

Curriculum Vitae

Stephen A Kish

May 20, 2013

General Information

University address: Earth, Ocean & Atmospheric Science
College of Arts and Sciences
Carraway Building 0312
Florida State University
Tallahassee, Florida 32306-4100
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Professional Preparation

- 1983 Ph.D., University Of North Carolina, Chapel Hill, NC. Major: Geology.

 Unspecified Name. (1983). *A Geochronological Study of Deformation and Metamorphism in the Blue Ridge and Piedmont of the Carolinas*. Unpublished doctoral dissertation, University Of North Carolina, Chapel Hill, NC.
- 1974 M.S., Florida State University, Tallahassee, FL. Major: Geology.

 Unspecified Name. (1974). *The Structural and Metamorphic History of the Northern Terminus of the Murphy Belt*. Unpublished master's thesis, Florida State University, Tallahassee, FL.
- 1969 B.S., Florida State University, Tallahassee, FL. Major: Geology.

Professional Experience

- 1989–present Associate Professor, Earth, Ocean & Atmospheric Sciences, Florida State University.
- 1993–1994 Sabbatical, University of Kansas.
- 1984–1989 Assistant Professor, Florida State University.
- 1983–1984 Visiting Professor, Florida State University.

Current Membership in Professional Organizations

American Geophysical Union
Carolina Geological Society
Geological Society of America

Teaching

Remote sensing and GIS studies in the earth and environmental sciences, economic geology, isotope geology, igneous and metamorphic petrology, geologic and hydrologic field methods, GPS mapping.

Courses Taught

Fundamentals of Remote Sensing, Air Photo Interpretation and GIS for the Earth Sciences
(GLY5757-C)
Introduction to Remote Sensing, Air Photo Interpretation and GIS for the Earth Sciences
(GLY4751-C)
Physical Geology (GLY2010-C)
Geological Field Methods (GLY4750)
Planetary Geology (GLY1042)
Advanced Topics in Hydrology (GLY5896)
Doctoral Seminar (GLY6982)
Graduate Seminar (GLY5931)
Dynamic Earth (GLY1000)

Doctoral Committee Chair

Sankar, R. D., doctoral candidate.
Bidorn, B., doctoral student.

Doctoral Committee Member

Coor, J. L., graduate. (2012).
Das, O., graduate. (2012).
Du, X., graduate. (2012).
Baggazi, H. M., graduate. (2011).
Pal, P., graduate. (2011).
Zhang, C., graduate. (2011).
Forrest, B., graduate. (2007).
Holm-Denoma, C., graduate. (2006).
Ciner, B., doctoral candidate.
Zhang, X., doctoral candidate.

Doctoral Committee University Representative

Abdouli, K. M., doctoral candidate.
Dai, H., doctoral candidate.
Lee, I., doctoral candidate.

Master's Committee Chair

Kulakowski, Z. P., graduate. (2010).
Bambach, P. W., student.
Dyer, S. B., student.

Master's Committee Cochair

Waldron, D. W., student.

Master's Committee Member

Pazel, J. M., graduate. (2012).
Fernandes, R. I., graduate. (2011).
Gallegos, J. J., graduate. (2011).
Whiting, S. E., graduate. (2009).
Guo, L., graduate. (2009).
Faulkner, J. A., graduate. (2008).
Baldwin, J., student.
Cates, K. H., student.
Hilton, D. C., student.
Smith, V. J., student.
White, C. L., student.

Research and Original Creative Work

Program of Research and/or Focus of Original Creative Work

Remote sensing and GIS applied to surface geology and hydrology
Metamorphic and plutonic history of the southern Appalachians
Isotope studies applied to economic geology and archaeology.

