**Timothy Michael Chowns**

Department of Geosciences, University of West Georgia, Carrollton, GA 30118

**Education** University of Newcastle upon Tyne, England, PhD 1968

University of Leicester, England, BSc 1963

**Experience** 2011 – Present Professor Emeritus; Geology; University of West Georgia

1981 - 2011 Professor, Geology; University of West Georgia

1976 - 1981 Associate Professor, Geology; West Georgia College

1973 - 1976 Assistant Professor, Geology; West Georgia College

1968 - 1972 Visiting Assistant Professor, Geology; University of Georgia

1966 – 1968 Demonstrator in Geology; University of Newcastle upon Tyne, England

**Courses taught**

GEOL 1121 Physical Geology

GEOL 1122 Historical Geology

GEOL 2503 Oceanography

GEOL 3003 Field Methods

GEOL 3042 Optical Mineralogy

GEOL 3053 Sedimentary Petrology

GEOL 4033 Stratigraphy/Geochronology

GEOL 4074 Regional Applications of Field Geology

GEOL 4082 Geologic Problems

GEOL 4501 Geology Seminar

**Research** Sedimentology and Stratigraphy; Stratigraphy and Depositional Environments of Paleozoic rocks in the Valley and Ridge Province of the Southern Appalachians, Pre-Cretaceous rocks beneath the Southeastern Coastal Plain. Petrology of Sedimentary Ironstones, Carbonates, Cherts and Evaporites. Coastal Stratigraphy

**Professional affiliations**

Geological Society of America, (1971 - present) Chairman Southeastern Section, GSA (1991 - 92)

Society for Sedimentary Geology (1968 - present)

Georgia Geological Society (President 1976 - 1977, Treasurer 1993-present)

**Publications**

Chowns, T.M., 1968, Environmental and Diagenetic Studies of the Cleveland Ironstone Formation of Northeast Yorkshire. Unpublished Ph.D. thesis (Geology), University of Newcastle upon Tyne, England.

Chowns, T.M., 1966, Depositional Environment of the Cleveland Ironstone Series; Nature, 211, p. 1286-1287.

Chowns, T.M., 1970, A Chamosite-Hematite Oolite from the Sequatchie Formation in Northwest Georgia; Bull. Ga. Acad. Sci., Vol. 28, p.s19 (Abstract).

Chowns, T.M., 1971, Stratigraphy of the Ordovician and Silurian Section Exposed in the Ringgold Road Cuts: A Proposed Geological Monument; Bull. Ga. Acad. Sci., Vol. 29, p. 123 (Abstract).

Chowns, T.M., Elkins, J.E., 1971, Origin of Geodes from the Fort Payne Formation, Woodbury, Tennessee; Geol. Soc. Amer. Abs. with Programs, Vol. 3, p. 303 (Abstract).

Chowns, T.M., 1972, Recurrent Sabkha Facies in the Mississippian of the Eastern Interior, U.S.A.; Geol. Soc. Amer. Abs. with Programs, Vol. 4, p. 67 (Abstract).

Chowns, T.M., 1972 (compiler), Sedimentary Environments in the Paleozoic Rocks of Northwest Georgia; Georgia Geol. Surv. Guidebook 11 (1972), p. 101.

Chowns, T.M., 1972, Depositional Environments in the Upper Ordovician of Northwest Georgia and Southeast Tennessee; Georgia Geol. Surv. Guidebook 11, p. 3-12.

Chowns, T.M., 1972, Molasse Sedimentation in the Silurian Rocks of Northwest Georgia; Georgia Geol. Surv. Guidebook, 11, p. 13-23.

Frey, R.W., Chowns, T.M., 1972, Trace Fossils from the Ringgold Road Cut (Ordovician and Silurian), Georgia; Georgia Geol. Surv. Guidebook 11, p. 24-44

Chowns, T.M., 1972, Promolasse Sedimentation in Silurian Rocks of the Southern Appalachians; Geol. Soc. Amer. Abs. with Programs, Vol. 4, p. 274 (Abstract).

