

CURRICULUM VITAE

(2-page version available upon request)

Colm Mulcahy

Address	Department of Mathematics Spelman College, PO Box 953 Atlanta, Georgia 30314, U.S.A. Email : colm@spelman.edu URL : www.cardcolm.org Twitter : @cardcolm
Born	September 1958, Dublin, Ireland
Citizenship	Irish (Permanent resident status in U.S.A.)
Education	Ph.D. in Mathematics, Cornell University, 1985 M.A. in Mathematics, Cornell University, 1982 M.Sc. in Mathematics, University College Dublin, 1979 B.Sc. in Mathematical Sciences, University College Dublin, 1978
Employment	Spelman College, 1988 – , Professor of Mathematics (Chair, 2003 – 2006)

Awards & Recognitions

1. *Presidential Award in Scholarly Achievement*, Spelman College, May 2013.
2. First ever *Faculty Innovation and Initiative Award* (from Spelman College's Faculty Council), May 2011.
3. *Fannie Lou Hamer Award* (Spelman College Board of Trustees) for community service, April 2001.
4. *Carl B. Allendoerfer Award* (Mathematical Association of America prize for excellence in exposition), for "Plotting and Scheming with Wavelets," *Mathematics Magazine*, August 1997.

Courses taught

Mathematics for Liberal Arts, Honors Quantitative Reasoning, Precalculus sequence, Applied and regular Calculus sequences, Multivariable Calculus, General Statistics, Introduction to Mathematics Seminar, Foundations of Mathematics, Linear Algebra I & II, Discrete Mathematics, Mathematical Magic with Cards, Number Theory, Geometry, Numerical Analysis, Probability & Statistics I & II, Abstract Algebra I & II, Real Variables I & II, Senior Seminar

Book

1. *Mathematical Card Magic: Fifty-Two New Effects*, AK Peters/CRC (380 pages, August 2013)

Book Chapters

1. (with Neil Calkin, to appear) "Gallia est omnis divisa in partes quattuor (Mathematics Inspired by Dealing Cards into a Pile)," in *The Earnest Contemplation of Trivial Pursuits: Progress in Recreational Mathematics*, edited by Jennifer Beinecke & Jason Rosenhouse, Princeton University Press, August 2015

2. “Mathemagical Miracles,” in *Expeditions in Mathematics—The Second Book of BAMA Talks*, 25–30, edited by Tatiana Shubin *et al*, Mathematical Association of America, March 2011
3. “His Genetic Evolution—One to Eight Inclusive (The g4g8 Bracelet),” a chapter in *G4G8 Gathering for Gardner Exchange Book*, edited by Scott Hudson, Jan 2011
4. “Mathematical Idol,” in *Mathematical Wizardry for a Gardner*, 155–164, edited by Ed. Pegg Jr, Alan H. Schoen & Tom Rodgers, AK Peters, April 2009
5. (as Earnest Hammingway) “Horses In the Stream and Other Short Stories,” in *Homage to a Pied Puzzler*, 233–247, edited by Ed. Pegg Jr, Alan H. Schoen & Tom Rodgers, AK Peters, February 2009
6. “Low-Down Triple Dealing,” in *A Lifetime of Puzzles*, 29–34, edited by Eric Demaine, Martin Demaine & Tom Rodgers, AK Peters, November 2008
7. (as Earnest Hammingway) “Horses In the Stream and Other Short Stories,” in *G4G7 Gathering for Gardner Exchange Book—Volume 1*, 208–217, edited by Scott Hudson, June 2007
8. “Fitch Cheney’s Five Card Trick and Generalizations,” in *The Edge of the Universe—Celebrating Ten Years of Math Horizons*, 273–276, edited by Deanna Haunnsperger & Stephen Kennedy, Mathematical Association of America, August 2006
9. (as Brain Epstein) “All You Need Is Cards,” in *Puzzlers’ Tribute: A Feast for the Mind*, 179–190, edited by David Wolfe & Tom Rodgers, AK Peters, January 2002

Refereed Print Publications

1. “Three Cards Suffice,” *Math Horizons*, Vol 22, No 2, 22–25, Mathematical Association of America (November 2014)
2. (with Dana Richards) “Let the Games Continue,” *Scientific American*, Vol 311, No 4, 90–95 (October 2014, also in associated magazines in Poland, Spain, Taiwan, France, China and Japan, in translation)
3. (with Albert Goetz) “The Best Friend Mathematics Ever Had,” *Mathematics Teacher*, 194–199, National Council of Teachers of Mathematics (October 2014)
4. “One of Six and Another of Half a Dozen,” *Word Ways* (The Journal of Recreational Linguistics), May 2007
5. “An ESPeriment with Cards,” *Math Horizons*, 10–12, Mathematical Association of America (February 2007)
6. “Top 5 Reasons to Like Mathematical Card Tricks,” *Math Horizons*, 5–7, Mathematical Association of America (February 2004)
7. “Fitch Cheney’s Five Card Trick and Generalizations,” *Math Horizons*, 10–13, Mathematical Association of America (February 2003)
8. (with John H. Conway & Tom Sederberg) “Tan Line Lofts Curve—Ouch!” *Math Horizons*, 1644–1645, Mathematical Association of America (April 2002)
9. (with John Rossi) “A fresh approach to the Singular Value Decomposition,” MAA’s *College Mathematics Journal*, **29**, 3, 199–207 (May 1998)
10. “Image Compression Using The Haar Wavelet Transform,” *Spelman Science & Mathematics Journal*, **1**, 1, 22–31 (Spring 1997)

11. "Plotting and Scheming with Wavelets," *Mathematics Magazine*, **69**, 5, 323–343 (December 1996). Winner of MAA's *Carl B. Allendoerfer Award* for excellence in exposition, August 1997.
12. "The Curves and Surfaces of Computer Aided Geometric Design," *Maple Tech*, **3**, 1, Birkhäuser/Springer, 65–73 (April 1996)
13. (with Eberhard Becker & Alex Rosenberg) "Fans, quasi-fans, and their reduced Witt rings of higher level," *Algebra Berichte*, **68**, 1–36 (1992)
14. (with Eberhard Becker & Alex Rosenberg) "Ring theory of higher level reduced Witt rings," *Algebra Berichte*, **68**, 37–66 (1992)
15. (with Murray Marshall) "The Witt ring of a Space of Signatures," *Journal of Pure and Applied Algebra*, **67**, 179–188 (1990)
16. (with Murray Marshall) "The representation theorem for Spaces of Signatures," in Proceedings of a Conference on Quadratic Forms and Real Algebraic Geometry, *Rocky Mountain Journal of Mathematics*, **19**, 807–810 (1989)
17. "A representation theorem for higher level reduced Witt rings," *Journal of Algebra* **119**, 105–122 (1988)
18. "An abstract approach to higher level forms and rigidity," *Communications in Algebra*, **16**(3), 577–612 (1988)

Other Print Publications

1. Review of "Undiluted Hocus-Pocus: The Autobiography of Martin Gardner" (also "The Top 10 Things Every Mathematics Student Should Know about Martin Gardner"), *Math Horizons*, Vol 22, No 1, 24–25, Mathematical Association of America (September 2014)
2. "In praise of a deservedly popular mathematician," guest op-ed column, *Atlanta Journal & Constitution* (October 21, 2010)
3. Opening problem in THE PLAYGROUND problem section in *Math Horizons*, 30, Mathematical Association of America (April 2009)
4. An Interview with Robert Schneider, *MAA Focus*, 6–8 (November 2007)
5. Review of book *Life By The Numbers* by Keith Devlin, *American Mathematical Monthly*, Vol 107, No 7, 661–663 (Aug–Sep 2000)

Solutions Manuals

1. (with Jeffrey O. Bennett) *Instructor's Study Guide and Solutions Manual*, 152+ pages, to accompany *Essentials of Using and Understanding Mathematics—A Quantitative Reasoning Approach*, 2nd Edition, by Jeffrey O. Bennett and William L. Briggs, Addison-Wesley (August 2002)
2. (with William L. Briggs) *Student's Study Guide and Solutions Manual*, 81+ pages, to accompany *Essentials of Using and Understanding Mathematics—A Quantitative Reasoning Approach*, 2nd Edition, by Jeffrey O. Bennett and William L. Briggs, Addison-Wesley (August 2002)
3. (with Jeffrey O. Bennett) *Instructor's Study Guide and Solutions Manual*, 230+ pages, to accompany *Using and Understanding Mathematics—A Quantitative Reasoning Approach*, 2nd Edition, by Jeffrey O. Bennett and William L. Briggs, Addison-Wesley (August 2001)
4. (with William L. Briggs) *Student's Study Guide and Solutions Manual*, 125+ pages, to accompany *Using and Understanding Mathematics—A Quantitative Reasoning Approach*, 2nd Edition, by Jeffrey O. Bennett and William L. Briggs, Addison-Wesley (August 2001)

