

Allan J. Rossman

Curriculum Vitae March 2011

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EDUCATION

- Ph.D., Statistics, Carnegie Mellon University, 1989
- M.S., Statistics, Carnegie Mellon University, 1986
- B.A., Geneva College, summa cum laude, 1984 (Majors: Mathematics, English)

POSITIONS HELD

- Professor of Statistics, California Polytechnic State University - SLO, 2006-
- Associate Professor of Statistics, Cal Poly - SLO, 2001-2006
- Associate Professor of Statistics and Mathematics, Dickinson College, 1996-2001
- Assistant Professor of Mathematics, Dickinson College, 1989-1996

COURSES TAUGHT

- **Cal Poly**
 - STAT 130: Introduction to Statistical Reasoning
 - STAT 150: Introduction to Statistical Investigations
 - STAT 217: Introduction to Statistical Concepts and Methods
 - STAT 218: Applied Statistics for the Life Sciences
 - STAT 221: Introduction to Probability and Statistics
 - STAT 251: Statistical Inference for Management I
 - STAT 252: Statistical Inference for Management II
 - STAT 301: Statistics I
 - STAT X320: Statistical Concepts and Methods for Mathematics and Statistics
 - STAT 321: Probability and Statistics for Engineers and Scientists
 - STAT 322: Statistical Analysis for Engineers and Scientists
 - STAT 350: Probability and Random Process for Engineers
 - STAT 425: Probability Theory
 - STAT 426: Estimation and Sampling Theory
 - STAT 427: Mathematical Statistics
 - Senior Projects
 - “The Role of the Stolen Base in Baseball,” A. Kaplan, 2010
 - “Assessing Students’ Understanding of Statistical Significance,” E. Tietjen (supervised with B. Chance), 2009
 - “Understanding of the Statistical Procedure of Confidence Intervals,” O. Mead (supervised with B. Chance), 2009
 - “Analysis of Variability of Professional Golfers’ Performance,” S. Silva, 2008

- “An Examination of the Effects of Home Field Advantage in Several Models,” A. Owen, 2008
- “The Use of Statistics in Jury Research,” J. Maskell, 2008
- “Expected Value of Sample Information,” A. Humphrey, 2005.
- “Is There a Better Way to Play the World Series?,” N. Magill, 2005.
- “Parity and Competitive Balance in Professional Sports,” A. Quan, 2005.
- “Survey of Statistical Backgrounds and Habits of California Secondary Mathematics Teachers,” A. King (supervised with B. Chance), 2005.
- “Assessing the Effectiveness of Technology in a Classroom Setting,” K. Pesicka (supervised with B. Chance), 2004
- “Extensions of the Secretary Problem,” C. Kreutner, 2003
- “Pythagorean Theorems for Predicting Team Sports Performance,” D. Schumann, 2003
- **Dickinson College**
 - Quantitative Reasoning, Elementary Statistics
 - Statistical Data Analysis, Probability, Mathematical Statistics I & II
 - Abstract Algebra, Linear Algebra, Discrete Mathematics, Applied Discrete Mathematics, Calculus II,
 - Freshman Seminars
 - Our National Pastime: Baseball and American Culture
 - Science Fiction: Visions of the Future
 - Independent Studies
 - Bayesian Statistical Inference, Game Theory, Statistical Data Analysis II
 - Independent Research
 - B. Tressler ‘97, optimal game strategies, 1996-97
 - M. Parks ‘95, simulating baseball line-ups, 1994-95
 - D. Usner ‘92, tournament design, 1991-92
 - Internship Supervision

HONORS AND DISTINCTIONS

- MERLOT (Multimedia Educational Resources for Learning and Online Teaching) Award for Exemplary Online Materials (with Beth Chance), 2011
 - CAUSEweb Resource of the Year Award (with Beth Chance), 2009
- Deborah and Franklin Tepper Haimo Award for Distinguished College or University Teaching of Mathematics, Mathematical Association of America, 2010
 - Distinguished College or University Teaching of Mathematics, Northern California, Nevada, and Hawaii Section of MAA, 2009
- Chief Reader, Advanced Placement Statistics, 2009-
 - Responsible for developing scoring rubrics, organizing and supervising grading of over 130,000 AP Statistics exams per year
- President, International Association for Statistical Education, 2007-09
 - President-Elect, 2005-2007
- Program Chair, Joint Statistical Meetings, 2007
 - Chaired program committee for conference with more than 2500 presentations, more than 5000 participants
- Best Contributed Paper Award, SIGMAA on Statistics Education, 2006

- Fellow of the American Statistical Association, 2001
- Elected member of International Statistical Institute, 2010

GRANTS AWARDED

- Principal Investigator for “Collaborative Research: The CATALST Project: Change Agents for Teaching And Learning STatistics” (with B. Chance), NSF/DUE/CCLI Program, Award #0816319, 2008-2011, \$181,686.
- Principal Investigator for “Concepts of Statistical Inference: A Randomization-Based Curriculum,” (with B. Chance), NSF/DUE/CCLI Program, Award #0633349, 2007-2008, \$149,842.
- Principal Investigator for “A Data-Oriented, Active Learning, Post-Calculus Introduction to Statistical Concepts, Methods and Theory,” (with B. Chance), NSF/DUE/CCLI Program, Award #9950476, #0321973, 1999-2004, \$252,828.
- Principal Investigator for “STATS: Statistical Thinking with Active Teaching Strategies,” (with T. Short), NSF/DUE/UFE Program, Award #9554621, 1996-1999, \$202,843.
- Co-Principal Investigator for “Workshop Precalculus: Developing Pedagogically Powerful Instructional Materials for an Integrated Course in Functions, Data Analysis, and Modeling,” (with N. Baxter Hastings, K. Callahan, P. Laws, D. Hastings), NSF/DUE/CCLI Program, Award #9952483, 2000-2003, \$496,445.
- Co-Principal Investigator for “Disseminating the Workshop Mathematics Program,” (with N. Baxter), FIPSE Program, U.S. Dept. of Education, 1995-1998, \$233,955.
- Co-Principal Investigator for “Workshop Mathematics: Using New Pedagogy and Computers in Introductory Mathematics and Statistics Courses,” (with N. Baxter, P. Laws), FIPSE Program, U.S. Dept. of Education, 1991-1994, \$283,000
- Co-Principal Investigator for “Microcomputer-Equipped Workshops for the Introductory Mathematics Program,” (with N. Baxter, J. Stodghill), NSF/DUE/ILI Program, Award #9152325, 1991-1994, \$92,000.

PUBLICATIONS

Books

- Chance, B. and Rossman, A. (2006), *Investigating Statistical Concepts, Applications, and Methods*, Pacific Grove CA: Duxbury Press.
- *Workshop Statistics* series
 - Rossman, A. and Chance, B. (2008), *Workshop Statistics: Discovery with Data* (3rd ed.), Hoboken, NJ: John Wiley & Sons.
 - Rossman, A., Chance, B., and Lock, R. (2008), *Workshop Statistics: Discovery with Data and Fathom* (3rd ed.), Hoboken, NJ: John Wiley & Sons.
 - Rossman, A., Chance, B., and von Oehsen, J.B. (2002), *Workshop Statistics: Discovery with Data and the Graphing Calculator* (3rd ed.), Hoboken, NJ: John Wiley & Sons.