Chowns, T.M., 1972, Review of "Geologic Reference Sources: a Subject and Regional Bibliography of Publications and Maps in the Geological Sciences; by Dederick C. Ward, Marjorie W. Wheeler, and Mark W. Pangborn, Jr.; Southeastern Librarian, Vol. 23, p. 36-37.

Chowns, T.M., Elkins, J.E., 1974, The Origin of Quartz Geodes and Cauliflower Cherts through the Silicification of Anhydrite Nodules; Jour. Sedimentary Petrology, Vol. 44, p. 885-903.

Chowns, T.M., 1976, Paleogeography of the Pre-Cretaceous surface beneath the Georgia Coastal Plain; A reassessment; Bull. Ga. Acad. Sci., Vol. 34, p. 82 (Abstract).

Chowns, T.M., 1976, (compiler), Stratigraphy, Structure and Seismicity in Slate Belt Rocks along the Savannah River; Georgia Geol. Surv. Guidebook 16, 76, p.

Waters, J.A., Chowns, T.M., 1977, An Occurrence of Kinkaid Age Pterotocrinus species at Rising Fawn, Georgia; Georgia Jour. Sci., Vol. 35, 83, p. (Abstract).

Chowns, T.M., 1977, (compiler), Stratigraphy and Economic Geology of Cambrian and Ordovician Rocks in Bartow and Polk Counties, Georgia; Georgia Geol. Soc. 12th Annual Meeting, 20 p.

Chowns, T.M., Waters, J.S., 1978, The Lookout Valley Fault and thinskinned thrusting beneath Lookout Mountain, Georgia; Geol. Soc. Amer. Abs. with Programs, Vol. 10, p. 165 (Abstract).

Chowns, T.M., 1978, Pre-Cretaceous Geology beneath Georgia Coastal Plain; Amer. Assoc. Pet. Geol., Annual Meeting, p. 55 (Abstract).

Chowns, T.M., Higgins, M.W., Pickering, S.M., 1978, A New Core from the Felsic Volcanic Terrain beneath the Southeast Georgia Coastal Plain, Georgia Jour. Sci., Vol. 35, p. 92 (Abstract).

Ortiz, A.S., Chowns, T.M., 1978, A New Reference Section for the Knox Group in Northwest Georgia; Georgia Jour. Sci., Vol. 36, p. 89 (Abstract).

Sellars, B.D., Chowns, T.M., 1978, Petrology of Ironstones from the Deaton Member of the Lenoir Limestone (Middle Ordovician), Polk County, Georgia; Georgia Jour. Sci., Vol. 36, p. 90 (Abstract).

Wallace, B., Chowns, T.M., 1978, Calcite and aragonite crystal fabrics in speleothems from Ladd's Quarry, Bartow County, Georgia, Georgia Jour. Sci., Vol. 36, p. 90 (Abstract).

Lovingood, D.A., Chowns, T.M., 1979, Paleocurrent analysis of Sandstone in Northwest Georgia; Georgia Jour. Sci., Vol. 37, p. 83 (Abstract).

Reid, B.J., Chowns, T.M., 1979, Depositional environment of algal stromatolites; Georgia Jour. Sci., Vol. 37, p. 83 (Abstract).

Chowns, T.M., McKinney, F.K., 1981, Depositional facies in Middle-Upper Ordovician and Silurian rocks of Alabama and Georgia: in Frey, R.W., Excursions in Southeastern Geology, V. 2, p.323-348, American Geol. Inst.

Chowns, T.M., 1981, Recognition of the Sequatchie Formation (Upper Ordovician) in the Armuchee Ridges of Northwest Georgia, Georgia Jour. Sci., V. 39, p. 65 (Abstract).

Chowns, T.M., Williams, C.T., 1983, Pre-Cretaceous rocks beneath the Georgia Coastal Plain - regional implications, in Gohn, G.S. (ed.) Studies related to the Charleston, South Carolina, earthquake of 1886 - tectonics and seismicity, U.S. Geol. Survey Professional Paper 1113L,42p

Chowns, T.M., 1983, Paleozoic Florida and the African Connection, Geol. Soc. Amer. Abstracts with Programs 1983, V.15, p. 66 (Abstract).

