

Mark R. Hafen, Ph.D.
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Current Position

2003-present Instructor: Department of Geography, University of South Florida, Tampa. Instructor, Geography undergraduate program director and advisor, Gamma Theta Upsilon faculty advisor. Affiliate faculty, Environmental Science & Policy Program. Courses taught:

- World Regional Geography
- Human Geography
- Geography Senior Colloquium
- <http://www.cas.usf.edu/geography/index.html>
- Wetland Environments
- Coastal and Marine Geography
- Graduate Seminar in Cultural Ecology

Education

- 2001 Ph.D. University of South Florida, College of Marine Science. Emphases in marine sedimentary geology, coastal transport processes, and acoustic remote sensing/mapping.
<http://www.marine.usf.edu>
- 1992 M.A. University of South Florida, Tampa, Department of Geography. Emphases in human impact on the environment and geographic information systems (GIS).
- 1980 B.S. with High Distinction, Pennsylvania State University, University Park, Department of Business Logistics. Major emphasis in transportation planning, minor emphasis in urban geography.

Other Professional Experience

- 2001-2003 **Visiting Instructor:** Departments of Environmental Science & Policy (ESP) and Geography, University of South Florida, Tampa. Instructor for courses in geography and environmental science, ESP undergraduate advisor, internship supervisor.
- 1993-1995 **Instructor:** Earth Science and Oceanography, Natural Sciences Dept., St. Petersburg College, St. Petersburg, Florida.
- 2002-2003
- 2001 **Research Associate:** College of Marine Science, University of South Florida, St. Petersburg, FL. Post-doctoral researcher for integrative sediment dynamics investigation on West Florida Shelf, funded by Office of Naval Research.
- 2000 **Instructor (adjunct):** Oceanography, Dept. of Geology, Univ. of South Florida, Tampa.
- 1999-2000 **Research Assistant:** Tampa Street Sweeping Protocol Project, Dept. of Geography, Univ. of South Florida, Tampa. Collection and processing of street sweeping debris and storm water runoff for analysis of contaminant input to Tampa Bay.
- 1994-2000 **Research Assistant:** Dept. of Marine Science, University of South Florida. Collection and processing of sedimentary, physical, and geophysical data for test bed development project, funded by the Office of Naval Research.

- 1995, 1998, 2000 **Lab/Field Instructor:** Oceanography Camp for Girls, USF Dept. of Marine Science. Instructor in geological and physical oceanography classes (field and laboratory).
- 1998 **Contract Consultant:** for Blue Water Recoveries (United Kingdom). Data collection and analysis for proposed Atlantic coast salvage operation.
- 1991-1994 **Planning Technician:** Moore/Bowers Group, Inc., Tampa, Florida. Data collection, analysis, map/graphics prod. for land use plan/permit and landscape arch. projects.
- 1992 **Instructor (adjunct):** Cartography, Dept. of Geography, USF St. Petersburg.
- 1991 **Instructor:** Understanding Florida's Wetlands , Life Long Learning Div., USF Tampa.
- 1989-1991 **Teaching/Research Assistant:** Dept. of Geography, USF Tampa. Research, collection, and summarization of data related to statewide GIS efforts, for a funded project on establishing state government centralized GIS in Florida. Lab instructor in Meteorology, Climatology, GIS, and operation of department weather station.
- 1986-1989 **Operations Planner:** Anchor Glass Container Corporation, Tampa.
- 1980-1986 **Inventory Programmer and Contract Administrator/Analyst:** Anheuser-Busch Companies, Columbus, Ohio and St. Louis, Missouri.

Research Interests

- Water Quality & Conservation · Environmental Perception · Acoustic Remote Sensing
- Wetlands Hydrology & Ecology · Sediment/Soil Contamination · Geoscience Education
- Coastal Sedimentary Processes · Cultural Ecology · Regional Interest: South Asia

Research Experience

- 1994-2001 Participant in 16 research cruises, two as co-chief scientist. Deployment, collection and analyses of seismic reflection profiling; chirp and side-scan sonar; multi-beam bathymetry; current meter; and sedimentary, video and photographic data in Gulf of Mexico and Atlantic Ocean sites. Coastal marsh water/soil field research. Departmental SCUBA diver for chemical and physical oceanography research groups.
- 1999-2000 Research assistant, Tampa Street Sweeping Protocol Project. Collection and processing of street sweeping debris at Davis Islands study site. Collection of storm water runoff during rainfall events for processing and analysis.
- 1991-1992 Master's thesis research: conducted measurement and analysis of the magnitude and spatial distribution of anthropogenic lead alkyl contamination in soil samples collected adjacent to an expressway in Tampa, Florida.
- 1990-1991 Data collection, analysis and creation of a model on the development of state government centered geographic information systems.

