

ALLEN JOHNSON DENNIS (August, 2023)

EDUCATION

Ph.D., geology, University of South Carolina, 5/89. Major professor: Donald T. Secor, Jr.

M.S., geology, University of South Carolina, 5/85. Thesis director: D.T. Secor, Jr.

A.B., geology, Colgate University, Hamilton, NY, 5/82.

EXPERIENCE

Carolina Trustee Professor (awarded May 2010, Trustees of the University of South Carolina); **SCANA Chair in Physical Sciences** (8/05-5/23), USC Aiken.

Harold Orville Whitnall, 1901 Professor of Geology (5/02-12/02); Colgate University, teaching Structural Geology, History of Life. Taught field methods in Adirondacks and Wyoming (Seminoe Reservoir area; two weeks, Summer 02). Met regularly (six times) with Dean of Faculty/Provost to discuss Strategic Planning and faculty governance issues.

Professor (7/00-present), **Chair, Department of Biology and Geology** (7/98-6/04), **Associate Professor** (tenured, 7/95-6/00), **Assistant Professor** (8/92-7/95), **Research Assistant Professor** (8/90-8/92) & **Instructor of Geology** (8/88-8/92); University of South Carolina Aiken, teaching physical, Earth systems through time, environmental geology, integrated earth science, mineralogy and structural geology lecture and lab sessions and special topics courses in structure and tectonics and graduate courses in structural geology and earth science education.

Graduate Faculty, University of South Carolina, Columbia, 1996-2001. Co-director of one Ph.D. and one M.S. thesis; member of four other M.S. committees. 2001-2006, member of three Ph.D. committees at University of South Carolina and University of Peshawar, Pakistan.

HONORS AND SERVICE

Trip leader, Geological Society of America: 5) "Structural Analysis of the Kiokee belt, and its framing elements: Savannah River transect," 4/16; "4) "Geology of Ediacaran-Middle Cambrian rocks of the western Carolina terrane in South Carolina," 11/12; 3) "Neoproterozoic Arc Terranes of the Eastern Piedmont of South Carolina and Georgia, and Their Alleghanian Tectonothermal Overprint," 3/07; 2) "Newberry, SC Eclogite: Structural Setting and Style of Occurrence," 3/00; 1) Geological transect through the suspect terranes of the Appalachian Piedmont, 4/88.

Carolina Geological Society Annual Meeting **Organizer and Field Trip Leader**, **2014:** Recognizing the Cambrian Rheic margin of Carolina in the Kings Mountain terrane, Spartanburg, SC, 10/14; Annual Meeting **Co-Organizer and Field Trip Leader**, **2000:** Savannah River Site Environmental Remediation Systems in Unconsolidated Upper Coastal Plain Sediments – Stratigraphic and Structural Considerations, Aiken, SC, 11/00; Annual Meeting **Organizer and Field Trip Leader**, **1995:** Geology of the Western Part of the Carolina Terrane in Northwestern South Carolina, Spartanburg, SC, 10/95. **President**, 1997-98, Carolina Geological Society; Elected to the CGS Board 10/95; board member through 11/99; re-elected to CGS Board 10/12, 10/15 service through 2018; **Vice President**, 96-97.

Citationist, 2013 Best Publication Award [Hibbard, J.P., van Staal, C., Rankin, D., and Williams, H., 2006, Lithotectonic map of the Appalachian Orogen, Canada-United States, Geological Survey of Canada, Map 2096.], Geological Society of America, Structure and Tectonics Division, presented at Annual Meeting, Denver, CO; **2008 Best Paper Award** [Thomas, W.A., 1977, *American Journal of Science*, v. 277, p. 1233-1278.], Geological Society of America, Structure and Tectonics Division, presented at Annual Meeting, Houston, TX. [see <http://rock.geosociety.org/sgt/BestPaperAward.htm>]

Co-convenor, Symposia: 6) Geology of the Carolinas: 75th Anniversary of Carolina Geological Society, 2012 Annual Meeting, Geological Society of America, Charlotte, NC; 5) Evolution of Appalachian-Ouachita salients and recesses from reentrants (embayments) and promontories in the continental margin: Thirtieth anniversary celebration of advances derived from Bill Thomas' 1977 *American Journal of Science* paper, 2007 Annual Meeting, Geological Society of America, Denver, CO; 4) Structure and Tectonics Symposium in Honor of Donald T. Secor, Jr. Southeastern Section GSA, March 23-24, 2000, Charleston, South Carolina; 3) Scholarship in the Geosciences - Beyond Academia, 11/95, held at Annual Meeting, New Orleans; 2) Carolina/Avalon terrane boundaries in the Appalachians, held at combined northeast/southeast meeting, 4/91, Baltimore; 1) Southern Appalachian shear zones: Southeastern section meeting, 4/88, Columbia, SC.