Chowns, T.M., 1984, Pre-Cretaceous rocks beneath the Coastal Plain of the Southeastern U.S.A.; correlations with west Africa, Trav. Lab. Sci. Terre, St. Jerome, Marseille (B), No. 24, p. 42- 43.

Chowns, T.M., 1985, Alluvial sedimentation in the Newark Group (Triassic-L. Jurassic) of the subsurface South Georgia Basin, Geol. Soc. Amer., Abstracts with Programs, V. 17, p. 66 (Abstract).

Chowns, T.M., 1986, Petrology of Lower Jurassic Chamosite-Siderite Ironstones from Northeast England, Amer. Assoc. Petroleum Geol. Bull., V. 70, p. 573 (Abstract).

Carter, B.D., Chowns, T.M., 1986, Stratigraphic and environmental relationships of Middle and Upper Ordovician rocks in northwestern Georgia and northeastern Alabama; in Benson, D.J., and Stock, C.W. (eds.), Depositional history of the Middle Ordovician of the Alabama Appalachians; Alabama Geol. Soc. Ann. Field Trip 23, p. 33-50.

Chowns, T.M., 1986, A reinterpretation of the Rome, Helena, and Gadsden faults in Alabama; a preliminary report; in Benson, D.J., and Stock, C.W., (eds.), Depositional history of the Middle Ordovician of the Alabama Appalachians; Alabama Geol. Soc. Ann. Field Trip 23, p. 51-60.

Rindsberg, A.K., Chowns, T.M., 1986, Ringgold Gap: Progradational sequences in the Ordovician and Silurian of northwest Georgia; in Neathery T.L. (ed.), Geol. Soc. Amer. Centennial Field Guide, V. 6, p. 159-162.

Thomas, W.A., Chowns, T.M., Daniels, D.L., Neathery, T.L., Glover, L., Gleason, R.J., 1989, The subsurface Appalachians beneath the Atlantic and Gulf Coastal Plains: in Hatcher, R.D., Thomas, W.A., Vide, G.W., (eds.), The Appalachian-Ouachita Orogen in the United States, Geol. Soc. Amer., The Geology of North America, V. F-2, p. 445-457.

Chowns, T.M., 1989, Stratigraphy of Major Thrust Sheets in the Valley and Ridge Province of Georgia in Fritz, W.J., (ed.), Excursions in Georgia Geology, Georgia Geol. Soc. Guidebook, V. 9, No. 1, p.211-238.

Carter, B.D., Chowns, T.M., 1989, Stratigraphic and environmental relationships of Middle and Upper Ordovician rocks in Northwest Georgia and Northeast Alabama: in Keith, B.D., (ed.), The Trenton Group (Upper Ordovician Series) of Eastern North America, Deposition, Diagenesis, Petroleum, Amer. Assoc. Petrol. Geol. Studies in Geology 29, p. 17-26.

Chowns, T.M., 1989, Record of Paleozoic tectonism in the Valley and Ridge Province of Georgia and Alabama: in Tectonostratigraphic expression of terrane accretion in the Circum-Atlantic Paleozoic orogens; Univ. of Georgia, International Geological Correlation Program, Project 233, p. 13-15 (Abstract).

Chowns, T.M., 1989, Structure and Stratigraphy of the Valley and Ridge Province in Georgia and Alabama: in Dallmeyer, R.D., (ed.), Tectonostratigraphic expression of terrane accretion in the southern Appalachian orogen: a geotraverse excursion; Univ. of Georgia, International Geological Correlation Program, Project 233, Guidebook, V. 4, p. 1-1 to 1-19, 2-1 to 2-28.

Chowns, T.M., Sanders, R.P., O'Connor, B.J., Fridell, M.S., Connell, D.A., 1992, The Knox Group southeast of Graysville, Catoosa County, Georgia: a reference section, Georgia Jour. Sci., V. 5, p. 34-35 (Abstract).