Articles (in Peer-Reviewed Journals)

- Rossman, A. (2008), “Reasoning About Informal Statistical Inference: One Statistician’s View,” *Statistics Education Research Journal*, 7(2), 5-19.
- Rossman, A. and Tesman, B. (2002), “Do You Want to Deal?” *Pi Mu Epsilon Journal*, 11, 319-326.

- Chance, B. and Rossman, A. (2001), “Sequencing Topics in Introductory Statistics: A Debate on What to Teach When,” *The American Statistician*, 55, 140-144.
- Rossman, A. and Chance, B. (1999), “Teaching the Reasoning of Statistical Inference: A ‘Top Ten’ List,” *College Mathematics Journal*, 30, 297-305.
- Rossman, A., Short, T., and Parks, M. (1998), “Bayes Estimators for the Continuous Uniform Distribution,” *Journal of Statistics Education*, 6(3).
- Rossman, A. (1997), “Quantitative Reasoning: Argument with Data,” *College Teaching*, 45, 52-54.
- Rossman, A. and Short, T. (1995), “Conditional Probability and Education Reform: Are They Compatible?,” *Journal of Statistics Education*, 3(2).
- Henry, J., Rossman, A., and Snyder, J. (1995), “Quantitative Evaluation of Software Process Improvement,” *The Journal of Systems and Software*, 28, 169-177.
- Rossman, A. (1994), “Televisions, Physicians, and Life Expectancy,” *Journal of Statistics Education*, 2(2).

Articles (Book Chapters)

- Harradine, A., Batanero, C., and Rossman, A. (2011), “Students’ and Teachers’ Knowledge of Sampling and Inference,” to appear in *Statistics Education in School Mathematics: Challenges for Teaching and Teacher Education*, International Commission for Mathematics Instruction.
- Rossman, A., Chance, B., and Medina, E. (2006), “Some Important Comparisons Between Statistics and Mathematics, and Why Teachers Should Care,” in *Thinking and Reasoning with Data and Chance*, National Council of Teachers of Mathematics.
- Rossman, A. (2006), “Integrating Data Analysis into Precalculus Courses,” in *A Fresh Start for Collegiate Mathematics: Rethinking the Courses Below Calculus*, ed. Nancy Baxter Hastings, Mathematical Association of America.
- Rossman, A. (2006), “Workshop Precalculus: Functions, Data, Models,” in *A Fresh Start for Collegiate Mathematics: Rethinking the Courses Below Calculus*, ed. Nancy Baxter Hastings, Mathematical Association of America.
- Rossman, A. (2005), “Teaching a Data-Oriented, Activity-Based Course,” in *Innovations in Teaching Statistics*, ed. Joan Garfield, Mathematical Association of America.
- Moore, T., Peck, R., and Rossman, A. (2004), “Statistics: CRAFTY Curriculum Foundations Project,” in *The Curriculum Foundations Project: Voices of the Partner Disciplines*, ed. Ganter and Barker, Mathematical Association of America, pp. 125-144.
- Chromiak, W., Hoefler, J., Rossman, A., and Tesman, B. (1992), “A Multidisciplinary Conversation on the First Course in Statistics,” in *Statistics for the Twenty-First Century*, ed. Gordon and Gordon, MAA Notes, pp. 26-36.
- Chromiak, W. and Rossman, A. (1992), “Using HyperCard to Teach Statistics,” in *Statistics for the Twenty-First Century*, ed. Gordon and Gordon, MAA Notes, p. 243-257.

Articles (Miscellaneous)

- Rossman, A. (1997), "STATS: Workshops for Mathematicians Who Teach Statistics," *Amstat News*, 248, 29.
- Rossman, A., Hoefler, J., and Parks, M. (1995), "Quantitative Reasoning: An Interactive Approach for the Liberal Arts," *Proceedings of the Seventh International Conference on Technology in Collegiate Mathematics*.
- Rossman, A., Short, T., and Hesterberg, T. (1994), "Bayesian Analyses of the Bradley-Terry Model of Paired Comparisons," *1994 Proceedings of the Section on Bayesian Statistics*, American Statistical Association.
- Rossman, A. (1994), "Techno-Thriller Statistics: Chance in the Fiction of Michael Crichton," *Chance*, 7, 32-34.
- Rossman, A. and Parks, M. (1993), "Computer Simulation of a Handicap Scoring System for Tennis," *Stats: The Magazine for Students of Statistics*, 10, 14-18.
- Rossman, A. and Short, T. (1993), "A Bayesian Outlier Model Applied to Tournament Design," *1993 Proceedings of the Section on Statistics in Sports*, ASA.
- Rossman, A. (1992), "Introductory Statistics: The "Workshop" Approach," *1992 Proceedings of the Section on Statistical Education*, American Statistical Association.

Edited Publications

- Batanero, C., Burrill, G., Reading, C., and Rossman, A., eds. (2008), *Proceedings of the ICMI Study 18 and 2008 IASE Roundtable Conference on Teaching Statistics in School Mathematics: Challenges for Teaching and Teacher Education*.
- Rossman, A. and Chance, B., eds. (2006), *Proceedings of the Seventh International Conference on Teaching Statistics*.
- Rossman, A. and Chance, B., eds. (2002-2004), *Stats: The Magazine for Students of Statistics*, American Statistical Association.

Book Reviews

- Rossman, A. (2000), Review of *Statistics You Can't Trust*, by Steven Campbell, *The American Statistician*, 54, 151.
- Rossman, A. (1997), Review of *Introduction to Probability*, by Douglas Kelly, *Journal of the American Statistical Association*, 92, 1296.
- Rossman, A. (1996), Review of *Statistics for the Terrified*, by Gerald Kranzler and Janet Moursund, *The American Statistician*, 50, 277-278.
- Rossman, A. (1995), Review of *Statistics: Learning in the Presence of Variation*, by Robert Wardrop, *The American Statistician*, 49, 237-238.
- Rossman, A. (1995), Review of *Bayes or Bust?: A Critical Examination of Bayesian Confirmation Theory*, by John Earman, *Modern Logic*, 5, 193-196.
- Rossman, A. (1989), Review of *The Method of Paired Comparisons* (2nd ed.), by Herbert A. David, *Journal of the American Statistical Association*, 84, 621.

PRESENTATIONS

Professional Conferences

- "Ask Good Questions," invited presentation for Golden Section of Mathematical Association of America, Santa Rosa CA, February 2011.