University of South Carolina Board of Trustees, appointed (by President Pastides) to **Academic Affairs and Faculty Liaison Committees**, 7/10-8/11.

Elected **Chair, Faculty Assembly**, University of South Carolina Aiken, March 2008, 2009, 2010. Concurrent service: Faculty Advisory, Faculty Welfare, Campus Budget, Strategic Planning, and Campus Technology Committees; South Carolina Council of Faculty Senate Presidents; Major achievements during term(s): Significant revision of General Education Requirements, Clarification of Promotion and Tenure Requirements.

Prior service: Chair, Faculty Advisory Committee; Nominating Committee; Courses and Curriculum, New Faculty Orientation (three year terms).

Since 2011: Chancellor's Budget and Planning Committee (2021-2023); Budget Prioritization and Sustainability Committee (2021, co-chair); Annual Faculty Evaluation Review Committee (2016-2018); Geology Faculty Search committee (2 FT positions; 2015-2016); Chair, ad hoc committee to draft Faculty Senate Bylaws (2013-2014); Salary Enhancement Prioritization Plan Committee, 2014; Judicial Advisors Pool (2011-present).

University of South Carolina Aiken, 50th Anniversary Planning Committee.

Elected **Fellow**, Geological Society of America, April 2002; **Nominated to GSA Council**, December, 2006, Nov, 2009; **GSA Committee on Membership** 7/07-6/10; **GSA Committee on Research Grants** 7/04-6/08; **Chair**, Southeastern Section Management Board, Geological Society of America, 2002-3; Chair-elect, 01-02; Vice-Chair, 00-01; Geological Society of America (Southeastern Section) **Research Grants Committee**, 94-04; **Chair**, Geological Society of America Structure and Tectonics Division, Short Course Committee, 1998; member of committee 1996-1998.

Scholarly Activity Award, University of South Carolina Aiken, April 2008: for work done 2002-2007.

International Basement Tectonics Association (July) 2004 Conference: 4-D Framework of the Continental Crust – Integrating Processes Through Time: Knoxville, TN; **Post Conference Field Excursion Organizing Committee.**

Strategic Planning Steering Committee, USC-Aiken, 10/01 – 8/03; **Chair**, Administrative Programs Review Committee; **Vice Chair**, Budget and Planning Action Team; **SACS Reaccreditation Committee**: Institutional Effectiveness: Academic Programs, 1998-2001; **Institutional Planning Cabinet**, 94-97.

Invited participant, GSA Penrose Conferences, 3) Three-dimensional flow, fabric development and strain in deformed rocks and significance for mountain building processes – New Approaches, 8/02; 2) Transpressional Tectonics of Convergent Plate Margins, 8/90; 1) Terranes in the Circum-Atlantic Paleozoic Orogens, 5/85.

External (member) review team, Dept of Geography and Geology, University of Nebraska Omaha, 2/03. **External Peer Review**: For faculty members at North Carolina State University, University of North Carolina-Charlotte, Furman University, Mount Holyoke College (2x), SUNY Geneseo, Mount Royal University (Calgary, Alberta) at the request of their chairs.

Biggs Earth Science Teaching Award, Geological Society of America, 10/94. Served on Selection Committee for Biggs Award, 1995.

Governor's Distinguished Professor Award, South Carolina Commission on Higher Education, 1995 [finalist Professor of the Year].

Editor, South Carolina Geology, volumes 37 and 38, 1995.

President, Central Savannah River Area Geological Society, 95-96; **Vice President**, CSRAGS (responsible for 12 monthly technical programs), 94-95. Councilor, 96-98.

Editorial citation, Geological Society of America Bulletin, for outstanding reviews 1991, 1992, 1993.

Invited scholarship participant, IV Summer School, Geologic and Petrologic Analysis of Plutonic Complexes, Università of Siena, 9-10/90.

Graduate Career: Graduate Career Award in Natural Sciences, University of South Carolina, presented by Sigma Xi, 4/89; Graduate Faculty Representative, 1987-1988; Shear Criteria Meeting, Imperial College, London, 5/86; Full Membership, Sigma Xi, Spring 1986; Taber Research Award, University of South Carolina Geology Department, 1985.

