

## CURRICULUM VITAE (7/19/2019)

### Address

School of Geosciences, NES 201, University of South Florida, 4202 E. Fowler Ave, Tampa FL 33620.  
Office: SCA 504. Phone (813) 974-5267.

### Present Position

1983– University of South Florida, School of Geosciences. Geology Program.  
Associate Professor (1983-1991). Tenured (1989). Professor (1991–)

### Education

BS University of Washington, 1965  
MS Northwestern University, 1969  
PhD Northwestern University, 1971

### Past Academic Positions

1969–1971, Research Associate, Bermuda Biol. Station for Research, St. Georges West, Bermuda.  
1971–1972, Post-doctoral Research Associate, Dept of Geology, SUNY at Binghamton, NY.  
1974–1983, Washington State University, Department of Geology. Assistant Professor (1974-1980),  
Tenured (1979); Associate Professor (1980-1983);

### Professional Experience

1972–1974, Resident Consultant-Geologist/Hydrologist, Bermuda Public Works Department,  
1974–1982, Summers. Consultant Geologist/Hydrogeologist for Bermuda Government

### Professional Societies

Geological Society of America (Fellow)

29 321.65 Tm( )JTJET EMC f(l)-/tn BDC BT1 0 0meAMCID 262B( 29 321.65 Tm( )JTJET )JTJETBT1 0 0 1 80.304a2s5sr



PUBLICATIONS: (Google Scholar Citations, July 7, 2019: \*\*\*100 or more; \*\*31 or more; \*10 or more; total ca. 3000)

PUBLICATIONS: Monographs and Map

- \*1971. *Late Pleistocene Sea-Level History: Bermuda Evidence*. PhD dissertation, Northwestern University.
- \*\*1974. *Ground Water Hydrology of Bermuda*, Government of Bermuda Public Works Department, 87 pp. (H.L. Vacher)
- \*\*1989. *The Geological Map of Bermuda*. 1 sheet, 1:25,000-scale. Ministry of Works and Engineering, the Bermuda Government. (H.L. Vacher, M. Rowe and P. Garrett) (small-scale generalized reproduction, public domain from U.S. Dept of Agriculture:  
[https://commons.wikimedia.org/wiki/File:NOAA\\_Ocean\\_Explorer\\_Bermuda\\_Geologic\\_Map.png](https://commons.wikimedia.org/wiki/File:NOAA_Ocean_Explorer_Bermuda_Geologic_Map.png))
- 1997. *Geology and Hydrogeology of Carbonate Islands*. Elsevier, Amsterdam, 948 pp. (H.L. Vacher and T.M. Quinn, Editors)

\*\*1997. Introduction: Varieties of carbonate islands and a historical perspective. Chapter 1 in Vacher and Quinn (Editors), *Geology and Hydrogeology of Carbonate Islands*, p. 1-33. (Vacher)