Publications

Refereed Journal Articles

- Kish, S. A., & Donoghue, J. F. (in press). Coastal response to storms and sea-level rise: Santa Rosa Island, northwest Florida, USA. *Journal of Coastal Research*.
- Faulkner, J., Hu, B. X., Kish, S., & Hua, F. (2009). Laboratory analog and numerical study of groundwater flow and solute transport in a karst aquifer with conduit and matrix domains. *Journal of Contaminant Hydrology*, 110(1-2), 34-44. doi:10.1016/j.jconhyd.2009.08.004
- Kish, S. A. (2007). Geochemical and petrologic characterization of pumice artifacts from the Miami Circle-Brickell Point archaeological site plus other sites in Florida – potential provenance locations. *The Florida Anthropologist*, 59, 209-240.
- MILLA, K., & Kish, S. A. (2006). A low-cost microprocessor and infrared sensor system for automating water infiltration measurements. *Computers and Electronics in Agriculture*, 53, 12-129.
- Bartholomew, M. J., Lewis, S. E., Russell, G. S., Stickney, M. C., Wilde, E. M., & Kish, S. A. (1999). Late Quaternary history of the Beaverhead River canyon, southwestern montana. *Guidebook to the Geology of Eastern Idaho: Idaho Museum of Natural History*, 237-250.
- Tull, J. F., Kish, S. A., Groszos, M. S., & Campbell, S. K. (1998). Laurentian magmatism of the southern Appalachian Blue Ridge: Post-Iapetan rifting. *Geological Society of America Bulletin*, 110(10), 1281-1303. doi:10.1130/0016-7606(1998)110[1281:LMOTSA>2
- Miller, C., Fullagar, P. D., Sando, T., Kish, S., Solomon, G., Russell, G., & Wood Steltenpohl, L. (1997). Low-potassium, trondhjemitic to granodioritic plutonism in the eastern Blue Ridge, southwestern North Carolina-northeastern Georgia. *Geological Society of America Memoir*, 191, 235-254.
- Neilson, M., Seal, T., & Kish, S. (1997). Two high-silica gneisses from the Dadeville Complex of Alabama's Inner Piedmont. *Southeastern Geology*, 36, 123-132.
- Seidemann, D. E., Stein, H. J., & Kish, S. A. (1992). The Significance of Rb-Sr Glauconite Ages, Bonneterre Formation, Missouri - Late Devonian-Early Mississippian Brine Migration in the Midcontinent - a Discussion. *Journal of Geology*, 100(5), 639-641.
- Stein, H. J., & Kish, S. A. (1992). The Significance of Rb-Sr Glauconite Ages, Bonneterre Formation, Missouri - Late Devonian-Early Mississippian Brine Migration in the Midcontinent. *Journal of Geology*, 100(5), 641-645.
- Kish, S. A. (1992). An initial geochemical and isotopic study of granite from core C-10. *Savannah River Site, SC in Fallow, W., and Price, V., eds., Geological Investigations of*

the Savannah River Area, South Carolina and Georgia: Carolina Geological Society Fieldtrip Guidebook, 1-4.

Stein, H. J., & Kish, S. A. (1991). The Significance of Rb-Sr Glauconite Ages, Bonneterre Formation, Missouri - Late-Devonian Early-Mississippian Brine Migration in the Midcontinent. *Journal of Geology*, 99(3), 468-481.

Wise, D. U., Dunn, D. E., Engelder, J. T., Geiser, P. A., Hatcher, R. D., Kish, S. A., Odom, A. L., & Schamel, S. (1985). Fault-Related Rocks - Suggestions for Terminology [Reply]. *Geology*, 13(5), 379. doi:10.1130/0091-7613(1985)13[379:CAROFR>2.0

Kish, S., & Fullagar, P. (1978). Summary of geochronological data for late Paleozoic plutons from high grade metamorphic belts of the eastern Piedmont of North Carolina, South Carolina, and Virginia. *Snoke, A. W., ed., Geological investigations of the eastern Piedmont, southern Appalachians: Carolina Geological Society Field Trip Guidebook, South Carolina Geological Survey*, 61-64.

Kish, S. (1975). Guide to the geology of the Blue Ridge south of the Great Smoky Mountains, North Carolina. *Carolina Geological Society Annual Field Trip, Guidebook*, 1-49.

Refereed Proceedings

Donoghue, J., Kish, S. A., Coor, J. L., Elsner, J. B., Niedoroda, A. W., Wang, Y., & Ye, M. (2012). Modeling the effects of increased sea-level rise and storminess of the northwest Florida Coast. In *Abstracts with Programs*, v. 44 (pp. 619). Annual National Meeting, Geological Society of America.

Kish, S. A. (2012). Dynamics of water levels in ephemeral ponds of the Munson Sandhills, lower Coastal Plain of northwest Florida. In *Abstracts with Programs*, Vol. 44, No. 7 (pp. 436). Annual Meeting, Geological Society of America.

KISH, S. A. (2012). The influence of storm frequency on shoreline stability, Santa Rosa Island, Florida. In *Abstracts with Programs*, v. 44 (pp. 75). Annual Meeting, Geological Society of America.

DONOGHUE, J. F., ELSNER, J. B., HU, B. X., KISH, S. A., NIEDORODA, A. W., WANG, Y., YE, M., COOR, J. L., DAS, O., & WALLACE, T. (2011). Modeling near-future response to sea level and climate change on the northwest Florida coast. In *Abstracts with Programs*, v. 43 (pp. 79). Southeastern Section Meeting, Geological Society of America.