***Card Colms* at MAA.org (bi-monthly columns on mathematical card magic)**

1. "Certain Glory Marks Martin Gardner's Centennial," October 2014
2. "Trim Hex Anagrams," August 2014
3. "Dacey Cards," June 2014
4. "Foregone Outset," April 2014
5. "Postage Stamp Issue," February 2014
6. "X-Ray Vision," December 2013
7. "The Sequence I Desire. Magic: When Divided, No Remainder," October 2013
8. "Rosette Shuffling Multiple Piles," August 2013
9. "Subtler Bracelets and Dissociative Disorders," June 2013
10. "Never Forget a Face (Double-Dealing with a Difference)," April 2013
11. "Flushed with Embarrassment," February 2013
12. "Predictability Outranks Luck," December 2012
13. "All or Nothing Trickle Treat," October 2012
14. "Gilbreeath Shuuffling," August 2012
15. "Something Old, Something True, Something Borrowed, Something New," June 2012
16. "Splitting the Pot," April 2012
17. "Amazon Arrays (Large Action)," February 2012
18. "Magical Mathematics: Recurring Cycles of Ideas of Cycles," December 2011
19. "A Third Selection of Mathemagical Amusements with Cards in Martin Gardner's Own Words," October 2011
20. "A Call For A New Shuffle Principle (Need Rot Sextet?)," August 2011
21. "Out Of This Whirled (The Odds Are Not Even)," June 2011
22. "Twisting the Knight Away (No Big Deal)," April 2011
23. "Low-Down Double Dealing With the Big Boys," February 2011
24. "It's Red or Black and Blue All Over," December 2010
25. "The Three Piles (This Isn't That Trick)," October 2010
26. "Celebration of Mind," October 2010
27. "Also In His Own Words: More Mathemagical Games (and Tricks) With Cards From Martin Gardner," August 2010
28. "In His Own Words: Mathematical Card Tricks From Martin Gardner (1914-2010)," June 2010
29. "Mathematical Idol 2010," April 2010
30. "Tighter Ascertainments: Matching Interest Rates," February 2010
31. "The Boldgach Conjecture," December 2009

32. "Poker-Faced Over the Phone," October 2009
33. "The Bligreath Principle," August 2009
34. "Two Summer Difference Certainties," June 2009
35. "The Yummie Deal and Variations," April 2009
36. "Esteem Synergism," February 2009
37. "What's Black and Red and Red All Over," December 2008
38. "Monge Shuffle Cliques," October 2008
39. "(A) Pi Evolved Set-Harmonic Split Drill," August 2008
40. "Sum-Rich Circulants," June 2008
41. "Projective Geometry (The Fano Plane)," April 2008
42. "Additional Certainties," February 2008
43. "Plurality Events, Standard Deviations, and Skewed Perspectives," December 2007
44. "A Magic Timepiece Influenced by Martin Gardner (Celebrating His 93rd Birthday Incidentally)," October 2007
45. "Sixy Alpha Omegas," August 2007
46. "Gibonacci Bracelets," June 2007
47. "Magic Circles of Eight," April 2007
48. "Quasi-Masked Forcing Kind of Magic Squares," February 2007
49. "*Quantitative* Reasoning in Small Groups," December 2006
50. "Martin Gardner's Magic Spells," October 2006
51. "The Second Norman Invasion," August 2006
52. "Better Poker Hands Guaranteed," June 2006
53. "Bill Simon's Sixty-Four Principle," April 2006
54. "Many Fold Synergies," February 2006
55. "Luckation is Everything," December 2005
56. "Subtraction is Addictive," October 2005
57. "The First Norman Invasion," August 2005
58. "A Little Erdős/Szekeres Magic," June 2005
59. "The Down Under Deal (*aka* the Australian Shuffle)," April 2005
60. "Fitch Four Glory," February 2005
61. "Sheer Luck," December 2004
62. "Low Down Triple Dealing," October 2004 Also published in MAA *Focus*, November 2004 (dedicated to Martin Gardner on the occasion of his 90th birthday)

Blogs

1. "Top 10 Martin Gardner Books (This List Goes Up to 11)," *Huffington Post*, October 28, 2014
2. "The Top 10 Martin Gardner Scientific American Articles," *Scientific American*, October 21, 2014
3. "How Well Do You Know Martin Gardner? [Quiz]," *Scientific American*, October 1, 2014
4. "Math Games of Martin Gardner Still Spur Innovation," *Scientific American*, October 1, 2014
5. "You Don't Have to Be a Genius to Work at Subway..." *Huffington Post*, September 18, 2014
6. "Mathematics, Magic and Mystery," *Huffington Post*, April 30, 2014
7. "A Month of Math, Magic and Mystery," *Scientific American*, April 16, 2014
8. "Magical History Tour—and Your Fave Fab Four Album Is in the Cards," *Huffington Post*, February 7, 2013
9. "Celebrations of Mind Honor Math's Best Friend, Martin Gardner," *Scientific American*, October 29, 2013
10. "Martin Gardner—The Best Friend Mathematics Ever Had," *Huffington Post*, October 20, 2013
11. "Getting Kids Excited About Mathematics, One Festival at a Time," *Huffington Post*, July 11, 2013
12. "What Do I Have to Do to Get an A in This Class? (A Mathematical Perspective)," *Huffington Post*, April 30, 2013
13. "Centenary of Mathematician Paul Erdős—Source of Bacon Number Concept," *Huffington Post*, March 26, 2013
14. "In My Heart of Hearts: Valentine's Day Special," *Huffington Post*, February 14, 2013
15. "The Role of Biking and Hiking in Mathematics," *Huffington Post*, February 1, 2013
16. "Mean Questions With Harmonious Answers," *Huffington Post*, January 18, 2013
17. "A Pound of Quarters vs. a Pound of Dimes: Which Is Heavier, and Which Is Worth More?," *Huffington Post*, January 2, 2013
18. "Flipping Miracles (or Bar Bets to Amaze Your Friends)," *Huffington Post*, December 14, 2012
19. "Ratio: A Recurring Theme in Food, Art and Graphics," *Huffington Post*, November 29, 2012
20. "Oranges and Apples Comparisons: The Roots of the Problem," *Huffington Post*, November 9, 2012
21. "Weak Math? Try Math Week!," *Huffington Post*, October 25, 2012
22. "Food for Thought: Savory Treats for the Mind From the Julia Child of Mathematics and Rationality," *Huffington Post*, October 10, 2012
23. "Like everybody else, you too can be unique. Just keep shuffling," *Aperiodical*, May 28, 2012
24. "In what flipping dimension is a square peg in a round hole just as good as a round peg in a square hole?," *Aperiodical*, May 16, 2012
25. "Some infinities (and egos) are bigger than others," *Aperiodical*, May 8, 2012
26. "A student is artistic and loves poetry. Is it more likely she's studying Chinese or Business?," *Aperiodical*, May 2, 2012

27. "The Odds Gods smile on birthday/card matches," *Aperiodical*, April 28, 2012

Other Online Publications

1. "Martin Gardner, puzzle master extraordinaire," *BBC News* magazine, 20 October 2014 [received over 500,000 views in first 24 hours]
2. "Five Martin Gardner eye-openers involving squares and cubes," *Plus* magazine, 20 October 2014
3. (with Sylvia Bozeman) "Experiences in Attracting Women to Mathematics at Spelman College" (based on a talk given at a special session on *Innovative Mathematics Majors in Small/Medium Departments*, MAA Mathfest, Albuquerque, New Mexico, August 4, 2005),
4. "Mathematical Card Tricks," as guest columnist AMS's *What's New in Mathematics*, October 2000
5. "Life By The Numbers—PBS series on Mathematics," review for *MAA Online*, June 1998
6. "Mathematics scores at the Academy Awards," article in *MAA Online*, March 1998
7. "Generous mathematical offerings at landmark AAAS meeting," article in *MAA Online*, November 1997

Workshops/ Minicourses/ Short Courses presented

1. "To Tweet or Not to Tweet: That is the Question," *MIT and Ed Tech*, Spelman College, September 20, 2012
2. "Mathemagic with a Deck of Cards" (MAA minicourse), Mathfest '12, Madison, Wisconsin, August 3 & 4, 2012
3. (given with Jeffrey Ehme) "The Mathematical Basics of Cryptography" (MAA minicourse), Joint Mathematics Meeting, Washington, DC, January 6 & 8, 2009
4. (given with Jeffrey Ehme) "The Mathematical Basics of Cryptography" (MAA minicourse), Joint Mathematics Meeting, San Diego, California, January 6 & 8, 2008
5. "An Introduction to Mathematical Card Tricks" (REU workshop), Clemson University, Clemson, South Carolina, June 19, 2007
6. "Hands-On Geometry Explorations" (REU workshop), Clemson University, Clemson, South Carolina, June 18–19, 2007
7. (given with Jeffrey Ehme) "The Mathematical Basics of Cryptography" (MAA minicourse), Joint Mathematics Meeting, New Orleans, Louisiana, January 5 & 7, 2007
8. "Alternative Approaches to Geometry" (faculty workshop), Project NExT session, Brown University, Providence, Rhode Island, August 11, 2004
9. (with Jeffrey Ehme) "An Introduction to Mathematical Card Tricks" (MAA minicourse), Joint Mathematics Meeting, Phoenix, Arizona, January 7 & 9, 2004
10. "Introduction to Wavelets," University of Oriente, Santiago de Cuba, Cuba, March, 2003
11. "The Curves and Surfaces of the Digital Age," University of Oriente, Santiago de Cuba, Cuba, March, 2003
12. "Introduction to Wavelets," Instituto de Cibernética Matemática y Física (ICIMAF), Havana, Cuba, March, 2003

