

Date of Birth

March 16, 1941

Education

Ph.D. 1968, University of Utah

H.B.S. 1965 University of Utah

Appointments

University of Utah , Teaching Assistant	1965, 1967 - 68
University of Utah , Graduate Research Fellow	1965 - 1968
University of Missouri at Columbia , Asst. Prof., Assoc. Prof., Professor	1968 - present
United States Military Academy , Visiting Professor	Spring 1984
Presearch, Inc. , Senior Scientist	Summer 1985
MT Systems , Senior Scientist	Summer 1997

Consulting

Certified Manufacturing Co. , Salt Lake City, Utah	1968
McCaw Communications Companies , Austin, Texas	1989
Paradigm Shift, Inc. , Potsdam, New York	1995

Referred Publications

1. "One-to-one Mappings Into the Plane", *Fundamenta Mathematicae* **67** (1970), pp. 209-218.
2. "Mappings Onto the Plane", *Trans. Amer. Math. Soc.* **157** (1971), pp. 297-309.
3. "Mappings Onto 2-dimensional Spaces", *Bull. Amer. Math. Soc.* **78** (1972), pp. 53-54.
4. "One-to-one Mappings", *Proc. Amer. Math. Soc.* **31** (1972), pp. 276-278.
5. "One-to-one Mappings onto Locally Connected Generalized Continua", *Pacific J. Math* **50** (1974), pp. 573-582.
6. "A Minimal Regular Space That Is Not Strongly Minimal Regular", *Canad. J. Math.* **28** (1976), pp. 875-878.

7. "Noncompact Minimal Regular Spaces" (with Manuel P. Berriozabal and Hon-Fei Lai), *Pacific J. Math.* **69** (1977), pp. 19-23.
8. "Inverse Limits and Mappings of Minimal Topological Spaces" (with Louis M. Friedler), *Pacific J. Math.* **71** (1977), pp. 429-448.
9. "Products of Regular-closed Spaces", *Topology and Its Applications* **14** (1982), pp. 189-199.
10. "Hyperspaces of R-closed Spaces" (with Louis M. Friedler), *Math. Chron.* **12** (1983), pp. 105-107.
11. "Segments in Strongly Convex Metric Spaces" (with Stephen E. Rodabaugh), *Math. Chron.* **12** (1983), pp. 135-138.
12. "Locally P-closed Spaces and Rim P-closed Spaces", *Proc. Amer. Math. Soc.* **87** (1983), pp. 543-548.
13. "Continuous Functions and Minimal Regularity", *Rocky Mountain J. Math* **14** (1984), pp. 585-597.
14. "A Survey of R-, U-, and CH-closed Spaces" (with Louis M. Friedler, Mike Girou, and Jack R. Porter), *Topology Proceedings* **17** (1992), pp. 71-96.
15. "Option Market Implied Consensus Views" (with Mike Girou and Scott McIlwain), *The Reviews of Futures Markets* **13** (1994), pp. 943-978.
16. "Gutzwiller Variational Method for Intersite Coulomb Interactions: The Spinless Fermion Model in One Dimension" (with M. Sherafati and S. Satpathy), *Physical Review B* **88** 035114 (2013), pp. 1-7.

Technical Reports

1. "Analysis of the Value of Fire Distribution on the Effectiveness of n Defending Weapons Against k Intruding Targets", filed with the Directorate of Combat Development, U. S. Army Defense School, Ft. Bliss, Texas, 1984.
2. "Sizing Short-range Air Defense Command and Control Sensor and Communications Requirements", filed with the Directorate of Combat Development, U. S. Army Defense School, Ft. Bliss, Texas, 1984.
3. "Analysis of the Relationship Between Type and Number of Cellular Switches and Queue Formation", filed with McCaw Communications, Austin, Texas, 1989.
4. "Quick Calculation of Distances Between Points and Angles Between Geodesics in the Planning of Rail and Air Routes", filed with Paradigm Shift, Inc., Potsdam, New York, 1995.