Chowns, T.M., O'Connor, B.J. (eds.), 1992, Cambro-Ordovician strata in Northwest Georgia and Southeast Tennessee; the Knox Group and the Sequatchie Formation, Georgia Geol. Soc. Guidebook, V. 12, No. 1, 157 p.

Chowns, T.M., Sanders, R.P., Connell, D.A., O'Connor, B.J., Friddell, M.S., 1992, Stratigraphy and sedimentology of the Knox Group at Graysville Gap, Catoosa County, Georgia: in Chowns, T.M., O'Connor, B.J., (eds.), Georgia Geol. Soc. Guidebook, V. 12, No. 1, p. 5-38.

Chowns, T. M., Bolton, J.C., 1993, Sequence stratigraphy of the Red Mountain Formation (Lower Silurian) in Alabama and Georgia, Geol. Soc. America, Abstracts with Programs, V. 25, p. A362. (Abstract)

Chowns, T. M., 1994, Siliceous karst, paleosols and speleothems from the Knox Group (Cambro- Ordovician), Georgia; Geol. Soc. America, Abstracts with Programs, v. 26, p. 7-8. (Abstract)

Chowns, T. M., 1994, Sequence stratigraphy of the Red Mountain Formation (Lower Silurian) in Alabama and Georgia; Georgia Journal of Science v. 52, p.50.(Abstract)

Villella, A.C.V., Chowns, T. M., 1995, Silicified karst and paleosols in lowstand systems tracts of the Knox Group (Cambro-Ordovician) of northwest Georgia: Georgia Journal of Science v.53, no.1, p. 36.

LaTour, T.E., Chowns, T. M., Fritz, W.J., 1995, Geochemistry of Mesozoic sedimentary rocks from the Dunbarton rift basin, SC: evidence for protacted deposition by mass flow: Geol. Soc America, Abstracts with Programs, v. 27, no. 6 p. A-254. (Abstract)

LaTour, T.E., Fritz, W.E., Chowns, T. M., 1996, Geochemical evidence for arid Mesozoic-age climate in GA and SC: Geol. Soc. America, Abstracts with Programs, v. 28, no. 2. p.19. (Abstract)

Chowns, T. M., 1996, Sequence stratigraphy of the Silurian Red Mountain Formation in Alabama and Georgia *in* Sedimentary environments of Silurian Taconica ed. T.W.Broadhead; University of Tennessee, Studies in Geology 26, p.31-67.

Chowns, T. M., Fritz, W.J., 1997, Depositional facies in the concealed Early Mesozoic Dunbarton basin, Savannah River Site, South Carolina: Geol. Soc. America, Abstracts with Programs, v.29, no. 3, p. 9.

Chowns, T. M., 1997, The geology of Georgia; a tale of two oceans: Fernbank Quarterly, v. 22, no. 3 & 4, p. 6-11.

Chowns, T. M., Rollins, R. P., 1998, What importance evaporites in the formation of collapse breccias in the Knox Group of the southern Appalachians?: Geol. Soc. America, Abstracts with Programs, v. 30, no. 4, p. 7. (Abstract).

Rollins, R. P., Chowns, T. M., 1998, Depositional sequences in Holocene-Pleistocene sediments from vibracores on Jekyll Island, Georgia: Georgia Journal of Science v. 56, p. 53. (Abstract)

Brett, C. E., Baarli, B.G., Chowns, T. M., Cotter, E., Driese, S., Johnson, M. E., 1998, Early Silurian condensed horizons, ironstones, and sequence stratigraphy in the Appalachian foreland basin: New York Museum of Natural History Bull. 491, p. 89-143.

Vance, D. J., Chowns, T. M., 1999, Delineation of Pleistocene and Holocene depositional environments in vibracores from Jekyll Island, Georgia: Georgia Journal of Science v. 57, p. 54. (Abstract)

Chowns, T. M., 1999, Ironstones in the Silurian Red Mountain Formation of the southern Appalachians; insights from sequence stratigraphy and computer models: Geol. Soc. America, Abstracts with Programs, v. 31, no. 3, p. A10. (Abstract).

