

CURRICULUM VITAE
CURTIS LEE HOLLABAUGH

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Educational Background:

B.S. in Geology, Edinboro State College (Now Edinboro University of Pennsylvania), 1973.

Ph.D. Geology, Washington State University, 1980. Thesis title: *The experimental mineralogy and crystal chemistry of sphene in the system silica-titanium-aluminum-calcium-water-fluorine*. Thesis co-advisors Philip E. Rosenberg and Franklin F. Foit

Employment History:

2002-present Chair, Department of Geosciences, UWG

1991-present Professor of Geology, WGC and UWG

1986-1991 Associate Professor of Geology, WGC

1981-1986 Assistant Professor of Geology, WGC

1978-1981 Instructor of Chemistry and Geology, Winthrop University

Teaching:

Courses taught:

1. Physical Geology, GEOL 1121
2. Mineralogy and Crystallography, GEOL 3014
3. Geochemistry, GEOL 4014
4. Geological Problems, GEOL 4082
5. Environmental Geochemistry, GEOL 4083
6. Environmental Studies, XIDS 2102
7. Geology Seminar, GEOL 4501

Undergraduate Research:

I have developed close connections between teaching and research. I have directed numerous student researches in mineralogy, geochemistry, environmental geochemistry, topaz rhyolites, watershed assessment, water quality, lead pollution of drinking water and paint, arsenic leaching from pressure treated wood, experimental mineralogy, and X-ray diffraction.

Professional Growth:

Publications

Peer Reviewed Papers

Names in blue are UWG student

1. **Hollabaugh**, C.L. and P.E. Rosenberg, 1983, Substitution of Ti for Si in titanite and new end-member cell dimensions for titanite. *American Mineralogist*. 68, p.177-180.
2. **Hollabaugh**, C.L. and F.F. Foit, Jr., 1984, The crystal structure of an Al-rich titanite from Grisons, Switzerland. *American Mineralogist*. 69, p. 725-732.
3. **Quillian**, S.M. and C.L. **Hollabaugh**, 1984, The William Weinman Mineral Center and Museum, Cartersville, Georgia. *Rocks and Minerals*. 59, p. 283-285.
4. **Hollabaugh**, C.L. and **W.H. Carr**, 1986, Phase relations in the pseudobinary system $\text{Na}_2\text{Ti}_2\text{Si}_2\text{O}_9\text{-Na}_2\text{TiSi}_4\text{O}_{11}$. *Journal of the American Ceramic Society*. 69, C-27 to C-28.
5. **Hollabaugh**, C.L. and **V.L. Purcell**, 1987, Garnet Hill, White Pine Country, Nevada. *Mineralogical Record*. 18, p. 195-198.
6. **Hollabaugh**, C.L., **B.D. Robertson** and **V.L. Purcell**, 1989, The petrology and vapor phase mineralogy of rhyolite and tuffs from Garnet Hill, White Pine County, Nevada. *Northwest Science*. 63, p. 201-210.
7. **Hollabaugh**, C.L., **J.M. Callahan**, **S.J. Warner**, **R.L. Kath** and **J.D. DeCinque**, 1989, Anatase pseudomorphs after titanite from Fulton County, Georgia and their experimental synthesis. *Southeastern Geology*. 30, p. 121-135.
8. **Gordon**, J.B., Jr. and C.L. **Hollabaugh**, 1989, Phosphate microminerals of Indian Mountain, Cherokee County, Alabama and Polk County, Georgia. *Mineralogical Record*. 20, p. 355-362.
9. **Chambers**, J.G., C.L. **Hollabaugh**, **P.L. Gertenbach**, **A.G. Wood** and **G.M. York**, 1992, Nitrate, pH, and total Ca^{2+} - Mg^{2+} monitoring of the Little Tallapoosa River, Carroll County, Georgia. *Georgia Journal of Science*. 50, p. 146-159.
10. **Hollabaugh**, C.L., **C.L. Adams**, **J.M. Barnes**, **C.A. Crews**, **T.C. Carter**, **A.P. Miguel** and **R. M. York**, 1994, Nitrate and pH Monitoring of the upper Chattahoochee River basin, Georgia. *Georgia Journal of Science*. 52, p. 101-112.
11. **Hollabaugh**, C.L., **K.N. Beery**, **C.A. Crews**, **G.M. York**, **P.L. Gertenbach** and **A.G. Wood**, 1994, Nitrate and pH levels of Carrollton, Georgia, surface waters. *Georgia Journal of Science*. 52, p. 161-172.
12. **Hollabaugh**, C.L., **B.D. Johnson** and **A.D. Jackson**, 1996, Nitrate and pH monitoring of Cedar Creek, Polk County, Georgia. *Georgia Journal of Science*. 54, p. 129-140.
13. **Roberts**, J.M. and C.L. **Hollabaugh**, 1997, The effects of sewage effluent on nitrates, pH, and dissolved oxygen levels in Turkey Creek, Pine Mountain, Harris County, Georgia. *Georgia Journal of Science*. 55, p. 133-145.
14. **Adams**, C.B., **C.A. Klamke**, and C. L. **Hollabaugh**, 1999, Geochemical monitoring of Kiser Creek, near Buchanan, Haralson County, Georgia: The effects of pyrite-rich rocks on the pH, iron and sulfate content of surface waters. *Georgia Journal of Science*. 57, p. 113-122.
15. **Tyrrell**, K. M., **T. J. Boyles**, C. L. **Hollabaugh**, **C. A. Crews**, 2000, Lead in paint in west Georgia: X-ray diffraction, ICP, and colorimeter analysis. *Georgia Journal of Science*. 58, p. 113-122.
16. **Hollabaugh**, C. L., R. R. Harris, and **J. A. Jackson**, 2004, The role of urban runoff, sewage discharge and chicken manure on the water quality of the

- Chattahoochee River. *Environmental Geosciences*. 11, 16-27.
17. **Hollabaugh**, C. L., R. R. Harris, and **H. B. Bailey**, 2004, Nitrogen variations in the Little Tallapoosa River of west Georgia: The effect of seasonality, land usage, withdrawals, point and nonpoint sources on water quality. *Environmental Geosciences*. 11, 1-15.
 18. **Hollabaugh**, C. L and R. R. Harris, 2004, Refinement of sampling methods for analysis of nutrients in surface waters: *Environmental Geosciences*. 11, 112-128.
 19. **Hollabaugh**, C. L., 2007, Modification of Goldschmidt's geochemical classification of the elements to include arsenic, lead and mercury as biophile elements. In *Concepts and Applications in Environmental Geochemistry* edited by R. Datta, D. Sarkar, and R. Hannigan. Elsevier, Amsterdam, The Netherlands. P. 9-32.
 20. **Hollabaugh**, C. L. (in prep) Geochemical classification of the elements: Addition of Cosmophile and Hydrophile Groups.
 21. **Hollabaugh**, C. L. and R. R. Harris (in prep) Variations of water quality standards for streams on a state-by-state basis.

Published Abstracts presented at professional meetings

Names in blue are UWG student

First author is presenter.

