bell-y Math*, PSU Mathematics Honor Day, November 13, 2001

77. *Design of M-D Filter Banks by Factorization of M-D Polynomial Matrices*, International Conference on Information, Communications and Signal Processing, Singapore, October 2001
76. *Computational Algebra Methods in the Design of Multi-Dimensional Filter Banks*, poster, PSU Research Day, 2001
75. *Special Cases of Factoring Polynomial Matrices*, joint with Tim Pierce, Colloquium, PSU, April 12, 2001
74. *Mathematical Harmonies*, MOKAN mathematics meeting, April 2, 2001
73. *Groups, Patterns, and Cellular Automata*, KSMAA, Emporia State University, March 31, 2001
72. *Being a Mathematician and a Mathematics Professor*, Expanding Your Horizons in Science and Mathematics conference for middle school girls, Emporia State University, March 3, 2001
71. *Mathematics as Art*, Expanding Your Horizons in Science and Mathematics conference for middle school girls, Emporia State University, March 3, 2001
70. *Using High School Math to Get to Jupiter*, mathematics classes at Jasper (MO) High School, January 26, 2001
69. *Planning Your Professional Career*, panel co-organizer Joint Mathematics Meetings, New Orleans, January 2001
68. *What Makes a Math Department Thrive*, panel co-organizer Joint Mathematics Meetings, New Orleans, January 2001
67. *Gröbner Bases and the Design and Implementation of Multi-Dimensional Filter Banks*, AMS Session on Field Theory and Commutative Rings, Joint Mathematics Meeting, New Orleans, LA, January 2001
66. *Some Results in Computational Commutative Algebra*, Research Seminar, Moscow State University, November 28, 2000
65. *Factoring Multivariate Polynomial Matrices*, Third International Conference on Digital Signal Processing and Its Applications, Moscow, Russia, December 1, 2000
64. *Bell-y Math*, PSU Math Honor Day, November 16, 2000
63. *Color It Beautiful – A Look at Patterns and Colorings of Pascal’s Triangle*, Kansas Association of Teachers of Mathematics Conference, MidAmerica Nazarene University, October 7, 2000
62. *An Application of Computational Commutative Algebra to Signal Processing*, KSMAA, Baker University, April 1, 2000

61. *Being a Mathematician and a Mathematics Professor*, Expanding Your Horizons in Science and Mathematics conference for middle school girls, Emporia State University, March 11, 2000
60. *Mathematics as Art*, Expanding Your Horizons in Science and Mathematics conference for middle school girls, Emporia State University, March 11, 2000
59. *Suslin's Stability Theorem and Multi-dimensional Signal Processing*, AMS Session on Rings and Algebras, Joint Mathematics Meetings, Washington, DC, January 2000
58. *Mathematical Magic Tricks*, Kansas Alpha KME meeting, November 1999
57. *Coloring Pascal's Triangle*, PSU Math Honor Day, November 5, 1999
56. *Gröbner Bases: Revolutionizing Commutative Algebra*, Colloquium, PSU, October 29, 1999
55. *Another Algorithm for the Quillen-Suslin Theorem for Polynomial Rings*, Missouri Algebra Weekend, University of Missouri, October 1999
54. *Computational Methods in Commutative Algebra*, Colloquium, University of Missouri—Rolla, October 1999
53. *Coloring Pascal's Triangle*, Kansas Alpha KME meeting, October 1999
52. *Using the Internet to Gather History of Mathematics Information for Use in the Secondary Mathematics Classroom*, MSSC/MOKAN Secondary Mathematics Conference, September 1999
51. *Pascal's Triangle – Color Me Beautiful*, KSMAA, Kansas State University, Manhattan, KS, March 27, 1999
50. *Pascal Triangle Colorings*, Southeast Area Conference of College Science and Mathematics Teachers, March 13, 1999
49. *Knots and Such*, PSU Math Honor Day, February 23, 1999
48. *Another Algorithm for the Quillen-Suslin Theorem for Polynomial Rings*, AMS Session on Commutative Algebra, Joint Mathematics Meetings, San Antonio, TX, January 1999
47. *Using the Internet to Find History of Mathematics Sources*, PSU/MOKAN Secondary Mathematics Conference, 1998
46. *A Computational Proof of Gubeladze's Theorem*, colloquium, University of Kansas, Lawrence, KS, September 3, 1998
45. *Cooperative Learning OnLine*, KSMAA, Washburn University, March 21, 1998
44. *Using Cooperative Learning in the Undergraduate Mathematics Classroom*, Southeast Area Conference of College Science and Mathematics Teachers, PSU, February 29, 1998
43. *Is It a Knot or Not?*, Expanding Your Horizons conference for middle school girls, Emporia, KS, February 21, 1998