REFEREED PAPERS

DENNIS, A.J., Shervais, J.W., Maher, H.D., Jr., 2023, Structural inheritance in Carolinia, external to the excised Rheic suture: Savannah River Site, South Carolina, U.S.A., in Nance, R.D., and others, eds, *Supercontinents, Orogenesis and Magmatism*, Special Publication 542, Geological Society of London, p. 315-340, <https://doi.org/10.1144/SP542-2022-359>.

DENNIS, A.J., Miller, B.V., Hibbard, J.P., Tappa, E., Thunell, R.C., 2020, Gondwanan fragments in the Southern Appalachians in Murphy, B., Strachan, R. and Quesada, C. eds, *Pannotia To Pangea: Neoproterozoic and Paleozoic orogenic cycles in the circum-North Atlantic region*, Special Publication 503, Geological Society of London, p. 469-480, <https://doi.org/10.1144/SP503-2019-249>.

- Ettensohn, F.R., and nine others, 2020, Late Devonian limestones, diamictites, and coeval black shales from the Appalachian Basin: Discerning relationships and implications for Late Devonian Appalachian history and glacial driven seafloor anoxia, in Avari, K.L., Hasson, K.O., and Dieckho, R.J., eds., *The Appalachian Geology of John M. Dennison*, Geological Society of America Special Paper 545, p. 67-88. [https://doi.org/10.1130/2020.2545\(05\)](https://doi.org/10.1130/2020.2545(05)).
- DENNIS, A.J., 2007, Cat Square basin, Catskill clastic wedge: Silurian-Devonian orogenic events in the central Appalachians and the crystalline southern Appalachians, in Sears, J., Harms, T.A., and Evenchick, C., eds., *Whence the Mountains? Inquiries into the Evolution of Orogenic Systems: A volume honoring Raymond A. Price*, Geological Society of America Special Paper 433, p. 313–329, doi: 10.1130/2007.2433(15).
- (Primary geological contributor to) Hibbard, J.P., van Staal, C., Rankin, D., and Williams, H., 2006, *Lithotectonic map of the Appalachian Orogen, Canada-United States*, Geological Survey of Canada, Map 2096, 2 sheets, 1:1,500,000 scale.
- DENNIS, A.J., Shervais, J.W., Mauldin, J., Maher, H.D., Jr., and Wright, J.E., 2004, Petrology and geochemistry of Neoproterozoic arc terranes beneath the Atlantic Coastal Plain, Savannah River Site, South Carolina: Geological Society of America Bulletin: v. 116, p. 572-593.
- Shervais, J.W., DENNIS, A.J., J.J. McGee, and D.T. Secor, Jr., 2003, Deep in the heart of Dixie: Pre-Alleghanian eclogite and HP granulite metamorphism in the Carolina terrane, South Carolina, USA: *Journal of Metamorphic Geology*, v. 21, p. 65-80.
- Hibbard, J.P., Stoddard, E.F., Secor, D.T., Jr and DENNIS, A.J., 2002, The Carolina Zone: Overview of Neoproterozoic to early Paleozoic peri-Gondwanan terranes along the eastern flank of the Southern Appalachians: *Earth-Science Reviews*, v. 57, p. 299-339.
- DENNIS, A.J. and Wright, J.E., 1997, The Carolina terrane in northwestern South Carolina, USA: Age of deformation and metamorphism in an exotic arc: *Tectonics*, v. 16, 460-473.
- ____ and Shervais, J.W., 1996, The Carolina terrane in northwestern South Carolina, USA: Insights into the development of an evolving island arc, in Nance, R.D. and Thompson, M.D., eds., *Avalonian and related peri-Gondwanan terranes of the circum-North Atlantic*: Geological Society of America Special Paper 304, p. 237-256.
- ____, 1995, The Carolina terrane in northwestern South Carolina: Relative timing of events and recent tectonic models in Hibbard, J.P., van Staal, C.R., and Cawood, P.A., eds., *New perspectives in the Appalachian-Caledonian Orogen*: Geological Association of Canada Special Paper 41, p. 173-190.
- ____ and Wright, J.E., 1995, Mississippian (ca. 326-323 Ma) U-Pb crystallization ages for two granitoids in Spartanburg and Union Counties, South Carolina: *South Carolina Geology*, v. 38, p.23-28.
- ____ and Shervais, J.W., 1992, Arc rifting along the Carolina terrane boundary in northwestern South Carolina: Reply to Comment by S.K. Mittweide: *Geology*, v. 20, p.473-475.
- ____, 1991, Is the Central Piedmont suture a low-angle normal fault?: *Geology*, v. 19, p.1081-1084.
- ____ and Shervais, J.W., 1991, Arc rifting along the Carolina terrane boundary in northwestern South Carolina: *Geology*, v. 19 p.226-229.

