**Curriculum Vitae**

**Carol S. Schumacher**

Department of Mathematics

Kenyon College

**Education**

* The University of Texas at Austin**;** Ph.D. in mathematics, 1989. *Speciality*: Banach Space Theory
* Hendrix College; Conway, AR; Bachelor of Arts with honors, 1982. *Major*: Mathematics.

**Kenyon Employment History**

* Professor of Mathematics, 2002 to the present
* Associate Professor of Mathematics, 1994 - 2002.
* Assistant Professor of Mathematics, 1991-1994.
* Dana Assistant Professor of Mathematics, 1988-1991

**Awarded:** Kenyon’s *Senior Trustee Teaching Award*. Spring, 2005.

**Professional Affiliation**: Member of the Mathematical Association of America. (MAA).

**Courses Taught**

Calculus I, II, and III, Foundations, Vector Analysis, Euclidean/Non-Euclidean Geometry, Differential Equations, Real Analysis I and II, Linear Algebra II.

**Recent Scholarly Activity**

# Writing

* (With Brian Jones) *Books of Sand*, in preparation.
* (With Hannah Ross, K’10) *Metric Centers*, in preparation.
* **Instructor’s Resource Guide** for *Closer and Closer: Introducing Real Analysis*. Jones and Bartlett, 2008.
* **Solutions Manual** for *Closer and Closer: Introducing Real Analysis*. Jones and Bartlett, 2008.
* **Closer and Closer**: *Introducing Real Analysis*. Jones and Bartlett Publishers, 2007.

**Undergraduate research:**

* worked with KSS ScholarSamuel Justice on *Generalizing the Four Numbers Problem to Planar Graphs.* Summer, 2014.
* worked with KSS ScholarHannah Ross on *Metric Centers.* Summer, 2009.

**Invited Addresses, Panels and Workshops**

* Invited Speaker: *Fast Forward, Slow Motion*. MAA Kentucky Section, spring meeting. Morehead State University, Morehead, KY, March 2015.
* Randolph Lecturer: *What is the Definition of Definition? and other Mathematical Cultural Conundrums*. MAA Seaway Section, Fall Meeting, Alfred University, October, 2014.
* Invited Presenter: inquiry-based learning workshop for mentors; IBL workshop for new and experienced users. Upstate New York IBL users group. October, 2014.
* Co-Organizer and presenter: *Inquiry-Based Learning Workshop in Mathematics*; Kenyon College, Gambier, OH. June, 2014 and Portland, OR, August, 2014. (These workshops were sponsored by the Academy of Inquiry-Based Learning and the PREP program of the Mathematical Association of America. They were funded by NSF grant DUE-1225833.)
* Invited Presenter: *Workshop on Inquiry-Based Learning*. Ohio Section MAA Fall Meeting. Cleveland State University. Cleveland, OH. October, 2013.
* *Teaching Real Analysis, An Active Approach*. (75 minute workshop.) Project NExT Workshop. Mathfest. Hartford, CT. August, 2013.
* Invited Panelist: *In-class Group Work*. Project NExT 2011-2012 Fellows. Mathfest. Hartford, CT. August, 2013.
* Co-Organizer and presenter: *Inquiry-Based Learning Workshop in Mathematics*; CalPoly, San Luis Obispo, CA. June, 2013. (This workshop was sponsored by the Academy of Inquiry-Based Learning and the PREP program of the Mathematical Association of America. It was funded by NSF grant DUE-1225833.)
* Panelist: “*Birds of a Feather*” --- CUPM panel. Mathfest. Madison, WI. August, 2012.
* *Using Inquiry to Teach thinking and Mathematics*. (4-hour minicourse). Project NExT Workshop. Mathfest. Madison, WI. August, 2012.
* Invited Panelist: *Teaching Introduction to Proofs Courses*. Project NExT 2011-2012 Fellows. Mathfest. Madison, WI. August, 2012.
* *Teaching Real Analysis, An Active Approach*. (75 minute workshop.) Project NExT Workshop. Mathfest. Lexington, KY. August, 2011.
* Invited Panelist (plenary session). *Choosing a Way to Teach*. Project NExT Workshop. Mathfest. Lexington, KY. August, 2011.
* Plenary address. *Legacy*. Legacy of R.L. Moore Conference. Washington, DC. June, 2011.
* Invited Presenter: Workshop on Inquiry-Based Learning; Ann Arbor, MI. May, 2011.
* Plenary Address. *What is the Definition of Definition? and other mathematical cultural conundrums*. Project NExT Workshop. Mathfest. Pittsburgh, PA, August, 2010.
* Invited Presenter: Workshop on Teaching Proof through Inquiry-Based Learning; Austin, TX. May, 2010.
* *Teaching Real Analysis, An Active Approach*. (75 minute workshop.) Project NExT Workshop. Mathfest. Portland, OR, August, 2009.
* Plenary Speaker: 3rd Biennial Mercer University Undergraduate Research in Mathematics Conference and Georgia MAA State Luncheon; Macon, GA. February 21, 2009.