\*\*1997. Geology and hydrogeolog

<http://onlinelibrary.wiley.com/doi/10.1111/j.1745-6584.1978.tb03256.x/abstract>

- \*\*1991. Hydrogeology of freshwater lens beneath a Holocene strandplain, Great Exuma, Bahamas. *Journal of Hydrology*, v. 125, p. 93-109 (T.N. Wallis, H.L. Vacher, and M.T. Stewart) [http://scholarcommons.usf.edu/gly\\_facpub/32/](http://scholarcommons.usf.edu/gly_facpub/32/)
- \*\*\*1992 Aminostratigraphy and ages of Pleistocene limestones of Bermuda. *Bulletin Geological Society of America*, v. 104, p. 471-480. (P.J. Hearty, H.L. Vacher, and R.M. Mitterer) [http://scholarcommons.usf.edu/gly\\_facpub/26/](http://scholarcommons.usf.edu/gly_facpub/26/)
- \*\*1992. Comparative hydrogeology of Bermuda and Great Exuma Island, Bahamas. *Ground Water*, v. 30, p. 15-20. (H.L. Vacher and T.N. Wallis). [http://scholarcommons.usf.edu/gly\\_facpub/31/](http://scholarcommons.usf.edu/gly_facpub/31/)
- \*\*1992. The hydrogeochemistry of early meteoric diagenesis in a Holocene deposit of biogenic carbonates. *Journal of Sedimentary Petrology*, v. 62, p. 1008-1022. (M.E. McClain, P.K. Swart, and H.L. Vacher). [http://scholarcommons.usf.edu/gly\\_facpub/28/](http://scholarcommons.usf.edu/gly_facpub/28/)
- \*1993. Transport of Ca, Mg and SO<sub>4</sub> in the Floridan aquifer, west-central Florida: Implications to cementation rates. *Journal of Hydrology*, v. 143, p. 455-480 (I.C. Jones, H.L. Vacher and D.A. Budd). <http://www.sciencedirect.com/science/article/pii/002216949390204M>
- \*\*1993. Calcite cementation in the upper Floridan aquifer: A modern example for confined-aquifer cementation models? *Geology*, v. 21, p. 33-36. (D.A. Budd, U. Hammes, and H.L. Vacher). <http://geology.geoscienceworld.org/content/21/1/33.short>
1994. The hydrogeochemistry of early meteoric diagenesis in a Holocene deposit of biogenic carbonates -- Reply. *Journal of Sedimentary Petrology*, v A64, p. 415-416. (M.E. McClain, P.K. Swart, and H.L. Vacher).
- \*\*1994. Quaternary stratigraphy of Bermuda: A high-resolution pre-Sangamonian rock record. *Quaternary Science Reviews*, v.13, p.685-697. (P.J. Hearty and H.L. Vacher) <http://www.sciencedirect.com/science/article/pii/027737919490099X>
- \*1997. Groundwater flow beneath a hypersaline pond, Cluett Key, Florida Bay, Florida. *Journal of Hydrology*, v. 197, p. 339-369. (T. Juster, P.A. Kramer, H.L. Vacher, P.K. Swart, and M. Stewart) [http://scholarcommons.usf.edu/gly\\_facpub/29/](http://scholarcommons.usf.edu/gly_facpub/29/)
- \*2000. A course in geological-mathematical problem solving. *Journal of Geoscience Education*, v. 48, p. 478-481. <http://nagt.org/files/quantskills/Vacher-v48n4p478.pdf>
- \*\*\*2002 Eogenetic karst from the perspective of an equivalent porous medium. *Carbonates and Evaporites*, v. 17, n. 2, p. 182-196, DOI: 10.1007/BF03176484. (H.L. Vacher and J.E. Mylroie) <http://www.springerlink.com/content/th4g351841862154/>
2004. Variation of salinity in brackish-water lenses of two Florida keys. *Journal of Coastal Research*, v. 20, n. 2, p. 386-400. (D.G. Meadows, J.P. Caballero, S.E. Kruse, S.E., H.L. Vacher, and M. Ross). [http://scholarcommons.usf.edu/gly\\_facpub/25/](http://scholarcommons.usf.edu/gly_facpub/25/)
- \*\* 2004. Matrix permeability of the confined Floridan Aquifer, Florida, USA. *Hydrogeology Journal*, v. 12, p. 531-549. (D.A. Budd and H.L.Vacher) <http://link.springer.com/article/10.1007/s10040-004-0341-5?null>

- \*2004. Using Spreadsheets in Geoscience Education: Survey and Annotated Bibliography of Articles in the Journal of Geoscience Education Through 2003. *Journal of Spreadsheets in Education*, 1(3): 168-194. (S.E. Fratesi and H.L. Vacher).  
<http://epublications.bond.edu.au/ejsie/vol1/iss3/3/>
- \*2005. Numerical simulation of double-diffusive finger convection. *Water Resources Research*, v. 41, W01019, doi:10.1029/2003WR002777.. (J.D. Hughes, W.E. Sanford, and H.L. Vacher). <http://www.agu.org/pubs/crossref/2005/2003WR002777.shtml>
- \*\*2006. Metaphors and models: The ASR bubble in the Floridan aquifer. *Ground Water*, v. 44, p. 44-54. (H.L. Vacher, W.C. Hutchings, and D.A. Budd).  
[http://scholarcommons.usf.edu/gly\\_facpub/35/](http://scholarcommons.usf.edu/gly_facpub/35/)
- \*\*2006. Springflow hydrographs: Eogenetic vs. telogenetic karst: *Ground Water*, vol. 44, no. 3, 352-361. (L.J. Florea and H.L. Vacher). [http://scholarcommons.usf.edu/gly\\_facpub/36/](http://scholarcommons.usf.edu/gly_facpub/36/)
- \*\*2007. Eogenetic karst hydrology: Insights from the 2004 hurricanes, peninsular Florida: *Ground Water*, v. 45, no. 4, p. 439-446. (L.J. Florea and H.L. Vacher)  
<http://info.ngwa.org/gwol/pdf/071382322.pdf>
- \*\*2007. Quaternary cave levels in peninsular Florida: *Quaternary Science Reviews*, v. 26, p. 1344-1361. (L.J. Florea, H.L. Vacher, B. Donahue, and D. Naar).  
[http://scholarcommons.usf.edu/gly\\_facpub/40/](http://scholarcommons.usf.edu/gly_facpub/40/)
- \*2007. Three-dimensional flow in the Florida Platform: Theoretical analysis of Kohout

