

Curriculum Vita

1. Academic History

Name: Paul A. Schroeder

Present Rank, proportion time assignments: Professor (0.375 research, 0.375 instruction)

Graduate Faculty Status: member (also member of Honors Faculty).

Highest Degree, Institution, date: PhD, Yale University, 1992

Other Degrees, Institution, date

- MPhil Geology - Yale University, 1989
- MS Marine Science - University of South Florida, 1981
- BA Geology (*Cum Laude*) - New England College, 1978

Academic Positions:

- 2004 - present: **Professor**, Department of Geology, University of Georgia
- 2007 - 2014: **Co-Director**, [Center for Advance Ultrastructural Research, University of Georgia](#)
- 2006 - 2014: **Associate Head**, Department of Geology, University of Georgia
- 2004 - 2006, 2013: **Graduate Coordinator**, Department of Geology University of Georgia
- 2000 - present **Museum Adjunct** - Georgia Museum of Natural History.
- 1997 - 2004: **Associate Professor**, Department of Geology University of Georgia
- 1992 - 1997: **Assistant Professor**, Department of Geology University of Georgia
- 1991 - 1992: **Temporary Assistant Professor**, Department of Geology University of Georgia
- 1989 -1991: **Teaching Fellow**, Yale University
- 1978 - 1981: **Research Assistant**, University of South Florida
- 1978: **Laboratory Instructor**, R.S. Friedman Cobscook Bay Laboratory, Maine, Suffolk University

Other Professional Employment:

- 2007 - present: Registered **Professional Geologist**, State of Georgia: License # [PG001892](#)
- 1987-1991: **Visiting Scientist** at Schlumberger-Doll Research Laboratory, Ridgefield, CT
- 1981-1985: **Research Geologist**, Texaco Research Center at Houston, TX
- 1978-1980: **Geologic Field Assistant**, United States Geologic Survey, St Petersburg, FL

Post-Graduate Awards and Elected positions:

- 2014-2015 [TÜBITAK Eminent Visiting Scholar Fellowship](#)
- 2011-2012 [President of the Georgia Geological Society](#)
- 2010-2011 [President of The Clay Minerals Society](#)
- 2009-2010 [Vice President of The Clay Minerals Society](#)
- 2008-2009 [VP-Elect Clay Minerals Society](#)
- 2007 [Marion L. and Chrystie M. Jackson Clay Scientist Award](#), Clay Minerals Society
- 2004 Distinguished Member of [The National Society of Collegiate Scholars](#)
- 2002 Istanbul Technical University Distinguished Lecture (Sponsored by TUBITAK)
- 2000 [University of Georgia Lothar Tresp Outstanding Honors Professor Awards](#)
- University of Georgia Research Foundation, Provost, and Venture Funds Travel Awards for the presentation of international papers:
 - 2015 EuroClay Conference, Edinburgh, Scotland
 - 2013 Geological Society of America Southeastern Section, San Juan, Puerto Rico
 - 2011 EuroClay Conference, Antalya, Turkey
 - 2010 Trilateral Clay Meeting, Seville, Spain
 - 2005 International Clay Conference, Tokyo, Japan
 - 2001 International Clay Conference, Biaha Blanca, Argentina
 - 1999 European Clay Groups Meeting, Krakow, Poland
 - 1992 International Clay Conference, Adelaide, Australia
 - 1992 International Geological Congress, Kyoto, Japan

2. Resident Instruction and continuing education (# of students):

- **GEOL1121 - Earth Processes and Environments or Physical Geology** Fall 1991 (25), Winter 1992 (98), Spring 1992 (99), Fall 1998 (25), Fall 1999 (20), Fall 2000 (25), Fall 2001 (14), Fall 2002 (24), Fall 2003 (24), Fall 2004 (140), Fall 2005 (130), Fall 2006 (140), Fall 2007 (140), Fall 2008 (140), Fall 2009 (138), Fall 2010 (110), Spring 2012 (88), Fall 2012 (25), Spring 2013 (23), Fall 2015 (35), Fall 2016 (20)
- **GEOL2350H - Honors Physical Geology** and/or **GEOL2360H - Honors Historical Geology** Fall 1992 (18), Summer 1993 (18), Fall 1993 (20), Summer 1994 (23), Fall 1994 (19) Summer 1995 (23), Fall 1995 (12), Summer 1996 (23), Fall 1996 (13), Fall 1997 (15), Summer 1997 (23), Summer 1998 (24), Fall 1998 (24), Fall 1999 (24), Summer 2001, (24), Fall 2001 (24), Summer 2002, (25), Summer 2003, (24), Summer 2004, (24), Summer 2005, (17), Summer 2008 (14), Summer 2010 (17), Summer 2011 (10), Summer 2012 (14), Summer 2013 (10), Summer 2014 (7).
- **GEOL3010 - Mineralogy and Crystallography or Earth Materials** Fall 1992 (18), Fall 1993 (26), Fall 1994 (20), Fall 1995 (26), Fall 1996 (24). Fall 1997 (20) Fall 1998 (22), Fall 1999 (16), Fall 2000 (15), Fall 2001 (14), Fall 2002 (15), Fall 2002 (12), Fall 2015 (19), Fall 2016 (20)
- **GEOL3020 - Surficial Processes** Fall 2004 (8), Fall 2005 (8), Fall 2005 (14), Fall 2006 (19), Fall 2007 (24), Fall 2008 (15), Fall 2009 (13), Fall 2010 (30), Fall 2011 (30), Fall 2012 (35), Fall 2013 (35), Spring 2015 (5) at ITÜ, Fall 2015 (23), Fall 2014 (25), Fall 2015 (20)
- **GLY4/660 - X-ray Crystallography** Winter 1994 (5), Winter 1996 (1)
- **GEOL4/6560 - Weathering, Soils and Saprolite** 2000 (5).
- **GEOL6910 - Topics in Geochemistry** Winter 1994 (1 Student), Winter 1996 (5), Winter 1998 (2), Winter 1999 (6), Spring 2000 (2), Spring 2001 (2). Spring 2003 (5), Spring 2004 (2)
- **FRES1010 / FYOS1010- Freshman Seminar / First Year Odyssey - White Gold - The Georgia billion dollar kaolin industry** - Spring 2001 (11), Spring 2004 (10), Spring 2010 (8), Fall 2011 (12)
- **HONS3070H - Honors Seminar - Undergraduate Research Opportunities in the physical and biological sciences** - Spring 2002 (15), Spring 2004 (15). Spring 2005 (15), Spring 2006 (17), Spring 2007 (16), Spring 2008 (15), Spring 2009 (15), Spring 2010 (15), Spring 2011 (12).
- **GEOL8550 (formally) 4/6550 - Clay Mineralogy** Winter 1993 (6), Winter 1995 (5), Winter 1998 (6), Spring 2002 (6), Spring 2004 (5), Spring 2006 (6), Spring 2008 (7), Spring 2010 (8), Spring 2012 (9), Spring 2014 (10), Spring 2015 (10) at ITÜ
- **PEDB1100 Backpacking and Hiking** - Summer 2008 (6), Summer 2010 (7), Summer 2011 (6), Summer 2012 (5)

3. Publications

Books:

1. **Schroeder, Paul A.** 2017 *Clays in the Critical Zone* Cambridge University Press (in preparation)
2. **Schroeder, Paul A.** [2010](#) *Clays of Yellowstone National Park*, CMS Workshop Lectures, Vol. 17. The Clay Minerals Society, Chantilly, VA., 94 pp.

Journal Articles (refereed):

1. Lars Riber, Henning Dypvik, Ronald Sørliie , Syed Asmar Aal-E-Muhammad Naqvi, Kristian Stangvik, Nikolas Oberhardt, **Paul A. Schroeder.** 2017. Comparison of deeply buried paleoregolith profiles, Norwegian North Sea, with outcrops from southern Sweden and Georgia, USA - Implications for petroleum exploration. *Palaeogeography, Palaeoclimatology, Palaeoecology* in press. DOI: 10.1016/j.palaeo.2017.01.043