Invited Talks

1. "Products of Minimal Regular Spaces", United States Military Academy, West Point, New York, March 26, 1981.
2. "Applications of Graph Theory", United States Military Academy, West Point, New York, March 26, 1981.
3. "A Tribute to C, E, Burgess", 8th Annual Legacy of R. L. Moore Conference, Austin, Texas, April 2005.
4. "Four Fundamental Mathematics Textbooks for Prospective Middle Grade Mathematics Teachers", IME Workshop on Mathematics Courses for Teacher Education, Tucson, Arizona, March 3, 2007.
5. "Option Market Implied Consensus Views" (with Mike Girou and Scott McIlwain; presentation by Mike Girou), Chicago Board of Trade, May 1994.
6. "Life Science Modules for Mathematics Courses," Annual Meeting of Missouri Council of Teachers of Mathematics, December 3, 2010.
7. "Inquiry Learning in Mathematics" panel discussion (along with Zdenka Guadarrama, , Richard Delaware, and Robert Roe), Missouri Section NEXt Meeting, April 13, 2012, St. Louis, Missouri.
8. "Teaching Chemistry in the Context of a Cross-Disciplinary Research Seminar" (with Rainer E. Glaser, Jennifer Hart, Eric Ludwig, Jennifer Fellabaum, George Smith, Francis Schmidt, and Carmen Chicone; presentation by Rainer E. Glaser), Northwest University, Xi'an, Shaanxi, China, July 24, 2013.

Contributed Talks

1. Workshop on Inquiry-based Learning (with Liza Cummings), Annual Meeting of Missouri Council of Teachers of Mathematics, November 30, 2012.
2. "Teaching Chemistry in the Context of a Cross-Disciplinary Research Seminar" (with Rainer E. Glaser, Jennifer Hart, Eric Ludwig, Jennifer Fellabaum, George Smith, Francis Schmidt, and Carmen Chicone; presentation by Rainer E. Glaser), 5th Eurovariety in Chemistry Education Conference, University of Limerick, Ireland, July 5, 2013.

Affiliations/Memberships

Society for Industrial and Applied Mathematics

Mathematical Association of America

Missouri Mathematics Association for the Advancement of Teacher Training (MAT)²

Service

MAA Visiting Lecturer, Missouri High Schools Program, 1979 - 1980, 1984 - 1987.

Institutional Liaison, Mathematical Association of America, 1985 - present.

Coach, University of Missouri Mathematical Modeling Team, 1988.

Student Chapter Coordinator, Missouri Section of MAA, 1992 - 1994.

Member of Campus Writing Board, 1992 - 1996 (Chair of Natural and Applied Sciences Committee, 1994 - 1995; Chair of Campus Writing Board, 1995 - 1995).

Vice President, Alpha of Missouri Chapter, Phi Beta Kappa, 1998 - 1999.

President, Alpha of Missouri Chapter, Phi Beta Kappa, 1999 - 2000.

Co-coach of Mizzou undergraduate mathematics team that participated in the Missouri Collegiate Mathematics Competition, 2001, 2006, 2012, 2013.

Chairman, Missouri Section MAA, April 2005 - April 2006. In this capacity, I was responsible for organizing the 2006 Annual Meeting of the Missouri Section (held in Columbia, March 31 - April 1). Approximately seventy faculty members, fifteen graduate students, and one hundred undergraduate students from colleges and universities in Missouri participated.

Member, Executive Committee, Missouri Section MAA, 1992 - 1994 and 2005 - 2007.

Director of the Mizzou Mathematics in the Life Sciences Program, 2009 - present. (A significant amount of my time was spent identifying high school seniors who would benefit from participation in this program.)

Research Experience

- Etiam cursus suscipit enim. Nulla facilisi. [Insert Dates]
- [Insert Dates]
- Donec dapibus enim sollicitudin nulla. Curabitur sed neque. [Insert Dates]
Pellentesque placerat consequat pede.

Teaching-related Activities

Designed and taught special summer courses in discrete mathematics for graduate students in mathematics education, 1998, 1999, and 2004.

Missouri Mathematics Leadership Planning Committee, 2004 - 2006.

Attended DESE Interface Meetings (for secondary math and science teachers in Missouri), 2010 and 2011.

Attended EAF Conferences on Inquiry-based Learning, 2005, 2007, 2008, 2009, 2010 (all in Austin, Texas) 2011 (Washington, DC), 2012, and 2013 (Austin, Texas).

Participating in Missouri Educator Gateway Assessments Secondary Education Framework Review, 2013 - present.

I have served on comprehensive examination committees, planning committees, and dissertation committees for five Ph. D. candidates in Mathematics Education during the past four years.

