Andrew Gilbert, Ph.D

Associate Professor
TLC
agilber1@kent.edu

Education

Ph.D., Philosophy, Curriculum and Instruction, **2002**
New Mexico State University, Las Cruces, New Mexico
Dissertation Title: Investigating the impact of a non-traditional approach to science in a diverse Southwestern high school classroom

M.A., Science Education **1998**
East Carolina University, Greenville, NC
Thesis titled: Unheard struggles: Casting a new light on lower track issues and cultural identity in rural science classroom

B.S., Geology **1992**
Virginia Polytechnic Institute and State University, Blacksburg, VA

Higher Education Work Experience

Associate Professor **8/2009 - present**
Kent State University

Assistant Professor **8/2003 - 8/2009**
Kent State University

College Assistant Professor **8/2002 - 8/2003**
New Mexico State University, Las Cruces, NM

Graduate Research/Teaching Assistant **0/1999 - 0/2002**
New Mexico State University, Las Cruces, NM

Graduate Research Assistant **1997 - 1998**
East Carolina University, Greenville, NC

Graduate Teaching Assistant **1996 - 1997**

East Carolina University, Greenville, NC

Other Professional Experience

Earth Science Teacher **1998 - 1999**

Eastern Middle School, Silver Spring, MD

Physical Science Teacher **06/1995 - 06/1996**

Sidney Lanier Middle School, Fairfax, VA

Earth Science Teacher **08/1993 - 06/1995**

South Lakes High School, Reston, VA

Publications

Gilbert, A. (2009). Developing a model of science for young children: Connecting the early childhood and science education communities. 2009

Publication: *Conference Proceedings, Refereed*

Gilbert, A. (2009). Utilizing science philosophy statements to facilitate K-3 teacher candidate's development of inquiry-based science practice. Early Childhood Education Journal, 36(5), 431-438. 2009

Publication: *Journal Articles, Refereed*

Gilbert, A. (2008). Teachers as technicians: The false dichotomy of theory and practice. Proceedings Science Education at the Crossroads, 40-41. 2008

Publication: *Conference Proceedings, Refereed*

Gilbert, A., Meilander, T., Helfinstine, S. and Woolverton, C. (2008). What makes flatulence? Microbial Discovery Activities K-12. American Society of Microbiology. Available at http://www.asm.org/Education/index.asp?bid=58032 2008

Publication: *Curriculum*

Gilbert, A. and Williams, S. (2008). Analyzing depictions of touch in early childhood textbooks. Early Childhood Research and Practice. 10(2). 2008

Publication: *Journal Articles, Refereed*

Gilbert, A. (2007). Safety first; Bacteria and you; I am an ecosystem (grades 3-5). Center for Public Health Preparedness. Available at: http://cphp.kent.edu/elementary.htm 2007

Publication: *Curriculum*

Gilbert, A. and Wu, M. (2007). The space between: Interrogating the conjunction of curriculum and pedagogy. Journal of Curriculum and Pedagogy, 4(1), 16-23. 2007

Publication: *Journal Articles, Refereed*

Gilbert, A. (2006). Investigating the impact of a critical science approach in a diverse southwestern classroom. Journal of Borderland Education. 1(1), 1-12. 2006

Publication: *Journal Articles, Refereed*

Gilbert, A. (2006). Capitalizing on Student Travel in Earth Science Classrooms. Science Scope. 29, 42-45. 2006

Publication: *Journal Articles, Refereed*

Gilbert, A. & Kelani, R. (2006). Limited earth science experiences in public high schools and the subsequent impact on university geology programs. Geological Society of America Abstracts. 38(4). 2006

Publication: *Other*

Gilbert, A. & Wolfe, P. (2004). Walking the middle ground: The process of transformation within a critical science classroom. Journal of Curriculum and Pedagogy, 1(1), 97- 130. 2004

Publication: *Journal Articles, Refereed*

Gilbert, A., Smith, A. Moore, A. & Faye, K. (2004). Developing an inquiry-based approach to educating pre-service teachers in Environmental Geology. Geological Society of America Abstracts. 36(5). 2004

Publication: *Other*

Gilbert, A. (2002). Exactly how do we go against the grain? A critical review of Going Against the Grain: Supporting the Student-Centered Teacher. Curriculum Inquiry, 32(4). 483-492. 2002

Publication: *Journal Articles, Refereed*

Gilbert, A. (2002). Rejoinder to Elizabeth Aaronsohn. Curriculum Inquiry, 32(4), 505-510. 2002

Publication: *Journal Articles, Refereed*

Gilbert, A. and Yerrick, R. (2001). Same school, separate worlds: A sociocultural study of identity, resistance, and negotiation in a rural, lower track classroom. Journal of Research in Science Teaching. 38(5), 574-598. 2001

Publication: *Journal Articles, Refereed*

Malott, C. & Gilbert, A. (in press). Native American Philosophy and Western Science. In C. Malott, L. Waukau-Villagomez, L. Waukau (Authors). Teaching Native America Across the Curriculum: A Critical Inquiry. New York: Peter Lang.