\*2009. Temporal response of hydraulic head, temperature, and chloride concentrations to sea-level changes, Floridan aquifer system, USA, *Hydrogeology Journal*, v. 17, no. 4, p. 793-815 (J. D. Hughes, H.L. Vacher and W.E. Sanford)

<http://doi.org/10.5038/1936-4660.10.2.11> (V. J. Ricchezza and H. L. Vacher). Available at: <http://scholarcommons.usf.edu/numeracy/vol10/iss2/art11>

- 2018 Quantitative Map Literacy: A Cross between Map Literacy and Quantitative Literacy. *Numeracy* v. 11, Issue 1, Article 4. DOI: <https://doi.org/10.5038/1936-4660.11.1.4> (Ming Xie, H. L. Vacher, Steven Reader, and Elizabeth Walton). Available at: <http://scholarcommons.usf.edu/numeracy/vol11/iss1/art4>

PUBLICATIONS: Peer-Review Journals: Editorials and Book Reviews

2001. Better math, better geology. *Geotimes* (Geoscience Education column), v. 46, n. 3, p. 13, 31.
2008. Editorial: The scope of *Numeracy*. *Numeracy*, vol. 1, issue 1, article 1. (H.L. Vacher and D. Wallace). Available at:



- v. 46, p. 383-388. <http://d32ogoqmya1dw8.cloudfront.net/files/nagt/jge/columns/CG2-v46n4p383.pdf>
1998. Computational Geology 3 -- Progressing geometrically. *Journal of Geoscience Education*, v. 46, p. 500-506. <http://d32ogoqmya1dw8.cloudfront.net/files/nagt/jge/columns/CG3-v46n4p383.pdf>

2001. Computational Geology 16 –



2007. Effect of an offshore sinkhole perforation in a coastal confined aquifer on submarine groundwater discharge, *in*

*Curriculum*, Geology of National Parks Collection, Module SSACgnp.GB.661.MCR1.1. (M.C. Rains, D.C. Shelley, L Vacher).  
[http://serc.carleton.edu/sp/ssac/national\\_parks/examples/33610.html](http://serc.carleton.edu/sp/ssac/national_parks/examples/33610.html)

2010. Mapping coastal vulnerability to sea-level rise at Point Reyes National Seashore. *Spreadsheets Across the Curriculum*, Geology of National Parks Collection, Module SSACgnp.GB.450.LV1.8.  
[http://serc.carleton.edu/sp/ssac/national\\_parks/examples/35176.html](http://serc.carleton.edu/sp/ssac/national_parks/examples/35176.html)
2010. Take a deep breath on the Appalachian Trail in Great Smoky Mountains National Park: How many molecules of ozone do you inhale. *Spreadsheets Across the Curriculum*, Geology of National Parks Collection, Module SSACgnp.TD883.LV1.9. (L. Vacher, S. Sachs) [http://serc.carleton.edu/sp/ssac/national\\_parks/examples/35175.html](http://serc.carleton.edu/sp/ssac/national_parks/examples/35175.html)
2011. Nitrate levels in the Rock Creek Park Watershed, Washington, DC, 1: Measures of central tendency. *Spreadsheets Across the Curriculum*, Geology of National Parks Collection, Module SSACgnp.TD367.MCR1.5. (M.C. Rains, L. Vacher, M. Norris)  
[http://serc.carleton.edu/sp/ssac/national\\_parks/examples/ROCR1](http://serc.carleton.edu/sp/ssac/national_parks/examples/ROCR1)
2011. Nitrate levels in the Rock Creek Park Watershed, Washington, DC, 2: Variability. *Spreadsheets Across the Curriculum*, Geology of National Parks Collection, Module SSACgnp.TD367.LV1.10. (L. Vacher, M.C. Rains, M. Norris)  
[http://serc.carleton.edu/sp/ssac/national\\_parks/examples/ROCR2.html](http://serc.carleton.edu/sp/ssac/national_parks/examples/ROCR2.html)
2012. What is the Discharge of the Congaree River at Congaree National Park? *Spreadsheets Across the Curriculum*, Geology of National Parks Collection, Module SSACgnp.GB.MCR1.4. (M.C. Rains and L. Vacher)