For much of my forty-six years at the University I have taught classes in which a high percentage of the students were Mathematics Education majors. Since 2001, I have taught *Connecting Geometry to Middle and Secondary Schools* 13 times, *Connecting Algebra to Middle and Secondary Schools* 3 times, *Calculus Connections* once, and *Higher Algebra* once. These courses are taken only by Math. Ed. majors. During this same period, I have also taught *Introduction to Topology* 11 times (numerous other times prior to 2001) and *Non-Euclidean Geometry* 8 times. Approximately half the students who take these courses are Math. Ed. majors.

- [Insert Dates]
- Etiam cursus suscipit enim. Nulla facilisi. [Insert Dates]
- Integer eleifend diam eu diam. Nam hendrerit. Nunc id nisi. [Insert Dates]
- Donec dapibus enim sollicitudin nulla. Curabitur sed neque. [Insert Dates]
Pellentesque placerat consequat pede.

Professional Development

MAA Workshop on Teaching Combinatorics and Graph Theory, University of Maine at Orono, June 1981.

MAA Workshop on Teaching Mathematical Modeling, University of Maine at Orono, June 1982.

Summer School on Combinatorial Optimization, NIHE, Dublin, Ireland, July 4 - July 15, 1983.

MAA Workshop on Teaching Combinatorial Optimization, University of Maine at Orono, June 1984.

- Integer eleifend diam eu diam. Nam hendrerit. Nunc id nisi. [Insert Dates]
- Donec dapibus enim sollicitudin nulla. Curabitur sed neque. [Insert Dates]
Pellentesque placerat consequat pede.
- Pellentesque condimentum est et elit. Cras adipiscing scelerisque sem. Sed facilisis. Nullam ac mauris.
Donec a neque. Nulla facilisi. Cras et justo.
- Etiam egestas, urna egestas commodo pellentesque, nisl urna ullamcorper enim, vitae tristique dolor
purus sed lectus.
- Mauris commodo feugiat lacus. Integer facilisis justo eu turpis. Suspendisse a lorem quis arcu facilisis
interdum.
- Cras ornare ipsum nec augue. Proin pharetra. Nunc gravida eros eget felis.

Ph. D. Students

Stephen E. Rodabaugh, 1974

Dissertation Title: *Upper Semicontinuous Decompositions of Convex Metric Spaces.*

Dr. Rodabaugh has more than seventy refereed publications and has served as an editor for the journal *Fuzzy Sets and Systems* (North-Holland).

Mike Girou, 1989

Dissertation Title: *Locally H-closed Spaces*

Dr. Girou has 16 refereed publications and 3 books.

Awards

Commander's Award for Public Service, United States Military Academy, May 31, 1984.

Finalist for Professor of the Year Award given by Mizzou Intercollegiate Student Athletes.

Selected as Honorary Coach for Mizzou Softball team, for playing an important role in the development of a student-athlete

Recognized at the 2013 Honors Convocation as one who has made an important contribution to the education of outstanding undergraduates.

Journal Referee

*Pacific J. Math; Proceedings Amer. Math. Soc.; J. Australian Math. Soc.; Canadian Math. Bull.;
Communications of the ACM; Missouri J. Math.*

Grant Reviewer

UM Research Board Reviewer, University of Missouri System, March 2003

UM Research Board Reviewer, University of Missouri System, October 2004

UM Research Board Reviewer, University of Missouri System, April 2007

Pre-publication Reviewer of Textbooks

Brooks/Cole Publishing Co.; Prindle, Weber, and Schmidt Publishing Co.; Wadsworth Publishing Co.; West Publishing Co.

Biographical Listings

American Men and Women of Science, R. R. Bowker Company

Who's Who in the Midwest, Marquis Who's Who, Inc.

Experience

- Pellentesque condimentum est et elit. Cras adipiscing scelerisque sem. Sed facilisis. Nullam ac mauris. Donec a neque. Nulla facilisi. Cras et justo.
- Etiam egestas, urna egestas commodo pellentesque, nisl urna ullamcorper enim, vitae tristique dolor purus sed lectus.
- Mauris commodo feugiat lacus. Integer facilisis justo eu turpis. Suspendisse a lorem quis arcu facilisis interdum.
- Cras ornare ipsum nec augue. Proin pharetra. Nunc gravida eros eget felis.