- Kish, S. A., Niedoroda, A. W., Donoghue, J. F., Elsner, J. B., Hu, B., Wang, Y., & Ye, M. (2010). Long-term and storm-related changes of shorelines and dunes on Santa Rosa Island, Florida: a baseline for studying the effects of climate change and sea level rise on a low-lying barrier island. In *Abstracts with Programs*, v. 42 (pp. 246). Annual Meeting, Geological Society of America.
- Niedoroda, A., Dai, H., Ye, M., Saha, B., Donoghue, J., & Kish, S. (2010). Morphodynamic Modeling of Coastal Barrier Response to Sea-Level Rise Scenarios. In *Fall Meeting Abstracts*, v. 1 (pp. 775). EOS, Transactions, American Geophysical Union.
- Coor, J., Donoghue, J., Wang, Y., Das, O., Kish, S., Elsner, J., Hu, X., Niedoroda, A., & Ye, M. (2009). Development of a Long-Term Storm History for the Northwest Florida Coast Using Multiple Proxies. In *Fall Meeting Abstracts*, v. 90 (52) (pp. 1109). EOS, Transactions, American Geophysical Union.
- Das, O., Wang, Y., Donoghue, J., Coor, J., Kish, S., Elsner, J., Hu, X., Niedoroda, A., Ye, M., & Xu, Y. (2009). Reconstruction of paleostorm history using geochemical proxies in sediment cores from Eastern Lake, Florida. In *Fall Meeting Abstracts*, v. 90 (52) (pp. 1105). EOS, Transactions, American Geophysical Union.
- Donoghue, J. F., Coor, J. L., Wang, Y., Das, O., Kish, S. A., Elsner, J. B., Hu, X., Niedoroda, A. W., & Ye, M. (2009). Coastal Lake Record of Holocene Paleo-Storms from Northwest Florida. In *Fall Meeting Supplement*, v. 90 (pp. 52). EOS, Transactions, American Geophysics Union.
- Faulkner, J., Hu, B., & Kish, S. (2008). Hydrodynamics of Groundwater Flow in a Benchtop Model Simulating a Karst Aquifer. In *Spring Meeting Abstracts*, v. 88 (pp. 84). EOS, Transactions, American Geophysical Union.
- Donoghue, J. F., Forrest, B. M., Balsillie, J. H., Stapor, F. W., Jr., Kish, S. A., Brook, G. A., & Brook, F. Z. (2007). Late Quaternary sea-level history for the Northern Gulf of Mexico and its impact on barrier growth and development. In *Abstracts with Programs*, v. 39 (pp. 23). Annual Meeting, Geological Society of America.
- Faulkner, J., Hu, B., & Kish, S. (2006). Hydrodynamics of Groundwater Flow in a Benchtop Model Simulating a Karst Aquifer. In *Fall Meeting Abstracts*, v. 87 (pp. 52). EOS, Transactions, American Geophysical Union.
- KISH, S. A. (2006). The source of pumice found at prehistoric archaeological sites in Florida - petrographic and geochemical evidence. In *Abstracts with Programs* (pp. 9). Annual Meeting, Geological Society of America.

Nonrefereed Reports

Donoghue, J. F., Elsner, J. B., Hu, B. X., Kish, S. A., Niedoroda, A. W., Wang, Y., & Ye, M. (2013). *Effects of Near-Term Sea-Level Rise on Coastal Infrastructure Strategic Environmental Research and Development Program (U.S. Department of Defense)* (Final Technical Report Project RC-1700). U.S. Department of Defense.

Contracts and Grants

Contracts and Grants Funded

Donoghue, Joseph F (PI), Kish, S. A., Elsner, J. B., Wang, Y., Hu, X., & Ye, M. (Feb 2009–Mar 2013). *Effects of Near-Term Sea-Level Rise on Coastal*. Funded by U. S. Army Humphreys Engineer. (W912HQ-09-C-0010). Total award \$1,031,063.

Edited Publications

Bearce, D., Black, W., Kish, S., & Tull, J. (1982). *Tectonic studies in the Talladega and Carolina slate belts, southern Appalachian Orogen*. Geological Society of America Special Paper 191.

Field Experience

Kish, S. A. (2009–2010). *Geomorphology of Santa Rosa Island, Florida*.

Kish, S. A. (2006–2009). *Hydrology and chemistry of the Wakulla Springs system*.