#### Presentations at Meetings (Published Abstracts)

1970. Pleistocene calcarenite lithosomes of Bermuda. *Am Assoc Petroleum Geologists Bulletin*, v. 54, no. 5, p. 873-874.
1970. Coarse and fine structure of the Bermuda eustatic curve: significance to coastal plain stratigraphy. *Abstracts with Programs Geological Society of America*, v. 2, no. 3, p. 245
1971. Bermuda's glacioeustatic stratigraphic section. *Quaternaria*, v. 15, p. 71-72 (INQUA Congress, Paris) (F.T. Mackenzie, H.L. Vacher)
1974. Diagenetic reactions as stochastic processes: application to the Bermudian eolianites. *EOS, Transactions, American Geophys GUPXNJ7P(7)NqS2010*

1988. Dupuit-Ghyben-Herzberg analysis: Residence time of fresh ground water in small islands composed of young limestones. *Abstracts with Programs, Geol. Soc. America* v. 20, no. 7, p. 172. (National Meeting, Denver) (H.L. Vacher).
1989. Holocene strand plain aquifer at Ocean Bight, Great Exuma Island, Bahamas. *Abstracts with Programs, Geol. Soc. America*, v. 21, no. 6, p. 242. (National meeting, St. Louis)(T.N. Wallis, H.L. Vacher, M.T. Stewart, P.J. Hearty, M.J. Wightman, and R.V. Cant).
1989. Dupuit-Ghyben-Herzberg analysis of fresh-water lens at Big Pine Key, Florida. *Abstracts with Programs, Geol. Soc. America*, v. 21, no. 6, p. 280. (National meeting, St. Louis) (M.J. Wightman, H.L. Vacher, M.T. Stewart).
1989. Middle Pleistocene sea-level history; elevation of Stage 7 highstand in Bermuda. *Abstracts with Programs Geol. Soc. America*, v. 21, no. 6, p. 280. (National meeting, St. Louis) (P.J. Hearty, H.A. Curran, H.L. Vacher, M.P. Rowe, R.M. Mitterer)
1991. Aminostratigraphic evidence of a large Mid-Pleistocene section in Bermuda. *Geol Soc Am Abstracts and Programs*, v. 23, no. 1, p. 43. (Southeast Section, Baltimore) (P.J. Hearty and H.L. Vacher)
1991. Karst development in the Bahama Islands and Bermuda. *Geol Soc Am Abstracts and Programs*, v. 23, no. 1, p. 107. (Southeast section, Baltimore) (J.E. Mylroie, J.L. Carew and H.L. Vacher).
1991. Ion transport within the Floridan aquifer, west-central Florida. *Geol Soc Am Abstracts and Programs*, v. 23, no. 23, no. 5, p. 269. (National Meeting, San Diego)(I.C. Jones and H.L. Vacher).
1992. Controls on salinity in Florida Bay islands. *Abstracts for 1992 Symposium on Florida Keys Regional Ecosystem*, Miami, FL. (P.A. Kramer, P.K. Swart, H.L. Vacher, and T.C. Juster).
1993. Hydrologic drive for dolomitizing fluids at Cluett Key, Florida Bay, USA. *Geological Society of America Abstracts and Programs*, v. 25, no. 6, p. 210. (National Meeting, Boston, MA) (T.C. Juster, H.L. Vacher, C. Langevin, P.K. Swart and P.A. Kramer).
1993. Use of tritium to estimate residence times of hypersaline groundwater from a Holocene island in Florida Bay, USA. *Geological Society of America Abstracts and Programs*, v. 25, no. 6, p. 91. (National Meeting, Boston, MA) (P.A. Kramer, P.K. Swart, H.L. Vacher, T.C. Juster).
1994. Numerical model of porewater fluxes in a hypothetical mud island. *Geological Society of America Abstracts and Programs*, v. 26, no. 4, p. 23-24. (Southeastern Section, Blacksburg, VA) (C.D. Langevin, H.L. Vacher, M.T. Stewart).
1994. Seasonal variation and environmental controls on solute concentration in mangrove island sediments, Florida Bay, USA. *Geological Society of America Abstracts and Programs*, v. 26, no. 7, p. 98. (National Meeting, Seattle WA) (P.A. Kramer, P.K. Swart, T.C. Juster, H.L. Vacher)
1994. Permeability structure of Holocene carbonate mud sediments from Florida Bay and implications to diagenesis. *Geological Society of America Abstracts and Programs*

