

Gregory D. Pillar

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Academic Employment

- 2006 – present **Assistant Professor of Environmental Science and Chemistry**
Department of Environmental Science / Department of Chemistry
Queens University of Charlotte, Charlotte, NC
- 2002 – 2006 **Graduate Research Assistant - Environmental Soil Chemistry**
Department of Crop and Soil Sciences
University of Georgia, Athens, GA
- 2000 – 2002 **Graduate Teaching/Research Assistant – Soil Science**
Department of Agronomy
Kansas State University, Manhattan, KS

Education

- 2006 **Ph.D., Agronomy (Environmental Chemistry)**
The University of Georgia, Athens, GA.
Dissertation: Influence of clay minerals, humic substances, and soil aggregation on the fate and bioavailability of 2,4,6-trinitrotoluene (TNT).
Major Professor: Dr. Kang Xia
- 2002 **M.S., Agronomy (Soil Science)**
Kansas State University, Manhattan, KS.
Thesis: The impact of golf course construction and management on soil quality: Evaluating soil quality with multiple indicators
Major Professor: Dr. Steve Thien
- 1999 **B.S., Environmental Science (Soil Science and Hydrology)**
University of Minnesota Twin-Cities, St. Paul, MN.
Graduated with distinction

Teaching Experience

(Teaching Portfolio available at <http://www.pillarenvironmental.com>)

Queens University of Charlotte (Assistant Professor/Instructor of Record)

- CHEM 101 – General Chemistry I (2006; 2 sections)
- CHEM 102 – General Chemistry II (2007 – 2008; 4 sections)
- CHEM 305 – Quantitative Analysis (2007)
- ENVR 101 – Introduction to Environmental Science (2007 – 2008; 3 sections)
- ENVR 102 – Introduction to Geology (2006 – 2007; 2 sections)
- HONR 210 – Honors Seminar: Recipes for Disaster – Hollywood vs Reality (2007)
- CORE 122 – Modern Citizenship (2008)

University of Georgia (Graduate Teaching Assistant/Instructor/Guest Lecturer)

- CRSS 4670/6670 – Soil Chemistry, Teaching Assistant/Guest Lecturer (2003 – 2006)
CRSS 8540 – Soil Mineralogy, Teaching Assistant/Instructor (2005)
CRSS 4670L/6670L – Soil Chemistry Laboratory, Lead Instructor (2003 – 2005; 3 sections)
CRSS 4510/6510 – Contaminants in Soil and Water, Guest Lecturer (2005)

Kansas State University (Graduate Teaching Assistant/Instructor)

- AGRON 305 – Soil Science, Lead Laboratory Instructor/Teaching Assistant (2000 – 2002; 12 sections)
AGRON 645 – Soil Microbiology, Laboratory Instructor (2001; 2 sections)

Publications**Publications – Peer Reviewed**

- Pillar, G.D.**, K. Karnok, and S.J. Thien. 2008. Perceptions, utilization, and training of graduate student teaching assistants in introductory soil science courses: Survey results. Submitted to the North American Colleges and Teachers of Agriculture (NACTA) Journal
- Pillar, G.D.**, K. Xia, J. Kim, J. Reeves, and M. Williams. 2007. Impact of size fractionation methods on properties of soil aggregates. Submitted to Soil Science Society of America Journal
- Xia, K., A. Bhandari, K. Das, and **G. Pillar**. 2005. Occurrence and fate of pharmaceuticals and personal care products (PPCPs) in biosolids. *J. Environ. Qual.* 34:91-104

Published Extended Proceedings (Peer Reviewed)

- Xia, K., and **G. Pillar**. 2003. Anthropogenic organic chemicals in biosolids from selected wastewater treatment plants in Georgia and South Carolina. pg. 806-809. *In* Kathryn Hatcher (ed.) Proc. 2003 Georgia Water Res. Conf. Athens, GA, April 23-24

Publications – Peer Reviewed (In preparation)

- Pillar, G.D.**, K. Xia, and P.F. Hendrix. 2008. Fate of 2,4,6-trinitrotoluene (TNT) and microbial community structure within soil aggregates in the presence of the earthworm *Eisenia fetida*. To be submitted to Journal of Environmental Chemistry and Toxicology
- Pillar, G.D.**, and K. Xia. 2008. Interaction of 2,4,6-trinitrotoluene with clay minerals and humic-clay complexes. To be submitted to the Journal of Environmental Science and Technology.