- “Ask Good Questions,” invited presentation at International Conference on Teaching Statistics, Ljubljana, Slovenia, July 2010.
- “Joint ICMI/IASE Study on Statistics Education in School Mathematics: Challenges for Teaching and Teacher Education,” invited panel presentation at International Conference on Teaching Statistics, Ljubljana, Slovenia, July 2010.
- “Preparing K-12 Teachers of Statistics,” (with B. Chance), Association of Mathematics Teacher Educators Annual Conference, Irvine CA, January 2010.
- “Ask Good Questions,” invited presentation as recipient of Haimo Distinguished Teaching Award, Joint Mathematics Meetings, San Francisco, January 2010.
- “Introducing Statistical Inference with Randomization Tests,” invited presentation for California Mathematics Council Community Colleges, Monterey CA, December 2009.
- “Some Curriculum Initiatives for Undergraduate Statistics in the U.S.,” invited presentation for Royal Statistical Society Annual Conference, Edinburgh, September 2009.
- “Concepts of Statistical Inference: A Randomization-Based Curriculum,” ISI World Statistics Congress, Durban, South Africa, August 2009.
- “Some Challenges for Recruiting the Next generation of Statisticians,” invited panel presentation at ISI World Statistics Congress, Durban, South Africa, August 2009.
- “A Randomization-Based Curriculum for Introductory Statistics,” IASE Satellite Conference, Durban, South Africa, August 2009.
- “Checking Conditions for Statistical Inference,” invited presentation at AP Annual Conference, San Antonio TX, July 2009.
- “Results from the 2009 AP Statistics Exam Administration,” (with R. Carver), AP Annual Conference, San Antonio TX, July 2009.
- “Which Topics Can Be Let Go in Stat 101?” (with B. Chance), invited breakout session at United States Conference on Teaching Statistics, Columbus OH, May 2009.
- “Concepts of Statistical Inference: A Randomization-Based Curriculum,” (with B. Chance, G. Cobb, J. Holcomb), invited poster presentation at 2008 CCLI Conference, Washington DC, August 2008.
- “Concepts of Statistical Inference: A Randomization-Based Curriculum,” (with B. Chance, G. Cobb, J. Holcomb), invited paper presentation at ASA/IMS Joint Statistical Meetings, Denver, August 2008.
- “Introducing Concepts of Statistical Inference,” invited presentation at 2nd International Conference on Census@School, Los Angeles, July 2008.
- “Welcoming and Closing Remarks,” IASE Roundtable Conference on Teaching Statistics in School Mathematics: Challenges for Teaching and Teacher Education, Monterrey Mexico, June-July 2008.
- “A Statistician’s View on the Concept of Informal Reasoning,” invited presentation at Fifth International Research Forum on Statistical Reasoning, Thinking, and Literacy, Warwick UK, August 2007.
- “The 20/20 of Statistical Education: Where We’ve Been and Where We’re Going,” invited panel presentation at ASA/IMS Joint Statistical Meetings, Salt Lake City, August 2007.

- “Seven Challenges for the Undergraduate Statistics Curriculum in 2007,” invited plenary presentation at Second United States Conference on Teaching Statistics, Columbus OH, May 2007.
- “Designing Classroom Activities for Student Learning,” (with B. Chance), topic contributed panel presentation at ASA/IMS Joint Statistical Meetings, Seattle, August 2006.
- “Challenges for Cooperation in Statistics Education,” invited panel presentation at Seventh International Conference on Teaching Statistics, Salvador, Brazil, July 2006.
- “A Post-Calculus Introduction to Statistics for Future Secondary Teachers,” (with B. Chance, E. Medina), invited presentation at Seventh International Conference on Teaching Statistics, Salvador, Brazil, July 2006.
- “Using Simulation to Teach and Learn Statistics,” (with B. Chance), invited presentation at Seventh International Conference on Teaching Statistics, Salvador, Brazil, July 2006.
- “Examples of Assessment Tasks to Improve Student Learning in Introductory Statistics,” (with B. Chance), contributed presentation at MAA/AMS Joint Mathematics Meetings, San Antonio, January 2006.
- “Requiring Statistics of Every Mathematics Major: Model Courses,” invited panel presentation at MAA/AMS Joint Mathematics Meetings, San Antonio, January 2006.
- “Nuts and Bolts of Assessment,” invited panel presentation at ASA/IMS Joint Statistical Meetings, Minneapolis, August 2005.
- “Choosing the Best: Decision-Making Under Uncertainty,” invited presentation at MAA MathFest, Albuquerque, August 2005.
- “Investigations for Introducing Mathematically Inclined Students to Statistics,” (with B. Chance), invited presentation at United States Conference on Teaching Statistics, Columbus, May 2005.
- “Rethinking the First Statistics Course for Math Majors: From Easy Additions and Changes to a Complete Metamorphosis,” (with B. Chance), invited panel presentation at ASA/IMS Joint Statistical Meetings, Toronto, August 2004.
- “Anticipating and Addressing Student Misconceptions,” contributed presentation at ARTIST Roundtable Conference on Assessment in Statistics Education, Appleton, WI, August 2004.
- “A Data-Oriented, Active Learning, Post-Calculus Introduction to Statistical Concepts, Methods, and Theory,” invited presentation at IASE Roundtable Conference on Curriculum, Lund, Sweden, June-July, 2004.
- “Using Simulation to Teach and Learn Statistical Concepts,” (with B. Chance), invited presentation at CORS/INFORMS Joint International Meeting, Banff, Canada, May 2004.
- “Activities for Introducing Students to Statistics,” invited presentation at AAAS/NSF Conference on “Invention and Impact,” Crystal City, VA, April 2004.
- “The Mathematical Statistics Sequence,” moderator of invited panel discussion at Joint Mathematics Meetings, Phoenix, January 2004.
- “Why Do We Check Assumptions for Inference?” (with B. Chance), contributed presentation at Joint Mathematics Meetings, Phoenix, January 2004.