- Geological Society of America Abstract with Programs*, v. 26, no. 7, p. 411 (National Meeting, Seattle, WA)(R.B. Halley, H.L. Vacher, E.A. Shinn, J.W. Harness)
1995. The hydrology and geochemistry of Holocene carbonate mud-islands in Florida Bay: Implications to early diagenesis. *Geol. Soc., Am. Abst. and Prog.*, v. 27, no. 6, p. 346 (National Meeting, New Orleans) (P.A. Kramer, P.K. Swart, T.C. Juster, H.L. Vacher)
1999. Take a look at the NCTM Principles and Standards for School Mathematics. *Geol. Soc., Am. Abst. and Prog.*, v. 31, no. 7, p. 264 (National Meeting, Denver). (H.L. Vacher).
2002. Density of the Earth -- A set of coordinated spreadsheet modules to promote quantitative literacy in geological context. *GSA Annual Meeting & Exposition, Abstracts with Programs*

2004. Springflow hydrographs: Eogenetic vs. telogenetic karst, *Abstracts with Programs, Geological Society of America* 2004 National Meeting, vol. 36, No. 5, (L.J. Florea, H.L. Vacher)
2004. Budd, D. A., Florea, L. J., Hutchings, W. C., Dewitt, D. J., Vacher, H. L., 2004, Insights to the hydrogeology of the Upper Floridan Aquifer from detailed study of its matrix permeability (poster), *Abstracts with Programs, Geological Society of America* 2004 National Meeting, vol. 36, No. 5 (D.A. Budd, L.J. Florea, W.C. Hutchings, D.J. DeWitt, H.L. Vacher).
2004. Morphology and Classification of Conduits in the unconfined Floridan Aquifer System of West-Central Florida, *2004 National Speleological Society Convention Program Guide*, p. 44. (L.J. Florea, H.L. Vacher)
2004. Conduits in the unconfined Floridan Aquifer System of West-Central Florida, Morphologic Considerations, *Abstracts and Program of the 12th Symposium of the Geology of the Bahamas*, San Salvador, Bahamas, p. 15. (L.J. Florea, H.L. Vacher)
2004. Understanding Sinkhole Development in Pinellas Count, Florida: A Complex System of Natural and Unnatural Processes, *Abstracts with Programs, American Association of Geographers* 2004 National Meeting. (R. Brinkmann, L.J. Florea, H.L. Vacher, K. Wilson).
2005. Hydrographs from the 2004 hurricane season in the eogenetic karst of the Floridan aquifer, *Abstracts with Programs, Geological Society of America* 2005 National Meeting, Paper 193-2 (L.J. Florea, H.L. Vacher, P. Butt) . 2005, The Geology Alumni Society Geopark at the University of South Florida: Community education and karst, Abstracts with Programs, Geological Society of America 2005 National Meeting, Paper 125-1 (B. Fratesi, H.L. Vacher, L. J. Florea).
2005. The role of communication in the evolution of thinking about caves and groundwater, *Abstracts with Programs, Geological Society of America* 2005 National Meeting, Paper 99-3 (L.J. Florea, H.L. Vacher).
2005. Spreadsheets across the curriculum: Using geologic time to promote quantitative literacy, *Abstracts with Programs, Geological Society of America* 2005 National Meeting, Paper 60-24 (C.E. Stringer, S.E. Fratesi, H.L. Vacher).
2005. Hydrogeologic comparison between first-magnitude springs of the Tertiary limestone aquifers of west-central Florida and the late Cenozoic basalt aquifers of the Snake River Plateau, Idaho: *Geological Society of America Abstracts with Programs*, vol. 37, No. 2 (Southeastern Region), p. 47. (L.J. Florea, H.L. Vacher)
2006. A snapshot of the body of karst literature: *Geological Society of America 2006 National Meeting*, Paper 52-4. (S.E. Fratesi, L. Florea, T. Chavez, H.L. Vacher)
2006. Matrix permeability of the unconfined Floridan aquifer: *Geological Society of America 2006 National Meeting*, Paper 40-11. (L. Florea, D.A. Budd, H.L. Vacher)
2006. Quantitative vs. mathematical literacy as illustrated by geoscience education: *Geological Society of America 2006 National Meeting*, Paper 204-6. (H.L. Vacher, S. Patterson)
2006. Earthquake Magnitude: A teaching module for the Spreadsheets Across the Curriculum initiative: *American Geophysical Union 2006 National Meeting*. (L.R. Wetzel, H.L. Vacher)