Presentations**Invited Presentations**

- Pillar, G.D.** 2007. Recipe for Disaster: Hollywood and Science. Queens University of Charlotte Raleigh Alumni Chapter Event, Raleigh, NC
- Pillar, G.D.** 2007. Influence of clay minerals and humic-clay complexes on 2,4,6-trinitrotoluene (TNT) retention in soils. University of North Carolina – Charlotte, Charlotte, NC.
- Pillar, G.D.** 2006. Natural organic matter: Structural composition and chemical properties. Queens University of Charlotte, Charlotte, NC

Presentations on Teaching and Learning

- Pillar, G.D.**, and C. Clark. 2008. Intentional Learning: The Scoop from the 2008 American Association of Colleges and Universities (AAC&U) Annual Meeting. Presented at the Professionally Speaking Series, Queens University of Charlotte, Charlotte, NC. (*invited*)
- Pillar, G.D.**, K. Karnok, & S.J. Thien. 2006. Perceptions, utilization, and training of graduate student teaching assistants in introductory soil science courses. Presented at the 52nd Annual North American Colleges and Teachers of Agriculture (NACTA) Annual Conference, Vancouver, Canada, June 2006
- Pillar, G.D.**, K. Karnok, & S.J. Thien. 2006. Perceptions and development of graduate student teaching assistants in introductory soil science courses. Presented at the 6th Annual Georgia Graduate Student Interdisciplinary Conference, University of Georgia, Athens, GA
- Pillar, G.D.** 2005. Levels of Learning: Understanding Bloom's Learning Taxonomy. Presented to students enrolled in Teaching Seminar for Life Science Graduate Teaching Assistants (GRSC 7770), University of Georgia, Athens, GA

Conference Research Presentations (Poster/Oral)

- Pillar, G.D.**, P.F. Hendrix, & K. Xia. 2005. Impact of earthworm activity on the transformation and distribution of 2,4,6-trinitrotoluene in soils. Presented at the Annual ASA-SSSA-CSSA Meetings, Salt Lake City, Utah, November 2005
- Pillar, G.D.** & K. Xia. 2005. Interaction of 2,4,6-trinitrotoluene with clay minerals and humic-clay complexes. Presented at the Annual ASA-SSSA-CSSA Meetings, Salt Lake City, Utah, November 2005
- Pillar, G.D.**, K. Xia, & P.F. Hendrix. 2004. Fate of 2,4,6-trinitrotoluene in soil aggregates influenced by earthworm activity. Presented at the Annual ASA-SSSA-CSSA Meetings, Seattle, Washington, November 2004
- Xia, K., **G. Pillar** & A. Bhandari. 2004. Fate of personal care products and other organic chemicals in biosolids. Presented at the Sustainable Land Application Conference, Buena Vista, FL, January 2004
- Pillar, G.D.** & K. Xia. 2003. Impact of size fractionation methods on properties of soil aggregates. Presented at the Annual ASA-SSSA-CSSA Meeting, Denver, Colorado, November 2003
- Xia, K. & **G.D. Pillar**. 2003. Anthropogenic Organic Compounds in Biosolids. Presented at the Annual ASA-SSSA-CSSA Meetings, Denver, Colorado, November 2003
- Pillar, G.D.** & S.J. Thien. 2000. Impact of animal waste compost on turf soil quality. Presented at the Annual ASA-SSSA-CSSA Meetings, Minneapolis, Minnesota, October 2000.
- Cecchi, A.M., W.C. Koskinen, **G.D. Pillar**, K. Haider, & H.H. Cheng. 1999. Sorption-Desorption of phenolic acids in soil. Presented at the Annual ASA-SSSA-CSSA Meeting, Salt Lake City, Utah, November 1999