Chowns, T. M., Holland, S. M., Elliot, W.C., 1999, An introduction to sequence stratigraphy: illustrations from the Valley and Ridge province in Georgia and Alabama: Georgia Geological Society Guidebook, v. 19, no.1, p. 1-50.

Chowns, T. M., 1999, Sequence stratigraphy: the basics: Georgia Geological Society Guidebook, v.19, no. 1, p. 1-9.

Chowns, T. M., 1999, Sequence stratigraphy: illustrations from the Silurian Red Mountain Formation of the southern Appalachians: Georgia Geological Society Guidebook v. 19, no. 1, p. 11-26.

Kogel, J.E., Pickering, S. M., Shelobolina, E., Yuan, J., Chowns, T. M., Avant, D. M., 2000, Geology of the commercial kaolin mining district of central and eastern Georgia: Georgia Geological Society Guidebook, v. 20, no. 1, 92 p.

Chowns, T.M., Schultz, B.S., 2002, Beach ridges on the northern end of Jekyll Island, Georgia: Georgia Journal of Science, v. 60, p. 77.

Chowns, T. M., Schultz, B.S., Griffin, J.R., 2002, Jumping inlets, spits and islands on the Georgia coast, USA: Geological Society of America, Abstracts with Programs, v.34, no. 2, p. A-110.

Griffin, J.R., Schultz, B.S., Chowns, T.M., 2002, Holocene changes at St. Simons Sound, Jekyll Island, Georgia, USA: Geological Society of America, Abstracts with Programs, v. 35, No 2, p. 349.

Chowns, T.M., 2002, Origin of sedimentary ironstones in the light of sequence stratigraphy of (Silurian), Birmingham iron ores, Alabama, USA: Geological Society of America, Abstracts with Programs, v. 35, No 6, p. 207.

Chowns, T.M., 2004, Tectonic loading-unloading as controls on Silurian sequence stratigraphy in the Appalachian foreland basin; Geological Society of America, Abstracts with Programs, v. 36, No 2, p. 89.

Chowns, T.M., Kath, R.L., 2004, (eds), Paleozoics, northwest Georgia: structure, seismicity, geomorphology, hydrology and economic geology; Georgia Geological Society Guidebook v.24, 90 p.

Chowns, T.M., Kath, R.L., Groshong, R.H., 2004, Are the Wills Valley, Lookout Valley and McLemore Cove anticlines parts of a duplex? Georgia Geological Society Guidebook v. 24, p.13-23.

Holloway, J. L., Chowns, T.M., 2005, Sedimentation in Vesicles: interpretation of geopetal fabrics in amygdaloidal agates; Geological Society of America, Abstracts with Programs, v. 37, no. 2, p.11.

Chowns, T.M., 2006 (ed), Quaternary stratigraphy and depositional environments; Jekyll Island and the Golden Isles Parkway; Georgia Geological Society Guidebook v. 26 108 p.

Chowns, T.M., Schultz, B.S., Griffin, J.R., 2006, Recent changes on Jekyll Island, Georgia, caused by relocation of Brunswick River; Georgia Geological Society Guidebook v. 26, p. 1-14.

Chowns, T.M., 2006 (ed), Birmingham ironstone: sequences, deposition and mining history; Alabama Geological Society Guidebook 43 Annual Field Trip, 121 p.

Chowns, T.M., 2006, Sequence stratigraphy of the Red Mountain Formation; setting for the origin of the Birmingham ironstones; Alabama Geological Society Guidebook 43, Annual Field Trip, p.1-30.

Chowns, T.M., 2006, Appalachian Plateau Geologic Province: New Georgia Encyclopedia: [www.georgiaencyclopedia.com](http://www.georgiaencyclopedia.com)

Chowns, T.M., 2006, Valley and Ridge Geologic Province: New Georgia Encyclopedia: [www.georgiaencyclopedia.com](http://www.georgiaencyclopedia.com)

Chowns, T. M. 2007, Anatomy of an Unconformity; Geological Society of America, Abstracts with Programs v. 39, no. 2, p 8.