13. “The Curves and Surfaces of the Digital Age,” Instituto de Cibernética Matemática y Física (ICIMAF), Havana, Cuba, March, 2003
14. (with Derek Smith) “Mathematical Card Tricks” (2 day minicourse), *Math Jubilee*, University of Georgia, Athens, Georgia, April 12–13, 2002
15. (with Jeffrey Ehme) “Mathematical Card Tricks” (MAA minicourse), Joint Mathematics Meeting, San Diego, California, January 7 & 9, 2002
16. “Mathematical and Self-Working Magic” (Teach-a-Trick Session), Georgia Magic Club – International Brotherhood of Magicians Ring 9, Atlanta, Georgia, December 17, 2001
17. (with Jeffrey Ehme) “Mathematical Card Tricks” (MAA minicourse), Mathfest ’01, Madison, Wisconsin, August 2 & 4, 2001
18. “Image Compression Using Wavelets,” International Conference CIMAFA 2001 (6th Symposium on Mathematics and 4th Italo-Latinoamerican Conference on Industrial and Applied Mathematics), Havana, Cuba, March 23, 2001
19. “The Curves and Surfaces of the Digital Age using Maple,” International Conference CIMAFA 2001 (6th Symposium on Mathematics and 4th Italo-Latinoamerican Conference on Industrial and Applied Mathematics), Havana, Cuba, March 22, 2001
20. (with Jeffrey Ehme) “A Hands-on Approach to Geometry” (MAA minicourse), Mathfest ’00, Los Angeles, California, August 3 & 5, 2000
21. “Alternative Approaches to Geometry” (faculty workshop), Project NExT session, UCLA, Los Angeles, California, August 1, 2000
22. “The Curves and Surfaces of the Digital Age” (student workshop), MAA Oklahoma-Arkansas Section Meeting, Arkansas Technical University, Russellville, Arkansas, March 31, 2000
23. (with Jeffrey Ehme) “Introduction to Mathematical Card Tricks” (MAA short course), 79th Annual MAA Southeastern Section Meeting, Univ. of North Carolina, Charlotte, North Carolina, March 10, 2000
24. (with Jeffrey Ehme) “The Curves and Surfaces of the Digital Age” (MAA minicourse), Joint Mathematics Meeting, Washington, DC, January 19–22, 2000
25. (with Jeffrey Ehme) “The Curves and Surfaces of the Digital Age” (MAA minicourse), MAA Mathfest ’99, Providence, Rhode Island, July 31–August 3, 1999
26. “Alternative Approaches to Geometry” (faculty workshop), Project NExT’s *New Jobs, New Responsibilities, New Ideas*, Brown University, Providence, Rhode Island, July 30, 1999
27. (with Jeffrey Ehme) “The Curves and Surfaces of the Digital Age” (MAA short course) MAA Southeastern Section Meeting, Rhodes College, Memphis, Tennessee, March 12, 1999
28. “An Introduction to Wavelets” (MAA minicourse), Joint Mathematics Meeting, San Antonio, Texas, January 13–16, 1999
29. “A Hands-on Approach to Geometry” (MAA minicourse), MAA Mathfest ’98, Ryerson Polytechnical University, Toronto, Ontario, Canada, July 15–16, 1998
30. “A Hand-on Discovery-based Approach to Geometry” (MAA short course), 77th Annual MAA Southeastern Section Meeting, College of Charleston, Charleston, South Carolina, March 13, 1998
31. “Wavelets” (faculty workshop), University College Cork, Cork, Ireland, March 9, 1998
32. “Wavelets” (faculty workshop), Athlone Institute of Technology, Athlone, Ireland, March 5, 1998

33. “Smart use of computer technology as an enhancement to teaching, understanding and learning in Calculus, Linear Algebra and other mathematics courses” (faculty workshop), Project NExT, Georgia Institute of Technology, Atlanta, Georgia, August 2–3, 1997
34. (Group Leader) “ATLAST Developer’s Workshop”, University of California, San Diego, California, June 25–28, 1997
35. “An Introduction to Wavelets” (MAA short course), 75th Anniversary MAA Southeastern Section Meeting, Spelman College & Georgia Institute of Technology, Atlanta, Georgia, March 13, 1997
36. (with Jeffrey Ehme) “The Elements of Computer Aided Geometric Design Using Maple” (faculty minicourse), Eighth Annual ICTCM (International Conference on Technology in Collegiate Mathematics), Houston, Texas, November 1995
37. “Visualising Algebra and Geometry,” Spelman Summer Science and Mathematics Institute for High School Teachers, June 21, 1995
38. “Media Manipulations of Mathematics,” Spelman Summer Science and Mathematics Institute for High School Teachers, June 21, 1995

Presentations

1. “Some Classic Puzzles of Martin Gardner, The Best Friend Mathematics Ever Had,” Math Club, Georgia Institute of Technology, Atlanta, Georgia, Nov 25, 2014
2. “The Mathematics, Magic & Mystery of Martin Gardner, The Best Friend Mathematics Ever Had,” INFORMS Chapter, School of Industrial and Systems Engineering, Georgia Institute of Technology, Atlanta, Georgia, Nov 25, 2014
3. “The Mathemagic, Magic & Mystery of Martin Gardner,” Math Club, Drexel University, Philadelphia, Pennsylvania, Nov 17, 2014
4. “The Mathemagic, Magic & Mystery of Martin Gardner,” Math Club, Temple University, Philadelphia, Pennsylvania, Nov 17, 2014
5. “The Mathemagic, Magic & Mystery of Martin Gardner,” Department of Mathematics Seminar, Marymount University, Arlington, Virginia, Nov 12, 2014
6. “The Mathemagic, Magic & Mystery of Martin Gardner,” Department of Mathematics Seminar, Morgan State University, Baltimore, Maryland, Sep 4, 2014
7. “The Mathemagic, Magic & Mystery of Martin Gardner,” Department of Mathematics Seminar, Agnes Scott College, Atlanta, Georgia, Sep 2, 2014
8. “The Mathemagic, Magic & Mystery of Martin Gardner,” Department of Mathematics Seminar, Spelman College, Atlanta, Georgia, Aug 28, 2014
9. “The Mathemagic, Magic & Mystery of Martin Gardner,” MAA Mathfest 2014, Portland, Oregon, Thu, Aug 7, 2014
10. “Martin Gardner, Rationalist Supreme,” Conway Hall Ethical Society, London, UK, Jul 6, 2014
11. “Mathemagic with a Deck of Cards,” School of Mathematics, University of Edinburgh, Edinburgh, UK, Jul 4, 2014
12. “Martin Gardner, Skeptic Supreme,” Skeptics in the Pub, Edinburgh, UK, Jul 3, 2014
13. (invited, keynote) “Mathemagic with a Deck of Cards,” Spring Conference of Maryland Mathematics Association of Two-Year Colleges, Frederick Community College, Frederick, Maryland, May 30, 2014

14. (invited, banquet) “Martin Gardner: Man of Mathematics, Magic & Mystery,” Northern Virginia Council of Teachers of Mathematics Spring Banquet, Springfield, Virginia, May 8, 2014
15. (keynote) “Martin Gardner: Skeptic Supreme,” Skepticamp 2014, Atlanta, Georgia, May 2, 2014
16. (invited) “Mathematics, Magic & Mystery,” American University, Washington, DC, Apr 29, 2014
17. (invited) “Martin Gardner: Man of Mathematics, Magic & Mystery,” Colloquium, Department of Mathematics, University of Maryland, College Park, Maryland, Apr 18, 2014
18. (invited) “Mathemagic with a Deck of Cards,” Time Warner Cable Family Friday, Museum of Mathematics, New York, New York, Apr 11, 2014
19. (invited) “Mathematical Magic with Cards,” Mathematics Awareness Month Google Connected Classrooms Hangout, Apr 8, 2014
20. (invited) “Martin Gardner: Man of Mathematics, Magic & Mystery,” Pi Mu Epsilon and Upsilon Pi Epsilon Banquet, Mount St. Mary’s University, Emmitsburg, Maryland, Apr 6, 2014 (Math Awareness Month talk for inductions)
21. (invited, keynote) “Martin Gardner: Man of Mathematics, Magic & Mystery,” Allegheny Mountain Section of the MAA, Westminster College, New Wilmington, Pennsylvania, April 4, 2014
22. (invited) “‘Mathematics, Magic & Mystery’—and the Man Who Brought Them Together,” MAA Distinguished Lecture Series, Carriage House, Washington, DC, April 1, 2014
23. “Martin Gardner Centennial Initiative,” Gathering 4 Gardner 11, Atlanta, Georgia, Mar 22, 2014
24. “Martin Gardner—Skeptic Supreme,” Dublin Skeptics in the Pub, Dublin, Ireland, Mar 13, 2014
25. “Mathemagic with a Deck of Cards,” Waterford Institute of Technology, Waterford, Ireland, Mar 13, 2014
26. (invited public lecture) “Mathemagic with a Deck of Cards,” St. Patrick’s College, Drumcondra, Dublin, Ireland, Mar 12, 2014
27. “Celebrating Mathematics, Magic & Mystery in 2014—the Legacy of Martin Gardner,” DCU, Dublin, Mar 12, 2014
28. (invited) “Probabilistic Magic with Cards,” St. Patrick’s College, Drumcondra, Dublin, Ireland, Mar 12, 2014
29. (invited) “Celebrating Mathematics, Magic & Mystery in 2014,” Colloquium, St. Mary’s College of Maryland, St. Mary’s City, Maryland, February 25, 2014
30. (invited) “Mathemagic With a Deck of Cards,” Math Club, St. Mary’s College of Maryland, St. Mary’s City, Maryland, February 25, 2014
31. (invited) “Mathemagic With a Deck of Cards,” Hood College, Frederick, Maryland, February 11, 2014
32. (with Bruce Torrence & Eve Torrence) “Martin Gardner’s Outreach in his Centennial Year: Mathematics Awareness Month 2014,” Joint Mathematics Meeting, Baltimore, Maryland, January 18, 2014
33. (with Bruce Torrence & Eve Torrence) “Mathematics Awareness Month 2014: ‘Mathematics, Magic, and Mystery,’” Joint Mathematics Meeting, Baltimore, Maryland, January 16, 2014
34. “Martin Gardner: Skeptic Supreme,” National Capital Area Skeptics, Arlington, Virginia, December 14, 2013

