

Stewart Sandberg, Ph.D.
Curriculum Vitae

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Education

- Ph.D. Geological Sciences, Rutgers University, New Brunswick, New Jersey 1995
- M.S. Geophysics, University of Utah, Salt Lake City, Utah 1980
- B.S. Physics, University of Utah, Salt Lake City, Utah 1976
- B.S. Mathematics, University of Utah, Salt Lake City, Utah 1975

Teaching Experience

- Instructor, 2010 – Present
Houston Community College District
Courses: Introductory Physics I,
University Physics I,
University Physics II,
Physical Geology (with Lab),
Earth Science I (with Lab),
Environmental Science,
Introduction to Oceanography
- Visiting Assistant Professor, 2002 – 2003
University of South Florida
Courses: Physical Geology, Oceanography, Environmental Geophysics (graduate course)
- Assistant Professor, 1994 – 2002
University of Southern Maine
Courses: Physical Geology (with Lab), Oceanography, Introduction to Geophysics,
Environmental Geophysics

Professional, Technical, and Work-related Experience and Skills

- WesternGeco Electromagnetics (hydrocarbon exploration and geological mapping), Houston, Texas, 2006 - 2010
- Geophysical Solutions (environmental geophysics consulting and project work, geothermal exploration, UXO detection, groundwater exploration), Albuquerque, New Mexico, 1996 – 2005
- Roy F. Weston (environmental geophysics consulting), Cincinnati, Ohio, 1991 – 1994
- New Jersey Geological Survey, Trenton, New Jersey, 1984 – 1991
- Amoco Minerals Company, Englewood, Colorado, 1980 – 1984

Selected Publications

In Progress:

Volkert, Richard A., and **Sandberg, Stewart K.**, 2017, Evidence from $^{40}\text{Ar}/^{39}\text{Ar}$ thermochronology and thermal modeling for the protracted cooling and exhumation of Proterozoic upper crustal rocks, north-central Appalachians, USA. In preparation.

Published:

Grimm, R. E., Stillman, D. E., Dinwiddie, C. L., McGinnis, R. N., **Sandberg, S. K.**, 2017, On Conductive Ground: Analysis of “Bistatic Sounding of the Deep Subsurface with Ground Penetrating Radar – Experimental Validation” by V. Ciarletti et al.: *Planetary and Space Science*, vol. 139, May 2017, p. 51-56..

James Brady, Tracy Campbell, Alastair Fenwick, Marcus Ganz, **Stewart K. Sandberg**, Marco Polo Pereira Buonora, Luiz Felipe Rodrigues, Chuck Campbell, Leendert Combee, Arnie Ferster, Kenneth E. Umbach, Tiziano Labruzzo, Andrea Zerilli, Edward A. Nichols, Steve Patmore, and Jan Stilling, 2009, Electromagnetic Sounding for Hydrocarbons: *Oilfield Review*, p. 4-19 (Spring 2009).

Sandberg, Stewart K., 2008, Technique improves subsalt imaging: *The American Oil & Gas Reporter*, September, 2008.

Sandberg, S. K., Wu, X., and Roper, T., 2008, Salt mapping in the Gulf of Mexico using marine magnetotellurics: *First Break*, vol. 26, p. 91-94, (June 2008).

MacNeil, Richard E., Sanford, Ward E., Connor, Charles B., **Sandberg, Stewart K.**, and Diez, M., 2007, Investigation of the groundwater system at Masaya Caldera, Nicaragua, using transient electromagnetics and numerical simulation: *Journal of Volcanology and Geophysical Research* 166 (2007) 217-232.

Sandberg, S. K., Slater, L. D., and Versteeg, R., 2002, An integrated geophysical investigation of the hydrogeology of an anisotropic unconfined aquifer: *Journal of Hydrology*, 267 (3-4), 227-243.

Slater, L., Binley, A., Versteeg, R., A., Cassiani, G., Birken, R., and **Sandberg, S.**, 2002, A 3D ERT study of solute transport in a large experimental tank: *Journal of Applied Geophysics*, 49 (4), 211-229.

Sandberg, S. K., and Slater, L. D., 2001, Geophysical monitoring through a tidal cycle at Crescent Beach State Park, Maine: *Journal of Environmental and Engineering Geophysics*, vol. 6, issue 4, p. 165-174.

Connor, C. B., and **Sandberg, S. K.**, 2001, A first look at the application of integrated geophysical techniques to characterization of the Edwards Aquifer, Texas: *Bulletin of the South Texas Geological Society*, vol. 41, no. 7, p. 11-19.

- Slater, L. D., Hamilton, N. D., **Sandberg, S. K.**, and Jankowski, M., 2000, Magnetic prospecting at a prehistoric and historic settlement in Maine: *Archaeological Prospection*, **7**, 31-41.
- Slater, L. D., and **Sandberg, S. K.**, 2000, Case history: Resistivity and induced polarization monitoring of salt transport under natural hydraulic gradients: *Geophysics*, vol. 65, no. 2 (March-April 2000), p. 408-420.
- Slater, L. D., **Sandberg, S. K.**, and Jankowski, M., 1998, Survey design procedures and data processing techniques applied to the EM azimuthal resistivity method: *Journal of Environmental and Engineering Geophysics*, vol. 3, issue 4, p. 167-177.
- Sandberg, S. K.**, Hall, D. W., Gronberg, J. M., and Pasicznyk, D. L., 1996, Geophysical investigation of the Potomac-Raritan-Magothy Aquifer System and underlying bedrock in parts of Middlesex and Mercer Counties, New Jersey: New Jersey Geological Survey, Geological Survey Report GSR-37, 33 p., 4 fig., 3 plates.
- Sandberg, S. K.**, 1993, Examples of resolution improvement in geoelectrical soundings applied to groundwater investigations: *Geophysical Prospecting*, v. 41, p. 207-227.
- Sandberg, S. K.**, 1990, Microcomputer software for individual or simultaneous inverse modeling of transient electromagnetic, resistivity, and induced polarization soundings: New Jersey Geological Survey Open-File Report OFR90-1.
- Sandberg, S. K.**, and Hall, D. W., 1990, Geophysical investigation of an unconsolidated coastal plain aquifer system and the underlying bedrock geology in central New Jersey: *Geotechnical and Environmental Geophysics, Volume II: Environmental and Groundwater: Investigations in Geophysics, No. 5*, S. H. Ward (ed), Society of Exploration Geophysicists, Tulsa, OK, p. 311-320.
- Ghatge, S. L., Pasicznyk, D. L., **Sandberg, S. K.**, Hall, D. W., and Groenewold, J. C., 1989, Determination of bedrock topography and geology using various geophysical techniques: New Jersey Geological Survey Technical Memorandum TM 89-2, 23 p.
- Sandberg, S. K.**, 1988, Microcomputer software for the processing and forward modeling of transient electromagnetic data taken in the central loop sounding configuration: New Jersey Geological Survey Open-File Report 88-1.
- Sandberg, S. K.**, and Hohmann, G. W., 1982, Controlled-source audiomagnetotellurics in geothermal exploration: *Geophysics*, v. 47, no. 1, p. 100-116.