Georgia MAA State Luncheon: *Zeroing in on the Implicit Function Theorem*
MUURMC: *Fast Forward, Slow Motion: a graphical link between fast and slow time scales*

* *Real Analysis---an inquiry-based approach*. AMS-MAA special session on Inquiry-Based Learning. National Joint Mathematics Meetings, Washington, D.C., January, 2009.
* *Teaching Real Analysis, An Active Approach*. (75 minute workshop.) Project NExT Workshop. Mathfest. Madison, WI, August, 2008.
* Invited Presenter: PREP Workshop on Teaching Proof through Inquiry-Based Learning; Austin, TX. June, 2008.
* Plenary Address: *Building Bridges*. Legacy of RL Moore Conference. Austin, TX, April, 2007.
* *Teaching Students to Write Proofs*. (75 minute workshop.) Project NExT Workshop. Mathfest. San Jose, CA, August, 2007.

**NSF Grants**

National Science Foundation, TUES, $364,925; Co-PI; Collaborative Research: Supporting Pedagogical Innovation for a Generation of Transformation via Inquiry-Based Learning in Mathematics, 2013-1015.

National Science Foundation, DUE, $149,804; Co-PI; Undergraduate Curriculum Guide for the Mathematical Sciences, 2012-2015.

**Lectures and Professional Talks**

* *Books of Sand*. Hendrix College, October, 2011.
* *Books of Sand*. Slippery Rock University, April, 2011.
* *Zeroing in on the Implicit Function Theorem*. College of Wooster, October, 2007.
* *Zeroing in on the Implicit Function Theorem*. Oberlin College, March, 2007.

**Attendance at Professional Meetings**

* **Mathfest**---National MAA meeting; (August) Portland, OR; 2014. Hartford, CT; 2013. Madison, WI; 2012. Lexington, KY; 2011. Pittsburgh, PA; 2010. Portland, OR; 2009. Madison, WI; 2008. San Jose, CA; 2007.
* **National Joint Mathematics Meetings**; (January) San Antonio,TX; 2015. Baltimore, MD; 2014. Boston, MA; 2012. New Orleans, LA; 2011. San Francisco, CA; 2010. Washington, DC; 2009. San Diego, CA; 2008. New Orleans, LA; 2007.
* **Legacy of RL Moore Conference**; Denver, CO; June 2104. Austin, TX; June 2013. Austin, TX; June 2012. Washington, DC; June, 2011. Austin, TX; July 2009. Austin, TX; April, 2007.
* **Ohio Section (MAA) Meeting**s; October, 2013. March, 2010. October, 2009. April, 2009. April, 2008. October, 2007. April, 2007.
* **National Conference for Undergraduate Women in Mathematics**; University of Nebraska-Lincoln; Lincoln, NE; January, 2010.

**Collegiate Citizenship**

**Faculty Governance.**

* Co-chair; Curricular Essentials Committee, Spring, 2013.
* Tenure and Promotion Committee. Member: 2006-2007. Chair: 2007-2009.
* Member: working group on the Curricular Essential “Oral Expression.” Summer, 2012.

**Mathematics Department Service.**

* Department Chair. 2012-2014.
* Organizer: Small Colleges’ Speakers Circuit. 2014-2015.
* Organizer: Four College Competition. Ongoing.
* Organized a student trip to NCUWM; Lincoln, NE. January, 2010.
* Organized student trips to Ohio Section meetings. Spring, 2007 and Spring, 2008.
* Co-organizer for Math Mondays; 2011-present

**Professional Service**

* Steering Committee for 2015 CUPM Curriculum guide. Mathematical Association of America (MAA). January, 2011-present.
* Committee on the Undergraduate Program in Mathematics; MAA. Member, 2004-January, 2008. January, 2011-present. Chair, January, 2008-January 2011.
* Outside evaluator for Mathematics Departments at SUNY-Potsdam (Fall, 2013) ; Alma College (Spring, 2013); Whitman College (Spring, 2012); Roger Williams University (Spring, 2009); Allegheny College (Fall, 2007).
* Member Merten Hasse Prize Selection Committee (MAA), 2007. Chair, 2009.
* Member, MAA Program committees, Joint Mathematics Meetings, New Orleans, 2007 and Washington, D.C. 2009.
* Local arrangements chair; Fall Meeting of the Ohio Section of the MAA; Fall, 2009.
* Member, Search committee for Editor of *Math Horizons* Magazine. 2007.
* Legacy of R.L. Moore Advisory Committee, 2008-present.
* Consultant for Project NExT. 1998-present.
* Editorial board: Journal of Inquiry-based Learning in Mathematics, 2003-present.
* Reviewer for *College Mathematics Journal* and *Primus*.