1. **Bergstrom**, R. M., **J. L. Lawson**, and C. L. **Hollabaugh**, 1999, Geochemistry of a small Piedmont watershed affected by natural and man enhanced acid runoff, Tallapoosa River basin, Haralson County, Georgia. Geological Society of America, Abstracts with Programs, 31 #7, p. 338.
2. **Motes**, A., **J. L. Lawson** and C. L. **Hollabaugh**, 1999, The effects of rock type, urban, suburban, agricultural and forest land-use patterns on the water chemistry of Cedar Creek, Polk County, Georgia. Geological Society of America, Abstracts with Programs, 31 #7, p. 408.
3. **Nicholas**, J. B., **D. V. Prouty**, **J. L. Lawson** and C. L. **Hollabaugh**, 1999, Effects of point sources on water quality in the upper Little Tallapoosa River basin, Carroll County, Georgia. Geological Society of America, Abstracts with Programs, 31 #7, p. 408.
4. **Slade**, L. L., **R. M. Bergstrom**, **J. M. Helms**, **S. M. Hinesley**, **J. B. Nicholas**, **D. V. Pouty**, **C. L. Taylor** and C. L. **Hollabaugh**, 1999, Potential radiation hazards associated with mineral collections. Geological Society of America, Abstracts with Programs, 31 #7, p. 408.
5. **Bradley**, D. B., **B. O. Jackson**, and C. L. **Hollabaugh**, 2000, Compositional changes in the Little Tallapoosa River: The change in water quality parameters as the river flows through the City of Carrollton, Carroll County, Georgia. Southeastern Section Geological Society of America, Abstracts with Programs 32 # 3, p. A7.
6. **Coleman**, A. L. and C. L. **Hollabaugh**, 2000, Lead in drinking water and paint in the west Georgia region. Southeastern Section Geological Society of America, Abstracts with Programs 32 # 3, p. A12.

7. [Lawson, J. L.](#) and C. L. **Hollabaugh**, 2000, Leaching of arsenic from pressure treated wood at 95°C. Southeastern Section Geological Society of America, Abstracts with Programs 32 # 3 p. A57.
8. [Motes, A. A.](#) and C. L. **Hollabaugh**, 2000, Geochemical study of a rural watershed in northwest Georgia: A stream in transition from Piedmont to Valley and Ridge. Southeastern Section Geological Society of America, Abstracts with Programs 32 # 3. p A64.
9. [Nicholas, J. B.](#) and C. L. **Hollabaugh**, 2000, Water quality of the Little Tallapoosa River in Carroll County, Georgia: The tale of one river and two cities (Villa Rica and Carrollton), limited supply, increasing demand, and pollution. Southeastern Section Geological Society of America, Abstracts with Programs 32 # 3, p. A64.
10. [Slade, L. L.](#) and C. L. **Hollabaugh**, 2000, Radioactive minerals: Protection methods. Southeastern Section Geological Society of America, Abstracts with Programs 32 # 3, p. A74.
11. [Whitton, G. H.](#) and C. L. **Hollabaugh**, 2000, Water quality of the Chattahoochee River and its tributaries in Carroll County, Georgia: Three potential water reservoir sites in Carroll County. Southeastern Section Geological Society of America, Abstracts with Programs 32 # 3, p. A82.
12. [Nicholas, J. B.](#) and C. L. **Hollabaugh**, 2000, How do cities affect water quality: A study of the Little Tallapoosa River as it flows through Carroll County, Georgia. Georgia Journal of Science, Vol. 58 #1, p. 58.
13. [Motes, A. A.](#) and C. L. **Hollabaugh**, 2000, Geochemistry of surface and groundwater in western Polk County, Georgia: Variations in water quality of Cedar Creek. Georgia Journal of Science, Vol. 58 #1, p. 59.
14. [Whitton, G. H.](#) and C. L. **Hollabaugh**, 2000, The Chattahoochee River and its tributaries (Snake, Acorn, and Whooping Creek) in Carroll County, Georgia: A contrast in water quality. Georgia Journal of Science, Vol. 58 #1, p. 57.
15. [Bradley, D. B.](#), C. L. **Hollabaugh**, [D. V. Prouty](#), [B. O. Jackson](#), [Burke O.](#), and [P. Paschal](#), 2000, The effects of direct discharge versus spray field application: A study of supply and demand versus water quality in the Little Tallapoosa Watershed in west Georgia. Geological Society of America, Abstracts with Programs, 32, #7, p. 284.
16. [Jackson, B. O.](#), C. L. **Hollabaugh**, [D. V. Prouty](#), [J. L. Lawson](#) [C. W. Jackson](#), [A. L. Coleman](#), and [L. Stokes](#), 2000, The composition of surface and deep groundwater in an impacted basin in the Piedmont of west Georgia. Geological Society of America, Abstracts with Programs, 32, #7, p. 284.
17. [Whitton, G. H.](#) and C. L. **Hollabaugh**, 2000, A water quality study of non-impaired and impaired surface waters in the Chattahoochee River Basin of west Georgia: the Clean and unclean. Geological Society of America, Abstracts with Programs, 32 #7, p. 285.
18. [Martin, T. D.](#) and C. L. **Hollabaugh**, 2001, West Georgia Watershed Assessment: Methods involved in sample station selection. Georgia Journal of Science. 59, p.60.

19. Davidson, J. D. and C. L. **Hollabaugh**, 2001, Water quality changes in the Little Tallapoosa River Associated with the drought of 1999-2000. *Georgia Journal of Science*. 59, p.60.
20. **Hollabaugh**, C. L., 2001, West Georgia Watershed Assessment: Preliminary water quality results of Heard and Carroll County, Georgia. *Georgia Journal of Science*. 59, p.60-61.
21. Davidson, J. D., T. D. Martin, and C. L. **Hollabaugh**, 2001, Controls on the environmental geochemistry of surface waters: A study of land usage and water quality parameters of Centralhatchee Creek, Heard County, Georgia. *Southeastern Section Geological Society of America, Abstracts with Programs*, 33 # 2, p. 67.
22. Lee, Jeffrey R. and C. L. **Hollabaugh**, 2001, Point and non-point controls on water quality parameters of Buffalo Creek, Carroll County: A stream that flows across industrial, urban and agricultural land usage. *Southeastern Section Geological Society of America, Abstracts with Programs*, 33 # 2, p. 68.
23. Schultz, B. S., J. L. McWilliams, and C. L. **Hollabaugh**, 2001, Seasonal rise and fall of water quality parameters in impacted streams in the Piedmont: A study of Buck Creek, Carroll and Haralson Counties, Georgia. *Southeastern Section Geological Society of America, Abstracts with Programs*, 33 # 2, p. 68.
24. McWilliams, J. L., B. S. Schultz, and C. L. **Hollabaugh**, 2001, The Little Tallapoosa River and the drought of 1999-2000: Modifications of water quality parameters. *Southeastern Section Geological Society of America, Abstracts with Programs*, 33 # 2, p. 68.
25. Martin, T. D., J. D. Davidson, and C. L. **Hollabaugh**, 2001, Water quality variations of Hillabahatchee Creek watershed, Heard County, Georgia: A study of the roles of land usage and seasonal variation. *Southeastern Section Geological Society of America, Abstracts with Programs*, 33 # 2, p. 68.
26. Griffin, J. R., C. G. Wilson, C. L. **Hollabaugh**, R. L. Kath, J. A. Waters, 2001, Variations in ammonia-N with land usage, point source release, and nutrient load in streams in Carroll and Heard Counties, Georgia. *Geological Society of America, Abstracts with Programs*, 33, #6, p. 183.
27. Martin, T. D., J. D. Davidson, C. L. **Hollabaugh**, J. K. Bartley, R. L. Kath, and J. A. Waters, 2001, Water quality variations of Centralhatchee Creek, Hillabahatchee Creek, and New River, Heard County, Georgia: The effects of land usage and seasonal variations on surface water quality. *Geological Society of America, Abstracts with Programs*, 33, #6, p. 183.
28. **Hollabaugh**, C. L., J. K. Bartley, R. L. Kath, and J. A. Waters, 2001, The West Georgia Watershed Assessment and Undergraduate Research: Field and laboratory experience with real world research. *Geological Society of America, Abstracts with Programs*, 33, #6, p. 241.
29. Wilson, C.G., J. D. Congleton, C. L. **Hollabaugh**, R. L. Kath, and J. A. Waters, 2001, Variations in nutrient composition of developed and non-developed watersheds of west Georgia: GIS-Assisted interpretation of water quality analyses. *Geological Society of America, Abstracts with Programs*, 33, #6, p. 319.
30. Souigny, E. A., J. D. Davidson, T. D. Martin, M. B. McInnish, B. S. Schultz, C. G. Wilson, J. L. Wood, and C. L. **Hollabaugh**, 2001, Sulfate content of surface waters of west Georgia: Variations with land usage and flow characteristics of