2. **Schroeder, P.A.** 2016 Clays in the Critical Zone: An Introduction. *Clays and Clay Minerals*, v. 64(5) 486-486. DOI: 10.1346/CCMN.2016.064045
3. Bozkaya, Ö., A. Günal-Türkmenoğlu, M. C. Göncüoğlu, Ö. Ünlüce, İ. Ö. Yilmaz and **P. A. Schroeder** 2016. "Illitization of Late Devonian-Early Carboniferous K-bentonites from Western Pontides, NW Turkey: Implications for their origin and age." *Applied Clay Science* 134: 257-274.
4. Cyle, K., N. Hill, K. Young, T. Jenkins, D. Hancock, **P.A. Schroeder** and A. Thompson 2016. Substrate quality influences organic matter accumulation in the soil silt and clay fraction. *Soil Biology and Biochemistry* 103: 138-148.
5. Orucoglu, E. and **P. A. Schroeder** 2016. "Investigating the expanding behavior and thermal stability of HDPy modified organo-bentonite by X-ray diffraction technique." *Applied Clay Science*.
6. Ünal Ercan, H., Ö. Işık Ece, **P. A. Schroeder** and Z. Karacik 2016. "Differentiating Styles of Alteration Within Kaolin-Alunite Hydrothermal Deposits of Çanakkale, NW Turkey." *Clays and Clay Minerals* 64(3): 245-274.
7. Austin, Jason C. and **Paul A. Schroeder**. 2015 C-14 ages of the carbonate component or natural goethite from an Ordovician Neda Formation paleosol. *Geology* in review.
8. Fitzpatrick, Stephan D., **Paul A. Schroeder**, and Dinku M. Endale. [2015](#) Creating deep soil core monoliths: Beyond the solum. *Southeastern Geology*, v. 51(2) V.51, no2, p. 85-96.
9. Austin, Jason C. and **Paul A. Schroeder**. [2014](#) Assessment of pedogenic gibbsite as a paleo-PCO₂ proxy using a modern Ultisol. *Clays and Clay Minerals*, Vol. 62, No 5, 235-266.
10. **Schroeder, Paul A** and Gary Erickson. [2014](#) Kaolin: From ancient porcelains to nanocomposites. *Elements* 10: 177-182.
11. Ömer I. Ece, Bala Ekinçi, **Paul A. Schroeder**, Douglas Crowe, and Fahri Esenli. [2013](#) Origin of the Düvertepe kaolin-alunite deposits in Simav Graben, Turkey: timing and styles of hydrothermal mineralization. *Journal of Volcanology and Geothermal Research*, Vol. 255, 57-78.
12. Yahya Ozpinar, Baris Semiz , and **Paul A. Schroeder**. [2013](#) Zeolites in mafic pyroclastic rocks from the Sandikli-Afyonkarahisar region, Turkey. *Clays and Clay Minerals*, Vol. 61, No. 3, 177-192.
13. Mark A. Engle, Lawrence F. Radke, Edward L. Heffern, Jennifer M.K. O'Keefe, James C. Hower, Charles D. Smeltzer, Judith M. Hower, Ricardo A. Olea, Robert J. Eatwell, Donald R. Blake, Stephen D. Emsbo-Mattingly, Scott A. Stout, Gerald Queen, Kerry L. Aggen I, Allan Kolker, Anupma Prakash, Kevin R. Henke, Glenn B. Stracher, **Paul A. Schroeder**, Yomayra Román-Colón, Arnout ter Schure [2012](#) Gas emissions, minerals, and tars associated with three coal fires, Powder River Basin, USA *Science of The Total Environment*, Volume 420, 15 March 2012, Pages 146-159.
14. Diaz, M., Robert, J-L. **Schroeder, P. A.** and Prost, R. [2010](#) Far infrared study of the influence of the octahedral sheet composition on the K⁺-layer interactions in synthetic phlogopites. *Clays and Clay Minerals*, v. 58(2) 263-271.
15. **Schroeder, P.A.**, [2010](#) Natural occurrence of elevated arsenic and selenium in Georgia regolith: Implications for their relative mobility in Piedmont soils. *Southeastern Geology*, v. 47, No. 1, p. 15-26.
16. Ece, Ö.I., **Schroeder, P.A.**, Smilley, M. and Wampler, M. [2008](#) Acid-sulfate alteration of volcanic rocks and genesis of halloysite and alunite deposits in the Biga Peninsula, NW Turkey. *Clay Minerals* v.43, 281-315.
17. Kyle, Jennifer, **Schroeder, P.A.**, and Wiegel, J. [2007](#) Microbial silicification in sinters from two terrestrial hot springs in the Uzon Caldera, Kamchatka, Russia. *Geomicrobiology Journal*. v. 24, 627-641.
18. Pone, J. Denis N., Kim A.A. Hein, Glenn B. Stracher, Harold J. Annegarn, Robert B. Finkleman, Donald R. Blake, John K. McCormack, **Paul Schroeder**. [2007](#) The spontaneous combustion of coal and its by-products in the Witbank and Sasolburg coalfields of South Africa, *International Journal of Coal Geology*, v. 72, 124-140.
19. Ö. Isik Ece and **Schroeder, Paul A.** [2007](#) Hydrothermal Alteration of Oligocene volcanic rocks and genesis of halloysite-alunite-kaolinite deposits in the Turplu area, Balikesir, Turkey. *Clays and Clay Minerals*, 55(1), 18-36.
20. Kyle, Jennifer and **Schroeder, Paul A.** [2007](#) Role of smectite in siliceous sinter formation and microbial texture preservation: Octopus Spring, Yellowstone National Park, Wyoming, USA. *Clays and Clay Minerals*, v. 55(2): 189-199.

21. **Schroeder, Paul A.**, Jason C. Austin, John F. Dowd [2006](#) Estimating long-term soil respiration rates from carbon isotopes occluded in gibbsite, *Geochimica et Cosmochimica Acta*. v. 70/23, 5692-5697
22. Glenn B. Stracher, Anupma Prakash, **Paul A. Schroeder**, John McCormack, Xiangmin Zhang, Paul van Dijk, and Donald Blake [2005](#) New mineral occurrences and mineralization processes: Wuda coal-fire gas vents of Inner Mongolia. *American Mineralogists*. v. 90 1729-1739.
23. R. Scott Harris, Michael F. Roden, **Paul A. Schroeder**, Steven M. Holland, Mack S. Duncan, and Edward F. Albin [2004](#) An Upper Eocene Impact Horizon in East-Central Georgia, *Geology* Vol. 32, No. 8, 717–720.
24. **Schroeder, P. A.**, and R. Scott Harris, [2004](#) X-ray powder diffraction evidence for shocked quartz in an Upper Eocene sand deposit, Warren County, Georgia, U.S.A, *Southeastern Geology* v. 42(3) 145-150.
25. **Schroeder, P. A.**, Robert J. Pruettt and Nathan D. Melear [2004](#) Crystal-chemical changes in an oxidative weathering front in a middle Georgia kaolin deposit. *Clays and Clay Minerals* v. 52, 212-220.
26. **Schroeder, P. A.**, Nathan D. Melear and Robert J. Pruettt [2003](#) Quantitative analysis of anatase in Georgia kaolins using Raman spectroscopy *Applied Clay Science*, v. 23 (5-6) p. 299-308.
27. Ö. Isik Ece, Zenbe-E Nakagawa, and **P.A. Schroeder**, [2003](#) Alteration of volcanic rocks and Genesis of kaolin deposits in Sile region, northern Istanbul, Turkey, Part - I: Clay mineralogy, *Clays and Clay Minerals*, v. 51, No. 6, 675-688.
28. **Schroeder, P. A.**, J.J. Le Golvan and M. Roden. [2002](#) Weathering of ilmenite from granite and chlorite schist in the Georgia Piedmont, USA *American Mineralogists*. v. 87 (12) 1616-1625.
29. **Schroeder, P. A.**, Melear, N. D., Bierman, P., Kashgarian, M., and Caffee, M., [2001](#) Gibbsite growth ages for the regolith in the Georgia Piedmont: *Geochimica et Cosmochimica Acta*, v. 65 (3) p. 381-386.
30. **Schroeder, P. A.**, and Shiflet, J., [2000](#) Ti-bearing phases in an east Georgia kaolin deposit: *Clays and Clay Minerals*, v. 48(2) 151-158.
31. **Schroeder, P. A.**, Melear, N. D., West, L. T., and Hamilton, D. A., [2000](#) Meta-gabbro weathering in the Georgia Piedmont, USA: Implications for global silicate weathering rates: *Chemical Geology*, v.163, 235-245
32. **Schroeder, P. A.**, and Melear, N. D., [1999](#) Stable carbon isotopic signatures preserved in authigenic gibbsite from a forested granitic regolith: Panola Mt., Georgia, USA.: *Geoderma*, p. v 91 p. 261-279.
33. **Schroeder, P.A.**, Pruettt, R.J., and Hurst, V.J., [1998](#) Effects of secondary iron phases on kaolinite ²⁷Al MAS NMR spectra: *Clays and Clay Minerals*, v. 46(4), 429-435.
34. **Schroeder, P.A.** and Irby, R. [1998](#) Detailed X-ray diffraction characterization of illite-smectite from an Ordovician K-bentonite, Walker County, Georgia, USA. *Clay Minerals*, v. 33, 671-674.
35. **Schroeder, P.A.**, and McLain, A.A., [1998](#), Illite-smectites and the influence of burial diagenesis on the geochemical cycling of nitrogen: *Clay Minerals*, v. 33, 539-546.
36. Hurst, V.J., **Schroeder, P.A.**, and Styron, R.W., [1997](#) Accurate quantification of quartz and other phases by powder x-ray diffractometry: *Analytica Chimica Acta*, v. 337, 233-252.
37. **Schroeder, P. A.**, Kim, J. G. and Melear, N. D. [1997](#) Mineralogical and textural criteria for recognizing remnant Cenozoic deposits on the Piedmont: Evidence from Sparta and Greene County, Georgia, U.S.A. *Sedimentary Geology*. v. 108, 195-206.
38. **Schroeder, P.A.** and Pruettt, R. [1996](#) Iron ordering in kaolinites: Insights from ²⁹Si and ²⁷Al NMR spectroscopy. *American Mineralogist*, v. 81, 26-38.
39. **Schroeder, P.A.** and Ingall E. D. [1994](#) A method for the determination of nitrogen in clays, with application to the burial diagenesis of shales. *Journal of Sedimentary Research*, v. A64, 694-697.
40. **Schroeder, P.A.** [1993](#) A chemical, XRD and ²⁷Al NMR investigation of Miocene Gulf Coast shales with application to understanding illite/smectite crystal chemistry: *Clays and Clay Minerals*, v. 41(6). 668-679
41. **Schroeder, P.A.** [1992](#) Far infrared study of the interlayer torsional-vibrational mode of mixed-layer illite/smectite. *Clays and Clay Minerals*. v. 40(1), 81-91.
42. **Schroeder, P.A.** [1990](#) Far infrared, X-ray powder diffraction and chemical investigation of potassium micas, *American Mineralogist*. v. 75, 983-991.
43. Berner, R. A., E. K. Berner, **P.A. Schroeder**, T. W. Lyons, [1990](#) Comment and Reply on "Sodium-calcium ion exchange in the weathering of shales: Implications for global weathering budget". *Geology* v. 18(2), 190.