35. "Mathemagic with a Deck of Cards," Trinity Washington University, Washington, DC, December 3, 2013
36. "Celebration of Mind: Connecting Mathematics, Magic and Mystery," Virginia Commonwealth Univ, Virginia, November 22, 2013
37. (invited) "Mathemagic with a Deck of Cards," (3 times) Whitman High School, Bethesda, Maryland, November 21, 2013
38. "Celebration of Mind: Perpetuating the Legacy of Martin Gardner," George Washington University, Washington, DC, November 12, 2013
39. (invited) public lecture co-sponsored by the MAA, "Mathemagic with a Deck of Cards," American University, Washington, DC, November 8, 2013
40. "What's the deal? Mathematics inspired by dealing cards into a pile," MD-DC-VA Section of the MAA, Longwood University, Farmville, Virginia, November 2, 2013
41. (with Bruce Torrence & Eve Torrence) "Mathematics, Magic, and Mystery," MD-DC-VA Section of the MAA, Longwood University, Farmville, Virginia, November 2, 2013
42. (invited) Banquet Address, "The Mathematics, Magic and Mystery of Martin Gardner," MD-DC-VA Section of the MAA, Hampden-Sydney College, Farmville, Virginia, November 1, 2013
43. "The Mathematics, Magic and Mystery of Martin Gardner," Washington Math Meetup Group, Martin Luther King Library, Washington, DC, October 29, 2013
44. (invited) "Who Is Martin Gardner?," Museum of Mathematics, New York, New York, October 26, 2013
45. (invited) "Remembering Martin Gardner," Princeton University, Princeton, New Jersey, October 25, 2013
46. (invited) "Mathemagic with a Deck of Cards," Pi Mu Epsilon, Gettysburg College, Pennsylvania, October 22, 2013
47. (invited) "Celebration of Mind: Perpetuating the Legacy of Martin Gardner," Department of Mathematics Colloquium, George Mason University, Fairfax, Virginia, October 11, 2013
48. "Mathemagic with a Deck of Cards," Spelman College, Atlanta, Georgia, October 4, 2013
49. (invited) "Mathemagic with a Deck of Cards," Randolph-Macon College, Ashland, Virginia, September 13, 2013
50. (invited, to be given) "Martin Gardner: Skeptic Supreme," Dragoncon, Atlanta, Georgia, September 2, 2013
51. (invited) "What's the deal? Mathematics inspired by dealing cards into a pile," MOVES Conference, Museum of Mathematics, New York, New York, August 5, 2013
52. "Fitch Cheney's Five Card Trick for Four or Three Cards," session on *Recreational Mathematics: New Problems and New Solutions*, MAA Mathfest 2013, Hartford, Connecticut, August 1, 2013
53. "Mathemagic with a Deck of Cards," Winchester Science Festival, Winchester, Hampshire, UK, July 21, 2013
54. "Mathemagic with a Deck of Cards," Centre for Mathematical Sciences, University of Cambridge, Cambridge, UK, July 18, 2013
55. "Mathemagic with a Deck of Cards," Sussex Magic Circle, Hassocks, West Sussex, UK, July 17, 2013

56. “Mathemagic with a Deck of Cards,” Magic at Mile End, Queen Mary, University of London, London, UK, July 16, 2013
57. “Martin Gardner—personal reminiscences and Irish connections,” Cork Skeptics, Cork, Ireland, July 12, 2013
58. (invited) “Puzzles in the Spirit of Martin Gardner” (KSU Math Circle Summer Camp), Kennesaw State University, Kennesaw, Georgia, June 19 2013
59. (invited) “Mathemagic with a Deck of Cards” (KSU Math Circle Summer Camp), Kennesaw State University, Kennesaw, Georgia, June 11 2013
60. (invited) “Mathemagic with a Deck of Cards” (MathCounts), The Nueva School, Hillsborough, California, May 14, 2013
61. (invited) “Mathemagic with a Deck of Cards” (KSU Math Circle), Kennesaw State University, Kennesaw, Georgia, April 17, 2013
62. (invited) “Mathemathics, Magic and Mystery,” Belvedere College, Dublin, Ireland, March 15, 2013
63. “Mathemagic with a Deck of Cards,” Mathematical Sciences Seminar, Dublin City University, Dublin, Ireland, March 14, 2013
64. “Mathemagic with a Deck of Cards,” Department of Mathematics Colloquium, University of Limerick, Ireland, March 13, 2013
65. (invited) “Mathemagic with a Deck of Cards,” St. Patrick’s College, Drumcondra, Dublin, Ireland, March 12, 2013
66. (invited) “An Introduction to Non-Euclidean Geometry,” St. Patrick’s College, Drumcondra, Dublin, Ireland, March 12, 2013
67. “Mathemagic with a Deck of Cards,” Mathematical Society, Trinity College, Dublin, Ireland, March 11, 2013
68. “Gilbreath Shuffle Variations,” Joint Mathematics Meeting, San Diego, CA, January 12, 2013
69. “Martin Gardner—personal reminiscences and Atlanta connections,” Atlanta Skeptics, Atlanta, Georgia, November 17, 2012
70. “Mathemagic with a Deck of Cards,” *Maths Week Ireland*, Maths Society, National University of Ireland at Maynooth, Ireland, October 19, 2012
71. “Martin Gardner—personal reminiscences and Irish connections,” *Maths Week Ireland*, Coolock Library, Dublin, Ireland, October 18, 2012
72. “Magical surprises with geometry and numbers (and cards),” *Maths Week Ireland*, Coolock Library, Dublin, Ireland, October 18, 2012
73. “Martin Gardner—personal reminiscences and Irish connections,” *Maths Week Ireland*, Irish Skeptics Society, Dublin, Ireland, October 17, 2012
74. “Magical surprises with geometry and numbers (and cards),” *Maths Week Ireland*, Cavan Institute, Cavan, Ireland, October 17, 2012
75. “Celebration of Mind: Connecting Mathematics, Magic and Mystery,” *Maths Week Ireland*, Cavan Institute, Cavan, Ireland, October 17, 2012
76. “Celebration of Mind: Connecting Mathematics, Magic and Mystery,” *Maths Week Ireland*, Lettarkenny Institute of Technology, Donegal, Ireland, October 16, 2012