- ____ and Secor, D.T., 1990, On resolving shear direction in foliated rocks deformed by simple shear: *Geological Society of America Bulletin*, v. 102, p.1257-1267.
- ____ and Secor, D.T., 1987, A model for the development of crenulations in shear zones with applications from the southern Appalachian Piedmont: *Journal of Structural Geology*, v. 8, p. 809-817.

FIELD GUIDES AND REPORTS

- DENNIS, A.J., 2016, Structural analysis of the Kiokee belt and its framing elements: Savannah River transect, in Doar, W.R. ed., *Gold, Structures, and Landforms, in Central South Carolina – Field Guides for the 2016 GSA Southeastern Section Meeting, Columbia, South Carolina*: Geological Society of America, doi:10.1130/2016.0042(03).
- DENNIS, A.J., 2014, *Recognizing the Cambrian Rheic margin of Carolina in the Kings Mountain terrane, Carolina Geological Society Annual Meeting and Field Trip (Oct 31-Nov 2, 2014)*, 36 p.
- DENNIS, A.J., Shervais, J.W., and LaPoint, D., 2012, Geology of Ediacaran-Middle Cambrian rocks of the western Carolina terrane in South Carolina, in Eppes, M.C. and Bartholomew, M.J., eds., *From the Blue Ridge to the Coastal Plain: Field Excursions in the Southeastern United States: Geological Society of America Field Guide 29*, p. 303-325. doi:10.1130/2012.0029(09).
- DENNIS, A.J. and Secor, D.T., 2007, Neoproterozoic arc terranes of the Eastern Piedmont of South Carolina and Georgia, and their Alleghanian tectonothermal overprint, in Rich, F. ed., *Guide to Field Trips 56th Annual Meeting, Southeastern Section, Geological Society of America*, Savannah, Georgia, Department of Geology and Geography Contributions Series #1: Georgia Southern University, Statesboro, GA, p. 111-128. (ISBN 097886501)
- DENNIS, A.J., 2004, Southern Appalachian Crustal Transect: Day 4. Overview of recent developments in the geology of the central Piedmont of South Carolina, in Mersch, A.J. and Hatcher, R.D., eds., *Trans-Appalachians Internides Geotraverse: 17th International Basement Tectonics Association Field Trip Guidebook*, p. 67-84.
- ____, Shervais, J.W., and Maher, H.D., Jr., 2000, Outline of the geology of Appalachian basement rocks underlying the Savannah River Site, Aiken, SC, in Wyatt, D.E. and Harris, M.K., eds., *Savannah River Site Environmental Remediation Systems in Unconsolidated Upper Coastal Plain Sediments – Stratigraphic and Structural Considerations (WSRC-MS-2000-606): Carolina Geological Society Field Trip Guide*: Columbia, South Carolina Geological Survey, p. E-1 – E-19.
- ____, Secor, D.T., and Shervais, J.W., 2000, Newberry (SC) eclogite: Structural setting and style of occurrence, in C. Abate and A.H. Maybin, eds., *Compendium of field trips of South Carolina geology, with emphasis on the Charleston, South Carolina Area (Southeastern Section Meeting, Geological Society of America)*: Columbia, South Carolina Geological Survey, p. 29-38.
- ____, Butler, J.R., Garihan, J.M., Ranson, W.A., and Sargent, K.A., 1995, Geology of the Carolina terrane in northwestern South Carolina: *South Carolina Geology*, v. 37, p. 1-29.
- ____, 1993, Compilation of regional geology: Geology of the Abbeville, Aiken, Clarks Hill, Newberry, and Spartanburg, South Carolina 1:100,000 sheets: SCUREF Task 14 Final Report: Aiken, SC, Westinghouse Savannah River Technology Center, 31 p., 3 appendices, 7 plates.