- “Statistics Teacher Training at Cal Poly,” (with B. Chance, E. Medina), invited presentation at TEAMS: Teacher Education: Assessment, Methods, and Strategies, Athens, GA, October-November, 2003.
- “Innovative Ideas for Using Statistical Software to Teach Concepts,” (with B. Chance), invited panel presentation at ASA/IMS Joint Statistical Meetings, San Francisco, August 2003.
- “Integrating Data Analysis into College Algebra, Precalculus,” invited panel presentation at MAA MathFest, Boulder, August 2003.
- “Teaching Statistical Inference: Activities and Assessment,” (with B. Chance), invited presentation for Pacific Northwest section of MAA, Walla Walla, June 2003.
- “Using Technology to Investigate Statistical Concepts,” (with B. Chance), invited presentation at ENAR meeting, Tampa, March 2003.
- “The State of Statistics Education: Current Developments and Future Opportunities,” invited panel presentation at MAA/AMS Joint Mathematics Meetings, Baltimore, January 2003.
- “Teaching Using Fathom to Explore Mathematical and Statistical Ideas in Courses for Pre-Service Teachers,” (with B. Chance), invited presentation at International Conference on Technology in Collegiate Mathematics, Orlando, November 2002.
- “The Role of Statistics in a Mathematical Sciences Curriculum,” contributed panel presentation at ASA/IMS Joint Statistical Meetings, New York City, August 2002.
- “An Introductory Statistics Course for Prospective Mathematics Teachers,” (with B. Chance), invited presentation at the Beyond the Formula conference, Rochester, August 2002.
- “Random Rendezvous: A Simulation Activity Involving Geometric Probability” and “Choosing the Best: A Decision-Making Activity,” invited presentations at the Beyond the Formula conference, Rochester, August 2002.
- “A Data-Oriented, Active Learning, Post-Calculus Introduction to Statistical Concepts, Methods, and Theory,” (with B. Chance), invited presentation at the Sixth International Conference on Teaching Statistics, Cape Town, July 2002.
- “Classroom Activities for Exploring Randomness and Probability,” (with B. Chance), invited presentation at American Educational Research Association Annual Meeting, New Orleans, April 2002.
- “Integrating Data Analysis into Precalculus Courses,” invited panel presentation at MAA/AMS Joint Mathematics Meetings, San Diego, January 2002.
- “*Workshop Precalculus: Functions, Data, and Models*,” (with N. Baxter Hastings), contributed presentation at MAA Mathfest, Madison, August 2001.
- “Teaching Statistical Inference: Activities and Assessment,” (with B. Chance), invited presentation at CMC³-South conference, Costa Mesa CA, February 2001.
- “Teaching Undergraduate Statistics: Recommendations and Resources,” invited panel presentation at MAA/AMS Joint Mathematics Meetings, New Orleans, January 2001.
- “A Data-Oriented, Active Learning, Post-Calculus Introduction to Statistical Concepts, Methods, and Theory,” (with B. Chance and K. Ballman), invited poster at MAA/AMS Joint Mathematics Meetings, New Orleans, January 2001.
- “*Workshop Statistics: Activities for Teaching Statistical Literacy*,” invited presentation for Belgium Statistical Conference, September 2000.

- “A Data-Oriented, Active Learning, Post-Calculus Introduction to Statistical Concepts, Methods, and Theory,” (with B. Chance and K. Ballman), invited paper at ASA/IMS Joint Statistical Meetings, Indianapolis, August 2000.
- “A Data-Oriented, Active Learning, Post-Calculus Introduction to Statistical Concepts, Methods, and Theory,” (with B. Chance and K. Ballman), contributed paper at Western Statistics Teachers Conference, Greeley, CO, March 2000.
- “A Data-Oriented, Active Learning, Post-Calculus Introduction to Statistical Concepts, Methods, and Theory,” (with B. Chance and K. Ballman), contributed paper at MAA/AMS Joint Mathematics Meetings, Washington, January 2000.
- “STATS: Workshops for Mathematicians Who Teach Statistics,” invited paper at ASA/IMS Joint Statistical Meetings, Baltimore, August 1999.
- “Sequencing Topics in Introductory Statistics: A Debate on What to Teach When,” (with B. Chance), contributed paper at MAA/AMS Joint Mathematics Meetings, San Antonio, January 1999.
- “Reform in the Teaching of Statistics,” (with T. Moore), invited presentation at National Research Council Board on Mathematical Sciences Department Chairs Colloquium, Washington, November 1998.
- “Discussion of ‘Measuring Competitive Ability: Current Trends in Rating Systems for Games and Sports’,” invited discussion at the ASA/IMS Joint Statistical Meetings, Dallas, August 1998.
- “Workshop Statistics: Dissemination and Assessment,” (with B. Chance), invited presentation at the Fifth International Conference on Teaching Statistics, Singapore, June 1998.
- “Sequencing Topics in Introductory Statistics: A Debate on What to Teach When,” (with B. Chance), contributed paper at Western Statistics Teachers’ Conference, Colorado Springs, March 1998.
- “Workshop Statistics: Discovery with Data,” invited presentation at the Allegheny Mountain section meeting of the MAA, Indiana PA, October 1997.
- “Active Learning Across the Curriculum: Report from the Trenches at Dickinson College,” (with S. MacDonald, P. Laws, P. Lukehart), Elon College conference on “Rethinking Key Issues in College Learning,” Elon NC, September 1997.
- “STATS: Workshops for Mathematicians Who Teach Statistics,” (with T. Short, J. Garfield), invited poster at ASA/IMS Joint Statistical Meetings, Anaheim, August 1997.
- “Student Activities for Analyzing Data and Exploring Randomness and Drawing Inferences,” invited series of presentations for the Beyond the Formula Statistics Conference, Rochester, June 1997.
- “Assessing Innovations in the Classroom,” invited presentation at the Conference on Assessment in Statistics Courses, Boston, April 1997.
- “Workshop Statistics: Learning by Self-Discovery,” invited presentation at the Ohio section meeting of the Mathematical Association of America, Youngstown, April 1997.
- “Suggestions for Teaching the Reasoning of Statistical Inference,” invited presentation at the Midwest Conference on Teaching Statistics, Oshkosh, March 1997.

- “Choosing the Best: A Decision-Making Activity,” contributed paper at MAA/AMS Joint Mathematics Meetings, San Diego, January 1997.
- “Workshop Statistics: Discovery with Data,” contributed paper at ASA/IMS Joint Statistical Meetings, Chicago, August 1996.
- “Workshop Statistics: Using Technology to Promote Learning by Self-Discovery,” invited presentation at IASE Roundtable Conference on Research on the Role of Technology in Teaching and Learning Statistics, Granada, Spain, July 1996.
- “Workshop Statistics: Discovery with Data,” presentation at 45th Annual Conference of Pennsylvania Council of Teachers of Mathematics, White Haven, Pennsylvania, March 1996.
- “Some Recommendations for Teaching Statistical Inference,” contributed paper at MAA/AMS Joint Mathematics Meetings, Orlando, January 1996.
- “Workshop Statistics: Discovery with Data,” invited presentation at Annual Conference of California Mathematics Council of Community Colleges, Monterey, December 1995.
- “Bayesian Statistics and Education Reform: Are They Compatible?,” (with T. Short), contributed paper at ASA/IMS Joint Statistical Meetings, Orlando, August 1995.
- “Experimenting with Bayesian Statistics,” (with T. Short, M. Parks), invited presentation at International Conference on Technology in Collegiate Mathematics, Orlando, November 1994.
- “Quantitative Reasoning: An Interactive Approach for the Liberal Arts,” (with J. Hoefler, M. Parks), invited presentation at International Conference on Technology in Collegiate Mathematics, Orlando, November 1994.
- “Bayesian Analyses of the Bradley-Terry Model of Paired Comparisons,” (with T. Short, T. Hesterberg), contributed paper at ASA/IMS Joint Statistical Meetings, Toronto, August 1994.
- “Learning Statistics by Self-Discovery,” contributed paper at International Conference on Teaching Statistics (ICOTS), Marrakech, Morocco, July 1994.
- “The Workshop Mathematics Program” (with N. Baxter), invited presentation at FIPSE National Project Director’s Meeting, Washington, October 1993.
- “A Bayesian Outlier Model Applied to Tournament Design,” (with T. Short), contributed paper at ASA/IMS Joint Statistical Meetings, San Francisco, August 1993.
- “Introductory Statistics: The ‘Workshop’ Approach,” contributed paper at MAA/AMS Joint Mathematics Meetings, San Antonio, January 1993.
- “The Introductory Mathematics Program at Dickinson College,” (with N. Baxter, B. Tesman), invited poster session participant at MAA/AMS Joint Mathematics Meetings, San Antonio, January 1993.
- “A Bayesian Analysis of Paired Comparisons Data,” invited presentation at the Annual Conference of the Harrisburg Chapter of the American Statistical Association, Harrisburg, April 1992.
- “Introductory Statistics: The ‘Workshop’ Approach,” contributed paper at ASA Winter Meeting, Louisville, January 1992.
- “Using HyperCard to Teach Statistics” (with W. Chromiak), contributed paper at ASA Winter Meeting, Louisville, January 1992.