Publication: *Book Chapters*

Gilbert, A. & Broadway, F. (in press). Bakhtinian Thought. In C. Kridel (Ed.) Sage Encyclopedia of Curriculum Studies. Thousand Oaks, CA: Sage Publications.

Publication: *Encyclopedia Entries*

Presentations

Gilbert, A. (2009). There and back again: Understanding the career choices of two beginning science teachers. A paper presented at the Association of Science Teacher Education Annual Meeting, Hartford, CT. 2009

Type: *National Refereed*

Gilbert, A. & Williams, S. (2008). An exploratory study of images of men in Early Childhood textbooks. Teaching, Leadership and Curriculum Studies Brown Bag presentation. 2008

Type: *Local Non-Refereed*

Gilbert, A. (2008). Research as a tool for critiquing structural inequities. Presented to Dr. Martha Lash's Theoretical Principles for the Development of Young Children course ECED 60152. 2008

Type: *Local Non-Refereed*

Gilbert, A. (2008). The enactment of gender in Early Childhood contexts. A paper presented at the Curriculum and Pedagogy Annual Meeting, Decatur, GA. 2008

Type: *National Refereed*

Gilbert, A. (2008). Enacting a democratic model for pre-service teacher development. A paper presented at the Curriculum and Pedagogy Annual Meeting, Decatur, GA. 2008

Type: *National Refereed*

Gilbert, A. (2008). Teachers as technicians: The false dichotomy of theory and practice. A paper presented at the Science Education at the Crossroads Conference. Alta, UT. Funded by the National Science Foundation. 2008

Type: *National Refereed*

Gilbert, A. & Williams, S. (2008). Interrupting common sense: Issues of gender and sexuality in early childhood contexts. A paper presented at the American Education Research Association Annual Meeting, New York, NY. 2008

Type: *National Refereed*

Gilbert, A. (2008). Utilizing philosophy statements to facilitate prospective elementary teachers' development of inquiry-based science practice. A paper presented at the Association for Science Teacher Education Annual Meeting St. Louis, MO. 2008

Type: *National Refereed*

Ambrose, R., Timmons, B., Gilbert, A. and Sherman-Heckler, W. (2008). Wisdom from Kenyan Teachers: What U.S. Educators have learned. A panel presented at the International Symposium on Childhood Education. Northern Illinois University. 2008

Type: *Regional Refereed*

Gilbert, A. (2007). Developing productive interactions with Faculty. Presented at the Graduate Students of Color Orientation. 2007

Type: *Local Non-Refereed*

Gilbert, A. (2007). Developing a line of Inquiry. Presented to Dr. Mary Lou Holly's Doctoral Residency II course, C&I 80090. 2007

Type: *Local Non-Refereed*

Gilbert, A. (2007). Examining pre-service teachers' conceptions of the intersection of theory and practice. A paper presented at the Curriculum and Pedagogy Annual Meeting, Austin, TX. 2007

Type: *National Refereed*

Gilbert, A., Leafgren, S. & Broadway, F. (2007). Touch Me! Touch Me! Touch Me! Pleasure, desire, and sexuality in early childhood. A symposium presented at the Curriculum and Pedagogy Annual Meeting, Austin, TX. 2007

Type: *National Refereed*

Sherman, W., Ambrose, R., Gilbert, A., Leafgren, S. & Timmons, B. (2007). A conversation about cross-cultural teacher professional development. A symposium presented at the American Educational Research Association Annual Meeting, Chicago, IL. 2007

Type: *National Refereed*

Gilbert, A. (2007). Investigating student reactions to differing pedagogical approaches in lower-track science contexts. A paper presented at the American Educational Research Association Annual Meeting, Chicago, IL. 2007

Type: *National Refereed*

Gilbert, A. (2007). Crossing cultural borders in a mono-cultural elementary science methods classroom: Utilizing issues of religious diversity. A paper presented at the Association of Science Teacher Educators Annual Meeting, Clearwater Beach, FL. 2007

Type: *National Refereed*

Gilbert, A. (2007). A teacher chooses a new career: A case study of teacher attrition. A paper presented at the Association of Science Teacher Educators Annual Meeting, Clearwater Beach, FL. 2007