44. Ingall, E.D., **P.A. Schroeder** and Robert A. Berner [1990](#) The nature of organic phosphorus in marine sediments: New insights from ^{31}P NMR. *Geochimica et Cosmochimica Acta*, v. 54, 2617-2620.

Series Editor:

1. Clays in the Critical Zone: An Introduction. 2016 *Clays and Clay Minerals* Vol. 64
2. *Kaolins* [2014](#) *Elements* Volume 10, Number 3. Geoscience World. ISSN 1881-5217.
3. *Clay-based Polymer Nanocomposites (CPN)*, [2007](#) CMS Workshop Lectures, Vol. 15, Kathleen A. Carrado and Faïza Bergaya eds., The Clay Minerals Society, Chantilly, VA. v. 15, p 278.
4. *Methods For Study Of Microbe – Mineral Interactions* [2006](#) Patricia A. Maurice and Lesley A. Warren eds., Clay Minerals Society Workshop Lectures Series. The Clay Minerals Society, Chantilly, VA, v. 14, p.165.
5. *The Application Of Vibrational Spectroscopy To Clay Minerals And Layered Double Hydroxides* [2005](#) J. Theo Kloprogge ed., Clay Minerals Society Workshop Lectures Series. The Clay Minerals Society, Aurora. CO. v. 13. p. 285.
6. *Teaching Clay Science* [2002](#) Steve Guggenheim and Audrey Rule, eds., Clay Minerals Society Workshop Lectures Series. The Clay Minerals Society, Aurora. CO. v. 11. p. 223.
7. *Electrochemical Properties of Clays* [2002](#) Alanah Fitch ed., Clay Minerals Society Workshop Lectures Series. The Clay Minerals Society, Aurora. CO. v. 10. p. 256.

Chapters in books and encyclopedias:

1. Glenn B. Stracher, **Paul A. Schroeder**, Yelena White, and Claudia Kuenzer, ([2015](#)) Coal Combustion and Mineralization in the Helan Shan Mountains. *in* Coal and Peat Fires: A Global Perspective. Edited by Glenn B. Stracher, Anupma Prakash and Ellina V. Sokol. Elsevier B.V. 96-108.
2. Glenn B. Stracher, Claudia Kuenzer, Christoph Hecker, Jianzhong Zhang, **Paul A. Schroeder**, John K. McCormack ([2012](#)) Wuda and Ruqigou Coalfield Fires of Northern China. Chapter 4, *in* Coal and Peat Fires: A Global Perspective: A Global Perspective Photographs and Multimedia Tours. 41-56.
3. Glenn B. Stracher, Alfred E. Whitehouse, Asep A. S. Mulyana, **Paul A. Schroeder**, John K. McCormack ([2012](#)) Indonesian Coal Fires of East Kalimantan, Borneo, Chapter 11, *in* Coal and Peat Fires: A Global Perspective: A Global Perspective Photographs and Multimedia Tour. 179-190.
4. Glenn B. Stracher, Robert B. Finkelman, John K. McCormack, **Paul A. Schroeder**, Denis Pone, Harold Annegarn, Donald R. Blake ([2012](#)) Witbank and Free State Coalfield Fires of South Africa, Chapter 21, *in* Coal and Peat Fires: A Global Perspective: A Global Perspective Photographs and Multimedia Tour. 407-426.
5. Stracher, Glenn, Whitehouse A., Mulyana A., **Schroeder, Paul A.** and McCormack, J. ([2011](#)) Indonesian Coal Fires of East Kalimantan, Borneo. Chapter 8 in Coal and Peat Fires: A Global Perspective: Volume 2. Edited by Glenn B. Stracher, Ellina V. Sokol, and Anupma Prakash Publisher: Elsevier (Earth and Environmental Sciences). *In press*
6. **Schroeder, Paul A.** Chris Fleisher, and Glenn Stracher ([2010](#)) Identification of Coal Fire Mineral Assemblages, Chapter 10 *in* Coal and Peat Fires: A Global Perspective: Volume 1 Coal – Geology and Combustion. Edited by Glenn B. Stracher, Ellina V. Sokol, and Anupma Prakash. Publisher: Elsevier (Earth and Environmental Sciences). 155-171.
7. Jarrad, Amber and **Schroeder, Paul A.** ([2010](#)) Inquiry-based pedagogy for learning about clays of Yellowstone National Park, CMS Workshop Lectures Series, Vol. 17, Paul A. Schroeder ed., The Clay Minerals Society, Chantilly, VA, 53-65.
8. Stracher, Glenn B., Robert B. Finkelman, James C. Hower, J. Denis N. Pone, Anupma Prakash, Donald R. Blake, **Paul A. Schroeder**, Stephen D. Emsbo-Mattingly and Jennifer M.K. O'Keefe (Lead Authors); A.

- Umran Dogan (Topic Editor). 2009. "Natural and anthropogenic coal fires." In: Encyclopedia of Earth. Eds. Cutler J. Cleveland (Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment). Published in the Encyclopedia of Earth September 22, 2009. <http://www.eoearth.org/article/Natural_and_anthropogenic_coal_fires>
9. Theresa E. McReynolds, Sheldon A. Skaggs, and **Paul A. Schroeder** (2008) Feldspar and Clay Mineralogy *in Woodland Pottery Sourcing in the Carolina Sandhills* Edited by Joseph M. Herbert and Theresa E. McReynolds. Research Report No. 29, Research Laboratories of Archaeology, The University of North Carolina at Chapel Hill. 108-121.
 10. **Schroeder, Paul A.** and Larry West (2005) Weathering profiles developed on Granitic and Mafic terrains in the area of Elberton, Georgia, *in* Geologic Investigations of Elberton Granite and Surrounding Rocks. *Georgia Geological Society Guidebook*, (eds) Roden, Schroeder, and Swanson, The Georgia Geological Society, Atlanta, GA v. 25. p. 55-80.
 11. **Schroeder, P.A.** (2002) Infrared Spectroscopy in Clay Science. *in Teaching Clay Science*, (ed.) Steve Guggenheim and Audrey Rule, Clay Minerals Society Workshop Series. The Clay Minerals Society, Aurora. CO. v. 13. 181-202.
 12. **Schroeder, P.A** (2001) The Kaolin Industry. in *The New Georgia Encyclopedia*. Georgia University Press.
 13. **Schroeder, P.A.** (1992) A multiple reaction mechanism (MRM) model for illitization during burial diagenesis. *in Clay minerals and their natural resources*, ed. K. Nagasawa, 29th International Geological Congress Workshop WB-1, Kyoto, Japan. 79-88.
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Field Guides:

1. **Schroeder, Paul A.**, Joseph T. Forest, and Jerry M. German. (2013) The Dahlonega Wine and Gold District: Geology and Terroir of Viticulture in Northeastern Georgia. Georgia Geological Society Guidebooks, vol 33. no 1, 111 pp.
2. **Schroeder, Paul A.** and G. O. Allard (2010) Elberton Georgia Granite: Geology and Industry Insights. Field guide for annual meeting of the AAPG. Trustees Associates annual meeting. Held October 26, 2010. Reynolds Plantation Ritz Carlton, Greensboro, GA. 36 pp.
3. Stracher, G.B., Lindsley-Griffin, N., Griffin, J.R., Renner, S., **Schroeder, P.**, Viellenave, J.H., Masalehdani, M.N.-N., and Kuenzer, C., (2007), Revisiting the South Cañon Number 1 Coal Mine fire during a geologic excursion from Denver to Glenwood Springs, Colorado, in Reynolds, R.G., ed., *Roaming the Rocky Mountains and Environs: Geological Field Trips: Geological Society of America Field Guide 10*, p. 101–110.
4. Stracher, Glenn, B., Nolter, Melissa A., **Schroeder, Paul**, McCormack, John, Blake, Donald R., and Vice, Daniel H. (2006) The great Centralia mine fire: A natural laboratory for the study of coal fires. *Geological Society of America Field Guide 8*, p. 33-47.
5. Michael F. Roden, **Paul A. Schroeder**, and Samuel E. Swanson (2005) Geologic Investigations of Elberton Granite and Surrounding Rocks. *Georgia Geological Society Guidebook*, The Georgia Geological Society, Atlanta, GA v. 25. 120 p.
6. J. C. Gray and **P. A. Schroeder** (2003) Mineralogy of Graves Mountain, Lincoln County, Georgia, in *Classic Clays and Minerals Field Trips*, Field guide for the 40th annual meeting of the Clay Minerals Society jointly held with the Mineralogical Society of America, Athens, GA, June 7-12, 2003, (ed. Crawford Elliott), Clay Minerals Society, Aurora, CO, 57-67.
7. L.T. West, D.A. Hamilton-Wood and **P.A. Schroeder** (2003) Soils Developed from Contrasting Parent Materials in the Georgia Piedmont: Clay Mineralogy, Weathering, and Parent Material Uniformity, in *Classic Clays and Minerals Field Trips*, Field guide for the 40th annual meeting of the Clay Minerals Society jointly held with the Mineralogical Society of America, Athens, GA, June 7-12, 2003(ed. Crawford Elliott), Clay Minerals Society, Aurora, CO, pp. 31.
8. **Schroeder, P. A.** (1999) Common minerals of Graves Mountain, Georgia. In *Graves Mountains Georgia: Mineralogy, Economic geology and environmental problems*. Field guide for the Southeastern section Geological Society of America Meeting (Eds. D. Crowe, P. Schroeder, T. Rasmussen, D. Wenner and J. Williams), University of Georgia Department of Geology, Athens, GA, 12-32.