77. “Magical surprises with geometry and numbers (and cards),” *Maths Week Ireland*, Letterkenny Institute of Technology, Donegal, Ireland, October 16, 2012
78. “Magical surprises with geometry and numbers (and cards),” *Maths Week Ireland*, Sligo Vocational College, Sligo, Ireland, October 15, 2012
79. “Magical surprises with geometry and numbers (and cards),” *Maths Week Ireland*, The Mercy College, Sligo, Ireland, October 15, 2012
80. “Celebration of Mind: Connecting Mathematics, Magic and Mystery,” *Maths Week Ireland*, The Mercy College, Sligo, Ireland, October 15, 2012
81. (via Skype from Ireland) “Celebration of Mind: The Mathematics, Magic and Mystery of Martin Gardner,” Upper Peninsula Regional Meeting, Michigan Section, MAA, Marquette, Michigan, October 12, 2012
82. “Celebration of Mind: Perpetuating the Legacy of Martin Gardner,” session on *Recreational Mathematics: New Problems and New Solutions*, MAA Mathfest 2012, Madison, Wisconsin, August, 2012
83. “Celebration of Mind: The Mathematics, Magic & Mystery of Martin Gardner, Populaerwissenschaftliches Mathematisches Kolloquium, Universitaet Konstanz, Konstanz, Germany, July 4, 2012
84. “Celebration of Mind: The Legacy of Martin Gardner,” Google Tech Talk, Dublin, Ireland, July 3, 2012
85. (invited) “The Mathematics, Magic and Mystery of Martin Gardner,” Banquet Talk, 2012 Annual Meeting of the Michigan MAA and MichMATYC, Saginaw Valley State University, Saginaw, Michigan, May 4, 2012
86. (invited) “Celebration of Mind: Connecting Mathematics, Magic and Mystery,” 14th Annual George Kitchen Memorial Lecture, Kalamazoo College, Kalamazoo, Michigan, May 3, 2012
87. (invited) “An Introduction to Image Compression Using Wavelets,” Colloquium, Kalamazoo College, Kalamazoo, Michigan, May 3, 2012
88. (invited) “Celebration of Mind: an annual romp through recreational mathematics, puzzles and more,” Math and Science Magnet Banquet Speaker, North Springs Charter High School, Atlanta, Georgia, April 19, 2012
89. (invited) “Mathematics, Magic & Mystery,” Mathfest 2012, Walton High School, Atlanta, Georgia, April 14, 2012
90. “What Would Martin Gardner Tweet?” Gathering 4 Gardner 10, Atlanta, Georgia, April 1, 2012
91. (invited) “Celebration of Mind: The Mathematics, Magic & Mystery of Martin Gardner,” Atlanta Fulton County Library, Atlanta, Georgia, March 30, 2012
92. “Celebration of Mind: The Mathematics, Magic & Mystery of Martin Gardner,” Colloquium, Queens University, Belfast, Ireland, March 12, 2012
93. “The Mathematics, Magic & Mystery of Martin Gardner (The best friend mathematics ever had),” Letterkenny Institute of Technology, Letterkenny, Donegal, Ireland, March 12, 2012
94. “The Mathematics, Magic & Mystery of Martin Gardner,” *Celebration of Mind II*, Mercer University, Atlanta, Georgia, October 22, 2011
95. “The Mathematics, Magic & Mystery of Martin Gardner,” *Atlanta Science Tavern*, Atlanta, Georgia, October 12, 2011

96. "Where's the Magic?," session on *Offering Students Lessons Beyond Mathematics, Through Mathematics*, MAA Mathfest 2011, Lexington, Kentucky, August 5, 2011
97. "Mathematics You Get Your Teeth Into—The Math of Food," CEISMC Workshop for Atlanta Public School MPS, Georgia Institute of Technology, Atlanta, Georgia, July 12, 2011
98. "Mathematics You Get Your Teeth Into—The Math of Food," CEISMC Workshop for Fulton County high school teachers, Georgia Institute of Technology, Atlanta, Georgia, June 24, 2011
99. "Mathemagic with a Deck of Cards," CEISMC Workshop for Fulton County high school teachers, Georgia Institute of Technology, Atlanta, Georgia, June 21, 2011
100. (Invited) "Celebration of Mind: The Mathematics, Magic & Mystery of Martin Gardner," Department of Mathematics Colloquium, Waterford Institute of Technology, Waterford, Ireland, May 18, 2011
101. "Fibulous Fun With Bunny Rabbits, Pine Cones, Daisies and a Packet of Cards," Bealtaine Festival of Outdoor Science, Ballymacarbry Primary School, Co. Waterford, Ireland, May 16, 2011
102. "Accessible shortcuts to inaccessible lengths: how to estimate the heights and widths of things without actually getting your hands on them," Bealtaine Festival of Outdoor Science, Clonmel High School, Co. Tipperary, Ireland, May 16, 2011
103. "Celebration of Mind: The Mathematics, Magic & Mystery of Martin Gardner," Department of Mathematics Colloquium, University College Dublin, Dublin, Ireland, May 9, 2011
104. "The Mathematics, Magic & Mystery of Martin Gardner (the best friend mathematics ever had)," Department of Mathematics Colloquium, University of Limerick, Ireland, December 15, 2010
105. "The Mathematics, Magic & Mystery of Martin Gardner (the best friend mathematics ever had)," Department of Mathematics Colloquium, National University of Ireland at Maynooth, Ireland, December 13, 2010
106. "Celebration of Mind: The Mathematics, Magic & Mystery of Martin Gardner," Department of Mathematics Colloquium, Emory University, Atlanta, Georgia, October 29, 2010
107. (invited) "Martin Gardner: Man of Mathematics, Magic & Mystery," Sixth Annual Claude B. Dansby Lecture, Morehouse College, Atlanta, Georgia, October 21, 2010
108. "Celebration of Mind: The Mathematics, Magic & Mystery of Martin Gardner," Public Lecture, Georgia Institute of Technology, Atlanta, Georgia, October 21, 2010
109. (invited) "Mathemagic with a Deck of Cards," Mathematics Club, Clayton State University, Georgia, October 9, 2010
110. "The Life, Loves and Legacy of Martin Gardner," Tennessee Mathematics Teachers Association / Mathematics Teachers of Tennessee Northwest Fall Conference, University of Tennessee at Martin, September 25, 2010
111. (invited Keynote Speaker) "A Little Mathemagic with a Deck of Cards," Tennessee Mathematics Teachers Association / Mathematics Teachers of Tennessee Northwest Fall Conference, University of Tennessee at Martin, September 24, 2010
112. "Toe Tack Trick," Gathering 4 Gardner 9, Atlanta, Georgia, March 27, 2010
113. "Image Compression Introduction to Wavelets," session on *Undergraduate Computational Education*, 34th SIAM Southeastern-Atlantic Section Conference, North Carolina State University, Raleigh, North Carolina, March 20, 2010
114. (invited) "Mathemagic with a Deck of Cards," AWM Student Chapter *Excursion in Math*, Emory University, Atlanta, Georgia, November 14, 2009

115. (invited) "Mathemagic with a Deck of Cards on the Interval Between 5.700439718 and 80658175170943878571660636856403766975289505440883277824000000000000," MAA Lecture for Students, MAA Mathfest 2009, Portland, Oregon, August 6, 2009
116. (invited) "Mathemagical Principles (Old and New) Applied to Card Tricks," EDGE Program, Spelman College, Atlanta, Georgia, June 23, 2009
117. (invited) "An Image Compression Introduction to Wavelets," Virginia Military Institute, Lexington, Virginia, April 9, 2009
118. (invited) "New Mathemagical Principles Applied to Card Tricks," National University of Ireland, Galway, Ireland, March 12, 2009
119. (invited) "An Image Compression Introduction to Wavelets," Mathematical Sciences Seminar, Dublin City University, Dublin, Ireland, March 10, 2009
120. (invited) "A Hands-On Approach to Geometry," St. Patrick's College, Drumcondra, Dublin, Ireland, March 10, 2009
121. (invited) "New Mathemagical Principles Applied to Card Tricks," Lecturer at MAA Alabama State Dinner, Jacksonville State University, Jacksonville, Alabama, February 27, 2009
122. (invited) "An Image Compression Introduction to Wavelets" (at MAA session on *Wavelets in Undergraduate Education*), Joint Mathematics Meeting, Washington, DC, January 6, 2009
123. (invited, with Tim Chartier) "Six Fibs and Videotape" (at MAA session on *Performing Mathematics*), Joint Mathematics Meeting, Washington, DC, January 5, 2009
124. (invited) "Mathemagical Card Tricks," Sonia Kovalevsky High School Mathematics Day, Emory University, Atlanta, Georgia, May 8, 2008
125. "How to Perform Mathematical Miracles with a Deck of Cards," Virginia Tech, Blacksburg, Virginia, April 30, 2008
126. (invited) "Mathemagic with a Deck of Cards," Virginia Military Institute, Lexington, Virginia, April 29, 2008
127. "New Mathemagical Principles Applied to Card Tricks," Carleton College, Northfield, Minnesota, April 17, 2008
128. (invited) "New Mathemagical Principles Applied to Card Tricks," University of St. Thomas, St. Paul, Minnesota, April 16, 2008
129. (invited) "The Curves and Surfaces of the Digital Age," University of St. Thomas, St. Paul, Minnesota, April 15, 2008
130. "Mathemagic with a Deck of Cards," University of Oklahoma, Norman, Oklahoma, March 31, 2008
131. "An Introduction to Wavelets via Image Compression," University of Oklahoma, Norman, Oklahoma, March 31, 2008
132. "His Genetic Evolution—One to Eight Inclusive (The g4g8 Bracelet)," Gathering 4 Gardner 8, Atlanta, Georgia, March 30, 2008
133. "How to Perform Mathematical Miracles with a Deck of Cards," Dublin City University, Dublin, Ireland, February 12, 2008
134. "Mathemagic with a Deck of Cards," St. Patrick's College, Drumcondra, Dublin, Ireland, February 12, 2008