- “Bayesian Statistics in the Courtroom,” invited presentation at the EPADEL section meeting of the Mathematical Association of America, Philadelphia, October 1991.
- “Quantitative Reasoning Skills for Liberal Arts Students” (with M. Bottorff, W. Chromiak, J. Hoefler, S. Koont, J. Skelton), contributed paper at MAA/AMS Joint Mathematics Meetings, San Francisco, January 1991.
- “Using HyperCard to Teach Statistics” (with W. Chromiak), contributed paper at MAA/AMS Joint Mathematics Meetings, San Francisco, January 1991.
- “A Bayesian Approach to Tournament Problems,” contributed paper at ORSA/TIMS Joint National Meeting, Philadelphia, October 1990.

Workshops/Minicourses

- “Teaching Statistical Concepts with Activities, Data, and Technology,” (with B. Chance), two-day workshop conducted for Wisconsin Project NExT Fellows, Eau Claire, September 2010.
- “Teaching Statistical Concepts with Activities, Data, and Technology,” (with B. Chance), one-day workshop sponsored by CAUSE/ICPSR, Washington DC, September 2010.
- “Becoming a Change Agent for Statistics Education,” (with B. Chance, J. Holcomb, J. Garfield, R. delMas, A. Zieffler), two-day workshop for NSF-funded CATALST project, Minneapolis, June 2010.
- “Teaching Statistical Concepts with Activities, Data, and Technology,” (with B. Chance), invited workshop conducted for Project NExT Fellows, Portland OR, August 2009.
- “Introducing Statistical Inference with Randomization Tests,” presentation as part of Beyond AP Statistics workshop at Joint Statistical Meetings, Washington DC, August 2009.
- “Teaching Introductory Statistics with Activities and Data” (with B. Chance), one-day workshop sponsored by CAUSE/AMATYC, Oklahoma City, July 2009.
- “Becoming a Change Agent for Statistics Education,” (with B. Chance, J. Holcomb, J. Garfield, R. delMas, A. Zieffler), workshop for NSF-funded CATALST project, Columbus OH, June 2010.
- “Introducing Concepts of Statistical Inference” (with B. Chance, J. Holcomb), two-day workshop supported by CAUSE, Columbus OH, June 2009.
- “Teaching Introductory Statistics with Activities and Data”, one-day workshop sponsored by CAUSE/AMATYC, Palm Beach FL, March 2009.
- “INSPIRE: INsight into Statistical Practice, Instruction and REasoning,” (with B. Chance, R. Lock, T. Short), three-day practicum workshop conducted for AP Statistics teachers, Morro Bay CA, January 2008.
- “Introducing Concepts of Statistical Inference” (with B. Chance, G. Cobb, J. Holcomb), one-day workshop supported by CAUSE, San Diego, January 2008.
- “Teaching Statistical Concepts with Data, Activities, and Technology,” (with B. Chance), invited workshop for Project NExT fellows, Albuquerque, August 2005.
- “INSPIRE: INsight into Statistical Practice, Instruction and REasoning,” (with B. Chance, R. Lock, T. Short), week-long practicum workshop conducted for AP Statistics teachers, Cal Poly, July 2005.

- “Post-Calculus Investigations of Statistical Concepts and Methods,” (with B. Chance), four-day workshop conducted for college teachers, Cal Poly, July 2005.
- “INSPIRE: INsight into Statistical Practice, Instruction and REasoning,” week-long practicum workshop conducted for AP Statistics teachers, Cal Poly, July 2004.
- “INSPIRE: INsight into Statistical Practice, Instruction and REasoning,” week-long workshop conducted for AP Statistics teachers, Cal Poly, July 2004.
- “ISCAT: Investigating Statistical Concepts, Applications, and Theory,” (with B. Chance), four-day workshop conducted for college teachers, Cal Poly, June 2004.
- “Teaching Introductory Statistics with Data, Activities, Technology,” (with B. Chance), one-day NSF-funded workshop at Central Michigan University, April 2004.
- “Infusing Mathematics Courses with Data” and “Teaching Introductory Statistics with Data, Discovery, and Technology,” presentations for Key College Publishing Strategies in Mathematics Education Workshop Series, Georgia State University, Atlanta, February 2003.
- “Teaching Statistics with Activities and Data,” invited presentation for Greater San Diego Mathematics Council,” February 2004.
- “Teaching Precalculus Using a New Pedagogical Approach with New Uses of Technology,” (with N. Baxter Hastings, K. Callahan, C. Fratto), series of presentations at two-day NSF-funded workshop, Carlisle PA, November 2003.
- “Teaching with *Workshop Statistics*,” (with B. Chance), invited series of presentations for Greater San Diego School District, September 2003-March 2004.
- “Teaching Introductory Statistics with Data, Activities, Technology,” (with B. Chance), two-day workshop conducted for Wisconsin Project NExT, September 2003.
- “INSPIRE: INsight into Statistical Practice, Instruction and REasoning,” week-long workshop conducted for AP Statistics teachers, Cal Poly, July 2003.
- “Data Analysis Institute,” (with B. Chance, E. Medina), week-long workshop with follow-up sessions conducted for middle school teachers, Cal Poly, June 2003.
- “Teaching Introductory Statistics with Data and Activities,” (with B. Chance), minicourse conducted for Pacific Northwest Section of MAA, Walla Walla, June 2003.
- “Teaching Introductory Statistics with Data and Activities,” (with B. Chance), minicourse conducted at AMATYC Conference, Phoenix, November 2002.
- “Teaching Statistical Concepts with Hands-On Activities and Fathom Dynamical Software,” (with B. Chance, R. Lock), minicourse conducted at International Conference on Technology in Collegiate Mathematics, Orlando, November 2002.
- “Activities for Teaching Sampling Distributions and Statistical Inference,” (with B. Chance), series of presentations as part of workshop conducted at Cal Poly, July 2002.
- “Teaching Precalculus Using a New Pedagogical Approach with New Uses of Technology,” (with N. Baxter Hastings, K. Callahan, C. Fratto), series of presentations at week-long NSF-funded workshop, Carlisle PA, June 2002.
- “Teaching Introductory Statistics: Data, Concepts, Activities, Assessment,” (with B. Chance), invited day-long workshop conducted at Whitman College, Washington, May 2002.