Abstracts: (first authored)

1. **Schroeder, Paul A.,** [Ö Isik Ece, Cansu Demirel, Adam Milewski](#) (2016) [Reconnaissance Oxygen And Hydrogen Stable Isotope Geochemistry Of Waters From The Critical Zone In The Iznik Lake Basin Region, Turkey](#), Conference Paper, 7th Geochemistry Symposium, Antalya / TURKEY
2. **Schroeder, Paul A.,** and Jason C. Austin. (2015) Dynamics of mineral recrystallization at the Earth's surface: Evidence from Udisols, kaolins, and paleosols with implications for the ages of rocks. [EuroClay 2015](#) and CMS 51st annual meeting, Edinburgh, Scotland.
3. **Schroeder, Paul A.,** Ömer Isik Ece, and Nurgul Celik Balci (2015) Critical Zone Observatories: Overview and current research activities in Turkey and the United States. [68th Turkish Geological Congress](#), Ankara, Turkey.
4. **Schroeder, Paul A.** (2013) Intellectual clay science genealogy of Paul A. Schroeder. [Clay Minerals Society Annual 50th Annual meeting](#). University of Illinois at Urbana-Champaign Program with abstracts, p. 233.
5. **Schroeder, Paul A.** and Jason C. Austin (2013) Carbon and oxygen isotopes in pedogenic gibbsite: An emerging resource for understanding soil forming and transport processes. [Clay Minerals Society Annual 50th Annual meeting](#). University of Illinois at Urbana-Champaign Program with abstracts, p. 224.
6. **Schroeder, Paul A.,** Douglas E. Crowe, Thomas R. Jordan, Juergen Weigel, and Gennadii Karpov (2011) Cluster Analysis of X-Ray Diffraction, Short-Wave Infrared, Color, and Four-Band Quickbird Satellite Data for The Purpose Of Mapping Mineral Assemblages in the Uzon Caldera, Kamchatka, Russia. [Clay Minerals Society Annual meeting](#). Abstract with programs. Lake Tahoe, NV.
7. **Schroeder, Paul A.** Douglas E. Crowe, Thomas R. Jordan, Juergen Weigel, and Gennadii Karpov, 2011 Spatial Versus Spectral Resolution: What Works For Evaluating Clay Mineral Assemblages In Caldera Uzon, Kamchatka, Russia, Presented at symposium: Are extremophiles the key to advances in bioenergy? [Program](#) with abstracts, Athens, GA September 19, 2011.
8. **Schroeder, P. A.,** Diaz, M., Robert, J-L. and Prost, R. 2010. Far infrared study of the influence of the octahedral sheet composition on the K⁺-layer interactions in synthetic phlogopites. Geological Society of America Annual Meeting. Program with Abstracts, Paper No. 277-11. Denver, CO
9. **Schroeder, Paul A.** and Austin J. 2010. Reassessing atmospheric paleo-PCO₂ with Monte Carlo simulations and carbon isotope proxies in hydroxide soil minerals: A case for lowering paleo- atmospheric CO₂ estimates by factor of 10. Trilateral meeting of The Clay Mineral Society (CMS), the Clay Science Society of Japan (CSSJ) and the Spanish Clay Society (SEA). Abstracts with Programs. Seville, Spain.
10. **Schroeder, Paul A.** 2010. Natural occurrence of elevated selenium and arsenic in the Georgia Piedmont: Implications for their relative mobility in soils. GSA Abstract with Programs, Vol. 41, No. 1 Session #33 Selenium as an essential micronutrient and geographic sources and efficacy. Abstract # [169374](#). NE/SE regional meeting, Baltimore, MD.
11. **Schroeder, Paul A.** and Jennifer E. Kyle 2009 Smectite and siliceous sinter formation in Octopus Spring, Yellowstone National Park, Wyoming, USA. Clay Minerals Society Annual meeting, Abstract with programs. Billings, MT.
12. **Schroeder, Paul A.** 2008 Naturally elevated arsenic- and selenium-bearing soils in the southeastern U.S. Piedmont. The Clay Minerals Society Annual Meeting jointly held with the American Chemical Society, New Orleans, LA. Abstract with programs.
13. **Schroeder, Paul A.,** Elizaveta Bonch-Osmolovskaya, Albert Colman, Douglas Crowe, Gennady Karpov, Jennifer Kyle, Frank Robb, Christopher Romanek, Juergen Wiegeler, Chuanlun Zhang. 2007 Microbially dominated terrestrial hot spring mineral assemblages in Kamchatka Russia: The present is the key to past. GSA Abstracts with Programs, Denver, CO.
14. **Schroeder, Paul A.,** Elizaveta Bonch-Osmolovskaya, Elizabeth Burgess, Albert Colman, Douglas Crowe, Julie Fiser, Maggie Hodges, Elizabeth Hollingsworth, Gennady Karpov, Ilya Kublanov, Jennifer Kyle, Gary Mills, Andrew Neal, Nikolai Pimenov, Frank Robb, Christopher Romanek, Tatiana Slepova, Tatyana

- Sokolova, Elisabeth Spencer, Stephen Techtmann, Isaac Wagner, Juergen Wiegel, Noah Wittman, Chuanlun Zhang, and Weidong Zhao. 2007 Nitrogen And Smectites From Terrestrial Hot Springs In The Uzon Caldera, Kamchatka, Far-Eastern Russia, The Clay Minerals Society Annual meeting, Santa Fe, NM. Abstract with programs.
15. **Schroeder, Paul A.**, Austin, Jason C., and Dowd, John F. 2006 A numerical model for estimating long-term respiration rates from carbon occluded in soil gibbsite. GSA Abstracts with Programs, Paper No. 195-2, Philadelphia, PA.
 16. **Schroeder, Paul A.**, S. Cady, D.E. Crowe, G. Karpov, G. King, G. Mills, A. Neal, E. Bonch-Osmosolovskaya, F. Robb, C. Romanek, T. Sokolova, J. Wiegel, and C. Zhang. 2006 Geothermal Biology and Geochemistry in Kamchatka, Russia: Connections between Uzon Caldera, Geyser Valley and the YNP - Research Coordination Network, NSF-sponsored Research Coordination Network workshop and Thermal Biology Institute, Montana State University, abstract with program, Bozeman, MT.
 17. **Schroeder, Paul A.** 2005 Clay mineral and hyperthermophilic microbe relationships in terrestrial hot spring deposits, American Chemical Society, 40th Midwest Regional Meeting, Joplin, MO. ACS paper #22645.
 18. **Schroeder, Paul A.** 2005 Clays at the interface of geology and biology. Invited keynote address to theme session on Clays and Geology. 13th International Clay Conference, A.P.I.E.A., Tokyo, Japan, Abstracts with Program.
 19. **Schroeder, Paul A.** 2005 Clays at the interface of geology and biology. Clay Minerals Society Annual meeting, Abstract with programs. Burlington, VT.
 20. **Schroeder, Paul A.**, Michael J. Smilley, Ö. Isik Ece, and Marion Wampler 2004 Sulfur isotope and potassium argon analysis of minerals from the Turplu halloysite mine, Balisiker region, northwest Turkey. Clay Minerals Society Annual meeting, Richland, WA. Abstract with programs.
 21. **Schroeder, Paul A.**, Kyle, Jennifer; Neal, Andrew I.; Romanek, Christopher S. 2003 High-resolution analytical approaches to characterizing bio/lithofacies in the microbial habitats of terrestrial hot springs. GSA Abstracts with Programs, abstract [#59576](#), Seattle. WA.
 22. **Schroeder, Paul A.**, Kyle, Jennifer; Neal, Andrew I.; Romanek, Christopher S. 2003 High-resolution analytical approaches to characterizing bio/lithofacies in the microbial habitats of terrestrial hot springs. Microbial Networks Meeting, NSF Workshop, September 15-16, 2003, Washington, DC.
 23. **Schroeder, Paul** and Ö. Isik Ece 2003 Clay morphology, mineralogy, and crystal chemistry of hydrothermally altered Oligocene volcanic rocks in the Turplu area, Balikesir, Turkey. Clay Minerals Society Annual meeting, Athens, GA. Abstract with programs.
 24. **Schroeder, Paul A.**, R. Scott Harris, Michael F. Roden, Steven M. Holland, and Mack Duncan 2002 X-ray diffraction evidence for shocked quartz in Atlantic Coastal Plain deposits, Warren County, Georgia, U.S.A. GSA Abstracts with Programs, abstract [#38959](#) Denver CO.
 25. **Schroeder, Paul A.**, R.J. Pruet, and J. Yuan 2001 Lateral variations in mineral properties with middle Georgia Kaolin deposits. 12th International Clay Conference, A.P.I.E.A., Biaha Blanca, Argentina. Abstract with Program.
 26. **Schroeder, Paul A.** and Le Golvan J.J. 2001 The fate of ilmenite in residual temperate to sub-tropical weathering profiles. Clay Minerals Society Annual meeting, Madison, WI. Abstract with programs.
 27. **Schroeder, Paul A.** and Melear, N. D. 2001 Carbon in gibbsite: Its use for understanding long term CO₂ efflux in residual soils Clay Minerals Society Annual meeting, Madison, WI. Abstract with programs.
 28. **Schroeder, Paul A.**, Melear, Nathan D., Bierman, Paul R., Caffee, Mark W., Kashgarian, Michael. 2000 Evidence for the recrystallization of secondary soil minerals and implications for estimates of paleo-atmospheric conditions. The Geological Society of America Annual Meeting, Abstract [#50472](#): GSA, Reno NV.
 29. **Schroeder, Paul A.**, Nathan D. Melear and Robert J. Pruet 2000 Non-anatase TiO₂ in a middle Georgia kaolin deposit: A Raman spectroscopic perspective. Clay Minerals Society Annual meeting, Chicago, IL. Abstract with program.
 30. **Schroeder, Paul A.** and N.D. Melear 1999 Inclusion of carbon into pedogenic gibbsite. European Clay Groups Meeting. Krakow, Poland. Abstract with programs p. 130-131.
 31. **Schroeder, Paul A.** 1999 Long-term soil respiration rates. The Geological Society of America Annual Meeting, Abstract #51470: GSA Denver Colorado.