- _____, 1992, A brief review of emplacement of granitoids in shear zones: Proceedings of IV Summer School on "Petrological and Structural Analysis of Plutonic complexes," Siena, Italy: Universita degli Studi di Siena, Consiglio Nazionale delle Ricerche, p. 37-41.
- _____, October, 1989, Critical evaluation of possible conduits for hydrothermal fluids in the slate belt of central North Carolina: Kershaw, SC, Piedmont Mining Co., 15 p.
- Secor, D.T., DENNIS, A.J., Maher, H.D., and Sacks, P.E., 1989, Geology and terrane analysis of the eastern Piedmont, South Carolina and Georgia, in Dallmeyer, R.D. ed., *Tectonostratigraphic expression of terrane accretion in the Southern Appalachian orogen: A geotraverse excursion, The University of Georgia, I.G.C.P. 233 Guidebook Series*, p.8-25 - 8-91 and p.9-1 - 9-17.
- DENNIS, A.J., 1988, Preliminary report on the geology of the Glenn Springs-Jonesville area and tectonic model, with road log, in Secor, D.T. ed., *Southeastern geologic excursions*, South Carolina Geological Survey, Columbia, p.226-249.
- _____, Sacks, P.E., and Maher, H.D., 1987, Nature of the late Alleghanian strike-slip deformation in the eastern South Carolina Piedmont: The Irmo shear zone, in Secor, D.T. ed., *Anatomy of the Alleghanian orogeny as seen from the Piedmont of South Carolina and Georgia: Carolina Geological Society 1987 Guidebook*, South Carolina Geological Survey, Columbia, p.49-66.
- Sacks, P.E. and DENNIS, A.J., 1987, The Modoc zone - D₂ (early Alleghanian) in the eastern Appalachian Piedmont, South Carolina and Georgia, in Secor, D.T. ed., *Anatomy of the Alleghanian orogeny as seen from the Piedmont of South Carolina and Georgia: Carolina Geological Society 1987 Guidebook*, South Carolina Geological Survey, Columbia, p.19-34.
- PAPERS PRESENTED (unless otherwise noted, abstracts are published in Geological Society of America Abstracts & Programs: GSA A&P)
- DENNIS, A.J., 2019, Hydrothermal alteration of late Paleozoic Appalachian mylonite zones: precursor to Central Atlantic Magmatic Province volcanism: Gordon Research Conference: Interior of the Earth, 6/2 – 6/7, Mount Holyoke College, S Hadley, MA.
- DENNIS, A.J., 2016, Gondwanan fragments in the Southern Appalachian Piedmont: Session 3: Regional tectonics II – non-Cordillera: 4th Biennial Structural Geology and Tectonics Forum, 2016, Rohnert Park, CA, Sonoma State University, p. 30.
- DENNIS, A.J., 2015, Fragments of western Gondwana in the Southern Appalachians: Gordon Research Conference: Interior of the Earth, 6/7 – 6/12, Mount Holyoke College, S Hadley, MA.
- DENNIS, A.J., 2015, Recognizing the Cambrian Rheic margin in the Kings Mountain terrane of Carolina: Joint Assembly: American Geophysical Union-Geological Association of Canada-Mineralogical Association of Canada- Canadian Geophysical Union, (SE21A-06) p. 77.
- DENNIS, A.J., 2015, Gondwanan fragments in the Southern Appalachians, GSA A&P, 47/2, p. 34.
- DENNIS, A.J., 2014, The central Piedmont shear zone of the Southern Appalachian Piedmont: Keynote, Session 5: Structural geology of natural resources and regional tectonics: 3rd Biennial Structural Geology and Tectonics Forum, 2014, Colorado School of Mines, p. 43. (program, abstract volume, presentation available for download @ http://serc.carleton.edu/NAGTWorkshops/structure/2014_Forum_index.html)