- streams in Carroll and Heard Counties, Georgia. Geological Society of America, Abstracts with Programs, 33, #6, p. 360.
31. Davidson, J. D., J. D. Martin, C. L. Hollabaugh, J. K. Bartley, R. L. Kath, and J. A. Waters, 2001, A watershed assessment of tributary streams of the Chattahoochee River in the Piedmont of Heard County, Georgia. Geological Society of America, Abstracts with Programs, 33, #6, p. 360.
 32. Harris, R. R., C. L. Hollabaugh, J. K. Bartley, R. L. Kath, and J. A. Waters, 2001, Environmental geochemistry of the Little Tallapoosa River watershed: Variations in water quality parameters with seasonality, land usage, and point sources. Geological Society of America, Abstracts with Programs, 33, #6, p. 360.
 33. Schultz, B. S., C. L. Hollabaugh, J. K. Bartley, R. L. Kath, and J. A. Waters, 2001, Baseline environmental geochemistry of potential reservoir sites. Geological Society of America, Abstracts with Programs, 33, #6, p. 423.
 34. Martin, Teddy D and Curtis L. Hollabaugh, 2002, Seasonal variations of total phosphorus in streams and tributaries of Heard and Carroll Counties, Georgia. Georgia Journal of Science, Vol. 60, No. 1, p. 77.
 35. Schultz, Bryan S., Curtis L. Hollabaugh, Johnny A. Waters, and Randal L. Kath, 2002, Baseline water quality parameters for potential reservoirs in Carroll and Haralson Counties, Georgia. Georgia Journal of Science, Vol. 60, No. 1, p. 77-78.
 36. Harris, Randa R., Curtis L. Hollabaugh, Julie K. Bartley, Johnny A. Waters, and Randal L. Kath, 2002, Assessing the assessment: How to investigate a watershed based on the West Georgia Assessment of Carroll and Heard Counties, Georgia. Georgia Journal of Science, Vol. 60, No. 1, p. 78-79.
 37. Wilson, Crystal G., Curtis L. Hollabaugh, Johnny A. Waters, and Julie K. Bartley, 2002, Remote sensing and GIS-assisted analyses of land use patterns and their affects on streams in west Georgia. Georgia Journal of Science, Vol. 60, No. 1, 75-77.
 38. Griffin, James R. and Curtis L. Hollabaugh, 2002, Ammonia in the streams of west Georgia: Variation with land usage, point source release, and season. Georgia Journal of Science, Vol. 60, No. 1, p. 78.
 39. Hollabaugh, Curtis L., Julie K. Bartley, Randal L. Kath, and Johnny A. Waters, 2002, Results of the West Georgia Watershed Assessment: Variations of water quality parameters with seasonality, land usage and rain fall. Georgia Journal of Science, Vol. 60, No. 1, p. 78.
 40. Martin, Teddy D. and Curtis L. Hollabaugh, 2002, Seasonal variations of total phosphorus in streams and tributaries of Heard and Carroll Counties, Georgia. Combined Southeastern and North-Central Section Meeting of the Geological Society of America, Abstracts with Programs, 34, #2, p. 83.
 41. Schultz, Bryan S., Curtis L. Hollabaugh, Johnny A. Waters, and Randal L. Kath, 2002, Supply and demand of drinking water in west Georgia: Baseline water quality parameters for potential reservoirs in Carroll and Haralson Counties, Georgia. Combined Southeastern and North-Central Section Meeting of the Geological Society of America, Abstracts with Programs, 34, #2, p. 84.
 42. Harris, Randa R., Curtis L. Hollabaugh, Julie K. Bartley, Johnny A. Waters, and Randal L. Kath, 2002, The how-to's in watershed investigation, based on the West Georgia Watershed Assessment of Carroll and Heard Counties, Georgia.