Grants Funded

- 2006 \$650 - CAS Faculty Research & Development Grant. Development of GIS exercise modules.

- 2003 \$2840 - Co-PI (Dr. Robert Brinkmann, PI). City of Tampa, Dept. of Sanitary Sewers, to fund student internship, Summer 2003.
- 2003 \$5000 - Co-PI (Dr. Robert Brinkmann, PI). Southwest Florida Regional Planning Council, Charlotte Harbor National Estuary Program, to fund student internship, Summer 2003.

Graduate Student Committees

- 2007-present Monetta Wilson, M.S. Environmental Science & Policy. Mangrove Habitat Disturbance Index.
- 2006-present Scott Nonnemaker, M.A. Geography. Perceptions of Residents in Gated Communities.
- 2003-present Gerhard Becker, M.A. Geography. Economic Globalization and the Ports of Tampa and Hamburg.
- 2006-2007 Sara Allen, M.A. Geography. *Florida Red Tides: Public Perceptions of Risk.*
- 2006-2007 April Raulerson, M.A. Geography. *Hurricane Forecasting, Warning and Response Systems: A Lake Wales Public Perception Study.*
- 2005-2006 Kimberly Sarah Koenig, M.A. Geography. *Landscape Change in the South Prong Alafia River Basin.*
- 2003-2006 Anya Frashuer, M.A. Anthropology. *Middle Woodland Mounds and Ceremonialism in the Apalachicola Valley, Northwest Florida.*
- 2005 Raymond Miller, M.A. Geography. *Modeling Hurricane Evacuation Vulnerability: A Case Study of Pinellas County, Florida.*

Publications

- submitted Dwivedi, O.P. and Hafen, M.R. *Religions of India: Their Particularity and Universality for Environmental Protection.* Book chapter, Asia: Navigating Universality and Particularity. Canadian Asian Studies Association: Montréal, Quebec, Canada.
- 2001 Hafen, M.R. Spatial and Temporal Comparisons of Sedimentary Features and Properties, West Florida Shelf. Doctoral dissertation, Univ. of South Florida, St. Petersburg, FL, 329 p.
<http://www.marine.usf.edu/G2/onrpub.html>
- 1997 Mallinson, D., Locker, S., Hafen, M., Naar, D., Hine, A., Lavoie, D., and Schock, S. A high resolution geological and geophysical investigation of the Dry Tortugas carbonate depositional environment. *Geo-Marine Letters*, 17:237-245. [peer reviewed]
- 1997 Brinkmann, R., Lewis, J., Hagge, J., Happel, S., and Hafen, M. Comprehensive mapping of environmental lead data in Tampa, Florida. In, Aangeenbrug, R.T., Leaverton, P.E., Mason, T.J., and Tobin, G.A. (eds.), Proc. of the Int'l. Symp. on Computer Mapping in Epidemiology and Env. Health (World Computer Graphics Foundation: Alexandria, VA), pp. 237-245.
- 1997 D. Mallinson, D. Naar, A. Hine, M. Hafen, S. Schock, S. Smith, J. Kloske, G. Gelfenbaum, D. Wilson, D. Lavoie, and M. Richardson. Acoustic Seafloor Mapping Using the AUV Ocean Explorer. In, Proceedings of the 10th International Symposium on Unmanned Untethered Submersible Technology (Autonomous Undersea Systems Institute: Lee, NH), pp. 339-352.
- 1996 Hafen, M.R. and Brinkmann, R. Analysis of lead in soils adjacent to an interstate highway in Tampa, Florida. *Environmental Geochemistry and Health*, 18(4):171-179. [peer reviewed]
- 1992 Aangeenbrug, R.T., Schultz, K., and Hafen, M. A Bibliographic Analysis of Statewide Geographic Information Systems, 1970-1990. CPL Bibliography 282. Chicago: Council of Planning Librarians.
- 1992 Aangeenbrug, R.T., Knick, C., and Hafen, M. (eds.). GIS Curricula, Course Outlines, and Lab

Exercises Prepared for the GIS in Higher Education Symposium, October 1991. Tampa: World Computer Graphics Foundation and University of South Florida.

1992 Hafen, M.R. Analysis of Lead in Soils Adjacent to Interstate 275 in Tampa, Florida. Master's Thesis, University of South Florida.