- “Beyond AP Statistics,” (with R. Peck), minicourse conducted at National Council of Teachers of Mathematics Annual Meeting, Las Vegas, April 2002.
- “Teaching Introductory Statistics with Data, Discovery, and Technology,” one-day workshop presented for Key Curriculum Press, Emeryville CA, March 2002.
- “Teaching Introductory Statistics with Data, Discovery, and Technology,” presentation for Key College Publishing Strategies in Mathematics Education Workshop Series, University of Central Florida, March 2002.
- “Concepts in *Workshop Statistics*,” one-day workshop presented for Key College Publishing at CSU- Long Beach, February 2002.
- “*Workshop Statistics: Implementing Active Learning*,” half-day workshop presented for Key College Publishing at Georgia Perimeter College, Atlanta, February 2002.
- “Preparing to Teach Statistics: Data, Activities, Technology,” invited presentation at AMATYC Teacher Preparation workshop, Atlanta, February 2002.
- “Teaching Contemporary Statistics with Active Learning,” (with B. Chance), short course conducted for American Statistical Association in San Diego, January 2002.
- “Teaching a Workshop Introductory Statistics Course,” (with B. Chance), workshop presented for Key College Publishing at University of Minnesota, December 2001.
- “Data Analysis Activities and Projects,” (with B. Chance, R. Peck), workshop conducted for California Mathematics Council, Palm Springs, November 2001.
- “Teaching Statistical Inference: Activities and Assessment,” (with B. Chance), workshop conducted for California Mathematics Council, Palm Springs, November 2001.
- “Teaching Introductory Statistics: Active Learning, Data, and Concepts,” (with B. Chance), invited workshop for Project NExT fellows, Madison, August 2001.
- “Activities for Teaching Sampling Distributions and Statistical Inference,” (with B. Chance), series of presentations as part of workshop conducted at Cal Poly, July 2001.
- “Teaching Precalculus Using a New Pedagogical Approach with New Uses of Technology,” (with N. Baxter Hastings, K. Callahan, C. Fratto), series of presentations at week-long NSF-funded workshop, Carlisle PA, June 2001.
- “Beyond AP Statistics,” (with T. Short, P. Lupinacci, R. Reshetar), workshop conducted for American Statistical Association, Villanova University., June 2001.
- “*Workshop Statistics: Implementing Active Learning*,” (with B. Chance), workshop presented at Santa Barbara City College, May 2001.
- “Teaching Introductory Statistics: Activities, Technology, Assessment,” (with J. Garfield), workshop conducted at Eastern Kentucky University, May 2001.
- “Beyond AP Statistics: Applications of Bayes’ Theorem,” workshop presented at PCTM Annual Meeting, Pittsburgh, March 2001.
- “Inference for Association and Using Simulation to Teach and Do Statistics,” invited series of presentations for the AP Math Specialty Conference, Philadelphia, February 2001.
- “Teaching Contemporary Statistics with Active Learning,” (with B. Chance, R. Lock, and M. Parker), minicourse conducted for MAA/AMS Joint Mathematics Meetings, New Orleans, January 2001.

- “Teaching Contemporary Statistics with Active Learning,” (with B. Chance), short course conducted for American Statistical Association in New Orleans, January 2001.
- “Beyond AP Statistics,” (with B. Chance, R. Peck, H. Smith), workshop conducted for American Statistical Association, California Polytechnic State University, October 2000.
- “Teaching Introductory Statistics: Active Learning, Data, and Concepts,” (with B. Chance), invited workshop for Project NExT fellows, UCLA, August 2000.
- “Teaching AP Statistics,” (with J. Bohan), invited week-long workshop, Villanova University, June 2000.
- “Teaching Statistics: Data, Concepts, Activities,” invited week-long workshop for Allegheny Mountain section of MAA, June 2000.
- “Statistics Education Reform: Overview, Motivation, Assessment,” (with B. Chance), invited workshop at U.S. Air Force Academy, May 2000.
- “Beyond AP Statistics: Statistical Significance, Randomization, and Power,” workshop presented at PCTM Annual Meeting, Harrisburg, March 2000.
- “Student Activities for Studying Data Production and for Exploring Randomness,” invited series of presentations for the AP Math Specialty Conference, Philadelphia, February 2000.
- “Teaching Introductory Statistics: Active Learning, Data, and Concepts,” invited workshop at Georgia Perimeter College Annual Mathematics Conference, February 2000.
- “Activities for Investigating Probability and Statistical Inference,” invited series of presentations for the Kansas Data Analysis and Statistics Workshop, February 2000.
- “Teaching Contemporary Statistics with Active Learning,” (with B. Chance, R. Lock, and M. Parker), minicourse conducted for MAA/AMS Joint Mathematics Meetings, Washington, January 2000.
- “Teaching Contemporary Statistics with Active Learning,” (with B. Chance), short course conducted for American Statistical Association in Washington, January 2000.
- “Statistical Thinking with Active Teaching Strategies,” (with T. Short), workshop conducted at the U.S. Air Force Academy, November 1999.
- “AP Statistics,” (with B. Chance), workshop conducted for College Board AP Institute, Honolulu, August 1999.
- “The Reasoning of Statistical Inference: Activities, Applications, and Abuses,” invited series of presentations at NSF-funded STATS (Statistical Thinking with Active Teaching Strategies) workshop, Michigan, June 1999.
- “Teaching Contemporary Statistics with Active Learning,” (with B. Chance), short course conducted for American Statistical Association in Boston, June 1999.
- “AP Statistics: Experiences ‘Beyond the Basics’” (with F. Djang, C. Olson), workshop conducted at National Council of Teachers of Mathematics Annual Meeting, San Francisco, April 1999.
- “Student Activities for Analyzing Data and Drawing Inferences,” invited series of presentations for the AP Math Specialty Conference, Philadelphia, January 1999.
- “Teaching Contemporary Statistics with Active Learning,” (with B. Chance), short course conducted for American Statistical Association in San Antonio, January 1999.