135. “An Introduction to Wavelets via Image Compression,” Maths Society, University College Dublin, Dublin, Ireland, February 11, 2008
136. “An Earnest, Hamming Way to do Magic,” Shannon Institute—Algebra Seminar, University College Dublin, Dublin, Ireland, February 11, 2008
137. “An Image Compression Introduction to Wavelets,” Department of Mathematics Colloquium, Queens University, Belfast, Ireland, February 8, 2008
138. “An Image Compression Introduction to Wavelets,” Department of Mathematics Seminar, University of Limerick, Limerick, Ireland, February 5, 2008
139. “An Image Compression Introduction to Wavelets,” Applied Mathematics Seminar, University College Cork, Cork, Ireland, January 24, 2008
140. (invited) “Mathemagic with a Deck of Cards,” Belvedere College, Dublin, Ireland, January 22, 2008
141. (invited) “An Introduction to Image Compression,” Belvedere College, Dublin, Ireland, January 22, 2008
142. (with Neil Calkin) “Bracelets with Magic Applications,” Joint Mathematics Meeting, San Diego, California, January 9, 2008
143. (with Ed Burger) “Re-thinking How We Introduce Mathematics to First Year Students,” Joint Mathematics Meeting, San Diego, California, January 9, 2008
144. (invited) Public Interview (as Leonhard Euler) with Robert Schneider, Joint Mathematics Meeting, San Diego, California, January 6, 2008
145. “Using Mathematics in the Service of Magical Entertainment,” Faculty Research Day, Spelman College, Atlanta, November 2, 2007
146. (invited) “Brain Tickling Mathematical Card Tricks,” Atlanta Metropolitan College Math Club, Atlanta, Georgia, October 25, 2007
147. (invited) “Circular Reasoning in Mathematical Magic,” 22nd Clemson Mini-Conference on Discrete Mathematics and Algorithms, Clemson University, Clemson, South Carolina, October 11, 2007
148. “Mathematical Card Tricks to Tickle the Brain” UGA Math Club, Athens, Georgia, September 25, 2007
149. “Gibonacci Magic” (in *Advances in Recreational Mathematics* session), MAA Mathfest 2007, San Jose, California, August 5, 2007
150. “Circling the (Magic) Square” (in *Advances in Recreational Mathematics* session), MAA Mathfest 2007, San Jose, California, August 5, 2007
151. “Exploring the Composition Laws of Small Groups with a Deck of Cards” (in *Fun and Innovative Teaching Techniques for an Abstract Algebra Class* session), MAA Mathfest 2007, San Jose, California, August 4, 2007
152. (invited) “Image Compression,” Walton High School MathFest, Marietta, Georgia, April 21, 2007
153. (invited) “Mathematical Card Tricks,” Walton High School MathFest, Marietta, Georgia, April 21, 2007
154. (invited) “New Mathematical Principles in Card Magic,” (Mini-Lecture), Georgia Magic Club – International Brotherhood of Magicians Ring 9, Atlanta, Georgia, April 16, 2007
155. “Mathematics—A Minority Interest? Countering ‘I Hate Math’ for the Majority of Students,” Spelman College’s First Annual Teaching Day, Atlanta, Georgia, February 21, 2007

156. “Impossible Prediction Tricks,” Department of Mathematics Seminar, Spelman College, Atlanta, Georgia, February 15, 2007
157. “The Gilbreath Principle in Mathematical Magic,” Joint Mathematics Meeting, New Orleans, Louisiana, January 6, 2007
158. “Better Poker Hands Guaranteed” (in MAA *Entertaining with Math* session), Joint Mathematics Meeting, New Orleans, Louisiana, January 5, 2007
159. “When I’m Sixty-four: How New and Old Mathematical Discoveries Can Be Combined to Ensure Winning Poker Hands,” Department of Mathematics Seminar, Virginia Tech, Blacksburg, Virginia, June 23, 2006
160. (with Jeffrey Ehme) “Poker Faced,” MAA Southeastern Section and SIAM Southeastern Atlantic Section Meeting, Auburn University, Auburn, Alabama, March 31, 2006
161. “Three Proofs and Three Variations of the Low Down Triple Dealing Principle,” MAA Southeastern Section and SIAM Southeastern Atlantic Section Meeting, Auburn University, Auburn, Alabama, March 31, 2006
162. “Poker Faced,” Gathering 4 Gardner 7, Atlanta, Georgia, March 16, 2006
163. “Fab Math” (in *Mathematics and Popular Culture* session), Joint Mathematics Meeting, San Antonio, Texas, January 14, 2006
164. (with Jeffrey Ehme) “Poker Faced,” Joint Mathematics Meeting, San Antonio, Texas, January 13, 2006
165. (with Jeffrey Ehme) “An Earnest, Hamming Way to do Magic,” Joint Mathematics Meeting, San Antonio, Texas, January 13, 2006
166. (invited) “A Temporary Solution to a Permanent Problem?” (in *Permanent Use of Temporary Faculty: The Status of Non-ladder Faculty in Departments of Mathematics* session, sponsored by the Joint Committee on Teaching Assistants and Part-Time Instructors (TA/PTI)), Joint Mathematics Meeting, San Antonio, Texas, January 12, 2006
167. “An Introduction to Wavelets via Image Compression,” Temple University, Philadelphia, Pennsylvania, November 22, 2005
168. (invited) “Magic with Math—Eine Kleine Nachtmagie,” BAMA (Bay Area Mathematical Adventures) Lecture, Santa Clara University, Santa Clara, California, November 19, 2005
169. “Mathemagical Drama: It’s As Easy As Aodh, Bea, C & D,” San Jose State University, San Jose, California, November 18, 2005
170. “Wavelets made easy,” MAA Seaway Section Meeting, SUNY Geneseo, Geneseo, New York, October 29, 2005
171. (invited Banquet Speaker) “Eine Kleine Nachtmagie,” MAA Seaway Section Meeting, SUNY Geneseo, Geneseo, New York, October 28, 2005
172. “Questionable mathematics with a shuffled deck,” MAA Mathfest 2005, Albuquerque, New Mexico, August, 2005
173. “Mathematical Idol 2005” (at session on *Nifty Examples in Discrete Math*), MAA Mathfest 2005, Albuquerque, New Mexico, August, 2005
174. (with Sylvia Bozeman) “Experiences in Attracting Women to Mathematics at Spelman College” (at session on Innovative Mathematics Majors in Small/Medium Departments), MAA Mathfest, Albuquerque, New Mexico, August 4, 2005
(<http://persweb.wabash.edu/facstaff/axtellm/Curriculum%20Special%20Session/Colm.html>)

175. "Mathematical Principles in Card Tricks" (Mini-Lecture), Georgia Magic Club – International Brotherhood of Magicians Ring 9, Atlanta, Georgia, January 17, 2005
176. "An unbeatable deal in card tricks," Joint Mathematics Meeting, Atlanta, Georgia, January 5, 2005
177. "An ESPeriment with cards," MAA Mathfest 2004, Providence, Rhode Island, August 14, 2004
178. (invited) "Mathematical Card Tricks," Emory Math Club, Emory University, Atlanta, Georgia, April 15, 2004
179. "How to have fun with a deck of cards," Dublin Area Mathematical Colloquium, University College Dublin, Dublin, Ireland, March 29, 2004
180. "Craggy Island Connivory (*aka* How to perform mathematical miracles with a deck of cards!)," Maths Society, University College Dublin, Dublin, Ireland, March 25, 2004
181. "Mathematical Magic 101," *Faculty Council Brown Bag Lunch Series*, Spelman College, Atlanta, Georgia, Oct 14, 2003
182. (invited) "How to Pack More Into Your (Digital) Suitcase (An Introduction to Wavelets)," Saint Louis University, Madrid, Spain, April 9, 2003
183. (with Jeffrey Ehme, Aminah Perkins and Andrea Warren) "A Trick for Introducing Algebraic Coding Theory," 81st Anniversary MAA Southeastern Section Meeting, Clemson University, Clemson, South Carolina, March 21, 2003
184. "Writing in Math Courses," Writing Across the Curriculum Faculty Seminar, Georgia State University, Atlanta, Georgia, May 13, 2002
185. (invited) "An Introduction to Wavelets via Image Compression," *Math Jubilee*, University of Georgia, Athens, Georgia, April 13, 2002
186. (with John H. Conway) "Mathematical Card Tricks," at Gathering 4 Gardner 5, Atlanta, Georgia, April 7, 2002
187. "Five Card Tricks Using Discrete Math," Department of Mathematics Seminar, Spelman College, February 26, 2002
188. (invited) "Mathematical Magic: Card Tricks and More," North Georgia College & State University, Dahlonega, Georgia, December 6, 2001
189. (invited) "Wavelets and Image Compression," Samford University, Birmingham, Alabama, October 11, 2001
190. (with Jeffrey Ehme) "Morphing Erdős Into Card Tricks," MAA Mathfest '01, Madison, Wisconsin, August 2, 2001
191. (with Jeffrey Ehme and Ron Gould) "The Further Adventures of Two Mathemagicians in Madison," MAA Mathfest '01, Madison, Wisconsin, August 2, 2001
192. (invited) "Mathematical Card Tricks", Kappa Mu Epsilon Banquet Speaker, Georgia College and State University, Milledgeville, Georgia, April 11, 2001
193. "Using WebCT in a math for non-math-majors course", 13th Annual ICTCM (International Conference on Technology in Collegiate Mathematics), Atlanta, Georgia, November 19, 2000
194. "Card Tricks Anybody Can Do", Department of Mathematics Seminar, Spelman College, October 24, 2000
195. "Fitch Cheney's Five-Card Trick and Generalizations", MAA Mathfest 2000, UCLA, Los Angeles, California, August 3, 2000