Research Presented

2007 Diversity and the Distribution of Sexual Minorities in Hillsborough County, Florida. Applied Geography Conference, Indianapolis.

2006 Religion and Environmental Decision-Making in South Asia. M. Hafen and O.P. Dwivedi. Canadian Asian Studies Association biennial conference, Montréal, Quebec, Canada.

2006 The Sand or the Beach? Questions of Scale in GIS Exercises for Coastal Geography. Geological Society of American annual conference, Philadelphia.

2006 Morphometry of Karst Depressions in West-Central Florida. R. Brinkmann and M.R. Hafen. Association of American Geographers annual conference, Chicago.

2005 Boxing Meinig: A Framework for Studying Humans and the Environment. M.R. Hafen. Association of American Geographers annual conference, Denver.

2002 A Method for Assessing Changes in High/Low Backscatter Boundaries in Side-Scan Imagery Using MapInfo GIS. M.R. Hafen, A.C. Hine, and D.F. Naar. Second Annual ONR Mine Burial Prediction Workshop, Jan. 15-17, Scripps Institution of Oceanography, CA.

2000 Sediment Movement and Comparative Sedimentary Morphology, West Florida Shelf. M.R. Hafen. USF Dept. of Geology Colloquium, Tampa.

2000 Identifying Changes in the Morphology of Subaqueous Dunes on the West Florida Shelf Using Side-Scan Sonar. M.R. Hafen, A.C. Hine, and D.F. Naar. Association of American Geographers annual conference, Pittsburgh.

1999 Petrology and Morphology of Subaqueous Sand Dunes, West Florida Shelf. M. R. Hafen. USF Marine Science Graduate Student Symposium, St. Petersburg.

1998 Interpreting Shallow Sedimentary Structures in Holocene Sand Ridges. M.R. Hafen, A.C. Hine, D.F. Naar, and P.A. Howd. American Geophysical Union fall conference, San Francisco.

1998 Bedform Detection, Characteristics, and Movement on the West Florida Shelf. M.R. Hafen, B.T. Donahue, M.A. Weltmer, A.C. Hine, D.F. Naar, S.F. Tebbens, P.A. Howd, S.D. Locker, and D.J. Mallinson. American Geophysical Union annual spring conference, Boston.

1997 Correlating Geophysical, Sedimentary, and Hydrologic Characteristics of Two Areas of Carbonate-Siliciclastic Sand Ridges on Florida's Gulf Coast. M.R. Hafen, A.C. Hine, and D.F. Naar. American Geophysical Union annual fall conference, San Francisco.

1997 Seafloor Mapping Using the Autonomous Underwater Vehicle (AUV) *Ocean Explorer*. D. Mallinson, A. Hine, D. Naar, M. Hafen, S. Schock, S. Smith, G. Gelfenbaum, D. Wilson, and D. Lavoie. American Geophysical Union annual fall conference, San Francisco.

1997 Acoustic Seafloor Mapping Using the AUV *Ocean Explorer*. D. Mallinson, D. Naar, A. Hine, M. Hafen, S. Schock, S. Smith, J. Kloske, G. Gelfenbaum, D. Wilson, D. Lavoie, and M. Richardson. 10th Int'l

Symposium on Unmanned Untethered Submersible Technology, Lee, NH.