- “Statistical Thinking with Active Teaching Strategies,” (with B. Chance), workshop conducted at California Polytechnic State University, July 1998.
- “The Reasoning of Statistical Inference: Activities, Applications, and Abuses,” invited series of presentations at NSF-funded STATS (Statistical Thinking with Active Teaching Strategies) workshop, Virginia, June 1998.
- “Experiencing AP Statistics” (with A. Coons, C. Lincoln, P. Myers, J. Bohan, C. Olson), workshop conducted at National Council of Teachers of Mathematics Annual Meeting, Washington, April 1998.
- “Teaching Contemporary Statistics with Active Learning,” (with B. Chance), invited workshop conducted at the University of South Alabama, March 1998.
- “Teaching Contemporary Statistics with Active Learning,” (with B. Chance), short course conducted for American Statistical Association in Baltimore, January 1998.
- “Statistical Thinking with Active Teaching Strategies,” (with T. Short), workshop conducted at Estrella Mountain Community College (AZ), October 1997.
- “Hands-On Statistics with the TI-83 Graphing Calculator,” (with T. Short), minicourse conducted at ASA/IMS Joint Statistical Meetings, Anaheim, August 1997.
- “The Reasoning of Statistical Inference: Activities, Applications, and Abuses,” invited series of presentations at NSF-funded STATS (Statistical Thinking with Active Teaching Strategies) workshop, Minnesota, June 1997.
- “Statistical Thinking with Active Teaching Strategies,” (with T. Moore), workshop conducted at at Cornell College (IA), May 1997.
- “Workshop Statistics: Discovery with Data,” invited workshop conducted at Illinois State University, March 1997.
- “Statistical Thinking with Active Teaching Strategies,” (with J. Dietz), workshop conducted at Gainesville College (GA), March 1997.
- “Discovering Statistics with the TI-83 Graphing Calculator,” (with B. von Oehsen), minicourse conducted at International Conference on Technology in Collegiate Mathematics, Reno, November 1996.
- “Quantitative Reasoning: An Interactive ‘Workshop’ Approach” (with K. Somers), minicourse conducted at International Conference on Technology in Collegiate Mathematics, Reno, November 1996.
- “Statistical Thinking with Active Teaching Strategies,” (with R. Lock), workshop conducted at Monroe Community College (NY), November 1996.
- “Minicourse on ‘Workshop Mathematics’,” (with N. Baxter), minicourse conducted at MAA/AMS Joint Mathematics Meetings, Orlando, January 1996.
- “Workshop Statistics: Discovery with Data,” minicourse conducted at Annual Conference of California Mathematics Council of Community Colleges, Monterey, California, December 1995.
- “The Reasoning of Statistical Inference: Activities, Applications, and Abuses,” invited series of presentations at NSF-funded STATS (Statistical Thinking and Teaching Statistics) workshop, Delaware, June 1995.
- “Discovering Statistics with the TI-82 Calculator,” (with B. von Oehsen), minicourse conducted at International Conference on Technology in Collegiate Mathematics, Orlando, November 1994.

- “Workshop Mathematics: Interactive Teaching for Courses in Quantitative Reasoning, Statistics, and Calculus with Review,” (with K. Callahan), invited minicourse conducted at University of New Hampshire, June 1994.
- “Minicourse on ‘Workshop Mathematics’,” (with N. Baxter), minicourse conducted at MAA/AMS Joint Mathematics Meetings, Cincinnati, January 1994.
- “Minicourse on ‘Workshop Statistics’,” minicourse conducted at International Conference on Technology in Collegiate Mathematics, New Jersey, November 1993.

Local Colloquia

- “Undergraduate Statistics: Issues, Trends, Challenges,” invited presentation for Southern California Chapter of American Statistical Association, Los Angeles, November 2010.
- “AP Statistics: Past, Present, Future (and How You Can Help),” invited presentation for Southern California Chapter of American Statistical Association, Los Angeles, November 2010.
- “Choosing the Best: A Decision-Making Problem,” presentation for Harker School (San Jose CA), May 2010.
- “Choosing the Best: A Decision-Making Problem,” presentation for Atascadero High School, May 2008.
- “Seven Challenges for the Undergraduate Statistics Curriculum in 2007,” University of Texas – El Paso, November 2007.
- “Seven Challenges for the Undergraduate Statistics Curriculum in 2007,” New Mexico State University, November 2007.
- “Choosing the Best: A Decision-Making Problem,” St. Lawrence University, April 2007.
- “Choosing the Best: A Decision-Making Problem,” Mount Holyoke College, April 2007.
- “Concepts of Statistical Inference: A Randomization-Based Curriculum,” Kansas State University, April 2007.
- “Introducing (Mathematically Inclined) Students to Statistics,” invited presentation for the Kansas Chapter of the American Statistical Association, April 2007.
- “Choosing the Best: A Decision-Making Problem,” Hollins University, February 2007.
- “A Data-Oriented, Active Learning, Post-Calculus Introduction to Statistical Concepts, Methods, and Theory,” presentation for the Carnegie Mellon University Statistics Department, November 2003.
- “Choosing the Best: A Decision-Making Problem,” presentation for Lynbrook High School, San Jose, November 2001.
- “There’s No Theorem Like Bayes’ Theorem,” Cal Poly- San Luis Obispo, February 2001.
- “Current Trends in Teaching Introductory Statistics,” invited presentation for the Pittsburgh Chapter of the American Statistical Association, November 2000.
- “Teaching Future Teachers of Statistics,” invited presentation for College Board Advanced Placement Statistics Reading, Lincoln, Nebraska, June 2000.

- “Choosing the Best: A Decision-Making Problem,” invited presentation for Rutgers University Discrete Mathematics Research and Education Initiative, May 2000.
- “Statistical Illuminations: The Importance of Data Analysis,” Central Pennsylvania Mathematics Association, April 2000.
- “Workshop Statistics: Active Learning, Data, and Concepts,” University of Tennessee at Chattanooga, March 2000.
- “Choosing the Best: A Problem of Decision Making under Uncertainty,” Emory and Henry College, March 2000.
- “Statistical Illuminations: Analyzing Data to Benefit Society,” Emory & Henry College, March 2000.
- “Teaching Future Teachers of Statistics,” invited presentation for the Harrisburg Chapter of the American Statistical Association, March 2000.
- “A Data-Oriented, Active Learning, Post-Calculus Introduction to Statistical Concepts, Methods, and Theory,” (with B. Chance), University of California at Los Angeles, February 2000.
- “A Data-Oriented, Active Learning, Post-Calculus Introduction to Statistical Concepts, Methods, and Theory,” Cal Poly- San Luis Obispo, February 2000.
- “Choosing the Best: Decision Making Under Uncertainty,” Choate Rosemary Hall, CT, November 1999.
- “Statistics of Illumination,” SEQuaL Workshop, Villanova University, March 1998.
- “An Introduction to Bayesian Statistics,” University of the Pacific, October 1997.
- “Statistics of Illumination,” University of the Pacific, October 1997.
- “Workshop Statistics: Discovery with Data,” monthly meeting of the Harrisburg chapter of the American Statistical Association, December 1995.
- “The Numbers Racket: Quantitative Reasoning for the Liberal Arts,” (with J. Hoefler), Dickinson College Alumni Weekend, June 1995.
- “Applications of Bayes’ Theorem,” Penn State Wilkes-Barre Campus, March 1995.
- “Applications of Bayes’ Theorem,” Bucknell University, October 1994.
- “Choosing the Best,” SEQuaL Workshop, Indiana University of Pennsylvania, July 1994.
- “Bayesian Applications of the Bradley-Terry Model,” Sigma Xi Scientific Research Poster Session, Villanova University, April 1994.
- “Choosing the Best: An Optimal Selection Problem,” Dickinson College, March 1994.
- “Bayesian Applications of the Bradley-Terry Model,” Villanova University, November 1993.
- “Applications of Bayes’ Theorem,” Bloomsburg University, October 1993.
- “Applications of Bayes’ Theorem,” Shippensburg University, September 1993.
- “Applications of Bayes’ Theorem,” Franklin & Marshall College, April 1993.
- “Applications of Bayes’ Theorem,” Lycoming College, March 1993.
- “Some Applications of Bayes’ Theorem,” Bucknell University, April 1992.
- “Do You Want to Deal?” Elizabethtown College, March 1992.
- “Statistics and the Law,” Elizabethtown College, March 1992.
- “Do You Want to Deal?” Villanova University, November 1991.

