

ALLEN JOHNSON DENNIS (December 2008)

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Education
Experience
Honors and Service
Refereed Papers
Field Guides and Reports

Papers Presented
Grant Activity
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Personal

Education

Ph.D., geology, University of South Carolina, 5/89. Dissertation title: Tectonogenesis of an accreted terrane: The Carolina arc in the Paleozoic. Major professor: Donald T. Secor, Jr.

M.S., geology, University of South Carolina, 5/85. Thesis title: A model for the development of crenulations in shear zones with applications from the southern Appalachian Piedmont. Thesis director: D.T. Secor, Jr.

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

Experience

SCANA Chair in Physical Sciences (8/05-5/11); University of South Carolina Aiken.

Harold Orville Whitnall '01 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 03). 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) and *Instructor of Geology* (8/88-8/92); University of South Carolina-Aiken, teaching physical, historical, environmental geology, integrated earth science, mineralogy and structural geology lecture and laboratory sessions as well as special topics courses in structure and tectonics and graduate courses in structural geology and earth science education.

Responsibilities as Chair: Supervise and evaluate twelve tenure track faculty and two staff; 800,000\$ budget; scheduling for 200 majors/1100 Gen. Ed. students. Prepare Annual Unit Program Review reviewing productivity, FTE's, assessment results and response, plans and needs. Recruit and orient part-time faculty. Recruit new and transfer students including transcript evaluation and orientation.

*Meet weekly with Academic Council (fourteen chairs, school heads and Vice Chancellor for Academic Affairs). Review policies, scheduling and personnel, budget, technology, and equipment priorities. Sec'y of Budget Prioritization (1999, 2000, 2001). Review Faculty Annual Reports and the Administrative Evaluations of 150 FT faculty.

*Teach nine to twelve contact hours/semester .

Most notable achievements as Chair:

- * Created a climate supportive of faculty research resulting in awards in excess of 730,000\$, 1999-2004 (NIH, NOAA, DOE, NSF).
- * Initiated a student research grant program that has awarded over 50,000\$ over the past 10 years (1999-2008); initiated an academic year seminar series that has brought over 200 researchers on campus for talks (1999-2008) and provided an organized forum for students to present their independent research each semester.
- * Identified, applied for, and received over 140,000\$ in grant, foundation, and endowment funds to purchase lab equipment used in faculty and undergraduate student research.

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. Since 2001, member of Ph.D. committees at University of South Carolina and University of Peshawar, Pakistan.

Teaching Assistant (1/84-5/88); University of South Carolina, field methods and structural geology: teaching field methods, preparation & interpretation of geologic maps and cross sections, and finite strain analysis for Dr's R.D. Hatcher and D.T. Secor. 1/84 - 6/87. Environmental and physical geology, for Dr's J.H. Carpenter and W.H. Kanus. 8/87 - 5/88; Director of senior undergraduate research project (Spring 1984): Development of microstructures in the mylonites of the Modoc zone, South Carolina Piedmont.

Instructor, Colgate University field camp, southern New England (Summer 1983); Supervisor: Dr. James McLelland. 6-8/83.

Supervisor of work done in the geochemistry lab of Colgate University (9/82 - 6/83), under the direction of Dr. Richard April. Prepared, analyzed, and interpreted juvenile soil samples from acidic watersheds in the Adirondacks and the Southern Appalachian Blue Ridge using XRF/XRD facilities at Colgate.

Honors and Service

Citationist, 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.

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

Elected **Chair, Faculty Assembly**, University of South Carolina Aiken, March 2008. Prior service: Chair, Faculty Advisory Committee; Nominating Committee; Courses and Curriculum, New Faculty Orientation (three year terms).

Elected **Fellow**, Geological Society of America, April 2002; Nominated to GSA Council, December, 2006; **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.

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.

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.

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.

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, at the request of their chairs.

Co-convener, Symposia: 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.

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**.

Trip leader, Geological Society of America: 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.

President, 1997-98, Carolina Geological Society; 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. Elected to the CGS Board 10/95; board member through 11/99, **Vice President**, 96-97.

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, University 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

Ettensohn, F.R., Lierman, R.T., Mason, C.E., DENNIS, A.J., Anderson, E.D., 2008, Kentucky dropstone “ices” the case for Late Devonian alpine glaciation in the central Appalachians (USA): Implications for Appalachian tectonics and black-shale sedimentation: *Geology*, submitted, September 2008.

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).

DENNIS, A.J., 2008, Cat Square terrane of the southern Appalachian Piedmont: A post-accretionary Salinic basin recording terrane dispersal, to be submitted to *American Journal of Science*.