- Combined Southeastern and North-Central Section Meeting of the Geological Society of America, Abstracts with Programs, 34, #2, p. 6.
43. [Wilson, Crystal G.](#), **Curtis L. Hollabaugh**, Randal L. Kath, and Johnny A. Waters, 2002, Remote sensing and GIS-assisted analyses of land use patterns and their affects on streams in west Georgia. Combined Southeastern and North-central Section Meeting of the Geological Society of America, Abstracts with Programs, 34, #2, p. 82.
 44. [Griffin, James R.](#), **Curtis L. Hollabaugh**, Randal L. Kath, Julie K. Bartley, Johnny A. Waters, 2002, Comparison of historic and recent water quality data for streams not meeting designated usages in west Georgia. Combined Southeastern and North-Central Section Meeting of the Geological Society of America, Abstracts with Programs, 34, #2, p. 111.
 45. **Hollabaugh, Curtis L.**, Randa R. Harris, John D. Congleton, Randal L. Kath, Julie K. Bartley, and Johnny A. Waters, 2002, Variations of water quality parameters of 38 streams in west Georgia with seasonality, land usage and rainfall Carroll and Head Counties, Georgia. Combined Southeastern and North-Central Section Meeting of the Geological Society of America, Abstracts with Programs, 34, #2, p. 6.
 46. [Souigny, Elizabeth A.](#) and **Curtis L. Hollabaugh**, 2002, Sulfate concentration of surface and groundwater of the Piedmont of west Georgia: Variations with rock type, land usage, flow characteristics, and human activities. Combined Southeastern and North-Central Section Meeting of the Geological Society of America, Abstracts with Programs, 34, #2, p. 84.
 47. [Coleman, Alvin L.](#), Julie K. Bartley, **Curtis L. Hollabaugh**, Johnny A. Waters, and Randal L. Kath, 2002, Fecal coliform bacteria as an indicator of watershed health: A comparison among variables during watershed assessment, Carroll and Heard Counties, Georgia. Combined Southeastern and North-Central Section Meeting of the Geological Society of America, Abstracts with Programs, 34, #2, p. 112.
 48. **Hollabaugh, Curtis L.**, Randa R. Harris, and [Teddy D. Martin](#), 2002, Preliminary comparison of sampling density and frequency for surveys of surface water quality studies: Potential differences in results with weekly, monthly, and 4wet/4dry sample schedules. Geological Society of America, Abstracts with Programs, 34, #6, p. 419.
 49. [Jackson, Jason, Chris Adams](#), and **Curtis L. Hollabaugh**, 2002, The Chattahoochee River in Carroll County, Georgia: How variations in supply and demand, rainfall, and seasonality cause variation in water quality. Geological Society of America, Abstracts with Programs, 34, #6, p. 256-257.
 50. [Adams, Chris, Jason Jackson](#), and **Curtis L. Hollabaugh**, 2002, A water quality study of Wolf Creek, Carroll County, Georgia: A degraded stream facing further degradation. Geological Society of America, Abstracts with Programs, 34, #6, p.256.
 51. Harris, Randa R. and **Curtis L. Hollabaugh**, 2002, A critical evaluation of water quality standards on a state by state basis. Geological Society of America, Abstracts with Programs, 34, #6, p. 418-419.

52. [Martin, Teddy D.](#) and Curtis L. **Hollabaugh**, 2002, Effect of rainfall on water quality parameters: A study of correlations between rainfall and water quality parameters. Geological Society of America, Abstracts with Programs, 34, #6, p.258.
53. **Hollabaugh**, Curtis L. and Randa R. Harris, 2003, Wet/dry sampling during watershed assessment: A study in the Piedmont of Georgia to determine what is dry and wet. Combined Southeastern and South-central Section Meeting of the Geological Society of America, Abstracts with Programs, 35 #1, p. 4.
54. Harris, Randa R. and Curtis L. **Hollabaugh**, 2003, Variation of water quality standards in the southeast and south central United States. Combined Southeastern and South-central Section Meeting of the Geological Society of America, Abstracts with Programs, 35 #1, p. 4.
55. [Adams, Chris](#), [Jason Jackson](#), and Curtis L. **Hollabaugh**, 2003, Watersheds in transition from rural to developed: The tributary streams of the Chattahoochee River in Carroll County, Georgia. Combined Southeastern and South-central Section Meeting of the Geological Society of America, Abstracts with Programs, 35 #1, p.5.
56. [Jackson, Jason](#), [Chris Adams](#), and Curtis L. **Hollabaugh**, 2003, The Chattahoochee River below metro Atlanta: The role of urban runoff, sewage discharge and chicken manure on the water quality of the Chattahoochee River. Combined Southeastern and South-central Section Meeting of the Geological Society of America, Abstracts with Programs, 35 #1, p.5.
57. [Bailey, Heather B.](#) and Curtis L. **Hollabaugh**, 2003, Nutrient variations in surface waters of Georgia: How land usage, water withdrawals, point and nonpoint sources affect water quality. Combined Southeastern and South-central Section Meeting of the Geological Society of America, Abstracts with Programs, 35 #1, p.5.
58. [Prince, Robert Josh](#) and Curtis L. **Hollabaugh**, 2003, Fecal and sediment problems that occur in watersheds of differing degrees of disturbance in the Piedmont of Georgia. Combined Southeastern and South-central Section Meeting of the Geological Society of America, Abstracts with Programs, 35 #1, p. 5.
59. **Hollabaugh**, Curtis L., [Teddy D. Martin](#), and Randa R. Harris, 2003, Watershed assessment and the influence of rainfall on water quality: When wet is dry and dry is wet. Georgia Journal of Science, Vol. 61, No. 1, p. 57.
60. Harris, Randa R. and Curtis L. **Hollabaugh**, 2003, Comparison of water quality standards in the southeast and south central United States. Georgia Journal of Science, Vol. 61, No. 1, p. 57.
61. [Adams, Chris](#), [Jason Jackson](#), and Curtis L. **Hollabaugh**, 2003, Watershed assessments of the tributary streams of the Chattahoochee River in Carroll County, Georgia. Georgia Journal of Science, Vol. 61, No. 1, p.56-57.
62. [Jackson, Jason](#), [Chris Adams](#), and Curtis L. **Hollabaugh**, 2003, Life downstream of the fecal capital of the southeast – the Chattahoochee River before and after Metro Atlanta: The role of urban runoff, sewage discharge and chicken manure on the water quality of the Chattahoochee River. Georgia Journal of Science, Vol. 61, No. 1, p. 56.

63. Prince, R. Josh and Curtis L. **Hollabaugh**, 2003, The past, present, and future of the Chattahoochee River: Historical trends and present water quality analysis as predictors of the future. Geological Society of America, Abstracts with Programs, Vol. 35, No. 6, p. 145.
64. Bailey, Heather B. and Curtis L. **Hollabaugh**, 2003, Heavy metals in crawfish populations of Buffalo Creek, Carroll County, Georgia. Geological Society of America, Abstracts with Programs, Vol. 35, No. 6, p. 145-146.
65. Harris, Randa R. and Curtis L. **Hollabaugh**, 2003, Stormchaser: The 12-hour sample interval for water quality analysis of surface streams in the Piedmont and Valley and Ridge of west Georgia. Geological Society of America, Abstracts with Programs, Vol. 35, No. 6, p. 404.
66. **Hollabaugh**, Curtis. L. and Randa R. Harris, 2003, Sediment, fecal coliform bacteria, and nutrients in streams of west Georgia: Contributions of baseflow, wetflow, and stormflow. Geological Society of America, Abstracts with Programs, Vol. 35, No. 6, p. 404.
67. Holloway, Jake L., Curtis L. **Hollabaugh**, and Randa R. Harris, 2003, The agricultural influence on water quality in streams of the west Georgia region. Geological Society of America, Abstracts with Programs, Vol. 35, No. 6, p. 146.
68. Prince, R. Josh and Curtis L. **Hollabaugh**, 2004, The water quality of the Chattahoochee River Downstream of Atlanta, Georgia and a comparison to the water quality of the Allegheny, Monongahela, and Ohio Rivers of Pennsylvania. Combined Southeastern and Northeastern Section Meeting of the Geological Society of America, Abstracts with Programs, 36, #2, p.125.
69. Roney, Ryan O. and Curtis L. **Hollabaugh** 2004, Co-crystallization of topaz, red beryl, hematite, and quartz at Topaz Mountain, Juab County, Utah. The Combined Southeastern and Northeastern Section Meeting of the Geological Society of America, Abstracts with Programs, 36, #2, p.152.
70. **Hollabaugh**, Curtis. L. and Randa R. Harris, 2004, How land usage, point sources, population, and big cities affect small and large watersheds in Georgia.. Combined Southeastern and Northeastern Section Meeting of the Geological Society of America, Abstracts with Programs, 36, #2, p.108.
71. Harris, Randa R. and Curtis L. **Hollabaugh**, 2004, An examination of the water quality of the nations' ten most endangered rivers. Combined Southeastern and Northeastern Section Meeting of the Geological Society of America, Abstracts with Programs, 36, #2, p.66.
72. Roney, Ryan O. and Curtis L. **Hollabaugh**, 2004, Co-crystallization of topaz, red beryl, hematite, and quartz at Topaz Mountain, Juab County, Utah. Georgia Journal of Science, Vol. 62, No. 1, p. 47.
73. Prince, R. Josh and Curtis L. **Hollabaugh**, 2004, Historical trends in nitrate values in the Chattahoochee River and predictions for the future. Georgia Journal of Science, Vol. 62, No. 1, p. 47-48.
74. Harris, Randa R. and Curtis L. **Hollabaugh**, 2004, A compression of water quality parameters among the American Rivers ten most endangered rivers in the nation for 2003. Georgia Journal of Science, Vol. 62, No. 1, p. 49.