196. (invited) "Using the Web in a Course," Project NExT special session, UCLA, Los Angeles, California, August 2, 2000
197. (invited) "Fitch Cheney's Five-Card Trick and Generalizations", MAA Oklahoma-Arkansas Section Meeting, Arkansas Technical University, Russellville, Arkansas, April 1, 2000
198. "Using the Web for a math for non-math-majors course", 79th Annual MAA Southeastern Section Meeting, UNC Charlotte, Charlotte, North Carolina, March 11, 2000
199. "Fitch Cheney's Five-Card Trick and Generalizations", 79th Annual MAA Southeastern Section Meeting, UNC Charlotte, Charlotte, North Carolina, March 10, 2000
200. "Using WebCT in a math for non-math-majors course", 12th Annual ICTCM (International Conference on Technology in Collegiate Mathematics), Burlingame, California, November 5, 1999
201. "Multimedia and Multidisciplinary Mathematical Explorations", 12th Annual ICTCM (International Conference on Technology in Collegiate Mathematics), Burlingame, California, November 5, 1999
202. "Applied Curves & Surface Explorations with Maple", MAA Mathfest '99, Providence, Rhode Island, August 2, 1999
203. "Using Matlab to Explore Topics in Image Processing", MAA Mathfest '99, Providence, Rhode Island, August 2, 1999
204. " $a^2 + b^2 = c^2$? A down-to-earth look at Pythagoras' theorem", MAA Mathfest '99, Providence, Rhode Island, August 1, 1999
205. "An Introduction to Wavelets via Image Compression," Fourier Transforms and Wavelet Theory Workshop, Spelman College, June 2, 1999
206. "Image Acquisition, Image Processing and Remote Sensing", 9th Annual Environmental Awareness Week, Spelman College, April 24, 1999
207. "Multimedia and Multidisciplinary Mathematical Explorations", NCUR '99 (Thirteenth National Conference on Undergraduate Research), University of Rochester, Rochester, New York, April 8, 1999
208. (invited) "The Curves and Surfaces of the Digital Age", 16th Annual Conference on Undergraduate Mathematics, Rose-Hulman Institute of Technology, Terre Haute, Indiana, March 20, 1999
209. (invited) "Wavelets—a new tool for imaging, graphics and Hollywood", 16th Annual Conference on Undergraduate Mathematics, Rose-Hulman Institute of Technology, Terre Haute, Indiana, March 19, 1999
210. " $a^2 + b^2 = c^2$? A down-to-earth look at Pythagoras theorem," MAA Southeastern Section Meeting, Rhodes College, Memphis, Tennessee, March 12, 1999
211. (invited) "An Introduction to Wavelets and Image Compression," Department of Mathematics Colloquium Lecture, Clark Atlanta University, Atlanta, Georgia, February 10, 1999
212. "Geometry is Alive—Long Live Geometry!", *Geometry In The Classroom In The Next Millennium*, MAA Contributed Paper Session, Joint Mathematics Meeting, San Antonio, Texas, January 14, 1999
213. (with John Rossi) "Why teach Singular Value Decomposition?", Eleventh Annual ICTCM (International Conference on Technology in Collegiate Mathematics), New Orleans, Louisiana, November 21, 1998
214. (with Jeffrey Ehme) "Curves and Surfaces Using Maple," Annual ICTCM (International Conference on Technology in Collegiate Mathematics), New Orleans, Louisiana, November 21, 1998

215. "Retraining Management and Workers: New Production Line and Quality Control Techniques That Work," 77th Annual MAA Southeastern Section Meeting, College of Charleston, Charleston, South Carolina, March 14, 1998
216. "Getting Images On and Off the World Wide Web," 77th Annual MAA Southeastern Section Meeting, College of Charleston, Charleston, South Carolina, March 14, 1998
217. "To multiply, or not: that is the question," 77th Annual MAA Southeastern Section Meeting, College of Charleston, Charleston, South Carolina, March 13, 1998
218. (invited) "An Introduction to Wavelets", University College Galway, Galway, Ireland, March 4, 1998
219. (invited) "Matrix Tricks for Image Compression", Letterkenny Institute of Technology, Letterkenny, Donegal, Ireland, March 3, 1998
220. (invited) "An Introduction to Wavelets", University of Ulster Magee, Derry, Northern Ireland, March 2, 1998
221. (invited) "An Introduction to Wavelets", University College Dublin, Dublin, Ireland, February 27, 1998
222. "Exploring Frontiers in Geometry—Looking Back and Looking Forward", part of *Exploring New Frontiers in Geometry: in the World Around Us and in Our Classrooms*, a symposium at the American Association for the Advancement of Science AMSIE'98, Philadelphia, Pennsylvania, February 13, 1998
223. "An Introduction to Wavelets", University College Dublin, Dublin, "Using Wavelets to Speed Up Image Transmission on the Web," Department of Mathematics & Computer Science, Georgia College and State University, Milledgeville, Georgia, September 23, 1997
224. "Undergraduate Research in Mathematics with Multimedia Applications," MAA Mathfest '97, Atlanta, Georgia, August 3, 1997
225. (with David Henderson & Daina Taimina) "Living Geometry for Liberal Arts Majors: Hand-on and Discovery-based Approaches," MAA Mathfest '97, Atlanta, Georgia, August 2, 1997
226. "Wavelets," ATLAST Developer's Workshop, University of California at San Diego, La Jolla, California, June 25–28, 1997
227. "Geometry for Globe Dwellers in the 21st Century," Tenth Annual Mathematics Conference at DeKalb College, Clarkston, Georgia, May 3, 1997
228. "Explorations at the Interface of Mathematics and Computer Science," Faculty Undergraduate Research Network Forum, NCUR '97 (Eleventh National Conference on Undergraduate Research), University of Texas at Austin, Texas, April 24, 1997
229. "Digital Image Analysis in Environmental Sciences," 7th Annual Environmental Awareness Week, Spelman College, Atlanta, Georgia, April 22, 1997
230. (with John Rossi & Richard Elderkin) "ATLAST—A New Approach To Singular Value Decomposition," 75th Anniversary MAA Southeastern Section Meeting, Spelman College & Georgia Institute of Technology, Atlanta, Georgia, March 14, 1997
231. (invited) "Wavelets Made Easy," Department of Mathematics, The Citadel, Charleston, South Carolina, February 25, 1997
232. "Introduction to Wavelets," Department of Mathematics, Spelman College, Atlanta, Georgia, February 11, 1997

233. Richard Elderkin (with Colm Mulcahy & John Rossi) "Singular Value Decomposition as a Last Lecture for Linear Algebra Courses," Joint Mathematics Meeting, San Diego, California, January 8, 1997
234. (invited) "An Introduction to Wavelets via Image Compression," Department of Mathematics, Emory University, Atlanta, Georgia, December 6, 1996
235. "Image Compression via Wavelets," Ninth Annual ICTCM (International Conference on Technology in Collegiate Mathematics), Reno, Nevada, November 9, 1996
236. (with John Rossi & Richard Elderkin) "Singular Decomposition Made Easy," Ninth Annual ICTCM (International Conference on Technology in Collegiate Mathematics), Reno, Nevada, November 9, 1996
237. (with Jeffrey Ehme) "Computer Aided Geometric Design," Ninth Annual ICTCM (International Conference on Technology in Collegiate Mathematics), Reno, Nevada, November 8, 1996
238. "Rational Points On Elliptic Curves," Ninth Annual ICTCM (International Conference on Technology in Collegiate Mathematics), Reno, Nevada, November 8, 1996
239. (invited) "Image Compression Using Wavelets," Department of Mathematics, Carnegie Mellon University, Pittsburgh, Pennsylvania, June 18, 1996
240. "Matrices and the World Wide Web," Ninth Annual Mathematics Conference at DeKalb College, Clarkston, Georgia, April 27, 1996
241. "Wavelets Made Easy," Mathematical Association of America Regional Meeting, University of Alabama in Huntsville, Huntsville, Alabama, April 12, 1996
242. "Image Compression Using Wavelets," Eighth Annual ICTCM (International Conference on Technology in Collegiate Mathematics), Houston, Texas, November 1995
243. "Rational Points on Elliptic Curves," Eighth Annual ICTCM (International Conference on Technology in Collegiate Mathematics), Houston, Texas, November 1995
244. "Using Maple to Explore The Basics of Computer Aided Geometric Design," SIAM Geometric Design Meeting, Nashville, Tennessee, November 1995
245. "Using Maple to Explore The Basics of Computer Aided Geometric Design," ISSAC (International Symposium on Symbolic and Algebraic Computation), Concordia University, Montreal, Quebec, Canada, July 12, 1995
246. "Getting The Picture—The Basics Of Image Processing," Eighth Annual Mathematics Conference at DeKalb College, Clarkston, Georgia, April 29, 1995
247. "Computer Aided Geometric Design—A Model For An Undergraduate Seminar," Faculty Undergraduate Research Network Forum, NCUR'95 (Ninth National Conference on Undergraduate Research), Union College, Schenectady, New York, April 21, 1995
248. "The Mathematics of Computer Graphics," Center for Scientific Applications of Mathematics Faculty Seminar, Spelman College, November 22, 1994
249. "The Mathematical Elements Of Computer Aided Geometric Design," Seventh Annual ICTCM (International Conference on Technology in Collegiate Mathematics), Orlando, Florida, November 19, 1994
250. "The Representation Theorem," AMS Meeting, University of Chicago, Chicago, Illinois, May 1989
251. (invited) "Spaces of Signatures," conference on Quadratic Forms and Real Algebraic Geometry, Oregon State University, Corvallis, Oregon, July 24–26, 1986