Type: *National Refereed*

Gilbert, A. (2006). Critical Ethnography in Science Education contexts. Presented to Dr. Wendy Sherman's Qualitative Research in Science Education course, C&I 7/67095. 2006

Type: *Local Non-Refereed*

Gilbert, A. (2006). "I know I can always come back": Investigating why a talented young teacher decided to leave teaching. A poster presented at the National Association for Research in Science Teaching Annual Meeting, San Francisco, CA. 2006

Type: *National Refereed*

Gilbert, A. (2006). "I learned to just keep my mouth shut": Investigating a promising young teacher's decision to quit teaching. A paper presented at the Association of Science Teacher Educators Annual Meeting, Portland, OR. 2006

Type: *National Refereed*

Gilbert, A. (2006). "How can a scientist believe in God?" Investigating issues of diversity and religion in an early elementary science methods classroom. A paper presented at the Association of Science Teacher Educators Annual Meeting, Portland, OR. 2006

Type: *National Refereed*

Gilbert, A. & Kelani, R. (2006). Limited Earth Science experiences in public high schools and the subsequent impact on university Geology programs. A paper presented at the North Central Geological Society of America Annual Meeting. Akron, OH. 2006

Type: *Regional Refereed*

Gilbert, A. (2006). How we learn? Presented to Dr. Donna Witter's Inquiry-based Earth System Science course, GEOL 60095. 2006

Type: *Local Non-Refereed*

Gilbert, A. (2005). How we intentionally ignore theory in publications for practitioners: An introspection of challenges and dilemmas when writing for classroom teachers. A paper presented at the Sixth Annual Curriculum and Pedagogy Conference – Oxford, OH. 2005

Type: *National Refereed*

Wojnowski, D., Sherman, W. & Gilbert, A. (2005). Project SAVE (Saving Africa's Vital Ecosystems). Presented at the National Science Teachers Association Annual Meeting, Dallas, TX. 2005

Type: *National Refereed*

Gilbert, A. (2005). From Beginning to End: Witnessing the Attrition of a Promising Young Teacher. A poster presented at the Association for Science Teacher Educators Annual Meeting, Colorado Springs, CO. 2005

Type: *National Refereed*

Sherman, W., Gilbert, A. & Weinstein, M. (2005). But How Do We…? Case Studies in Program Development a symposium presented at the Association for Science Teacher Educators Annual Meeting, Colorado Springs, CO. 2005

Type: *National Refereed*

Gilbert, A. (2005). An investigation of Earth Science Teaching: Implications for Geoscience Education. A presentation given as part of the Bowling Green State University Department of Geology Colloquium Series. Bowling Green, Ohio. 2005

Type: *State Invited*

Gilbert, A. (2005). Facilitating prospective elementary teachers' development of inquiry-based, constructivist science practice. An invited paper presented at the Enhancing Literacy for Holistic Development of Young Children Conference. Kenyatta University – Nairobi, Kenya. 2005

Type: *International Invited*

Gilbert, A. (2005). Experiences and Opportunities for New Faculty. A presentation given at the New Faculty Orientation sponsored by FPDC. 2005

Type: *Local Non-Refereed*

Gilbert, A. (2005). Dynamic Teaching and Learning Environments. A presentation given at the New Faculty Orientation sponsored by FPDC. 2005

Type: *Local Non-Refereed*

Kasten, W., Levinson, N., Gilbert, A. & Blankenmeyer, M. (2005). Internationalizing your teaching. Center for International and Intercultural Education Brown Bag presentation. 2005

Type: *Local Non-Refereed*

Gilbert, A. (2005). A process approach to constructivist science teaching. Ruchanga, Kenya. 2005

Type: *International Non-Refereed*

Gilbert, A. & Cushner, C. (2005). The Science of HIV/AIDS: Issues and Information. Bungule, Kenya. 2005

Type: *International Non-Refereed*

Gilbert, A., Moore, A., Smith, A. & Faye, K. (2004). Developing an Inquiry Approach to Educating Pre-service Teachers in Environmental Geology. A poster presented at the Geological Society of America Annual Meeting – Denver, CO. 2004

Type: *National Refereed*

Hyun, E. & Gilbert, A. (2004). Collective Meaning Making and Understanding of "Curriculum and Pedagogy" Panel discussion for the Fifth Annual Curriculum and Pedagogy Conference – Oxford, OH. 2004

Type: *National Refereed*

Gilbert, A. (2004). A tale of two classrooms: Investigating differing pedagogical approaches in lower-track science contexts. A paper presented at the National Association for Research in Science Teaching Annual Meeting, Vancouver, BC. 2004