32. **Schroeder, Paul A.** and Jason Shiflet 1999 The distribution of Ti-bearing minerals in east Georgia kaolin. The Geological Society of America Annual Meeting, Southeastern Section Athens, GA
33. **Schroeder, Paul A.** and Melear, Nathan D. 1998 Indicators of multi-generational mineral assemblages in the granitic-regolith at Panola Mt. research watershed, Georgia: II, stable carbon isotopic evidence. The Geological Society of America Annual Meeting, Abstract #50229 GSA Toronto, Canada.
34. **Schroeder, Paul A.,** Nathan D. Melear, Larry T. West and Dixie A. Hamilton. 1998 Mineral assemblages derived from the weathering of a meta-gabbro in the Georgia Piedmont. Clay Minerals Society Annual meeting, Cleveland, OH. Abstract with programs.
35. **Schroeder, Paul A.,** Douglas E. Crowe and Nathan D. Melear. 1997 Stable carbon isotope signatures preserved in authigenic minerals from a forested granitic-regolith: Panola Mt., Georgia. The Geological Society of America Annual Meeting, Abstract #13321 GSA Salt Lake City, Utah.
36. **Schroeder, Paul A.** and Pruett, R.J. 1997 Effects of secondary iron phases on kaolinite ^{27}Al MAS NMR spectra. International Clay Conference, A.P.I.E.A., Ottawa, Canada. Abstract with programs.
37. **Schroeder, P.A.,** David B. Wenner and Sandra Whitney. 1996 Honors geology field programs: A mechanism for increasing geology major enrollment. The Geological Society of America Annual Meeting, Abstract #50072, Denver, Colorado.
38. **Schroeder, P.A.,** Melear, N.D., Leigh, D., West, L.T., and Kormanik, T.L. 1995 Residual versus polygenetic soil/saprolite weathering profiles on granites in the Georgia Piedmont. The Geological Society of America Annual Meeting, 27 (6). GSA, New Orleans, Louisiana.
39. **Schroeder, P.A.** and Pruett, R. 1995 Iron ordering in kaolinites: New insights from ^{29}Si and ^{27}Al NMR spectroscopy. Clay Minerals Society Annual meeting, Baltimore, MD. Abstract with programs.
40. **Schroeder, P.A.** 1994 Mineral and textural evidence for the extent of Cenozoic Coastal Plain onlap to the Georgia Piedmont. Geological Society of America Annual meeting, Seattle, WA. Abstract with programs.
41. **Schroeder, P.A.** 1994 The Sparta, Georgia saprolite revisited: Mineralogical trends and implications for Cenozoic weathering rates. Clay Minerals Society Annual meeting, Saskatoon, Canada. Abstract with programs.
42. **Schroeder, P.A.** 1993 Displaying mineral structures with the molecular modeling program SYBYL. Clay Minerals Society Annual meeting, San Diego, CA. Abstract with programs, p. 112.
43. **Schroeder, P.A.** 1993 ^{27}Al NMR evidence for the segregation of octahedral Al and Fe sites in mixed-layer illite/smectites. Invited paper to the International Clay Conference, Adelaide, Australia, Abstract with programs p-164.
44. **Schroeder, P.A.** 1992 Application of far infrared spectroscopy to the study of clay minerals. Invited paper to the Clay Geosciences Symposium, International Geological Congress, Kyoto, Japan. Abstract with programs.
45. **Schroeder, P.A.** 1992 Far IR, ^{27}Al NMR and chemical evidence for the heterogeneous distribution of octahedral Fe and Al in mixed-layer illite/smectites. The Goldschmidt Conference, The annual meeting of the Geochemical Society. Reston, VA. Abstract with programs.
46. **Schroeder, P.A.** and E. D. Ingall 1991 The Influence of burial diagenesis on the nitrogen content of illite/smectite in shales. Geological Society of America Annual Meeting, San Diego, CA. Abstracts with programs p. A222.
47. **Schroeder, P.A.** 1991 Far infrared spectroscopy of mixed-layer illite/smectite. Clay Minerals Society Annual Meeting, Houston, TX Abstracts with programs.
48. **Schroeder, P.A.** 1989 Phyllosilicate sample mounting for far infra-red absorption spectroscopy. (abs.), 9th International Clay Conference, Strasbourg, France, p. 343
49. **Schroeder, P.A.** 1988 Far infra-red spectroscopy of potassium interlayered phyllosilicates. (abs.) Annual Meeting of the Clay Minerals Society, Grand Rapids, MI., p. 88.
50. **Schroeder, P.A.** 1982 Authigenic iron minerals of the continental slope off the eastern United States, (abs.), 11th International Congress on Sedimentology (IAS), Hamilton, Ontario, Canada.
51. **Schroeder, P.A.** 1978 Baseline studies of the physical oceanography of Cobscook Bay, Maine. (abs.), New England Estuary Research Society.

Abstracts: (co-authored)

1. [Moraes, Anthony, Paul A. Schroeder, and Jason Austin \(2016\) Clay Mineral Concentration With Depth and Land Use History In The Critical Zone In Calhoun, South Carolina DOI: 10.1130/abs/2016AM-277182 Conference: GSA Annual Meeting in Denver, Colorado, USA](#)
2. Austin, Jason C., and **Schroeder, Paul A.** (2015) Young C-14 age of the carbonate component of natural goethite (Fe(O,CO₃)OH) from the Upper Ordovician Neda Fm., Neda, Wisconsin, USA Euroclay 2015 and CMS 52nd annual meeting, Edinburgh, Scotland.
3. Lars Riber Henning Dypvik, Ronald Sørli, Nikolas Oberhardt, Pingchuan Tan, Kristian Stangvik, Syed Asmar Aal-E-Muhammad Naqvi, **Paul A. Schroeder**, Arlindo Begonha, and Ray Ferrell (2015) Palaeoweathering profiles from the Norwegian North Sea, and their onshore analogues . Geological Society of America Annual Meeting, Baltimore, MD. Program with Abstracts. Paper no. 285-1.
4. Lars Riber Henning Dypvik, Ronald Sørli, Nikolas Oberhardt, Pingchuan Tan, Kristian Stangvik, Syed Asmar Aal-E-Muhammad Naqvi, **Paul A. Schroeder**, Arlindo Begonha, and Ray Ferrell (2015) Deeply buried Mesozoic weathering profiles from the Norwegian North Sea. Euroclay 2015 and CMS 52nd annual meeting, Edinburgh, Scotland.
5. Fackrell, Laura and **Paul A. Schroeder** (2014) Spatial versus spectral resolution: Mapping hot spring clays using meter scale data and ground truth mineralogy. [Clay Minerals Society 51st annual meeting](#),
6. Wylie, Bill, Jubran, Ryan, Gallagher, Emily, Carnes, Caroline, Hundley, Britton, Nguyen, Thanh, Khalifa, Mohamed O, **Schroeder, Paul A.**, Dowd, John, And Hawman, Robert B. (2014) Shallow Geophysical Studies Of Natural Hazards And Groundwater Systems In The Southeastern U.S Geological Society of America Southeastern Section - 63rd Annual Meeting (10–11 April 2014). Program with abstracts. [Paper 35-4](#).
7. John Harper and **Paul A. Schroeder** (2013) Anoxic conditions within the Smoky Hill Chalk Member of the Niobrara Formation and its effect on organic and inorganic C-N assemblages. The [Clay Minerals Society Annual 50th Annual meeting](#), University of Illinois at Urbana-Champaign Program with abstracts, p. 90
8. Austin, Jason C., and **Schroeder, Paul A.** (2013) Carbon and oxygen isotopes in pedogenic gibbsite: an emerging resource for understanding soil forming and transport processes. Geological Society of America Southeastern Section - 62nd meeting Abstracts with Programs. Paper 4-3, San Juan, Puerto Rico.
9. Ostrowicki, Katrina and **Schroeder, Paul A.** (2013) Zeolites in the Floridan Aquifer System at Fort Pulaski National Monument, Georgia Geological Society of America Southeastern Section - 62nd meeting Abstracts with Programs. Paper 20-2, San Juan, Puerto Rico.
10. Harris, R. Scott, Rodesney, Steven N., and **Schroeder, Paul A.**, (2012) X-ray Diffraction Characteristics of Variably Shocked, Strained, and Microcrystalline Quartz in Mixtures: Implications for Impact Petrology and Construction Aggregates, GSA Abstracts with Programs Vol. 44, No. 7, Abstract #210480, Charlotte, NC.
11. Ballero, Deniz Z., Habura, Andrea, **Schroeder, Paul A.**, And Goldstein, Susan T., (2012) Fine Structure, Reproduction And Phylogenetic Placement of A Species of Psammophaga (Foraminifera) From Coastal Georgia, USA GSA Abstracts with Programs Vol. 44, No. 7, Abstract #208075, Charlotte, NC.
12. Austin, Jason C., and **Schroeder, Paul A.** (2012) Assessing the viability of pedogenic gibbsite as a proxy for paleo-PCO₂. GSA Abstracts with Programs Vol. 44, No. 7, Abstract #210272, Charlotte, NC.
13. Austin, Jason C., **Schroeder, Paul A.** , and Dowd, John F. 2008 Exploring the Sensitivity of Paleo-PCO₂ Models Based on δ¹³C of Pedogenic Gibbsite to Changing Soil Variables with Depth Using Numerical Methods. GSA Abstracts with Programs, Paper No. #149128, Houston, TX.
14. Austin, J.C., Schroeder, P.A., Dowd, J. F. 2008, Exploring the sensitivity of Paleo-PCO₂ models based on the δ¹³C of pedogenic gibbsite to changing soil variables with depth using numerical models. SoilCritZone Workshop III, Chania, Crete, Greece. Abstract with programs.
15. Austin, Jason C., **Schroeder, Paul A.** , and Cox, Julia 2007 Radiogenic Carbon In Goethite From The Upper Ordovician Neda Formation: Implications For Re-Crystallization, The Clay Minerals Society Annual meeting, Sante Fe, NM. Abstract with programs.
16. Austin, Jason C., **Schroeder, Paul A.**, and Dowd, John F. 2006 Aluminum substitution in goethite from the late Ordovician Neda Formation: implications for environment of formation and post-burial weathering. GSA Abstracts with Programs, Paper No. 221-12, Philadelphia, PA.