DENNIS, A.J., Maher, H.D., Shervais, J.W., Uzzelle, G.H., Repeated Phanerozoic reactivation of a southern Appalachian fault zone beneath the up-dip coastal plain of South Carolina, in prep.

Ahmad, I., DENNIS, A.J. and Shervais, J.W., Tectonostratigraphy of the Indian Plate south of the Main Mantle Thrust, Himalayas: Lower Swat, Northwest Frontier Province, Pakistan, to be submitted to *Journal of the Geological Society of London*.

(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. Mittwede: 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. 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 Merschat, 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. (Available @ <http://www.usca.sc.edu/geology/CGS/1995Fieldguide.html>)
- _____, 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.
- _____, 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 indicated all are published in Geological Society of America Abstracts with Programs: GSA A&P)

- 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, in press.
- 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 Spechty 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.
- _____, 2002, Repeated Phanerozoic reactivation of a southern Appalachian fault zone: Geological Society of America Penrose Conference: Three dimensional flow, fabric development and

- strain in deformed rocks and significance for mountain-building processes- New Approaches, Monte Verita, Ascona, Switzerland, p. 23-24.
- _____, 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.
- _____, Shervais, J. and Secor, D.T., Jr., 2001, Constraints on assembly of the Carolina composite terrane in the southern Appalachian Piedmont: Role of eclogite- high P granulite facies rocks in central South Carolina: *GSA A&P*, v. 33/6, p. A.
- _____, 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.
- _____, 2001, Reference stations for continuous GPS in the intraplate region of the eastern US are necessary for the Plate Boundary Observatory and can help solve geodynamic problems in the eastern US: *Earthscope Workshop, Snowbird, Utah*, p. 85-86.
- _____, and Shervais, J., 2001, Recognizing a terrane boundary internal to the Carolina composite terrane, southern Appalachian Piedmont: Eclogite-granulite facies metamorphism north of the Carolina slate belt-Charlotte belt boundary: *Geological Association of Canada-Mineralogical Society of Canada Programs*, v. 26, p. 27.
- _____, Shervais, McGee, J. and Secor, D.T., Jr., 2000, Recognizing a terrane boundary internal to the Carolina composite terrane, southern Appalachian Piedmont: Eclogite-granulite facies metamorphism north of the Carolina slate belt-Charlotte belt boundary: *GSA A&P*, v. 32/7, p. A234-A235.
- 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.
- Shervais, J.W., and DENNIS, A.J., 1999, "Deep" in the heart of Dixie: Pre-Alleghanian eclogite and granulite metamorphism in the core of the Carolina terrane (?), South Carolina: *GSA A&P*, v. 31/1, p. A-67.
- Hibbard, J.P., and DENNIS, A.J., 1999, Developing model for the southern Appalachians, *GSA A&P*, v. 31/1, p. A-20.
- DENNIS, A.J., Wright, J.E., Maher, H.D., Mauldin, J.C., and Shervais, J.W., 1997, Repeated Phanerozoic reactivation of a southern Appalachian fault zone beneath the up-dip coastal plain of South Carolina: *GSA A&P*, v. 29/6, p. 223.
- Ahmad, I., DENNIS, A.J., and Shervais, J.W., 1997, Basement-cover decollement, basement duplexes, and normal faults on the edge of a suture zone: *GSA A&P*, v. 29/6, p.45.