Type: *National Refereed*

Gilbert, A. (2004). The process of transformation with Latino students in a critical science classroom. A paper presented at the American Educational Research Association Annual Meeting, San Diego, CA. 2004

Type: *National Refereed*

Kasten, W., Gilbert, A., Kroeger, J., Keller, D., Kilgour-Dowdy, J. & Robertson, L. (2004). Constructing Educational Bridges in Turkey. Center for International and Intercultural Education Brown Bag presentation. 2004

Type: *Local Non-Refereed*

Sherman, W., Ambrose, R., Gilbert, A. & Leafgren S. (2004). Nation Building in Kenya: Literacies in Science, Environmental Education, and Early Childhood Education. Center for International and Intercultural Education Brown Bag presentation. 2004

Type: *Local Non-Refereed*

Gilbert, A. (2004). A Reflection of my First Year on the Tenure Track. A presentation given at the New Faculty Orientation sponsored by FPDC. 2004

Type: *Local Non-Refereed*

Gilbert, A. (2004). Investigative approaches to Qualitative Research. Presented to Dr. Wendy Sherman's Qualitative Research in Science Education course C&I 7/67095. 2004

Type: *Local Non-Refereed*

Gilbert, A. (2004). Inquiry Science Teaching for Graduate Science Students. Centro de Investigacion Cientifica de Yucatan (CICY). Merida, Mexico. 2004

Type: *International Non-Refereed*

Gilbert, A., Leafgren, S. & Craig, D. (2004). Investigating rocks and soils using culturally meaningful practice. A day-long session in the two-week workshop for Korean pre-service teachers titled: Recasting Reggio Emilia for Culturally Meaningful Practice: A Constructivist Approach. Kent Campus. 2004

Type: *International Non-Refereed*

Gilbert, A. (2004). Teaching constructivist science with limited resources: Inquiring with Rocks. Bungule, Kenya. 2004

Type: *International Non-Refereed*

Gilbert, A. (2004). Developing an effective approach to constructivist science education practice. Bursa, Turkey. 2004

Type: *International Non-Refereed*

Gilbert, A. (2004). Developing an effective approach to constructivist science education practice. Ankara, Turkey. 2004

Type: *International Non-Refereed*

Gilbert, A. (2004). Developing an effective approach to constructivist science education practice. Istanbul, Turkey. 2004

Type: *International Non-Refereed*

Gilbert, A. (2003). “I totally changed my perspective on everything”: Investigating the Impact of a Critical Science Approach on Students' Individual Identity and Action. A Paper Presented at the National Association of Research in Science Teaching Annual Meeting, 2003 - Philadelphia, PA. 2003

Type: *National Refereed*

Gilbert, A. (2003) Utilizing prospective elementary teachers' philosophy statements to support the development of constructivist practice. A poster presented at the North Central Association for the Education of Teachers of Science. Rochester, MN. 2003

Type: *Regional Refereed*

Gilbert, A. (2003). Reflecting on my Doctoral Experience. Presented to Dr. Kenneth Teitelbaum's Doctoral Residency I course, C&I 80089. 2003

Type: *Local Non-Refereed*

Gilbert, A. (2002). How transformative is socio-transformative constructivism? Utilizing critical ethnography to investigate a discourse of transformation. A paper presented at the Annual Meeting of the National Association for Research in Science Teaching. New Orleans, LA. 2002

Type: *National Refereed*

Gilbert, A. (2001). Utilizing student voices to evaluate sociotransformative constructivism as a method of pre-service teacher training. A paper presented at the Annual Meeting of the National Association for Research in Science Teaching. St. Louis, MO. 2001

Type: *National Refereed*

Rodriguez, A. J. & Gilbert, A. (2001). Pathways for teaching science for diversity and understanding in diverse classrooms: Using sociotransformative constructivism as a tool for teacher professional development - A symposium at the Annual Meeting of the National Association for Research in Science Teaching. St. Louis, MO. 2001

Type: *National Refereed*

Malott,C. & Gilbert, A. (2001). Situating responsibility: Investigating journeys within the racialization of institutionalized privileges. A paper presented at the Annual Meeting of the American Educational Research Association. Seattle, WA. 2001

Type: *National Refereed*

Rodriguez, A. J. & Gilbert, A. (2000). From good intentions to transformative action: Exploring the practical issues of teaching 'science for all' in various school contexts. A symposium presented at the Annual Meeting of the National Association for Research in Science Teaching. New Orleans. 2000

Type: *National Refereed*

Gilbert, A. (1999). Unheard struggles: Casting a new light on cultural, curricular, and tracking issues in a rural science classroom. A paper presented at the Annual Meeting of the National Association for Research in Science Teaching, Boston, MA. 1999