17. Crowe, Douglas, Jordan, Thomas, Baker, M. Scott, and **Schroeder, Paul**, 2006 Mapping the distribution of alteration minerals in an active geothermal setting using satellite-based spectral reflectance: an example from the Uzon Caldera, Kamchatka, far east Russia. GSA Abstracts with Programs, Paper No. 234-5, Philadelphia, PA.
18. Wagner, I. M. Hodges, K. Lee, D. Crowe, **P. Schroeder**, C. Romanek and J. Wiegel. The Intraspecific differences of *Clostridium uzonii* isolates obtained from the different thermal fields in the Uzon Caldera, Kamchatka Russia. Intern. Conference Thermophiles 2005. Gold Coast, Australia, Sept. 2005 Abstr. 145
19. Kyle, Jennifer and **Schroeder, Paul A.**, and Kenneth Livi, 2005 Evidence of microbial framboidal pyrite formation in a terrestrial hot spring. Geological Society of America Annual meeting, Salt Lake City, UT. Abstracts with Programs, v. 37, No. 7, p. 205.
20. Stracher, Glenn, B. Pone, J.D., Annegarn, H.J., McCormack, J., Blake, D.R., and **Schroeder, P.A.** 2005 Gas vent mineralogy and geochemistry: The burning Culm Banks of South Africa. Geological Society of America Annual meeting, Salt Lake City, UT. Abstracts with Programs, v. 37, No. 7, p. 453.
21. Kyle, Jennifer and **Schroeder, Paul A.** 2004 Sinter mineralogy of terrestrial hot spring vent, Uzon Caldera, Kamchatka, Russia. Clay Minerals Society Annual meeting, Richland, WA. Abstract with programs.
22. Kyle, Jennifer, **Schroeder, Paul A.**, Crowe, Douglas, and Romanek, Christopher. 2004 Evidence for biomineralization and preservation of microorganisms in siliceous sinter deposits from the Uzon caldera, Kamchatka, Russia. Abstract No: 76327 GSA Abstracts with Programs Vol. 36, No. 5.
23. Stacher, Glenn B., Prakash, Anupma, **Schroeder, Paul A.**, and McCormack, John, 2004 New mineral occurrences from the Wuda coalfield fires of inner Mongolia. Abstract No: 73402 GSA Abstracts with Programs Vol. 36, No. 5.
24. Romanek, Christopher S., Crowe, Douglas, Kyle, Jennifer, and **Schroeder, Paul A.**, 2004 Chemical and stable isotopic composition of microbial mats from hot springs of Uzon caldera, Kamchatka. Abstract No: 75001 GSA Abstracts with Programs Vol. 36, No. 5.
25. Kyle, Jennifer; Neal, Andrew I.; Romanek Christopher S., and **Schroeder, Paul A.**, 2003 Does microbial activity confer structure (biosignatures) to siliceous hot-spring deposits? International Thermophile meetings, Exeter, UK. Abstract with programs.
26. Ö. Isik Ece and **Schroeder, Paul A.** 2003 Acid-sulfate alteration and genesis of alunite-halloysite deposit at Turplu mine, Balıkesir, Turkey. Clay Minerals Society Annual meeting, Athens, GA. Abstract with programs.
27. R. Scott Harris, Mack S. Duncan, Steven M. Holland, Michael F. Roden, **Paul A. Schroeder** 2003 Evidence of impact-generated deposition on the Late Eocene shores of Georgia. Clay Minerals Society Annual meeting, Athens, GA. Abstract with programs.
28. Stracher, Glenn B. Taylor, Tammy P., Baughman, Dick, **Schroeder, Paul A.**, Fleisher, Christopher and McCormack, John. 2003 Coal Fire Condensates: Collection Procedure, P-T Stability Diagrams, Environmental Pollution. [AAAS Annual Meeting](#), Feb. 2003, Denver, CO.
29. Harris, R.S., Duncan, M.S., Holland, S. M., Roden, M. F., and **Schroeder, P. A.** 2002 Probable shocked quartz as evidence for an Upper Eocene impact horizon in coastal plain strata, Warren County, Georgia, USA GSA Abstracts with Programs, abstract [#41931](#) Denver CO.
30. Melear, Nathan D., **Schroeder Paul A.**, and Robert J. Pruett 2000 X-ray diffraction mineralogy of minor phases in crude kaolin clays from Georgia, USA. Clay Minerals Society Annual meeting, Chicago, IL. Abstract with program.
31. Ams, D., D. Cornell, J.R. Huffman, C.M. Jones, Y.J. Lee, M.R. Miller, B.J. Muller, P.A. Maurice, N. Melear, **P.A. Schroeder**, and R. Pruett, 2000 Comparison of the surface chemical characteristics of natural kaolinities as a foundation for understanding microbially mediated kaolinite dissolution. Clay Minerals Society Annual meeting, Chicago, IL. Abstract with program.
32. Bierman, Paul R., Clapp, Erik M., Caffee, Marc and **Schroeder, Paul A.** 1999 Understanding earth surface processes with ¹⁰Be (and a little ²⁶Al). The Geological Society of America Annual Meeting, Abstract # 51432: GSA Denver Colorado.
33. Melear, N.D. and **Schroeder, Paul A.** 1999 Clay Mineral and crystal properties of goethite and hematite from three residual weathering profiles of the Georgia Piedmont, USA. European Clay Groups Meeting. Krakow, Poland. Abstract with programs p. 111.

34. Melear, Nathan D. and **Schroeder, Paul A.** 1998 Indicators of multi-generational mineral assemblages in the granitic-regolith at Panola Mt. research watershed, Georgia: I, Crystal chemical evidence. The Geological Society of America Annual Meeting, Abstract #11958 GSA Toronto, Canada.
35. Melear, Nathan D. and **Schroeder, Paul A.,** 1998 Crystal chemistry of goethites from deep weathering profiles developed on granitic rocks of the Georgia Piedmont. Clay Minerals Society Annual meeting, Cleveland, OH. Abstract with programs.
36. Shiflet, Jason E. and **Schroeder, Paul A.,** 1998 Ti-bearing phases in an east Georgia kaolin. Clay Minerals Society Annual meeting, Cleveland, OH. Abstract with programs.
37. Mclain, A. A., and **Schroeder, P. A.** 1996 Fixed-Nitrogen in clay minerals of an offshore Texas, Brazo Block Gulf of Mexico well. The Geological Society of America Annual Meeting, Abstract #50300 Denver, Colorado.
38. Pruett, R. and **Schroeder, P.A.** 1995 Well and poorly ordered kaolinites from Georgia, USA. Clay Minerals Society Annual meeting, Baltimore, MD. Abstract with programs.
39. Ingall, E., J.C. Duchamp., **P. Schroeder** and K.W. Zilm 1992 ³¹P NMR characterization of organic phosphorus in marine organic matter. Chemical Society, Division of Environmental Chemistry, Denver, CO. Abstract with programs.
40. Dahl, H.M., and **Schroeder P.A.** 1984 Mud Mounds - indicators of upward transport of fine-grained sediments, offshore Louisiana. SEPM Research Conference "Origin transport and deposition of fine-grain sediments", Convener D.S. Goresline, San Jose, CA.
41. Dahl, H.M., C.A. Callender and **Schroeder P.A.** 1983 Geologic factors influencing reservoir performance at Texaco's Salem Tertiary Recovery Project, Marion Co., Illinois., (abs.) AAPG Bull., v 67(3), p 445-446

Book Reviews:

1. EMU Notes in Mineralogy - volume 11 Layered mineral structures and their Application in Advanced Technologies (M.F. Brigatti and A. Mottana, editors) in [Elements \(2012\) v8\(5\) p 395.](#)
2. Chemical Equilibria and Kinetics in Soils. (1994) Pp. 268. Oxford University Press, 200 Madison Avenue, New York, NY 10016. in *Economic Geology*, v.90. Review written by **P.A. Schroeder.**
3. Soil Microscopy and Micromorphology. (1995) by E.A. FitzPatrick. pp. 304. John Wiley and Sons, in *Journal of Sedimentary Research*, v.A65, p. 588. Review written by **P.A. Schroeder.**
4. X-ray Diffraction and the Identification and Analysis of Clay Minerals. (1989) by Duane M. Moore and Robert C. Reynolds, Jr. pp. 332. Oxford University Press Inc., 200 Madison Avenue, New York, NY 10016. in *Economic Geology*, v. 84(8). p. 2321-2322. Review written by **P.A. Schroeder.**
5. Clay Minerals for the Petroleum Geologists and Engineers. (1988) by D. Peaver and E. Eslinger. SEPM Short Course Notes No. 22, Pp. 343, Tulsa, OK 74159. in *Economic Geology*, v.84(2), p. 464-465. Review written by **P.A. Schroeder.**
6. Diagenesis (Geoscience Canada Reprint Series; 4). (1990) Edited by Ian A. Mcllreath and David W. Morrow. Pp. 338. Geological Association of Canada, Runge Press Ltd. Ottawa, Canada. in *Economic Geology*, Vol.86(4). Review written by **P.A. Schroeder.**
7. Introduction to the Petrology of Soils and Chemical Weathering. (1991) by Daniel B. Nahon. Pp. 313. John Wiley & Sons Inc., New York in *Economic Geology*, Vol. 87. p. 1372. Review written by **P.A. Schroeder.**
8. Prediction of Reservoir Quality Through Chemical Modeling. (1990) Edited by I.D. Meshri and P.J. Ortoleva. AAPG Memoir 49, The American Association of Petroleum Geologists, Pp.175. in *Geochimica et Cosmochimica Acta*. Vol. 55, p. 2705. Review written by **P.A. Schroeder.**

Creative contributions other than formal publications:

1. 2016 Future Uses of Kaolins: Invited Speaker present to Society of Mining Engineers meeting in Milldegeville, GA.
2. 2016 Organizer and advocate for: Clays in the Critical zone thematic session. Annual Meeting of the Clay minerals Society, Atlanta, GA.

3. 2015 and 2016 International Critical Zone Observatory Workshop. National Science Foundation Sponsored activity in association with annual American Geophysical Union meeting. San Francisco, CA.
4. 2015 Organizer and advocate for theme session: [Clays in the Critical Zone: soils weathering and elemental cycling](#), EuroClay 2015 and annual meeting of the Clay Minerals Society. Edinburgh, Scotland.
5. 2012 Triple Point in [Elements](#) magazine.
6. 2011 Organizer and advocate for Clay Minerals Society Theme session – "[Crystal Chemistry of Clays](#)". Convened in Lake Tahoe, NV.
7. 2010-11 President's Corner Column in [Elements](#) magazine. [V6n5](#), [V6n6](#), [V7n1](#), [V7n2](#), [V7n3](#), [V7n4](#), [v7n5](#).
8. 2008 Organizer and advocate for joint meeting of the Geological Society of America and Soil Science Society of America - Topical Session, " Soil Respiration on Human and Geologic time scales", Houston, TX.
9. 2007 Organizer and advocate for Clay Minerals Society theme session "Clays in Extreme Environments", Santa Fe, NM.
10. 2005 Co-convenor of theme session "Clays and Geology" International Clay Conference. Convened in Tokyo, Japan.
11. 2005 Organizer and advocate for Clay Minerals Society Theme session – "Clay minerals as biominerals". Convened in Burlington, VT.
12. 2004 Organizer and advocate for Geological Society of America - Topical Session Number 46, "Biomineralization in Terrestrial Hot Springs: The Preservation of Thermophiles in Past and Present Day Systems " convened in Denver, CO.
13. 2003 General Chair for Joint meeting of [The Clay Minerals Society and the Mineralogical Society of America](#). Convened in Athens, GA.
14. 2001 Organizer and advocate for Geological Society of America - Topical Session Number 110, "Paleosols, Soils and the Composition of Ancient Atmospheres " convened in Reno, NV.
15. "Ask a Clay Scientist" Web site of the [Clay Minerals Society](#). This is a public outreach resource to help people better understand the role of clays in our world. The URL is <http://cms.lanl.gov/askclay.htm> and has been chosen as a Key Resource in the Geosciences by Links2Go.
16. 1996 Litterville - an environmental geology scenario for the urban waste problem. An interactive computer-based exercise designed for introductory environmental geology classes. Created using Authorware[®] by **P.A. Schroeder** and B.C. Carter. ©1996. Created under contract with Times-Mirror Corporation, New York.
17. 1996 Guest expert speaker on Radio News magazine: [Maritime Noon](#) Host: Costas Halavrezos CBC Radio. Producer: Janet Irwin Production Location: Halifax, Kaolin Clay special. Airtime: April 10, 1996. Tape available upon request.

Grants, Contracts, and Agreements Received:

1. 2016-2019 ERASMUS+ Collaborative agreement between the University of Georgia and Middle Eastern Technical University, Ankara, Turkey. Program funds student and faculty exchange between geoscience programs at respective institutions.
2. 2013-2018 Human and Natural Forcings of Critical Zone Dynamics and Evolution at The Calhoun Critical Zone Observatory. National Science Foundation. Co-PI. EAR-GEO-[1331846](#) \$234,012.
3. 2013-2015 [Civilian Research and Defense Fund](#) - Geochemistry of rare-earth elements and polymetals in hydrothermal solutions and argillic metasomatites of modern Kamchatka thermal fields. RUG1-7086-PK-13 \$15,000.
4. 2012-2014 Building Opportunities Out of Science and Technology (BOOST): Energizing Young Scientists. BOOST H₂O (Helping Hydrologic Outreach) in Indonesia and Turkey. U.S. State Department \$85,234.

5. 2009-2010 National Science Foundation - "Acquisition of an X-ray Powder Diffractometer for research in geological, archeological, and geomicrobiological sciences". PI EAR-IF 0929912 - \$155,400.
6. 2005-2006 National Science Foundation - SGER: A test for modern carbon in Paleozoic paleosols. PI EAR-0501690 - \$20,149
7. 2003 - 2004 National Science Foundation - International Division Research Experience for Undergraduates (REU) "Hydrothermal alteration and genesis of halloysite deposits along the active southern segments of north Anatolian Fault Zone, NW Turkey". PI INT-0138023 \$5,400.
8. 2002-2003 National Science Foundation EAR-BE: Coupled Biogeochemical Cycles - "Geomicrobiological Interactions and Carbon Flow in Extreme Thermal Springs: Kamchatka, Russia". Incubation Grant: Co-PI, EAR-BE-0221905. \$30,000.
9. 2002 - 2004 - National Science Foundation - International Division "Hydrothermal alteration and genesis of halloysite deposits along the active southern segments of north Anatolian Fault Zone, NW Turkey". PI INT-0138023 \$27,000.
10. 2000-2002- National Science Foundation - EAR/IF and University of Georgia Research Foundation "Upgrading of the X-ray diffraction and FTIR facilities for mineralogical research". PI EAR-99911501 \$82,784.
11. 2000-2001 University of Georgia Research Foundation - Between grants support for data acquisition and technical support. \$12,000.
12. 1996-2000 - National Science Foundation "A modern test of the assumptions used for determining paleo-atmospheric carbon dioxide from goethite-bound carbon. PI EAR-9628035 \$87,776.
13. 1998-2000 English China Clay International. Discriminating short- and long-range iron ordering in kaolinite using vibrational spectroscopy. Contract: \$88,792 .
14. 1996-1998J.M. Huber Corporations. Studies of impurity phases associated with East-Georgia kaolin deposits. Contract: \$29,628.
15. 1997 University of Georgia Research Foundation Equipment Research Grant. Isotope facility vacuum upgrade. \$4000
16. 1996 University of Georgia Research Foundation Faculty Research Grant. "Understanding Kaolinite Crystal-Chemistry through application of ^{29}Si NMR Spectroscopy." \$3,000.
17. 1995 - English China Clay International, Inc. Collaborative agreement to study effects of Fe on ^{29}Si and ^{27}Al MAS NMR signal of kaolinites. ECCI paid for \$8000 of analytical and NMR services.
18. 1995 - W.C. Brown Publishers, Boston MA. "Development of an interactive multimedia program to supplement introductory non-science major Environmental Geology laboratory sections." \$5,000.
19. 1995/97 - Petroleum Research Fund " Study of nitrogen in clays during burial diagenesis." PI ACS-PRF 29072-G2, \$20,000.
20. 1994 University of Georgia Instructional Technology Grant. Geoscience Learning Center phase II. \$99,995.
21. 1994 University of Georgia Instructional Improvement Grants for "Computer video output devices and overhead projection system". \$4000.
22. 1993 University of Georgia Instructional Technology Grant. Geoscience Learning Center. \$27,500.
23. 1993 - Equipment award, Fourier Transform Infrared Spectrometer dedicated to the study of clay minerals from Schlumberger-Doll Research. Estimated value \$60,000.
24. 1987-90 - Texaco Exploration and Production Research unrestricted grant-in-aid for the study "Characterization and kinetics of 2:1 clay mineral transformations during burial diagenesis". \$82,080.
25. 1987 - Geological Society of America Research Grant,(#3870-87). \$1000.
26. 1977 - National Science Foundation Undergraduate Research Program, (#SMI76-83524).