252. “Quadratic Forms & Valuations,” Department of Mathematics Colloquium, Kent State University, Kent, Ohio, October 14, 1983

Workshops/ Minicourses/ Short Courses attended

1. “Heavenly mathematics: The forgotten art of spherical trigonometry” (MAA minicourse), Joint Mathematics Meeting, San Diego, California, January 10 & 12, 2013
2. “Visualizing projective geometry through photographs and perspective drawings” (MAA minicourse), Joint Mathematics Meeting, San Diego, California, January 9 & 11, 2013
3. “Algebraic Number Theory” (MAA/PREP workshop), Williams College, Williamstown, Massachusetts, June 27–July 1, 2010
4. “Mathematics and Politics” (MAA/PREP workshop), Williams College, Williamstown, Massachusetts, June 15–20, 2008
5. “Implementing Biology Across the Mathematics Curriculum,” (MAA Short Course), MAA Mathfest 2007, San Jose, California, August 1–2, 2007
6. “Wavelets and Applications—A Multi-Disciplinary Undergraduate Course with an Emphasis on Scientific Computing” (MAA/PREP workshop), University of St. Thomas, St. Paul, Minnesota, June 7–10, 2007
7. “Over the Fence: Mathematicians and Biologists Talk About Bridging the Curricular Divide” (workshop), Mathematical Biosciences Institute, The Ohio State University, Ohio, June 1–2, 2007
8. “More Music and Mathematics” (MAA minicourse), Joint Mathematics Meeting, New Orleans, Louisiana, January 6 & 8, 2007
9. “Computational and Mathematical Biology” (MAA/PREP workshop), Sweet Briar College, Amherst, Virginia, June 18–23, 2006
10. “Bio 2010: How Genes Act in Populations” (Faculty Resource Network Summer Seminar), NYU, New York, New York, June 12–16, 2006
11. “Cryptography, Security and the Internet,” (MAA Shortcourse), MAA Southeastern Section and SIAM Southeastern Atlantic Section Meeting, Auburn University, Auburn, Alabama, March 31, 2006
12. “Geometry with History for Teaching Teachers” (MAA minicourse), MAA Mathfest, Albuquerque, New Mexico, August 5–6, 2005
13. “The Mathematics of Presidential and Other Elections” (MAA minicourse), MAA Mathfest, Albuquerque, New Mexico, August 4–6, 2005
14. “Teaching a Course in the History of Mathematics” (MAA minicourse), MAA Mathfest, Albuquerque, New Mexico, August 4–5, 2005
15. “Interactive Internet-based Multivariable Calculus” (MAA/PREP workshop), Brown University, Providence, Rhode Island, June 26–29, 2005
16. “Bio 2010: Integrative Approaches to Teaching Science” (Faculty Resource Network Summer Seminar), NYU, New York, New York, June 6–10, 2005
17. “Fair Enough? Mathematics of Equity” (MAA minicourse), Joint Mathematics Meeting, Atlanta, Georgia, January 6 & 8, 2005
18. “Teaching a Galois Theory for Undergraduates” (MAA minicourse), Joint Mathematics Meeting, Atlanta, Georgia, January 5 & 7, 2005

19. AMS "Workshop for Department Chairs and Department Leaders," Atlanta, Georgia, January 4, 2005
20. Acrobat/WebCT Workshop, Spelman College, June 3, 2002
21. "Financial Mathematics" (MAA minicourse), Joint Mathematics Meeting, San Diego, California, January 7–9, 2002
22. "Coding Theory" (MAA Short Course), UCLA, Los Angeles, California, August 1–2, 2000
23. Bush Faculty Development Workshop, Spelman College, August 16–25, 1999
24. Collaboratives to Integrate Research and Education (CIRE), Atlanta, Georgia, December 10–11, 1998
25. "Writing to Learn in the Disciplines," Comprehensive Writing Center Faculty Development Workshop, Spelman College, May 27–31, 1997
26. "ATLAST Developers," NSF Undergraduate Faculty Enhancement Workshop on Teaching of Linear Algebra, University of Washington, Seattle, Washington, August 13–16, 1996
27. "Dynamic Geometry Lab with Sketchpad" (MAA Minicourse), MAA Mathfest '96, University of Washington, Seattle, Washington, August 11–12, 1996
28. "Discovering the performer in you: An improv teaching workshop," MAA Workshop, MAA Mathfest '96, University of Washington, Seattle, Washington, August 11, 1996
29. "Teaching Undergraduate Geometry," NSF Undergraduate Faculty Enhancement Workshop, Cornell University, Ithaca, New York, June 10–15, 1996
30. "Digital Image Processing with Mathematica," Eighth Annual ICTCM (International Conference on Technology in Collegiate Mathematics), Houston, Texas, November 18, 1995
31. "Grasping Handle Graphics," Matlab Conference, Cambridge, Massachusetts, October 16, 1995
32. "Image Processing," Matlab Conference, Cambridge, Massachusetts, October 16, 1995
33. "Digital Signal Processing," Matlab Conference, Cambridge, Massachusetts, October 17, 1995
34. "Wavelets," Matlab Conference, Cambridge, Massachusetts, October 17, 1995
35. "Programming with OpenGL: an Introduction," ACM Siggraph '95 Conference, Los Angeles, California, August 6, 1995
36. "Wavelets and Their Applications to Computer Graphics," ACM Siggraph '95 Conference, Los Angeles, California, August 7, 1995
37. "Programming Open Inventor: an Object-Oriented OpenGL Toolkit," ACM Siggraph '95 Conference, Los Angeles, California, August 8, 1995
38. "ATLAST," NSF Undergraduate Faculty Enhancement Workshop on Teaching Linear Algebra, Seattle University, Seattle, Washington, June 21–24, 1995
39. "Wavelets," SIAM-SEAS Regional Meeting, The Citadel, Charleston, South Carolina, March 24, 1995
40. "Basic Issues in Computer Aided Visualization," The Geometry Center, Minneapolis, Minnesota, August 13–14, 1994
41. "Wavelets," University of Alberta, Edmonton, Alberta, Canada, June 13–14, 1994

42. “Computer Graphics,” Boeing Computer Services Faculty Development Workshop, Clark Atlanta University, Atlanta, Georgia, May 17–20, 1994

Professional Service

1. Advisory Board, National Museum of Mathematics, 2014–
2. Co-chair, Mathematics Awareness Month 2014 Committee, 2013–2014
3. Chair, Martin Gardner Centennial Committee, 2013–2014
4. Guest blogger at (*Scientific American*), 2013–
5. Blogger at (*Huffington Post*), 2012–
6. Bi-monthly columnist (*Card Colm*) at MAA.org, 2004–2014
7. MAA’s *Math Horizons* Editorial Board, 2003–2008, 2014–
8. Consultant and Mentor for Project NExT, 2008–
9. MAA Committee on the Participation of Women, 2012–2015
10. MAA Subcommittee on Short Courses, 2007–2013
11. MAA Committee on Minority Participation in Mathematics, 2006–2012
12. *MAA Focus* Editorial Board, 2003–2014
13. Gathering 4 Gardner Outreach Diversity Committee, 2012–
14. Gathering 4 Gardner Committee, 2010–
15. Celebration of Mind Committee, 2010–
16. *MAA Online* Editorial Board, 2003–2007
17. MAA Mathfest 2004 (Providence, RI) Program Committee (proposed 2 of the 3 plenary speakers)
18. MAA Minicourse Committee, 2000–2006 (Local organizer Atlanta meeting, January 2005)
19. Consultant for Project NExT, 1997–2002
20. Proposed and organized (with David Henderson and Barry Schiller) contributed paper session on “Geometry In The Classroom In The Next Millennium” at the Joint Winter Meeting, San Antonio, Texas, January 13–16, 1999
21. (with David Henderson) Organizer of *Exploring New Frontiers in Geometry: in the World Around Us and in Our Classrooms*, a whole-day symposium at the American Association for the Advancement of Science’s Annual Meeting and Science Innovation Exposition, Philadelphia, February 13, 1998
22. (with Farid Dowla) Organizer of *Wavelets: The Latest Big Splash in Science, Engineering, Imaging and Graphics*, a half-day symposium at the American Association for the Advancement of Science’s Annual Meeting and Science Innovation Exposition, Philadelphia, February 17, 1998
23. Co-organized and ran a special two-day session on “Quadratic Forms and Real Algebraic Geometry” during the AMS meeting at the University of Chicago, May 1989

Community Service

1. AIDS Walk Atlanta, 1997– (walker, team leader and fundraiser)
2. Volunteer and airshifter, WRFG Atlanta, 89.3 FM, non-commercial community radio, 1989–1991, 1995–2001 and 2005–2013; station webmaster, 1999–2001
3. Project Magic volunteer, 2002–2003 (performed magic in hospitals)
4. Habitat for Humanity, 1997–2002 (Faculty advisor to Spelman student chapter 1999–2002, Faculty & Staff volunteer coordinator 2000–2002 and 2003–2004)

December 12, 2014