Presentations at workshops and professional organizations (no abstracts)

1999. "Why is there a problem?" (Opening session keynote) *Project Kaleidoscope (PKAL) Workshop: Building the Quantitative Skills of Non-Majors and Majors in Earth and Planetary Science Courses*, College of William and Mary, Williamsburg, Jan. 1999
1999. "Computational Geology – the Course." *Project Kaleidoscope (PKAL) Workshop: Building the Quantitative Skills of Non-Majors and Majors in Earth and Planetary Science Courses*, College of William and Mary, Williamsburg, Jan. 1999
1999. "The NCTM Standards." *Project Kaleidoscope (PKAL) Workshop: Building the Quantitative Skills of Non-Majors and Majors in Earth and Planetary Science Courses*, College of William and Mary, Williamsburg, Jan. 1999
2000. "Geological-mathematical problem solving." *National Association Geoscience Teachers Workshop: Enhancing Quantitative Skills in Geoscience courses*. Colorado College, 7/2000.
2001. "Defining the problem." *Project Kaleidoscope Institute/Workshop: Quantitative Literacy*. Snowbird, Utah, 7/2001.
2002. "Geological numeracy." *Project Kaleidoscope Institute/Workshop: Quantitative Literacy*. Williamsburg Va, 7/2002. Presentation, 7/2002
2003. "Geological Numeracy: Quantitative Literacy and Geoscience Education." *Mathematical Association of America, Florida Section* (Jacksonville) 2/03
2003. "Geology, Mathematics, and Quantitative Literacy," *USF Pi Mu Epsilon* induction ceremony (After-dinner speech to mathematics students, faculty and families), 4/24/03
2003. "Quantitative Literacy, Drug Testing and the Identification of Igneous Rocks," *Everglades Geological Society*, Calusa Nature Center, Fort Meyers, 5/20/03
2003. "Developing the QL Habit of Mind in Multiple Contexts: Geoscience Education Modules" *Washington Center for Improving the Quality of Undergraduate Education Workshop: QL across the Curriculum*, Leavenworth WA., 8/2003.
2004. "Developing the QL habit of mind in multiple contexts: Geoscience education modules" *QL Institute of The Washington Center for Improving the Quality of Undergraduate Education, Quantitative L*, Sleeping Lady Conference Center, Leavenworth WA, 8/04
2005. Session I: "Developing the QL Habit of Mind in Multiple Contexts: Geoscience Education Modules" *MAA PREP Workshop: Creating and Strengthening Interdisciplinary Programs in Quantitative*, Macalester College St. Paul. MN, 6/05 (H.L. Vacher and S.E. Fratesi)
2005. Session IV "Hands-on math - A geologist's view of teaching QL as a lab course" *First Annual Meeting of the National Numeracy Network*, Macalester College St. Paul. MN, 6/05.
2005. Washington Center Institute: *Spreadsheets across the Curriculum Workshop* (4 days), Washington Center, Olympia WA, 7/05
2006. "Role of Geoscience Education in Promoting Quantitative Literacy" (Keynote): *Science Education Resource Center Workshop: Infusing Quantitative Literacy into Introductory Geoscience Courses* 7/06







(1991), I.Jones (1991), T. Farkas (1992), J. Caballero (1993), C. Langevin (1993), K. Trout (1995), D. Ciriello (1997), M.L. Becker (1998, co-advisor), J. Harden (2005, co-advisor), W. Hutchings (2005), D. Seale (2005), Denis Voytenko (2011), Amie West (2012), Vic Ricchezza (2016)

Non-thesis program (pre-1994): M. Lodato, R. Casper, L. Knockemus, A.

Swancar, M. Lee.