- DENNIS, A.J., 2014, Silurian-Carboniferous tectonics of the central and southern Appalachians, *GSA A&P*, 46/5, p. 24.
- DENNIS, A.J. and Miller, B.V., 2013, Leaving Peri-Gondwana: Middle Cambrian (Series 2) and younger Kings Mountain terrane, Carolina, South Carolina-North Carolina, U.S.A., *GSA A&P*, 45/7, p. 293.
- DENNIS, A.J., and Baker, M.R., 2012, Carolinian Rheic trailing margin, *GSA A&P*, v. 44/7, p. 483.
- DENNIS, A.J. Baker, M.R., Tappa, E.J., and Thunell, R.C., 2012, Rheic trailing margin chronostratigraphy: Battleground and Blacksburg Formations, Kings Mountain terrane, Southern Appalachian Orogen, U.S.A.: *GSA A&P*, v. 44/7, p. 591.
- DENNIS, A.J., 2012, Carolinian tectonics: *GSA A&P*, v. 44/7, p. 198.
- DENNIS, A.J., Shervais, J.W., and Maher, H.D., Jr., 2011, Subsurface crystalline terranes of South Carolina: *GSA A&P*, v. 43/5, p. 437.
- DENNIS, A.J., 2010, Mesozoic hydrothermal alteration of Paleozoic Appalachian mylonite zones: *GSA A&P*, v. 42/1, p. 99.
- _____, 2009, Snowball's chance in Dixie: Evaluating the lithostratigraphic evidence for Marinoan or Gaskiers glaciation in the Peri-Gondwanan terranes of the Southern Appalachians, U.S.A.: International Geological Correlation Project 497 The Rheic Ocean and its correlatives: The Iapetus and Rheic margin of northwest Gondwana, and the Evolution of the Iberian-Armorican Arc: Salamanca, Spain, p. 295-297.
- Ettensohn, F.R., Lierman, R.T., Mason, C.E., DENNIS, A.J., Anderson, E.D., 2008, Kentucky dropstones and the case for Late Devonian alpine glaciation in the Appalachian basin (USA) with implications for Appalachian tectonics and black-shale sedimentation: *GSA A&P*, v. 40/6, p. 393.
- DENNIS, A.J., 2008, Snowball's chance in Dixie: I. Evaluating the lithostratigraphic evidence for Marinoan-Varangian or Gaskiers glaciation in the Battleground and Blacksburg Formations of South Carolina and adjacent North Carolina, U.S.A.: *GSA A&P*, v. 40/4, p. 68.
- _____, 2008, Silurian extension in the central Piedmont, southeastern United States and the origin of a Middle Paleozoic basin in the Carolinas-Georgia segment of the Southern Appalachians: *GSA A&P*, v. 40/3, p. 76.
- _____, 2007, Salinic basins and terrane dispersal in the Appalachian hinterland: *GSA A&P*, v. 39/6, p. 233.
- _____, 2007, Two Southern Appalachian Piedmont Paleozoic unconformities and their significance: *GSA A&P*, v. 39/2, p. 9.
- _____, 2006, Wenlock-Ludlow post-accretionary terrane dispersal in the central Appalachians: The Carolina and Cat Square terranes and the Salinic basins of the Northern Appalachians: International Geologic Correlation Project 497: The Rheic Ocean and its correlatives; Evora (Portugal) Meeting: Instituto Geológico y Minero de España, Madrid, p. 23-24.
- Ahmad, I., DENNIS, A.J., and Shervais, J.W., 2006, Basement-cover decollement, basement duplexes, and normal faults at the edge of a tectonic suture, lower Swat, North West Frontier Province, Pakistan: *Journal of Asian Earth Sciences (Special #, 21st Himalaya-Karakorum-Tibet Workshop)*, v. 26, p. 122.