Chowns, T. M. Schultz, B. S, Griffin, J. R., 2007, Changes in inlet location at Jekyll Island, Georgia, related to Holocene transgression and stillstand; Geological Society of America, Abstracts with Programs v. 39, no 2, p. 72.

J. B. Stogner, T. M. Chowns, 2007, A Paleosol from the Bangor Limestone (Mississippian) near Collinsville, Alabama; Georgia Journal of Science, v. 65, p.42.

Chowns, T.M., Schultz, B.S., Griffin, J.R., Crook, M.R., 2008, Relocation of Brunswick River and other estuaries on the Georgia, USA coast as a consequence of Holocene transgression; Southeastern Geology v. 45, p. 143-159.

Chowns, T.M., Stogner J.B., 2008, Relocation of inlets on the Georgia coast: Is Blackbeard Island the southern tip of St. Catherines spit? Georgia Journal of Science, v. 66.

Chowns, T.M., Stogner J.B., 2008, Is Blackbeard Island on the Georgia coast the southern tip of St. Catherines spit? Geological Society of America Abstracts with Programs v. 40, no. 4 p.72.

Chowns, T.M., 2008, Stratigraphy and cyclic sedimentation in the Early Ordovician, Upper Knox Group, Polk County, northwest Georgia: Georgia Geological Society Guidebook v. 28, p. 43-53.

Chowns, T.M., 2008, A new occurrence of Bald Cypress in a paleosol on the Silver Bluff Formation exposed on the beach of Jekyll Island, GA. Georgia Journal of Science, v. 67, no. 1, p. 52.

Chowns, T.M., 2009, The Riddleville Basin, Mesozoic rifting, and the Suwannee-Wiggins suture; Georgia Geological Society Guidebook v. 29, p. 71-78.

Chowns, T.M., Kath, R.L., Sanders, R.P., 2010, Lavender Mountain anticline and the related Lavender Mountain fault: Georgia Geological Society Guidebook v. 30, p. 27-32.

Chowns, T.M., 2010, Faulting; Encyclopedia of Geography: Sage Reference Online: www.sagepub.com

Chowns, T.M., 2011, Drainage changes at Ossabaw, St. Catherines and Sapelo Sounds and their influence on island morphology and spit building on St. Catheirnes Island on the coast of Georgia, U.S.A.; American Museum of Natural History, Anthropological Papers No 94, p.163-182.

Chowns, T.M. 2012, Change in the balance between wave and tide-dominated strands as a consequence of rising sea levels in the Georgia Bight, USA: Geological Society of America, Abstracts with Programs v. 44. no. 7

Chowns, T.M., Ivester, A.H., Kath, R.L., Hanson, P. R., 2012, Radiometric dating supports contention that Blackbeard Island is the tip of St. Catherines spit on the Georgia coast, USA: Geological Society of America, Abstracts with Programs v. 44. no. 7

Chowns, T.M., 2013, A popular stratigraphy exercise for undergraduates based on well-logging from artificial cuttings: Geological Society of America, Abstracts with Programs v. 45, no.2, p. 17.

Chowns, T.M., Ivester, A.H., Kath, R.L., Meyer, B.K., Thomas, D.H., 2014, A new hypothesis for the formation of the Georgia Sea Islands through the breaching of the Silver Bluff Barrier and dissection of the Ancestral Altamaha-Ogeechee drainage: Geological Society of America, Abstracts with Programs v. 46, no. 3, p. 3.

Chowns, T.M., Hill, S.H., 2014, Did the Altamaha River originally enter the Atlantic at St. Andrews Sound?: Georgia Journal of Science v. 72, no. 1, p. 53.

Chowns, T.M., Rindsberg, A. K., 2015, Stratigraphy and depositional environments in the Silurian Red Mountain Formation of the southern Appalachian basin, USA, *in* Holmes, A.E., ed., Diverse Excursions in the Southeast: Paleozoic to Present: Geological Society of America Field Guide 39, p. 95-143.

**Research grants**

1971 Recipient of $1,500 grant from the U.S. Geological Survey to investigate Silurian stratigraphy and ironstones in northeast Alabama in cooperation with Dr. Richard Shelton, Chief Geologist, U.S. Geological Survey.

