William R. Stout

EDUCATION

PhD, Applied Mathematics, University of Virginia**,** 1979
MBA, General Management/Finance, George Washington University, 1986
MS, Mathematics, Colorado State University, 1973
BA, Mathematics, College of the Holy Cross, 1971

ACADEMIC EXPERIENCE

Professor (September 2002 – present), Associate Professor (September 1993 - September 2002), Assistant Professor (September 1988 - September 1993), Department of Mathematical Sciences, Salve Regina University, Newport, R.I.

Courses Taught: *Applied Linear Algebra, Complex Variables, Applied Differential Equations I, II Real Analysis I and II, Principle and Techniques of Applied Mathematics I and II, Probability and Statistics I and II, Differential Equations, Linear Algebra, Calculus and Analytic Geometry I - IV, Calculus I - III, Applied Calculus I and II, Precalculus, Concepts in Mathematics, Contemporary Mathematics and Its Applications, Algebra & Trigonometry I and II, Quantitative Methods for Business, Statistical Methods*

Used Camtasia Studio to record calculus lectures that were posted in myWebCourses.

Introduced problem assignments in calculus courses that gradually released greater responsibility for solution approach to each student.

Introduced the use of WebAssign into first and second year courses.

Chair of Department of Mathematical Sciences, 1996 - 2002, and 2011 – present.

Assistant Professor, Department of Mathematics, Marymount University, September 1987 - June 1988

Courses Taught: *Statistics, Business Mathematics, College Algebra*

PROFESSIONAL ACTIVITIES

Presentations

- At the *Integrating Science and Mathematics Education Research into Teaching Conference* at the University of Maine in Orono, Maine, from **25 – 27 June 2006**: poster presentation, with Dr. Sandor Kadar, entitled *When activity based instruction, math concepts, and educational technology meet: The GIBIS (*Guided Inquiry Based Integrated Science *) project.*

- MAA Northeastern Section Spring Meeting, Norwich University, Northfield, VT, **Jun 8-9, 2001**; presented paper *Activity-based Interdisciplinary Learning of College Mathematics.*

- *MAA Northeastern Section Fall Meeting*, (Chair, Program Committee) Bradford College, Haverhill, MA, **Nov 19-20, 1999.**

- NCTM Eastern Regional Conference, Presented workshop, with Elaine Daniels, on *Integrating Mathematics and Science* into a school's existing grades K through 6 curriculum, Hartford, CT, **October 15-17, 1998**.

Grants

- Completed (along with Drs. Jameson Chace, Martha Rose and Sandor Kadar) a Planning Grant from RIBGHE in **fall 2010**. As a result, we were awarded a three year grant for a Pilot Initiative for a Sustainable STEM Program. Completed (along with Drs. Jameson Chace and Martha Rose) the first and seconds years of this grant in **fall 2011 and spring 2012**. Teacher participants from Cranston, Newport, and Woonsocket demonstrated facility with new Pasco educational technology for use in the classroom/laboratory; demonstrated understanding of gauged guided inquiry pedagogy through the development of instructional materials; mastered new science content, integrated with the associated mathematics, useful for teaching to the Rhode Island Grade Span Expectations (GSE's); applied Universal Design for Learning guidelines when developing gauged guided inquiry lessons; completed and evaluated gauged guided inquiry lessons developed by their peers; and implemented new gauged guided inquiry lessons in their classrooms. With the departure of Sandor Kadar, Drs. Stout and Rose determined that it was possible to continue with the final year of the grant.

- Awarded Davis grant (**summer 2010**) to shift classroom emphasis in MTH 201, Calculus I, away from building computational skills and toward the investigation of problems that gradually increase student responsibility for generating the solutions by recording lectures to open class time for student problem solving experiences.

- Awarded (along with Dr. Sandor Kadar) Partnership Grant (**Jan 2007 - December 2009**), to work with the Charles E. Shea and the William E. Tolman High Schools, Pawtucket, RI, Central Falls High School, Central Falls, RI, Woonsocket High School, Woonsocket, RI, and Rogers High School, Newport, RI, to conduct a comprehensive curriculum development project for mathematics and science teachers of grades 9-12 during the years 2007-2009. The project is a natural extension and a sustained continuation of the Guided Inquiry Based Integrated Science (GIBIS) initiatives funded under the Rhode Island Higher Education Partnership Grant in the years of 2004-2006. The proposed project engages the participating teachers in a comprehensive, guided inquiry based science curriculum development aligned with the efforts of designing Proficiency Based Graduation Requirements and with the newly released RI K-12 Grade Span Expectations in Science.

- Awarded (along with Dr. Sandor Kadar) Partnership Grant (**Jan 2006 - December 2006**), to conduct *Guided-Inquiry Based Integrated Science (GIBIS)* workshops for grades 9-12 mathematics and science teachers. The GIBIS workshops were designed to help teachers, particularly those from Central Falls High School, Central Falls, RI, meet the Rhode Island science and mathematics standards and frameworks.

- Awarded (along with Dr. Sandor Kadar) Partnership Grant (**Jan 2005 - December 2005**), to conduct *Guided-Inquiry Based Integrated Science (GIBIS)* workshops for grades 9-12 mathematics and science teachers. The GIBIS workshops were designed to help teachers, particularly those from Woonsocket High School, Woonsocket, RI, meet the Rhode Island science and mathematics standards and frameworks.

- Awarded (along with Dr. Sandor Kadar) Partnership Grant (**Dec 2003 - December 2004**), to conduct *Student-oriented Interdisciplinary Mathematics and Science (SIMS)* workshops for grades 9-12 mathematics and science teachers. The SIMS workshops were designed to help teachers, particularly those from Rogers High School, Newport, RI, meet the Rhode Island science and mathematics standards and frameworks.

- Awarded (along with Dr. Sandor Kadar) Eisenhower Grant (**Oct 2000 - November 2001**), to conduct workshops for grades 7-12 teachers on implementing student-oriented mathematics learning strategies using calculator- and microcomputer-based laboratories.

- Awarded (along with Dr. Joseph Toto) Eisenhower Grant (**Oct 1999 - December 2000**), to conduct workshops for grades 7-12 teachers on implementing student-oriented science learning strategies using calculator- and microcomputer-based laboratories.

- Awarded Eisenhower Grant (**June 1995 - December 1995**), to build local leadership in mathematical applications and problem solving through the grades 5-8 science curriculum.
- Awarded Eisenhower Grant (**July 1994 - June 1995**) to develop local expertise and leadership to improve mathematics education in grades 4-8.

- Joint recipient of an NSF/DUE Grant (9353938), **1994 - 1995**, to conduct summer workshops on use of technology to teach the first two years of college mathematics.

Courses and Workshops

- *MAA Northeastern Section Summer Short Course:* ***Interdisciplinary Lively Applications Projects,*** Western New England College, June 17-20, 2001

- *Mathematics Workshop:* ***What Works – Alternatives to Lecture-Based Learning in Math and Science***, Wheaton College, June 4, 1998

- *MAA Northeastern Section Minicourse:* ***Epidemiology Modeling,*** Regis College, May 2, 1998