- DENNIS, A.J., 2006, Cat Square terrane of the southern Appalachian Piedmont: Correlation with Northern Appalachian Salinic basins and magmatism: GSA A&P, v. 38/2, p. 73.
- _____, 2006, Cat Square terrane of the southern Appalachian Piedmont: A post-accretionary Salinic basin recording terrane dispersal: GSA A&P, v. 38/3, p. 8.
- _____, 2005, Mississippian-Devonian dextral collision in the central Appalachians: Evidence from the Catskill-Pocono clastic wedge and the southern Appalachian Inner Piedmont: GSA A&P, v. 37/7, p. 304.
- _____, 2005, Mississippian-Devonian dextral collision in the central Appalachians: Evidence from the Catskill-Pocono clastic wedge and the southern Appalachian Piedmont: International Geologic Correlation Project 497: The Rheic Ocean and its correlatives; Portsmouth, England, July 5, 2005.
- _____, 2005, Provenance of polymictic conglomerates in the Catskill-Pocono clastic wedge: Implications for the Inner Piedmont of the Carolinas and Devonian Mississippian collisional tectonics in the central Appalachians: GSA A&P, v. 37/1, p. 65.
- _____, 2005, Middle Paleozoic clastic wedge provenance, dextral collision, and the Southern Appalachian Inner Piedmont: The Specht Kopf and Rockwell Formations of the Central Appalachians as tectonic markers: GSA A&P, v. 37/2, p. 5.
- DENNIS, A.J. and Shervais, J.W., 2004, Ca. 626 Ma to 619 Ma Pen Branch/Deep Rock volcanic arc terrane underlying the U.S. D.O.E. Savannah River Site, South Carolina: GSA A&P, v. 36/2, p. 105.
- DENNIS, A.J., 2003, Fault zone diagenesis as a record of fluid-rock interaction along the Pen Branch fault zone, US DOE Savannah River Site, subsurface southern Appalachians: Institute for Geophysics and Planetary Physics (Los Alamos National Lab) Workshop on Fluid Flow and Transport through Faulted Igimbrites and other Porous Media, September 8-10, Ghost Ranch, Santa Fe, NM.
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- _____, and Stevenson, D., 2002, Placing recent seismicity at the Savannah River Site (South Carolina) in the context of repeated faulting throughout the Phanerozoic: GSA A&P, v. 34/1, p.A-31.
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- _____, 2001, Pseudotachylytes at the Savannah River Site recovered from deep coreholes: Characteristics and constraints on timing: Eastern Section, Seismological Society of America, 73rd Annual Meeting, Columbia, SC, p. 7.
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- the Carolina slate belt-Charlotte belt boundary: Geological Association of Canada-Mineralogical Society of Canada Programs, v. 26, p. 27.
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- DENNIS, A.J., Shervais, J.W., and Secor, D.T., 2000, Faults bounding eclogite-bearing gneisses, Newberry, South Carolina: GSA A&P, v. 32/2, p. A-14.
- Shervais, J.W., DENNIS, A.J., Secor, D.T., and McGee, J., 2000, Tectonic setting of the Newberry eclogite-granulite and its implications for the origin of the Carolina composite terrane: GSA A&P, v. 32/2, p. A-73.
- Hibbard, J., Stoddard, E.F., Secor, D.T., and DENNIS, A.J., 2000, The Carolina Realm: Overview of the exotic terranes along the eastern flank of the southern Appalachians: GSA A&P, v. 32/2, p. A-26.
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- Hibbard, J.P., and DENNIS, A.J., 1999, Developing model for the southern Appalachians, GSA A&P, v. 31/1, p. A-20.
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GRANT ACTIVITY

- Co-I, Upgrade of Electron Microprobe for Earth Science and Materials Research at the University of South Carolina, 167,000\$, NSF GEO-0841461, PI: Gene Yogodzinski, 2/1/2009-1/31/2011.
- SHRIMP analytical costs: Testing the hypothesis that sedimentary rocks of the Devonian-Mississippian Spechtly Kopf and Rockwell Formations of the Central Appalachians are derived from the Inner Piedmont of South Carolina, 7500\$, Vice President for Research and Health Sciences, University of South Carolina, 1/1/05-12/31/05.
- PI, Eclogite and granulite facies metamorphism of the Carolina arc terrane: Implications for pre-Alleghanian collision tectonics in the Southern Appalachians, NSF EAR-9805159, 119,000\$, 8/15/98-8/14/00. Coinvestigator: John W. Shervais.
- Co-I, South Carolina EDMAP: Eclogite and granulite facies metamorphism of the Carolina arc terrane, 9600\$, PI: John W. Shervais, 8/15/98-5/30/99.
- Co-I, Acquisition of a new X-ray fluorescence spectrometer: the University of South Carolina X-ray fluorescence laboratory, 90,400\$. PI: John W. Shervais, Co-I, J. McGee.
- PI, SCUREF Task 170: Compilation of regional geology: Phase II. 208,090\$, 9/15/94-6/9/97. Co-investigators: Shervais; Paul Thayer, UNC-Wilmington; Harmon Maher, U Nebraska. Six graduate students and a dozen undergraduate students worked on and paid on this task Summer 95-97.
- Co-I, NSF Research Experience for Undergraduates, c. 135,000\$, 6/1/95 - 8/30/96.
- PI, Research and Productive Scholarship, Analog modeling of some common shear zone structures, 2,606\$, 4/1/93 - 10/1/94.
- PI, SCUREF Task 14: Compilation of regional geology: Phase I. 197,595\$, 10/1/90 - 9/30/93. Co-investigators: W.C. Fallaw, D. Lawrence, J. Shervais, and D.T. Secor.