Internship program: D. Brendle (USGS, 1994); T. Thomas (Rodriguez Inc, 1994); J. Broska (USGS, 1994); M. Lee (HLV, USF); Tamera Dew (ERM, 1995); J. Dozier (Fla Groundwater Services, 1995); H. Fowler (Metcalf & Eddy, 1995); L. Haller (Fla Groundwater Services, 1995); D. Rojas (Camp Dresser McKee, 1995); A. Spieler (Schreuder Inc, 1995); T. Spieler (Shreuder Inc, 1995); C. Reich (USGS, 1995); E. Swenson (USGS, 1995); K. Stelman (USGS, 1997); M. Elliot (SWFWMD, 1998); H. Barnette (USGS, 1999); H. Liaupaw (SWFWMD, 1999); R. Basso (SWFWMD, 2000); J. Coughlin (Qore, 2000); B. Goodwin (ERM, 2000); J. Hood (SWFWMD, 2000); V. Katoch (ECS, 2000); S. Kinnaman (Qore, 2000); R. Lamb (SWFWMD, 2000); K. Morrison (SWFWMD, 2000); J. Turner (Terra, 2000); K Champion (SWFWMD, 2001); M. Bateman (SWFWMD, 2001); T. Skapik (HLV, USF, 2001); Gary Foster, (Qore, 2002); D. Chan (SWFWMD, 2003); B. Armstrong (SWFWMD, 2004); Joe Haber (SWFWMD, 2005), J. Kirkpatrick (MacDill AFB, 2006)

Professional Science Masters program: John-Reid Theriac (Geosyntec, 2011), Jake Fredericks (SWFWMD, 2011), Daphanee Waters (AS&E 2012), John Ferguson (SWFWMD 2012), Joshua Yates (Cardno Entrix 2013), Marty Solomon (J Hughes, 2013), Andrew Raysin (J Hughes, 2013), Kristina Mallams (SWFWMD, 2013), Jerry Mallams (SWFWMD, 2013), Chase Swan (Arcadis, 2014), Joel Cornwall (Geoview, 2014), Wyatt Stutts (SDII Global, 2015), Brian Studiale (Jahna, 2015), Lindsey Romine (S&ME, 2016), Fran Champagne (SWFWMD, 2016), Jon Ouverson (CH2M Hill, 2016), Joel Raven (Geosyntec, 2016), Scott Lakey (ECS, 2017), Paul Maxwell (Terracon, 2017), (Stacey Coonts (SFWMD, 2017), Julie Zydek (SWFWMD, 2018).

#### Committee member:

PhD completed (Major prof): Brent Nixon (Engineering, 1995), Ping Wang (R. Davis, Geology, 1995), Gray Mullins (Engineering, 1996), Chris Langevin (M. Stewart, Geology, 1998), G. Masters (Engineering, 2000), Subrata Guha (Sarah Kruse, 2010), Dorien McGee (P. Harries, 2010), Christina Stringer (M. Rains, 2010), Aurel Persoiu (B. Onac, 2011), Marianne O'Neil Caldwell (P. Wang, 2012), Montana Puscas (B. Onac, 2013), Liana Boop (B. Onac, 2014), Gregg Jones (M. Rains, 2015), Denis Voyenko (T. Dixon, 2015), Dan Cleary (B. Onac, 2019)

MS completed (thesis track)

DeHaven, P. Kwiatkowski, T. Hagemeyer, T. Lizanec, M. Clasen, C. Beaudoin, K. Kemble-McKenna, K. Ryan, W. Hogg, J. Powers, J. Fuller, J. Spratt, D. Inglin, J. Burdick, D. Latham, M. Taraszki, T. Schneider, L. Roullier, G. Creaser, Jian Chen, S. Schellenberg, K. Morrison, B. Silverman, J. Pekala, A. Bahtijarevic, J. Kling, N. Kugler, M. Goddard, P. Barnard, B. Shoemaker, P. Barnard, N. Elko, N. Purcell, C. Albury, M. Thompson, D. Meadows, K. Moore, K. Wilson (ESP), J. White, L. Soto (ESP). J. LaRoche, Kali Pace-Graczyk, J. Sumrall, B. Szenay, D. Davis, D. Cleary

PhD in progress (Major prof.): D. Davis (P. Wang), Meghan Cook (J. Ryan), Jessica Mejia (J. Gulley), Charlie Breithaupt (J. Gulley), Christy Bebeau (J. Ryan).

MS in progress (thesis):

At Other institutions

