

## Robert A. Chaney

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### EDUCATION

M.A. in Mathematics from Miami University, Oxford, Ohio, 1983.

B.S. in Mathematics from Miami University, Oxford, Ohio, 1980.

Additional graduate work in Mathematics (Topology) from Ohio University, Athens, Ohio (1983-86).

### EXPERIENCE

2009– present Sinclair’s Project Director for Choose Ohio First STEMM Scholarship Program. This Dayton Collaborative (Wright State, University of Dayton, Wittenberg, Clark State, Edison, Sinclair, & Southern State) plans to offer approximately 1000 scholarships ranging from \$1,500 to \$4,700 to Ohio residents to increase enrollment in STEMM disciplines by a minimum of 10%, producing approximately 350 more graduates per year.

2009– present Participating in State of Ohio’s Board of Education work in revising the K-12 Mathematics Standards. I am a member of a working committee in Columbus that is rewriting Math Standards for Ohio’s High Schools.

2008–2009 NSF Grant (0703087) “Computational Science Program for Ohio Community and Technical Colleges”. Served under the category of “Senior Personnel” and lead in the development of the modules pertaining to mathematical modeling and the use of numerical methods in Calculus. These activities give students opportunity to see how Math, Science and Technology are integrated to solve real-world problems. Co-developed and co-taught integrated Math/Physics topics course at Sinclair in winter of 2008.

2007 – present Vice President and Trustee, Learning with Math Machines, Inc., a 501(c)(3) nonprofit organization.

1989 – present Full-Time Faculty Member in Mathematics at Sinclair Community College, Dayton, Ohio, USA. (Instructor 1989-92, Assistant Prof. 1993-1995, Associate Professor 1996-2001, Professor 2002 – present).

2002 –2005 Project Director, “Connecting Math, Science and Technology” (NSF ATE Grant DUE-0202202). This \$400,000 grant is aimed helping math and science teachers at the secondary and college levels incorporate hands-on activities that use graphing calculators in authentic, career-related learning tasks. The project includes providing four 2-week summer workshops for teachers.

1999- present Director of the Math Science Technology Center (MSTC).

1994-1997 Mathematics Cluster Captain and co-author of four Mathematics Modules for NSF/ATE program at Sinclair Community College. (grants #DUE-9454571 and #DUE-9714424).

### SELECTED PUBLICATIONS, PRESENTATIONS AND AWARDS

2009 AMATYC Teaching Excellence Award. To be given at the opening session of the 2009 AMATYC annual conference in Las Vegas on November 12, 2009.

- “Teachers Teaching with Technology Regional Conference (T3)”, April 17 & 18, 2009 at University of Cincinnati, College of Applied Science. I presented one 90 minute hands-on workshop. “Spice Up Your Statistics Course with Activities and Technology”.
- 2008 OhioMATYC Teaching Excellence Award. Ohio Mathematical Association of Two Year Colleges Bi-annual Award.
- “Teachers Teaching with Technology Regional Conference (T3)” April 27, 28, 2007, Rhoads State College, Lima, Ohio. I presented two 75-min. sessions on using technology in teaching Statistics & Tech Math.
- “Reaffirmation Committee to Southeast Kentucky Community and Technical College” I had the honor of being asked by the Southern Association of Colleges and Schools to serve as the Lead QEP Evaluator (Quality Enhancement Plan) on the Reaffirmation Committee for Southeast Kentucky Community College, Cumberland, Kentucky (October 10-12, 2006).
- “Teachers Teaching with Technology Regional Conference (T3)” April 1-2, 2005, Rhoads State College, Lima, Ohio. “How Calculators Can Make Things Happen in the Classroom”
- “CBL 2 Activities for Algebra Class,” co-presented with Fred Thomas, T3 International Conference, March 12, 2004, New Orleans.
- “Connecting Math, Science and Technology,” poster presentation with Fred Thomas, National Science Foundation’s ATE PI Meeting, Washington, DC, Oct. 24, 2003.
- “Using the CBL's Digital Output to Make Things Happen in Algebra I & II,” (with Fred Thomas and Lashonda Bass), 15th International T3 Conference, March 8, 2003, Nashville, Tennessee.
- “Using the CBL 2 to Control a Toy Car” (Co-presented with Fred Thomas), T3 Regional Conference and OhioMATYC / OCTM / MAA (Ohio Section) Winter Institute, Columbus, Feb. 15, 2002.
- "Digital Doers: The Flip Side of MBL and CBL Activities," (Co-presented with Fred Thomas, SCC Math Department, and Tim O'Donnell, Celina High School), 3-hour short course, National Science Teachers Association Midwestern Area Convention, Columbus, Nov. 9, 2001.
- "Using a Calculator-Based Robot to Help Teach Algebra," (Co-presented with Fred Thomas), Teachers Teaching with Technology (T3) International Conference, Columbus, March 17, 2001, repeated on March 18, 2001.
- "Using Mathematics in Calculator-Based Feedback and Control Systems," (Co-presented with Fred Thomas), National Council of Teachers of Mathematics Regional Conference, Pittsburgh, Oct. 13, 1999.
- "Integrating Hands-on Activities into an Introductory Statistics Course," National Council of Teachers of Mathematics Regional Conference, Pittsburgh, Oct.13, 1999.
- "Building and Using a Calculator-Based Control Circuit." (Co-presented with Fred Thomas and Diana Hunn), Half-day short course at the National Science Teachers Association National Convention, Boston, Mar.26, 1999.
- "Put Your Calculator in Control," (Co-presented with Fred Thomas, Surinder Jam, Kay Cornelius and Eric Kraus), half-day short course at the Annual Science Education Conference of the Science Education Council of Ohio, Dayton, Feb.12, 1999.
- "Math and Science Activities for Advanced Technical Education." (co-presented with Fred Thomas). National Tech Prep Network, Nashville, Oct. 3, 1997.