Type: *National Refereed*

Gilbert, A. (1999). Science for all? A study of cultural identity, resistance, and reform in a lower-track science classroom. A paper presented at the American Education Research Association Annual Meeting, Montreal, Canada. 1999

Type: *National Refereed*

Yerrick, R. & Gilbert, A. (1999). Lower-track Earth Science classroom discourse and its re-enforcement of microcultural identity among rural, minority students. A paper presented at the American Education Research Association Annual Meeting, Montreal, Canada. 1999

Type: *National Refereed*

Rodriguez, A. J. & Gilbert, A. (1999). Water in our border scape: Using socio-transformative constructivism to assist high school students to explore the intersection of health, water, environment, community, and empowerment. A paper presented at the Rocky Mountain Educational Research Association Annual Meeting. Las Cruces, NM. 1999

Type: *Regional Refereed*

Service

Editorial Board, Council for Elementary Science International **2009 - present**

Type: *International*

Committee, Association of Science Teacher Educators **2009 - 2011**

Membership committee

Type: *National*

Member, Curriculum Committee **2009 - 2010**

Type: *Department*

Workshop, **2009 - 2009**

Investigative approaches to Weather for second grade teachers. Canton City Schools.

Type: *University*

Representative, Affirmative Action **2009 - present**

Advisory role for the College of Education

Type: *College*

Chair, Curriculum Committee **2008 - 2009**

Type: *Department*

Member, Search Committee **2008 - 2008**

Science Education Search Committee

Type: *Department*

Consulting, **2007 - 2007**

KSU Summer reading project/first year experience

Type: *University*

Member, Curriculum Committee **2007 - 2008**

Type: *Department*

Member, Search Committee **2007 - 2007**

Secondary Science Education Search Committee

Type: *Department*

Chair, Curriculum and Instruction Writing Assessment Ad Hoc committee **2006 - 2007**

Type: *Department*

Workshops, **2006 - 2006**

Gilbert, A. (2006). Inquiry Science in the Early Years (Grades Pre-K-2). Professional development workshop Davey Elementary School. October 12, 2006.

Type: *University*

Workshops, **2006 - 2006**

Gilbert, A. (2006). Inquiry Science in Upper Elementary (Grades 3-5). Professional development workshop Davey Elementary School. October 13, 2006.

Type: *University*

Member, Faculty Advisory Committee **2006 - 2008**

Type: *Department*

Journal of Curriculum and Pedagogy **2005 - 2009**

Type: *National*

Reviewer, Journal of Research in Science Teaching **2005 - present**

Type: *National*

Committee, Association of Science Teacher Educators **2005 - 2008**

Awards committee

Type: *National*

Reviewer, Association for Science Teacher Education National Conference **2005 - present**

Type: *National*

Coordinate, Early Childhood Education MAT program **2004 - 2007**

Type: *Department*

Member, Curriculum Committee **2004 - 2005**

Type: *Department*

Advisory Board, **2004 - 2006**

Kent State Men's Rugby – Faculty Advisor and Head Coach

Type: *University*

Member, **2004 - 2004**

Internal Advisory Committee for the Northeast Ohio Consortium Biopreparedness, Research and Graduate Studies

Type: *College*

Member, Search Committee **2004 - 2004**

Middle Childhood Education Search Committee

Type: *Department*

Chair, Early Childhood Education Conceptual Framework Subcommittee **2003 - 2005**

Type: *Department*

Workshops, **2003 - 2004**

KASADA Undergraduate Academic workshop series for faculty advisors

Type: *University*

Member, Search Committee **2003 - 2004**

Mathematics Search Committee (extended for second round of reviews)

Type: *Department*

Committee, National Association of Research in Science Teaching **2001 - 2004**

Equity committee

Type: *National*

Reviewer, American Educational Research Association Annual Conference, Research in Social Studies Education SIG **2001 - 2001**

Type: *National*

Reviewer, National Association for Research in Science Teaching Annual Conference, Strand 6 – Cultural, Social, Gender Issues **2000 - 2004**

Type: *National*

Grants

Co PI, Northeast Ohio Consortium for Biopreparedness at Kent State University **2005 - 2007**
Collaboration with: Dr. Chris Woolverton
Awarded: $744,000.00 (0 0)
USDED/FIPSE

Faculty Associate, Kent State Geology team working within the Northeast Ohio Center **2003 - 2005**
Collaboration with: Trish Koontz

PI, Chronostratigraphic relationships of known archaeological sites to Holocene **1997 - 1997**
Awarded: $2,250.00
Geological Society of America