1973-76 Co-recipient of $40,000, inter-institutional grant (Emory University, West Georgia College, Georgia Southwestern College) sponsored by the U.S. Geological Survey and Georgia Geological Survey, to investigate Pre- Cretaceous rocks beneath the Georgia Coastal Plain.

1986-87 Faculty Research Grant, $1,000 for "Structural Geology of Coosa Coalfield Area, Alabama." 1987-88

Faculty Research Grant, $1,000 for "Field trip to West Africa to compare the geology of Mauritania and the Southeastern U.S."

1987-88 Grant from Georgia Geological Survey, $2,250 for "Stratigraphy of the Knox Group (Cambro-Ordovician) near Graysville, Georgia."

1989-93 Grant from Georgia Geological Survey, $17,300 for "Well logs of the Knox Group (Cambro-Ordovician) in Polk County Georgia."

1990-91 Faculty Research Grant, $1,000 for "Geologic mapping in Lookout Valley, Dade County, Georgia."

1991-92 W.G.C. Foundation Student Work Program (FSWP) Grant of $952 for a study of the "Petrology of Limestones and Dolostones from the Knox Group in Polk County, Northwest Georgia."

1992-93 W.G.C. Foundation Student Work Program (FSWP) Grant of $1,350 for a study of the "Petrology of Limestones and Dolostones from the Knox Group in Polk County, Northwest Georgia."

1993-94 W.G.C. Foundation Student Work Program (FSWP) Grant of $1,350 for a study "Petrology of Limestones and Dolostones from the Knox Group in Polk County, Northwest Georgia."

1994-95 ERDA Grant No 93045 "Investigation of Triassic Basin Sediments - Savannah River Site", $26,130.

1996-97 Faculty Research Grant, $750 for study of “ Petrology of Middle Ordovician rocks near Dalton, Northwest Georgia”.

1999-00 Faculty Research Grant, $680 for research on “A Triassic reptile from South Carolina”.

2000-01 Faculty Research Grant, $550 for research on “Origin of breccias from the Maynardville Formation in northwest Georgia”

2003-04 Faculty Research Grant, $1500 for research on “Radiometric dating of sediments from Jekyll Island, Georgia”

2008-09 Faculty Research Grant, $1500 for research on “Is Blackbeard Island on the Georgia coast the southern tip of St. Catherines spit?”

2008-09 St. Catherines Island Research Program grant of $3500 for “Optically stimulated luminescence dating of dune ridges from St. Catherines spit.

2010-11 St. Catherines Island Research Program grant of $3500 for “Is Blackbeard Island the southern end of Cracker Tom Spit?”

2010-11 Teaching Earth Systems Science in High School; Improving Teacher Quality State Grants Program; with Judy Cox. Stephanie Miles and Brandy Freeman (consultants). $42,925

2011-12 Teaching Earth Systems Science in High School; Improving Teacher Quality State Grants Program; with Judy Cox. Stephanie Miles and Brandy Freeman (consultants). $51, 868

**Honors**

1960-63 Essex County Major Exhibition (undergraduate tuition and maintenance scholarship). 1963-66 British Department of Scientific and Industrial Research Scholarship (graduate tuition and maintenance scholarship).

1972 Outstanding Teacher in Geology; awarded by geology majors and graduate students at the University of Georgia.

1976-77 President, Georgia Geological Society.

1987-88 President, Carrollton Optimist Club

1989-90 Lieutenant Governor, Georgia District, Optimist International

1991-92 Chairman, Southeastern Section, Geological Society of America

1994-2014 Treasurer, Georgia Geological Society

1996 Teacher of the Year 1996, Chi Omega Sorority, State University of West Georgia

1997 Nominee from UWG for Regents’ Teaching Excellence Award

2001-2 President, Southeastern Section, SEPM (Society for Sedimentary Geology)

2008-9 Distinguished Professor, College of Arts & Sciences, University of West Georgia

2014-15 President, Georgia Geological Society