75. **Hollabaugh**, Curtis L. and Randa R. Harris, 2004, Big cities and big rivers: The effect of big cities on the water quality of five Georgia and one Tennessee River. Georgia Journal of Science, Vol. 62, No. 1, p. 49-50.
76. **Hollabaugh**, Curtis L., 2004, The inclusion of arsenic, lead and mercury as biophile elements. Geological Society of America, Abstracts with Programs, Vol. 36, No. 56, p. 333.
77. Harris, Randa R., [Jake L. Holloway](#), and Curtis L. **Hollabaugh**, 2004, Bioaccumulation of mercury in large catfish of the Coosa River, Georgia. Geological Society of America, Abstracts with Programs, Vol. 36, No. 56, p. 560.
78. [Prince, R. Josh](#), [Anita D. Presnal](#), Curtis L. **Hollabaugh**, 2004, The effect rainfall has on the water quality of the Little Tallapoosa River and a heavily impacted tributary. Geological Society of America, Abstracts with Programs, Vol. 36, No. 56, p. 80.
79. [Phillips, Eric G.](#) and Curtis L. **Hollabaugh**, 2005, The affect of storms on water quality of streams of west Georgia. Georgia Journal of Science, Vol. 63, No. 1, p. 58.
80. [Phillips, Eric G.](#) and Curtis L. **Hollabaugh**, 2005, How rainfall affects turbidity and nutrients of the Little Tallapoosa River and Central Campus Branch, Carroll County, Georgia. Southeastern Section Meeting of Geological Society of America, Abstracts with Programs, Vol. 37, No. 2, p. 45.
81. **Hollabaugh**, Curtis L., 2005, Toxic biophile elements arsenic, lead, and mercury: From personal to professional undergraduate research in environmental geochemistry. Southeastern Section Meeting of Geological Society of America, Abstracts with Programs, Vol. 37, No. 2, p. 8.
82. **Hollabaugh**, Curtis L., Randa R. Harris, and [Wesley R. Loveless](#), 2005, Variations of nutrients, turbidity, and fecal coliform bacteria from 2001 to 2005 in the Little Tallapoosa watershed Carroll County, Georgia. Geological Society of America, Abstracts with Programs, Vol. 37, No. 7, p. 353.
83. [Procter, Erin T.](#), [John R. Jones](#), [Kristen H. Scarborough](#), [Ryan O. Roney](#), Randa R. Harris, Curtis L. **Hollabaugh**, 2005, Determination of arsenic in soil under a deck built of CCA pressure treated wood in west Georgia. Geological Society of America, Abstracts with Programs, Vol. 37, No. 7, p. 301.
84. [Blaise, Jennifer Beth](#), Curtis L. **Hollabaugh**, 2006, The effects of erosion on drinking water. Georgia Journal of Science. Vol. 64, No. 1, p. 35.
85. **Hollabaugh** Curtis L. and Randa R. Harris, 2006, Aquiphile students and watershed research in west Georgia from 1988 to 2006: Advancement in science and undergraduate education at the University of West Georgia. Southeastern Section Meeting of Geological Society of America, Abstracts with Programs, Vol. 38, No. 3, p. 32.
86. [Blaise, Jennifer Beth](#) and Curtis L. **Hollabaugh**, 2006, Variations of turbidity and nutrients in the Tallapoosa and Chattahoochee watersheds of west Georgia: Determination of the relationship turbidity has with flow, rainfall, watershed cover, and human activities. Southeastern Section Meeting of Geological Society of America, Abstracts with Programs, Vol. 38, No. 3, p. 32.
87. [Loveless, Wesley R.](#), Randa R. Harris, and Curtis L. **Hollabaugh**, 2006, Seasonal variations of dissolved oxygen, nutrients, turbidity, and fecal coliform bacteria

- from 2004 to 2006 of three small watershed lakes in the Little Tallapoosa watershed Carroll County, Georgia. Southeastern Section Meeting of Geological Society of America, Abstracts with Programs, Vol. 38, No. 3, p. 32-33.
88. [Procter, Erin T.](#), Randa R. Harris, Curtis L. **Hollabaugh**, 2006, Nutrient levels and variation of streams in the Little Tallapoosa watershed Carroll County, Georgia. Southeastern Section Meeting of Geological Society of America, Abstracts with Programs, Vol. 38, No. 3, p. 33.
 89. **Hollabaugh**, Curtis L., 2006, Undergraduate research in watershed assessment in west Georgia: physical and chemical characterization of small (Central Campus Branch), medium (Little Tallapoosa River), and large (Chattahoochee River) watersheds. Geological Society of America, Abstracts with Programs, Vol. 38, No. 7, p. 30.
 90. **Hollabaugh**, Curtis L., 2006, Arsenic, mercury, and lead as hydrophile and biophile elements: Implications for healthy watersheds and humans. Geological Society of America, Abstracts with Programs, Vol. 38, No. 7, p. 153.
 91. Harris, Randa R. and Curtis L. **Hollabaugh**, 2006, Mercury in watersheds from Lake Erie to the Gulf of Mexico: Using public databases to determine relationships between length (age) and mercury in large fish. Geological Society of America, Abstracts with Programs, Vol. 38, No. 7, p. 153.
 92. [Blaise, Jennifer Beth](#), and Curtis L. **Hollabaugh**, 2006, Urban development vs. water quality: A comparison of flow in relationship to turbidity, rainfall, nutrients, fecal coliform, and watershed cover in west Georgia. Geological Society of America, Abstracts with Programs, Vol. 38, No. 7, p. 231.
 93. [Blaise, Jennifer Beth](#), and Curtis L. **Hollabaugh**, 2007, A two year study of water quality in west Georgia. Georgia Academy of Science. Vol. 66, No. 1, p. 43.
 94. Harris, Randa R. and Curtis L. **Hollabaugh**, 2007, Mercury in watersheds in Georgia: using public Databases to establish relationships in mercury concentration and size in largemouth bass. Georgia Journal of Science. Vol. 66, No. 1, p. 44.
 95. **Hollabaugh**, Curtis L. and [Jennifer Beth Blaise](#), 2007, Turbidity and fecal coliform bacteria levels of the Tallapoosa River in Haralson County, Georgia. Georgia Journal of Science. Vol. 66, No. 1, p. 49.
 96. **Hollabaugh**, Curtis L. and [Jennifer Beth Blaise](#), 2007, Variations in turbidity and fecal coliform bacteria levels in the Tallapoosa River, Haralson County, Georgia: Role of base flow, rising stream flow, peak storm flow, wet flow and falling flow. Southeastern Section Meeting of Geological Society of America, Abstracts with Programs, Vol. 39, No. 2, p. 11.
 97. [Blaise, Jennifer Beth](#), and Curtis L. **Hollabaugh**, 2007, A two year study of west Georgia streams: Variations in turbidity, fecal coliform bacteria, nutrients, and total suspended solids, and their correlations with flow. Southeastern Section Meeting of Geological Society of America, Abstracts with Programs, Vol. 39, No. 2, p. 82.
 98. Stogner, Jonathan Brian and Curtis L. **Hollabaugh**, 2007, Long-term trends of nutrients in Tallapoosa and Chattahoochee watersheds of west Georgia. Geological Society of America, Abstracts with Programs, Vol. , No. , p. .