Professional Organizations

- National Science Teachers Association (NSTA)
- National Association of Colleges and Teachers of Agriculture (NACTA)
- Geological Society of America (GSA)
- Soil Science Society of America (SSSA)
- American Society of Agronomy (ASA)

Honors & Awards

- Graduate Student Teaching Award, North American Colleges and Teachers of Agriculture (2006)
- Outstanding Teaching Assistant Award, College of Agriculture and Environmental Sciences, University of Georgia (2006)
- Outstanding Teaching Assistant Award, Graduate School, University of Georgia (2006)
- Teaching Portfolio Certification, Graduate School, University of Georgia, (2005)
- Agronomy Graduate Student Association Choice Service Award, University of Georgia (2005)
- Gamma Sigma Delta Honor Society, University of Georgia (2004)
- Graduate Student Teaching Award of Merit, North American Colleges and Teachers of Agriculture (2002)
- Ray I. Throckmorton Graduate Scholarship, Department of Agronomy, Kansas State University (2001)
- Richard E. Brown Outstanding Graduate Teaching Award, College of Agriculture, Kansas State University (2001)
- Phi Kappa Phi Honor Society, Kansas State University (2001)

Professional and Community Service

Community

Charlotte-Mecklenburg School System (CMS)

- Lincoln Heights Elementary School: Presented a science demonstration as a guest teacher to 40 5th grade students at (2007)
- Jay M. Robinson Middle School: Advisor to Rock and Mineral Science Olympiad Team (2007) (Team finished 16th in Rock and Mineral portion and 2nd overall in the 2007 National Olympiad)
- Myers Park Traditional Elementary School: Presented a hands-on science demonstration as a guest teacher to 5 – 3rd grade classes, 80-100 students (2007)

Professional Societies

North American Colleges and Teachers of Agriculture (NACTA)

- NACTA Journal Reviewer (2006 - present)
- Teacher Recognition Committee (2006 – present)

Academia

Queens University of Charlotte

- Center for Teaching & Learning, Graduate Teaching Assistant Mentor Program, University of Georgia, Guest Panelist/Speaker (2008)
- Creative Writing Faculty Search Committee (2007 – 2008)

- Food for Thought Sub-Unit Chairperson, CORE 122 Curriculum Development (2007)
- Technology and Web Faculty Committee (2007)
 - Learning Management Systems (LMS) Sub-Committee Chairperson (2007)
- Project Green Queens Co-Advisor (2007 – present)
- Environmental Science Department Webmaster (2006 – present)
- Chemistry Department Webmaster (2007 – present)
- Environmental Science Faculty Search Committee (2006 – 2007)

University of Georgia - Athens

- Agronomy Graduate Student Association (AGSA)
 - Founder/President (2003-2004)
 - Vice President (2004-2005)
 - Webmaster (2005)
- College of Agriculture and Environmental Sciences – Graduate Student Association (CAES-GSA)
 - Treasurer (2005)
 - Department Representative (2004 – 2006)
- Graduate Student Council (GSC – GSA) Department Representative (2003-2005)
- Department of Crop and Soil Sciences Soil Discussion/Seminar Series Coordinator (2003)

Kansas State University - Manhattan

- Agronomy Graduate Student Association (AGSA)
 - Webmaster (2000)
 - Vice President (2000-2001)
 - President (2001)

References

Dr. Reed Perkins
Associate Professor and Department Chair
Department of Environmental Science
Queens University of Charlotte
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Dr. Andy Tucker
Associate Professor of Chemistry and
Natural Science and Mathematics Division Chair
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Associate Dean of Academic Programs and Faculty Affairs
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