- 1997 Incorporating Environmental Ethics Case Studies into Elective Science Instruction as a Motivational Tool. M.R. Hafen. Confluences Conference, Hatfield Marine Science Center, Oregon State University, Newport, Oregon.
- 1997 The Shallow Subsurface Geology of the Greater Tortugas Area. D. Mallinson, A. Hine, S. Locker, and M. Hafen. Presented at the CBBL: Key West Workshop, Navy Research Laboratory, Stennis Space Center, MS.
- 1996 The Florida Middle Ground: A Complex Product of Geological, Physical, and Biological Interaction. D.J. Mallinson, A.C. Hine, S.D. Locker, and M.R. Hafen. Second West-Central Florida Coastal Studies Workshop, St. Petersburg, Florida. Published abstract (USGS Open File Report 97-51).
- 1995 Preliminary Analysis of Sediment Properties in Relation to High Resolution Sonar Data from the Coastal Shelf Environments Near Boca Raton, the Dry Tortugas, and Marquesas, Florida. M. Hafen, D. Mallinson, Y. Rappaport, D. Naar, A. Hine, D. Lavoie, and S. Schock. Geological Society of America annual conference, New Orleans.
- 1995 A High Resolution Geophysical Analysis of a Mixed Carbonate-Siliciclastic Shelf Environment off Boca Raton, Florida. D. Mallinson, M. Hafen, Y. Rappaport, D. Naar, A. Hine, D. Lavoie, and S. Schock. SEPM (Society of Sedimentary Geology) conference, St. Pete Beach, Florida.
- 1995 Comprehensive Mapping of Environmental Lead Data in Tampa, Florida. R. Brinkmann, J. Lewis, J. Hagge, S. Happel, and M. Hafen. International Symposium on Computer Mapping and Epidemiology and Environmental Health, Tampa.
- 1994 Lead in Soils Adjacent to I-275 in Tampa. M.R. Hafen. Presented to the Alpha Omega Science Club, St. Petersburg Junior College.
- 1993 Analysis of Lead in Soils Adjacent to I-275 in Tampa. M.R. Hafen. Annual Meeting of the Association of American Geographers, Atlanta.
- 1991 Sawgrass Lake Park: Water Quality in an Urban Wetland. M.R. Hafen. Bay Area Scientific Information Symposium 2, Tampa. Received certificate of merit.
- 1991 Analysis of Xeriscaping and Its Efficacy for Water Conservation in Southwest Florida. M.R. Hafen. Annual meeting of the Florida Society of Geographers, Tampa.
- 1990 The Spatial Implications of Restructuring in the Glass Container Industry. M.R. Hafen. Annual Meeting of the Association of American Geographers, Toronto.

Professional Memberships

- Association of American Geographers (AAG)
 - Ethics, Justice & Human Rights Sp. Group
 - Coastal and Marine Specialty Group
 - Env. Perception & Behavioral Sp. Group
- Canadian Asian Studies Association
 - South Asia Council
- Geological Society of America (GSA)
 - Geoscience Education Division (newsletter editor) <http://gsaged.org/>
 - National Association of Geoscience Teachers
 - National Council for Geographic Education

Honors

- 2007 Distinguished Service Award, Geological Society of America, Geoscience Education Div.

2006 USF LGBT Alumni Pride Award
 1998-1999 St. Petersburg Progress Fellowship in Coastal Science
 1997-1998 John B. Lake Fellowship in Marine Science & University Graduate Fellowship (USF)
 1996-1997 Department of Marine Science Fellowship
 1994-1995 University Graduate Fellowship (USF)
 1989-1990 Graduate Council Fellowship and Graduate Registration Fellowship (USF)
 1980 Pilot Motor Freight Scholarship, Outstanding Logistics Senior (Penn State University)
 1976-1980 Phi Eta Sigma, Beta Gamma Sigma, and Phi Kappa Phi academic honor societies
 1976-1977 Westinghouse Family Scholarship

Recent Volunteer/Service Work

2006-present USF Safe Zone Ally and Safe Zone Advisory Committee (support and advocate for GLBTQ students, faculty, and staff)
 2005-present USF LGBT Alumni Society
 2004-present USF Committee on Issues of Sexual Orientation and Gender Identity
 1993-present WMNF-FM Radio (Tampa) - volunteer, radio theater cast, program host <http://wmnf.org>
 2002 Tampa Bay Environmental Forum (St. Pete Beach) - panel discussant (student interns)
 1997-2001 College of Marine Science, Student Recruiting and Space & Planning Committees
 1998-2001 Pinellas County (FL) Elementary Health & Science Fair - judge
 1994-2000 Marine Science Advisory Committee
 · Fall 1995, 1996, & 1997 beach cleanup site co-captain
 · Fall 1996-Spring 1999 new student orientation coordinator
 · Fall 1995 student lecture series coordinator
 1998-2000 Introduction to Oceanography (USF-Marine Science) - guest lecturer, barrier islands
 1999 SEDAAG Conference, Tampa - field trip assistant (Egmont Key)
 1999 Speaker (Beach Erosion and Stabilization), Pass-a-Grille (FL) Community Association
 1998-1999 Project Tampa Bay - field instructor
 1998 Speaker (coastal environmental issues), USF Alumni Retreat, Sarasota, FL
 1996-1997 Project Oceanography (USF) - volunteer and TV program host (Oct. 24, 1997)

Special Skills

Licenses: FCC Non-Commercial Radio Broadcaster
 Certifications: Advanced Arc/INFO (ESRI, Inc.)
 Open Water Diver (PADI)
 Computers: Windows PC, Unix and Mac OS platforms and software