99. Knight, Douglas J. and Curtis L. **Hollabaugh**, 2007, A study of Buck Creek in Carroll County, Georgia: Importance of small streams during droughts. Georgia. Geological Society of America, Abstracts with Programs, Vol. , No. , p.
100. Parrish, Brian K., Ellie L. Busse, Randa R. Harris, Curtis L. **Hollabaugh**, 2007, Sediment in west Georgia streams from 2001 to 2007: A focus on Snake Creek, a critical drinking water source. Georgia. Geological Society of America, Abstracts with Programs, Vol. , No. , p.
101. Adams, Parker D., Curtis L. **Hollabaugh**, and Randa R. Harris, 2007, Environmental assessment of the Chattahoochee River in west Georgia: Relationships between flow and sediment and bacteria. Georgia. Geological Society of America, Abstracts with Programs, Vol. , No. , p
102. Harris Randa R. and Curtis L. **Hollabaugh**, 2007, An investigation into the water quality of streams listed as impaired in Carroll County, Georgia. Georgia. Geological Society of America, Abstracts with Programs, Vol. , No. , p
103. Ellie Busse, Brian K. Parrish, Curtis L. **Hollabaugh**, and Randa R. Harris, 2007, The Correlation of Fecal Coliform and Turbidity of The Little Tallapoosa River in the west Georgia region. Georgia. Geological Society of America, Abstracts with Programs, Vol. , No. , p
104. **Hollabaugh**, Curtis L., 2007, Long-term and short-term trends in water quality and quantity of north and west Georgia: Population growth and droughts of 1999-2000 and 2007. Georgia. Geological Society of America, Abstracts with Programs, Vol. , No. , p

Contracts:

(Water quality part on each contact)

1. West Georgia Watershed Assessment (\$311,193) with Dr. Waters, Kath, Bartley, Tabit (Biology) and Paine (Biology). Contact to Hayes, James and Associates. 2000-2003.
2. Heard County Reservoir Phase – I and II, Preliminary Siting (\$165,000) with Dr. Waters and Kath. Contact to Hayes, James and Associates. 2000-2001.
3. Forsyth County, Fowler Property – Preliminary Siting (\$5,500) with Dr. Waters and Kath. Contact to Hayes, James and Associates.
4. Forsyth County Environmental Information Document for the Fowler Property (\$27,300) with Dr. Waters and Kath. Contact to Hayes, James and Associates. 2001.
5. Watershed assessment of the upper Pumpkinvine Creek and Sweetwater Creek Watersheds (\$49,000 to Geosciences and \$28,000 to Biology) with Dr. Waters, Kath, Bartley, Tabit (Biology) and Paine (Biology). Contact to Hayes, James and Associates. 2000-2001.
6. TDML Stream Sampling and Testing for Fecal Coliform on eight 303(d) Listed Streams in Coweta, Meriwether and Troup Counties (\$16,500) with Randa Harris. Contact to Chattahoochee-Flint Regional Development Center. 2002.
7. Long-term monitoring of surface water in Carroll County with Drs. Kath and Bartley. 2004-2006.

8. Long-term mentoring of surface water for Carroll County with Dr. Randy Kath

Reports:

1. Heard County Reservoir Phase – I and II, Preliminary Siting Water quality part of report with Dr. Waters and Kath. 2001
2. Watershed assessment of the upper Pumpkinvine Creek and Sweetwater Creek Watersheds. Water quality part of Georgian Resort report with Dr Waters. 2001.
3. Forsyth County report of water quality of Big Creek. Report with Dr. Waters. 2001.
4. Forsyth County Environmental Information Document for the Fowler Property Water quality part of Big Creek, Forsyth County report with Dr. Waters. 2001
5. TDML Stream Sampling and Testing for Fecal Coliform on eight 303(d) Listed Streams in Coweta, Meriwether and Troup Counties. For Chattahoochee-Flint Regional Development Center. With Randa Harris. July 2002.
6. West Georgia Watershed Assessment of Carroll County, 2003, Water quality part of report with others.
7. West Georgia Watershed Assessment of Head County, 2003, Water quality part of report with others.

Presentation of Contract Work:

1. Update of water quality assessment to West Georgia Watershed Assessment Committee, March 2001.
2. Update of water quality assessment to West Georgia Watershed Assessment Committee, July 2001.
3. Update of water quality assessment to West Georgia Watershed Assessment Committee, September 2001.
4. Update of water quality assessment to West Georgia Watershed Assessment Committee, December 2001
5. Final report to West Georgia Watershed Assessment Committee, March 2002.

Professional Memberships:

Geochemical Society
Sigma Xi
Mineralogical Society of America
Georgia Academy of Science
Geological Society of America
American Association of University Professors
Georgia Association of Water Professionals

Classes and Short Courses Taken:

Laboratory Analysis of Water at Georgia Water and Wastewater Institute, 2000

Microbiological Analysis of Drinking Water at Georgia Water and Wastewater Institute, 2001

**Introduction to Geospatial Analysis for Research and Classroom Applications at
Geospatial Applications Research Center, State University of West Georgia**

INDEPENDENT UNDERGRADUATE RESEARCH PROJECTS DIRECTED

I have directed over 210 individualized undergraduate independent research projects from 1982 to 2007. Many of these research projects have resulted in student abstracts published by the Georgia Academy of Science (GAS); eight of which won the "Best Undergraduate Paper awards in Geosciences at GAS". Thirteen student-co-authored papers have been published by national and regional journals. I have had 103 abstracts published by my students at GAS and Geological Society of America (GSA) in the past 26 years, and the number of students involved is much higher because of the multiple authors on many abstracts. The breakdown of published student abstracts is:

- 1. From 1984 to 1999, 32 student presentations at the Annual Meeting of the Georgia Academy of Science.**
- 2. From 2000 to 2007 students have presented 16 papers at the Annual Meeting of the Georgia Academy of Science.**
- 3. Students presented 25 posters at the Annual Meeting of the Southeastern Section of the Geological Society of America from 1999 to 2007.**
- 4. Students presented 30 posters at the Annual Meeting of the Geological Society of America from 2000 to 2007.**

**Winners of Best Undergraduate Student Paper in Earth and
Atmospheric Sciences at Annual Meetings of the Georgia Academy
of Science**

1. Victoria L. Purcell and Barry D. Robertson, 1984, The origin of garnets in rhyolite near Ely, Nevada. Georgia Journal of Science. 42, p. 20.
2. Scott Zimmerman, 1986, Cause of asterism in star garnets from Emerald Creek, Latah County, Idaho. Georgia Journal of Science. 44, p. 23.
3. Debbie Warner and Vonda Kay Smith, 1990, Kinetics of acid dissolution of titanite. Georgia Journal of Science. 48, p. 38.
4. Patricia L. Gertenbach and Amanda G. Wood, 1991, Nitrate and pH levels in surface waters in west Georgia. Georgia Journal of Science. 49, p. 35.
5. John G. Chambers, 1992, The experimental synthesis of anatase pseudomorphs after titanite (sphene) in low temperature acidic solutions. Georgia Journal of Science. 50, p. 34.

6. Stefan John Higgins, 1993, Inclusions present in emerald beryl of the Big Crabtree Emerald Mine, Spruce Pine District, Mitchell County, North Carolina. Georgia Journal of Science. 51, p. 38.
7. Thomas Carter Dunaway, 1994, Occurrence of native sulfur in iron oxide pseudomorphs after pyrite from the Piedmont of west Georgia. Georgia Journal of Science. 52, p. 48.
8. Adam A. Motes and Curtis L. Hollabaugh, 2000, Geochemistry of surface and groundwater in western Polk County, Georgia: Variations in water quality of Cedar Creek. Georgia Journal of Science. 58, p. 59.
9. Blaise, Jennifer Beth, Curtis L. Hollabaugh, 2006, The effects of erosion on drinking water. Georgia Journal of Science. 64, p. 35.

**Winner of Best Student Paper at Sigma Xi
at State University of West Georgia**

John G. Chambers and Gina M. York, 1992, Nitrate, pH, temperature, and total Ca^{2+} -, Mg^{2+} monitoring of the Little Tallapoosa River and tributaries

Research Grants:

1975 Geological Society of America; "Compositional variations of sphene." \$550.
 1986 - 1988 The Petroleum Research Fund; "The experimental determination of the stability of Ti-minerals during diagenesis and deep burial." \$20,000.
 1992 -1993 National Science Foundation; Research Experiences for Undergraduates (REU) Co-PI/PD with Johnny A. Waters as PI/PD.
 1982 - 2005 Twenty-two Faculty Research Grants from the State University of West Georgia Foundation.
 1988 - 2005 Fifteen grants from the State University of West Georgia Foundation Student Work Program.
 2002 "The Transformation from an Endangered to a Sustainable Watershed" Submitted August 30, 2002, A proposal for a RE-Source Award 2002 RE-Source Award for Sustainable Watershed Management. Submitted for \$100,000. In partnership with Upper Tallapoosa Watershed Group, Southwire Company, and Carroll County. Not funded.
 2004-2005 "Development of water quality and quantity research station on the Little Tallapoosa River on the campus of the State University of West Georgia" grants four grants submitted with Randa Harris and two funded for \$4,250 and \$4,000 by West Georgia Community Foundation
 2006 Environmental Monitoring of the Little Tallapoosa and Chattahoochee Rivers in Carroll Count with Continuous Information Provided via Web to the Public. Funded for \$5,000 by West Georgia Community Foundation

ABSTRACTOR

1997 to 2000, an abstractor for Mineralogical Abstracts (published in England). I wrote abstracts of the papers in the American Journal of Science.

Reviewer of Atlanta - “Big Cities Water Report” for National Environmental Defense Fund. Included press conference and T.V. appearances on Atlanta Channels 2, 5, and 11 on June 11, 2003.

Reviewer for National Science Foundation, April 2002, May 2003, 2004, 2005

Reviewer for Environmental Geosciences – 2 papers August 2003.

Reviewer for Environmental & Engineering Geoscience – August 2004.

Reviewer for Georgia Journal of Science –July 2005

Reviewer of textbooks in Mineralogy, Physical Geology (5), and Environmental Science (2)

COLLEGE SERVICES:

- 1995-1998 - Member College Senate
- 1982-1993 - Member Deans Advisory Committee
- 1996-2002 - Member Graduate Faculty Committee
- 1986-2002 - Editor Geology Alumni Newsletter
- 1998-present - Member Intellectual Properties Committee
- 1999-2001 – Member Writing Across Curriculum Committee
- 1985-2002 - Co-advisor Geology Club
- 2002-2004 – Arts and Sciences Executive Committee
- 2004-present – Nanotechnology Committee

President and founder, Upper Tallapoosa Watershed Group (UTWG)

Organized the UTWG: The Upper Tallapoosa Watershed Group is a diverse group of concerned citizens that are interested in protecting, preserving and using the Tallapoosa watershed in Haralson and Carroll Counties. Protection, preservation and usage of the Tallapoosa River need not be exclusive of each other.

1. Meetings:
 - A. Organizational meeting at Tanner State Park on June 30, 1999. Presented educational displays on water quality problems in west Georgia. Chaired first discussion. (70 attended the educational part

- from 3-6 and 28 attended the organizational meeting)
- B. Organized meeting (July 28, 1999) at Lake Park west of Breman. Presented educational displays on surface water supply problems of Carroll and Haralson Counties. Chaired discussion on the need for a reserve on the Tallapoosa River in Haralson County. Write of slate of officers/board/advisors and charter. The Board of Directors approved both.
 - C. The UTWG toured the City of Carrollton water treatment plant, wastewater treatment plant, and spray field on August 25, 1999.
 - D. Organized educational displays and panel of experts for a meeting of the UTWG at the Department of Geology's crystalline rock hydrogeology research station on September 29, 1999.
 - E. Organized river cleanup with the Georgia Adopt A Stream Program of the Tallapoosa River in Haralson County on October 16, 1999.
 - F. Presented the UTWG to the conservation committee of the Woman's Civic Club on November 1, 1999.
 - G. Organized river cleanup of the Little Tallapoosa River in Carrollton (November 16, 1999).
 - H. Wrote a year in review report and mailed copies to all members.
 - I. For 2000 organized four river cleanups with the Georgia Rivers Alive Organization.
 - J. For 2001 helped organized three river cleanups with the Georgia Rivers Alive Organization and helped organize an Educational Meeting on the water wars between Georgia and Alabama.
 - K. For 2002 helped organize two river cleanups with the Georgia Rivers Alive Organization
 - L. Helped organize September 10, 2002 meeting on the West Georgia Regional Reservoir.
 - M. Helped organize two river cleanups with Georgia Rivers Alive, October 2002.
 - N. Two river cleanups in 2003, one on September 20, 2003 Cedar Creek, Polk County with Anna Kresge Memorial United Methodist Church. Second cleanup September 27, 2003 on Little Tallapoosa River in Carrollton.
 - O. Two grant proposals have been submitted by the Upper Tallapoosa Watershed Group (Randa Harris and CLH) for the improvement of the 50 acres on the northern edge of the UWG campus. This land is mostly the floodplain of the Little Tallapoosa River. We have submitted one grant to Five-Star for \$7,000. It is "Floodplain and riparian restoration: the development of an outdoor learning center and hydrology research station at the State University of West Georgia, Carrollton, Georgia." This grant was not funded. The second grant for \$10,000 was submitted to the Community Foundation of West Georgia, it is "Little Tallapoosa River Learning Corridor." This grant submitted with Randa Harris was funded for \$4,250.
 - P. River cleanup Little Tallapoosa River, Carroll County, Georgia in 2004