- “An Interactive Computer-Based Approach to Teaching Statistics,” Central Pennsylvania Consortium New Faculty Teaching Workshop, May 1991.
- “Some Applications of Bayes’ Theorem,” Ursinus College, April 1991.
- “Statistics and the Law,” monthly meeting of the Harrisburg chapter of the American Statistical Association, March 1991.
- “Statistics and the Law,” King’s College, March 1991.
- “Some Applications of Bayes’ Theorem,” Gettysburg College, March 1990.

SELECTED PROFESSIONAL ACTIVITIES

- Program Chair, Joint Statistical Meetings, 2007
- President, International Association for Statistical Education, 2007-2009
 - President-Elect, 2005-2007
- Committee on Meetings, American Statistical Association, 2006-2008
- Vice-Chair, Council of Sections Governing Board, American Statistical Association, 2005-2007
- Co-Editor (with B. Chance), Proceedings of the Seventh International Conference on Teaching Statistics (ICOTS-7)
- Member of Committee that developed GAISE (Guidelines for Assessment and Instruction in Statistics Education), endorsed by American Statistical Association, 2004.
- Co-Editor (with B. Chance), *STATS: The Magazine for Students of Statistics*, 2002-2004.
- Co-Associate Director (with B. Chance) for Professional Development, CAUSE (Consortium for the Advancement of Undergraduate Statistics Education), 2002-2004.
- Chair, ASA Section on Statistical Education, 2001
 - Past-Chair, 2002
 - Chair-Elect, 2000
- Past-Chair, SIGMAA on Statistics Education, 2000-2001.
- Chair, ASA/MAA Joint Committee on Undergraduate Statistics, 1999-2000
- Member, MAA Committee on the Undergraduate Program in Mathematics (CUPM), 2001-2004
- Member, ASA/MAA Joint Committee on Undergraduate Statistics, 1994-2003
- Member, International Program Committee, Sixth International Conference on Teaching Statistics (ICOTS-6)
- AP Statistics Question Leader 2007-2008, Table Leader 2006, Reader 2001-2005
- External Reviewer, Gainesville College (GA), 2002
- Editorial Board, *STATS Magazine*, 1999-2001
 - Columnist, *Outlier...s*
- Executive Committee Member, Eastern Pennsylvania and Delaware (EPADEL) Section of the Mathematical Association of America, 1999-2001
- Consultant, Project NEXT (New Experiences in Teaching), 1998-2002
- External Reviewer, Hope College Department of Mathematics, 1999.
- Editorial Board, *Journal of Statistics Education*, 1995-2000
- Representative to the Council of Sections, American Statistical Association Section on Statistical Education, 1997-1999
- Volunteer, ASA Public Statistics Day, 1998-2000
- Session organizer, Fifth International Conference on Teaching Statistics, 1998.

- Program Chair, American Statistical Association Section on Statistical Education, Joint Statistical Meetings, 1996
- Chair of Contributed Paper Session on “Active Learning Strategies for Statistics and Probability,” MAA/AMS Joint Mathematics Meetings, 1996
- Regional site leader for SEQual (Statistics Education through Quantitative Literacy) Workshop, 1995-1996
- President, Harrisburg Chapter of the American Statistical Association, 1993-94
- Coordinator of the Annual Conference of the Harrisburg Chapter of the American Statistical Association, 1991-1992
- Participant in Visiting Lecturers Program of the Eastern Pennsylvania and Delaware section of the Mathematical Association of America, 1990-1995
- Assistant with MathCounts, a competition for junior high students, 1991-1993
- Judge for Capital Area Science and Engineering Fair, 1994-1996
- Judge for Carlisle Area Science Fair, 1990

SELECTED CAMPUS RESPONSIBILITIES

- **Cal Poly**
 - Statistics Department Scheduler, 2007-
 - Departmental Representative, COSAM Curriculum Committee, 2003-2008
 - Departmental Representative, COSAM Personnel Review Committee, 2008, 2010-11
 - Chair, 2010-11
 - Chair, Statistics Department’s College-Based Fee Committee, 2002-2006
 - Advisory Committee, Center for Teaching and Learning, 2001-2003
- **Dickinson College**
 - Chair, Department of Mathematics and Computer Science, 1996-1999
 - Faculty Personnel Committee, 1996-1999
 - Science Executive Committee, 1996-1999
 - Nominating Committee, Chair, 1998
 - Search Committee for Director of Institutional Research, 1998
 - Search Committee for Assistant Registrar, 1997
 - Dean’s Working Group on Curriculum, 1996-1997
 - Clarke Center Steering Committee, 1995-1997
 - Subcommittee on Writing, 1994-1996
 - All-College Committee on Admissions and Financial Aid, 1992-1993
 - Organized and led a multidisciplinary faculty summer study group designing a new course in quantitative reasoning, 1991
 - Organized and led a multidisciplinary faculty summer study group examining reform in statistics education, 1990

SELECTED WORKSHOPS, MINICOURSES ATTENDED

- AAAS/NSF Conference on “Invention and Impact,” Crystal City, VA, April 2004.
- TEAMS (Teacher Education: Assessment, Methods, and Strategies), Athens, Georgia, October 2003.
- MAA CRAFTY Disciplinary Workshop on Statistics, Grinnell, October 2000.

- ASA Symposium on “Undergraduate Statistics Education Initiative,” Indianapolis, August 2000.
- ASA Workshop on “Undergraduate Statistics Education Initiative,” Alexandria, April 2000.
- ACE Workshop on “Chairing the Academic Department,” Washington DC, June 1996
- PR/ISM (Planning Regional Isolated Statistician Meetings) Conference, Minnesota, October 1995
- NCAL Statistics Assessment Workshop, Philadelphia, September 1994
- CHANCE workshop, San Francisco, August 1993
- CPC Library/Internet workshop, Lancaster PA, June 1993
- Using ISETL to Teach Abstract Algebra, MAA Minicourse, San Francisco, January 1991
- New Liberal Arts workshop, Columbus OH, November 1990

PROFESSIONAL MEMBERSHIPS

- American Statistical Association (ASA)
 - Section on Statistical Education
 - Section on Sports Statistics
 - Section on Bayesian Statistical Science
- Mathematical Association of America (MAA)
 - Special Interest Group on Statistics Education
 - Special Interest Group on Quantitative Literacy
- International Association for Statistical Education (IASE)
- Statistics in the Liberal Arts Workshop (SLAW)