- Mauldin, J.C., Shervais, J.W., and DENNIS, A.J., 1997, Petrologic and structural constraints on the classification of crystalline basement beneath the Savannah River Site, SC: GSA A&P, v. 29/6, p. 455.
- DENNIS, A.J., and Wright, J.E., 1997, New U-Pb monazite ages for the Inner Piedmont of South Carolina: GSA A&P, v. 29/3, p. 12.
- DENNIS, A.J., Maher, H.D., Shervais, 1997, Tectonic inheritance at the Savannah River Site, SC: GSA A&P, v. 29/3, p.12.
- Ahmad, I. and DENNIS, A.J., 1997, Normal faulting south of the Main Mantle Thrust, Swat, Northwest Himalayas, Northwest Frontier Province, Pakistan: GSA A&P, v. 29/3, p. 1.
- Bolton, L.J., Cross, B.J., Uzzelle, G.H., and DENNIS, A.J., 1997, Geology of the Modoc zone in the Colliers 7.5' quadrangle, South Carolina: GSA A&P, v. 29/3, p. 6.
- Bolton, L.J. and DENNIS, A.J., 1997, Mesoscopic structures, Worcester Basin Border Fault Region, England: Bulletin of the South Carolina Academy of Science, v. 59, p. 76.
- Cross, B.J., Bolton, L.J., Uzzelle, G.H., and DENNIS, A.J., 1997, Geology of the Modoc zone in the Colliers 7.5' quadrangle, South Carolina: Bulletin of the South Carolina Academy of Science, v. 59, p. 83.
- Mauldin, J.C., Shervais, J.W., and DENNIS, A.J., 1997, Geochemistry and petrology of metaigneous from an exotic arc terrane, Savannah River Site, South Carolina: GSA A&P, v. 29/3, p. 57.
- Shervais, J.W., McGee, J., DENNIS, A.J., and Secor, D.T., 1997, Amphibolitized Group B eclogite from Newberry, South Carolina: Paleozoic crustal thickening in an exotic arc: GSA A&P, v. 29/3, p. 69.
- DENNIS, A.J., Maher, H.D., and Pray, J.R., 1995, Character and relative ages of brittle structures in basement cores, Savannah River Site, South Carolina: GSA A&P, v. 27, p. 282.
- Maher, H.D., and DENNIS, A.J., 1995, Character and relative ages of ductile structures in basement cores beneath the Savannah River Site, SC: GSA A&P, v. 27, p. 283-4.
- Dennis, T.G.M., and DENNIS, A.J., 1995, Geologic field mapping with ninth graders in South Carolina: GSA A&P, v. 27, p. 93.
- DENNIS, A.J., Shervais, J.W., and Wright, 1995, Intrusion and deformation in an active volcanic arc: Carolina terrane, northwest South Carolina, ca. 540 Ma: GSA A&P, v. 27, p. 48.
- _____, Wright, J.E. and Secor, D.T., 1994, Late Precambrian-Early Cambrian orogeny in the South Carolina Piedmont: New Perspectives in the Appalachian-Caledonian Orogen, Geological Association of Canada Nuna Conference, Grand Falls, Nfld., 12-13 August, p. 10.
- _____, Wright, J.E., Barker, C.A., Pray, J.R., and Secor, D.T., 1993, Late Precambrian-Early Cambrian Orogeny in the South Carolina Piedmont: GSA A&P, v. 25, p. 484.
- Secor, D.T., Jr., DENNIS, A.J., Pray, J.R., and West, T.E., 1993, The significance of stable orientation of shear bands and recognizing transpression in shear zones: GSA A&P, v. 25, p. 477.

- DENNIS, A.J. and Wright, J.E., 1993, New Late Precambrian-Cambrian U-Pb zircon ages for zoned intrusives in the western Carolina terrane, Spartanburg and Union counties, South Carolina: GSA A&P, v. 25, p. 12.
- Secor, D.T., and ten others, 1992, The Alleghanian orogeny in the Southern Appalachians: Perspective from the Hinterland: GSA A&P, v. 24, p. 290.
- DENNIS, A.J. and Shervais, J.W., 1991, Style and significance of sheared serpentinite fault rocks, Stonyford, northern California Coast Ranges: GSA A&P, v. 23, p. 236.
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- _____ and Secor, D.T., 1986, The role of foliation slip in the formation of crenulations in shear zones, presented at the Shear Criteria Meeting, Imperial College, London.
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Grant Activity

- 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 (Furman Univ., deceased), D. Lawrence, J. Shervais, and D.T. Secor.

Reviewer:

- Geological Society of America Bulletin, Geological Society of America Special Papers, Journal of Petrology, Geological Society of London, Journal of Structural Geology, Tectonics, Economic Geology, Tectonophysics, Chemical Geology, Southeastern Geology, American Journal of Science, Journal of Geology.
- National Science Foundation, International Science Foundation, Petroleum Research Fund of the American Chemical Society.

Professional societies

- American Geophysical Union, member since 1982.
- Geological Society of America, member since 1983. Elected Fellow, 2002.
- Carolina Geological Society, member since 1983.
- Sigma Xi, Scientific Research Society, Full member, since 1986
- International Association of Structural and Tectonic Geologists, charter member (1991).

- Central Savannah River Area Geological Society, charter member (1992).

Personal

- 48 years old, excellent health, m. Terry Minchin of Whitingham, VT; two children.
- 1978 graduate, Augusta Preparatory School, Augusta, GA.
- Interested in drawing, Darwiniana, and bicycle riding and repair. USA Swimming Official (Georgia LSC, Starter, Stroke and Turn Judge (N3 pending)), Board member Aiken-Augusta Swim League, 04-06; Scoutmaster, 11/07 – present, Troop Committee Chair, 07/06-10/07 (BSA Troop 110, Yemassee District, Georgia-Carolina Council; Wood Badge SR-691; OA Bobwhite Lodge #87). Old-time music generally and that of the five-string banjo in particular.
- Spent Summer 1985 bicycle camping in the UK, Ireland, and Europe.