and 2005

- Q. Turbidity measurements of Tallapoosa River, Haralson County and Little Tallapoosa River, Carroll County, Georgia July 7, 2005 to present
- R. River cleanup Little Tallapoosa River, Carroll County – 2006
- S. A \$5,000 grant proposal funded by the Community Foundation of West Georgia, October 17, 2006 for “Continuous monitoring of the Little Tallapoosa and Chattahoochee Rivers.”

2. Other activities:

- A. Picked first slate of officers, advisors, and board members.
- B. Wrote the groups charter.
- C. Filed for and obtained 501c tax status.
- D. Wrote Letters to the Editor that resulted in their publication in four local newspapers.
- E. Have continued to help keep the UTWG well covered in the local press.
- F. Have involved State University of West Georgia students, staff and faculty in the UTWG.

Conferences and Field Trips Attended:

Annual Meeting of the Geological Society of America, Seattle, Washington, 1975

Annual Meeting of the Northwestern Section of the Geological Society of America, Pullman, Washington, 1976

Southeastern Geological Society of America 29th Annual Meeting. March 27-28, 1980. Birmingham. Alabama.

Geological Society of America Annual Meeting, November 17-20, 1980, Atlanta, Georgia.

Annual Meeting of the Southeastern Section of the Geological Society of America, Blacksburg, Virginia, 1981

Annual Field Trip of the Georgia Geological Society, Cartersville, Georgia, 1982

Annual Field Trip of the Georgia Geological Society, Rome, Georgia, 1983

Annual Meeting of Georgia Academy of Science, Statesboro, Georgia, 1984.

Annual Meeting of Georgia Academy of Science, Carrollton, Georgia, 1985.

Annual Meeting of Georgia Academy of Science, Milledgeville, Georgia, 1986.

Annual Meeting of Georgia Academy of Science, Augusta, Georgia, 1988.

Southeastern Geological Society of America Annual Meeting, Atlanta Georgia, 1989.

Annual Meeting of Georgia Academy of Science, Macon, Georgia, 1990.

Annual Meeting of Georgia Academy of Science, Augusta, Georgia, 1991

Annual Meeting of Georgia Academy of Science, Statesboro, Georgia, 1992.

Annual Meeting of Georgia Academy of Science, Lawrenceville, Georgia, 1993

Annual Meeting of Georgia Academy of Science, Kennesaw, Georgia, 1994

Annual Field Trip of Georgia Geological Society, Atlanta, Georgia, 1994

Annual Meeting of Georgia Academy of Science, Augusta, Georgia, 1995

Annual Meeting of Georgia Academy of Science, Albany, Georgia, 1996

Annual Meeting of Georgia Academy of Science, Carrollton, Georgia, 1997

Annual Meeting of Georgia Academy of Science, Savannah, Georgia, 1998

From Watersheds to Water Taps: Southeast Regional Safe Drinking Water Summit February 5-6, 1999, Atlanta Georgia. Invited as Saturday lunch speaker.

Annual Meeting of Georgia Academy of Science, Lawrenceville, Georgia, 1999

Southeastern Geological Society of America, Meeting, March 25-26, 1999, Athens, Georgia.

The Rolling Hills Resource, Conservation, and Development. August 4, 1999 (Invited as President of UTWG).

The City of Atlanta Greenway Belt Planning Meeting, August 19, 1999 (Invited as President of UTWG).

Geological Society of America Annual Meeting, October 25-28, 1999, Denver, Colorado.

Annual Meeting of Georgia Academy of Science, Valdosta, Georgia, 2000

Southeastern Geological Society of America Annual Meeting, March 24-25, 2000 Charleston, South Carolina.

Annual Meeting of Georgia Academy of Science, Valdosta, Georgia, 2000.

Geological Society of America Annual Meeting, November 12-16, 2000, Reno, Nevada.

Southeastern Geological Society of America Annual Meeting, April 5-6, 2001, Raleigh, North Carolina.

Geological Society of America Annual Meeting, November 4-8, 2001, Boston, Massachusetts.

Southeastern and North Central Joint Meeting of Geological Society of America, April 3-5, 2002, Lexington, Kentucky.

Annual Meeting of Georgia Academy of Science, Milledgeville, Georgia, 2002

Georgia Lakes Society, Milledgeville, Georgia, May 4, 2002. Invited speaker.

Meeting at the Borders: Issues in Cross Border Research, May 22-24, 2002 Southern Center for International Studies, Atlanta, Georgia

Geological Society of America Annual Meeting, October 27-30, 2002, Denver, Colorado.

Southeastern and South central Meeting of the Geological Society of America, 2003, in Memphis, Tennessee

Geological Society of America Annual Meeting, November 2-5, 2003, Seattle, Washington

Joint Northeastern and Southeastern Meeting of the Geological Society of America, March 25-27, 2004 in Washington, D.C.

Annual Meeting of Georgia Academy of Science, Rome, Georgia, 2004.

Geological Society of America Annual Meeting, November 7-10, 2004, Denver, Colorado

Annual Meeting of the Southeastern Section of Geological Society of America, March 17-18, 2005, Biloxi, Mississippi

Annual Meeting of Georgia Academy of Science, Gordon College, Georgia, 2005.

Annual Field Trip of the Georgia Geological Society, Elberton, Georgia, October 8, 2005

Geological Society of America Annual Meeting, October 16-19, 2005, Salt Lake City, Utah

Annual Meeting of the Southeastern Section of Geological Society of America, March 23-24, 2006, Knoxville, Tennessee

Annual Meeting of Georgia Academy of Science, Georgia Perimeter College, Georgia, 2006.

Annual Meeting of the Georgia Association of Water Professionals, July 31 – August 2, 2006, Atlanta, Georgia

Annual Field Trip of the Georgia Geological Society, Jekyll Island, Georgia, October 6-8, 2006

Geological Society of America Annual Meeting, October 22-25, 2006, Philadelphia, Pennsylvania, Invited speaker.

Annual Meeting of the Southeastern Section of Geological Society of America, March 29-30, 2007, Savannah, Georgia

Annual Meeting of Georgia Academy of Science, Albany State University, Georgia, 2007.