42. *The Career of Mathematics Professor*, Expanding Your Horizons conference for middle school girls, Emporia, KS, February 21, 1998
41. *Finding Time When There Is None*, panel discussion, Project NExT Professional Development Workshop, Baltimore, MD, January 9, 1998
40. *An Algorithm for the Quillen-Suslin Theorem for Monoid Rings*, Project NExT/Young Mathematicians Network research poster session, Joint Mathematics Meetings, Baltimore, MD, January 1998
39. *Using High School Math to Get to Jupiter*, MOKAN, December 8, 1997
38. *Using Multimedia to Enhance the Mathematics Classroom*, KATM/KATS S.M.A.R.T.T. Conference, Wichita, KS, November 7, 1997
37. *An Algorithm for the Quillen-Suslin Theorem for Monoid Rings*, NExT Trends in Research Special Session, MAA Mathfest, Atlanta, GA in August 1997
36. *Power Up with PowerPoint*, KSMAA, PSU, March 15, 1997
35. *The Basic Skills Exams Program at PSU*, Southeast Area Conference of College Science and Mathematics Teachers, PSU, March 1, 1997
34. *Trivializing Vector Bundles over Affine Toric Varieties*, American Mathematical Society Special Session on Computational Algebraic Geometry, Joint Mathematics Meetings, San Diego, CA, January 1997
33. *What Does the First Row of an Invertible Matrix Look Like?*, Mathematics and Computer Science Seminar, Emporia State University, November 22, 1996
32. *An Algorithm for the Quillen-Suslin Theorem for Monoid Rings*, Special Session on Commutative Algebra, American Mathematical Society meeting, Rider University, Lawrenceville, NJ, October 5, 1996
31. *A Picture is Worth... Using Geometer's Sketchpad As a Teaching Tool*, PSU Secondary Mathematics Conference, 1996
30. *An Algorithm for the Quillen-Suslin Theorem for Monoid Rings*, joint with and presented by Reinhard Laubenbacher of New Mexico State University, long lecture at MEGA96, 4th International Symposium of Effective Methods in Algebraic Geometry, Eindhoven, The Netherlands, June 6, 1996
29. *Basic Skills/Gateway/Exit Exams - What, Why, and How?*, panel discussion, KSMAA, McPherson College, April 20, 1996
28. *A Computational Algebra Course*, KSMAA, McPherson College, April 20, 1996
27. *Completing a Unimodular Row to an Invertible Matrix over a Monoid Ring*, Colloquium, New Mexico State University, March 28, 1996
26. *What Does the First Row of an Invertible Matrix Look Like?*, PSU Colloquium, March 21, 1996

25. *The Use of Basic Skills Exams*, Southeast Area Conference of Science and Mathematics Teachers, PSU, 1996
24. *Knot Theory for Secondary Students*, PSU Secondary Mathematics Conference, September 1995
23. *Teaching a Course on Computational Algebra*, Special Session on Symbolic Computation in the Undergraduate Mathematics Classroom, MathFest, University of Vermont, August 1995
22. *Topology Potpourri*, PSU Summit program for gifted middle school students, June 1995
21. *Factoring Polynomial Matrices*, Kansas Academy of Sciences, PSU, April 1995
20. *A Report on the First Year of Project NExT (New Experiences in Teaching)*, KSMAA, Wichita, KS, April 15, 1995
19. *Topology for Secondary Students*, MOKAN, April 3, 1995
18. *Gröbner Bases – A Computational Algebraists' Power Tool*, Colloquium, Pittsburg State University, February 23, 1995
17. *An Algorithmic Proof of Suslin's Stability Theorem for Polynomial Rings*, Holiday Symposium, New Mexico State University, December 1994
16. *Beyond Gaussian Elimination*, Kansas Alpha chapter of KME, PSU, November 10, 1994
15. *Is it a Knot or Not?*, annual Saturday Seminar for gifted elementary and middle school students, Southeast Kansas Special Education Cooperative, October 22, 1994
14. *An Algorithm for Suslin's Stability Theorem*, Computer Research/Applications Group, Los Alamos National Laboratory, Los Alamos, NM, July 1994
13. *An Algorithm for Suslin's Stability Theorem*, Algebra Seminar, New Mexico State University, March 1994
12. *Everything you ever wanted to know about Gröbner Bases ...*, Graduate Student Seminar, New Mexico State University, March 1994
11. *Gröbner Bases*, Louisiana State University in Shreveport, February 1994
10. *An Algorithm for Suslin's Stability Theorem*, Mathematical Sciences Institute, Cornell University, February 1994
9. *Factoring Polynomial Matrices*, Emporia State University, February 1994
8. *Calculus Reform at Worcester and New Mexico State*, with Brigitte Servatius, Teaching Seminar, Cornell University, November 1993
7. *Algebraic Vector Bundles over Affine Toric Varieties*, Cornell University, October 1993
6. *Algorithms for the Quillen–Suslin Theorem for Monoid Rings*, Special Session on Combinatorial Methods in Computational Algebraic Geometry, Joint Mathematics Meeting, San Antonio, TX, January 1993

5. *Symbolic Computation in Algebra and Algebraic Geometry: Some Examples*, Colloquium, New Mexico State University, November 1992
4. *Projective Modules over Certain Monoid Rings*, NSF Regional Geometry Institute, Amherst College, July 1992
3. *Computational Algebra and Gröbner Bases*, Southwest Section of MAA, April 1992
2. *Gröbner Bases and a Computational Proof of the Quillen–Suslin Theorem*, Algebra Seminar, New Mexico State University, March 1992
1. *An Example of the Strength of Character Theory - A Theorem of Frobenius*, Algebra Seminar, New Mexico State University, August 1991