Other recognition and outstanding achievements:

1. 2014 - TÜBITAK distinguished visiting scholar award at Istanbul Technical University

2. 2008 - [College of Marine Science Fall Lecturer](#)
 3. 2007 - [Marion L. and Chrystie M. Jackson Clay Scientist Award](#), Clay Minerals Society
 4. 2004 - Distinguished Scholar - National Society of Collegiate Scholars
 5. 2000 - Lothar L. Tresp Outstanding Honors Professor - University of Georgia
 6. 1992 - Philip M. Orville Prize for outstanding dissertation at Yale University.
 7. 1990 - William E. Ford Prize for excellence in mineralogy, Yale University.
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Supervision of student research:

Ph.D. Thesis Supervision

- Laura E. Fackrell, in progress
- Dan Bulger, PhD 2014 - The geochemical mineralogic expression of sequence boundaries Mississippian carbonates of the Appalachian Basin, Georgia and Tennessee
- Jason Austin, PhD 2012 - Soil CO₂ efflux simulations using Monte Carlo method and implications for recording paleo-atmospheric PCO₂ in pedogenic gibbsite
- Nathan Melear, PhD 1998 - Mineral transformations and soil genesis at Panola Mountain Research Watershed, Georgia

M.S. Thesis Supervision

- Laura E. Fackrell, M.S., 2015 Understanding Thermophilic Ammonia-Oxidizing Archaea Environments Across Extreme Redox Gradients
- Katrina Ostrowicki, M.S., 2012 Saline aquifers in coastal Georgia: assessment using borehole geophysical logs at the Fort Pulaski core site, Chatham County, Georgia
- Jennifer Kyle, M.S., 2005 Biomineralization of hot springs in the Uzon Caldera, Kamchatka, Russia
- John LeGolvan, MS., 2001, The fate of ilmenite and magnetite in the weathering profile
- Jason Shiflet, M.S., 1999, Impurities in East Georgia kaolin deposits
- Angela McLain, M.S., 1997, Fixed-nitrogen in clay mineral of an offshore Texas, Brazos Block Well
- Buford Boyd Pollet, M.S. 1995, M.I.B. 1993, Application of the Rietveld method for the determination of mineral abundances in East-Central Georgia kaolin deposits.
- Jae-Gon Kim, M.S. 1994, FTIR, XRD, SEM and chemical study of biotite weathering from the Sparta Granite, GA

B.S. Project Supervision

- David Richards - BS expected 2018
- Sam Svoboda - BS expected 2017
- Tony Moraes - BS expected 2017
- Amelia Perry - BS 2015 Clay minerals studies of Calhoun Critical Zone Observatory soils in differently managed watersheds
- Adam Jones - BS 2014 Isotope studies of kaolins at sequence boundaries in the Georgia Coastal Plain
- Phillippe Bauchau - BS 2014 Thermodynamic models of clinoptilolite in the Lower Floridan aquifer from the Fort Pulaski core site, Chatham County, Georgia
- John R. Harper - BS 2013 Anoxic Transition within the Smoky Hill Chalk Member of the Niobrara Formation and its Effect on Organic and Inorganic C-N Assemblages
- Maggie Hodges - BS 2006 Isolation of novel anerobic, thermophilic bacteria from Uzon Caldera, Kamchatka, Russia
- Matt Hastings - BS 2002 X-ray diffraction study of coal fire vapor deposits, Centralia, Pennsylvania
- Michael Smilley -BS 2000 Genesis of alunite in the Turplu halloysite mine, NW Turkey
- Jennifer Kyle - BS 2006 Bio/litho facies of sinter from Yellowstone National Park, Wyoming
- Alison Mote - BS 1999 X-ray diffraction of unknown gem materials
- Nancy Chapman - BS 1999 Isotopic analysis of pedogenic gibbsite
- Terri Blandenbergl - BS 1998 A mid- and near-IR spectral atlas of gem quality minerals.
- Ian Stubbs -BS 1998 Factors causing physical differences in three kaolin samples

- Chris Young - BS 1998 Stable sulfur isotopes of pyritized *Ophiomorpha* in Tertiary East Georgian kaolin deposits.
- Richard Irby - BS 1998 Comparative clay mineralogy of Ordovician K-bentonites from North Georgia

Editorship or editorial board member:

Associate Editor, *American Mineralogist* 2007 - 2010

Series Editor, *Clay Minerals Society Workshop Lectures*. 2000 – 2007

Associate Editor, *Geology*, 1995 - 1997.

Abstractor, *Mineralogical Abstracts*, 1994 - 1997.

Reviewer: Critically reviewed manuscripts for the journals listed below.

- *American Journal of Science*
- *American Mineralogist*
- *Analytica Chimica Acta*
- *Applied Clay Minerals*
- *Astrobiology Journal*
- *Canadian Mineralogist*
- *Chemical Geology*
- *Economic Geology*
- *Environmental Science and Technology*
- *Clays and Clay Minerals*
- *Clay Minerals*
- *Geochimica et Cosmochimica Acta*
- *Journal of Geological Education*
- *Journal of Geophysical Research*
- *Journal of Sedimentary Research*
- *Journal of Soil Science of Society of America*
- *Marine Geology*
- *Mathematical Geology*
- *Nature*
- *Proceedings of the National Academy of Sciences*

4. Public services:

Societal Services

- 2016 The Clay Minerals Society annual meeting Field Trip coordinator
- 2015-Present Treasurer of The Clay Minerals Society
- 2015 Scientific Organizing Committee EuroClay 2015 Edinburgh Scotland.
- 2011-2012 President of Georgia Geological Society.
- 2010-2011 President of The Clay Minerals Society.
- 2009 Vice President of The Clay Minerals Society.
- 2009 Workshop organizer for Clay Minerals Society annual workshop lecture series "Clays of Yellowstone National Park", Billings, MT.
- 2007 Organizer and advocate for Clay Minerals Society theme session "Clays in Extreme Environments", Santa Fe, NM.
- 2006 NSF Research Coordination Network workshop, "Geothermal Biology and Geochemistry in Yellowstone National Park", Thermal Biology Institute, Montana State University, Bozeman MT.
- 2005 Organizer and advocate for Clay Minerals Society theme session "Clay minerals as biominerals", Convened in Burlington VT.

- 2004 Organizer and advocate for Geological Society of America - Topical Session Number 46, "Biomineralization in Terrestrial Hot Springs: The Preservation of Thermophiles in Past and Present Day Systems " convened in Denver, CO.
- 2003 General Chair for 40th annual meeting of the Clay Minerals Society and the Mineralogical Society of America, held in Athens, GA.
- 2000 Geological Society of America Theme Session "Paleosols, Soils and Composition of Ancient Atmospheres". Annual Meeting in Reno, NV.
- 1998 to Present - Clay Minerals Society Special Publications Editor
- 1997 to 1998 - Clay Minerals Society Bailey Award (Chair)
- 1995 to 1998 - Clay Minerals Society (Council Member, *Elected position).
- 1995 to 1998 - Clay Minerals Society Nominations Committee (Chair 1996)
- 1994 - Georgia Alliance of Geochemists (Organizer and Convener of Annual Meeting)
- 1993 to Present - Clay Minerals Society Education Committee (Member).
- 1992 to 1995 - Mineralogical Society of America Tellers Committee - (Chair).
- 1991 Petroleum Geology Section, Annual meeting of the Geological Society of America. (Session Chair)
- 1988 Seismic verification of nuclear tests Symposium, Yale University. (Conference Chair).

Community Services

- 2016 Athens Science Cafe "What the Frack?" General public talk in geologic insights to hydraulic fracturing practices
- 2006 to present "Hot times in volcanoes, minerals and life of Kamchatka Russia" to various local schools.
- 2000 to present "Ask a Clay Scientist" resource for the Clay Minerals Society web site.
- 1998 to present - Franklin College Outreach Program "Georgia Minerals".
- 1994 to 2011 - Georgia State Science Fair Judge.
- 1995 Initiated and judged special Geosciences Award at State Science Fair.
- 1994 - Public tours of Geology of State Botanical Gardens
- Guest Geology presentation at Athens-Clarke 4th Street School and Oconee Primary School.
- 1992 to Present - X-ray diffraction identification of unknown materials for Georgia citizens and businesses.
- 1995 to Present - Started Athens-Area Parents of Hearing Impaired Children Support Group.

5. Other services:

University- and College-wide committees:

- 2015-2018 University PRAC committee
- 2015-2018 - Franklin College Review Committee (Promotion and Tenure)
- 2010-2012 - University Council
- 2009 to 2010 - Senator for Franklin College Arts and Science Senate
- 2009 to 2010 - Chair Program Review Committee for Physics and Astronomy Department
- 2005 to 2008 - University Review Committee (Promotion and Tenure)
- 2000 to 2001 - Program Review Team for Geography Department
- 1993 to Present - Member of Electron Microscopy Review Committee
- 1992 to 1996 - Member of Campus-wide Information Technology Forum
- 1996 to 1996 - Member of Molecular Graphics Lab advisory Committee
- 1992 to 1996 - Franklin College Computer Committee.

Department-wide committees:

- 2015 - present Undergraduate Advisor
- 2009 Governance Committee

- 2004 to 2006 – Graduate Coordinator
- 2004, 6, 7 Wheeler-Watts Award Committee
- 2002, 3, 4, 7, 8 - Graduate Admissions Committee
- 1999 to 2004 - Undergraduate Advisor
- 1992 to 2000, 2009-2010 - Computer Committee.
- 1992 to Present - Curator of Mineralogy collection (1800 specimens).
- 1992 to Present - Oversee Departmental X-ray diffraction and FTIR facilities.
- 2001 to 2002 - Program Review Team for Geology Department
- 1996-1999 Liaison for Georgia Center Program.
- 1996 - Member of Semester Conversion committee for physical geology curriculum.
- 1993 to 1995 Building Computer Network Liaison.
- 1992 to 1993 Department of Geology GLY115/116 Committee.
- 1992 - Member of Search Committee for position in hydrogeology.