

Curriculum Vitae

David Edward Long

Assistant Professor of STEM Education
Department of Middle and Secondary Education
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Morehead State University
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Education

Degrees:

University of Kentucky, Lexington, KY Studies in Higher Education Science Education Policy/Research Methods Foci Department of Educational Policy Studies and Evaluation	Ph.D. 2010
Bellarmino University, Louisville, KY Teaching—Science Education	M.A. 2005
Indiana University of Pennsylvania, Indiana, PA Anthropology/Archaeology, Geology	B.A. 1996

Non-Degree Professional Development Coursework:

Antioch University, Yellow Springs, OH. Science education coursework	2001
Indiana University, Bloomington, IN. Paleoanthropology graduate coursework	1997

Professional Certifications / Licensures

Middle Grades Science, Social Studies	Kentucky
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Professional Appointments

2015 -	Assistant Professor of STEM Education Department of Middle and Secondary Education
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Morehead State University, Morehead, KY

- 2012 - 2015 Research Assistant Professor, VISTA Implementation.
The *Virginia Initiative for Science Teaching and Achievement* project.
Funding Agency: U.S. Department of Education.
Donna Sterling—Principal Investigator.
Center for Restructuring Education in Science and Technology
George Mason University, Fairfax, VA
- 2012 Evaluation Project Manager, *Kentucky Complete College America*.
Funding Agency: The Bill and Melinda Gates Foundation.
Jane Jensen—Principal Investigator
Department of Educational Policy Studies and Evaluation
University of Kentucky, Lexington, KY
- 2010 - 2012 Assistant Professor of Education
Department of Middle, Secondary, Reading, and Deaf Education
Valdosta State University, Valdosta, GA
- 2007 - 2010 Research Associate, *How Do Induction and Continuing Professional Development Affect Beginning Middle School Math Teachers' Instruction and Student Achievement* project.
Funding agency: National Science Foundation.
Tom Smith and Laura Desimone—Principal Investigators
Peabody College for Education and Human Development,
Vanderbilt University, Nashville, TN
- 2006 – 2010 Research Assistant, *Striving Readers* project.
Funding Agency: U.S. Department of Education.
Susan Cantrell—Principal Investigator
Collaborative Center for Literacy Development, College of Education
University of Kentucky, Lexington, KY
- 2000 - 2005 Teacher, Middle Grades Science
Jefferson County Public Schools, Louisville, KY
- 1997 - 2000 Archaeological Field Technician
Indiana State University, Terre Haute, IN
- 1996 - 1997 Archaeological Field Technician
Cultural Resource Analysts, Inc., Lexington, KY
- 1996 Research Intern, Archaeological Services Laboratory
Indiana University of PA, Indiana, PA.

Publications (*denotes graduate student collaborator)

Book:

Long, D. (2011) *Evolution and Religion in American Education: An Ethnography*. Cultural Studies of Science Education, Vol.4. Dordrecht: Springer.

Refereed Journal Articles:

Poland, S*., Luh, A*., and **Long, D.** (2017). Teacher perspectives on specialisation in the elementary classroom: implications for science instruction. *International Journal of Science Education*. doi: 10.1080/09500693.2017.1351646

Henderson, J., **Long, D.**, Berger, P., Russell, C., and Drewes, A.* (2017). Expanding the Foundation: Climate Change and Opportunities for Educational Research. *Educational Studies*. 53(4). 412-425. doi: 10.1080/00131946.2017.1335640

Long, D. and Avery, L. (2017). Cultural Studies of Rural Science Education. *Cultural Studies of Science Education*. 12(1). 1-5. doi: 10.1007/s11422-016-9744-6

Grubbs, M., Love, T., **Long, D.**, and Kittrell, D.* (2016). Science Educators Teaching Engineering Design: An Examination Across Science Professional Development Sites. *Journal of Education and Training Studies*. 4(11). 163-178. doi:10.11114/jets.v4i11.1832

Long, D. (2014) Science ideals and science careers in a university Biology department. *Learning and Teaching: The International Journal of Higher Education in the Social Sciences*. 7(1) 29-45.

Long, D. (2013) Finding Jesus's magic pineapple: or improving science education by improving religious education. *Cultural Studies of Science Education*. 8(2), 389-398.

Long, D. (2013) Science Education in a Secular Age. *Cultural Studies of Science Education*. 8(1) 25-38.

Long, D. (2012) Evolution Education in Policy and Practice: An Ethnographic Perspective. *Ethnography and Education*, 7(2). Special issue on ethnography in science education research, Carol Brandt and Heidi Carlone guest editors.

Long, D. (2012) The Politics of Teaching Evolution, Science Education Standards, and *Being* a Creationist. *Journal of Research in Science Teaching*. 49(1), 122-139.

Long, D. (2010) Science, Religion, and Difficult Dialectics. *Cultural Studies of Science Education*. 5(1), 257-261.

Long, D. (2010) Scientists at Play in a Field of the Lord. *Cultural Studies of Science Education*. 5(1), 213-235.

Book Chapters:

Long, D. (in press). The Future of Science and Religion in American Schools. Book chapter in: *Beyond Evolution: Understanding and Addressing Interactions between Science and Religion in Science Education*. Eds. Shane, J., Binns, I., Hermann, R., and Meadows, L. NSTA Press: Arlington.

Long, D. (in press). Science and the Unearned Virtues of the “Really Religious People”: Exploring the Association between Perceived Religiosity and Science Rejection among Students in the Midwestern United States. Book chapter in *Science, Belief and Society: International Perspectives on Religion, Modernity and the Public Understanding of Science*. Eds. Kaden, T., Catto, R. and Jones, S. Policy Press: Bristol, U.K.

Long, D. (2017). Rethinking Science Education Research in Light of Motivated Reasoning. In: *13 Questions: Reframing Education's Conversation: Science.*, Lynn Bryan and Ken Tobin, Eds. New York: Peter Lang

Sterling, D., Logerwell, M, and **Long, D.** (2014) Like a Scientist: Using Problem Based Learning to Connect Practice with Content in STEM Education. In: Yeager, R. and Brunkhorst, H. *Exemplary STEM Programs: Designs for Success*. NSTA Press: Arlington, VA.

Long, D. (2014) Evolution Education in Policy and Practice: An Ethnographic Perspective. In: *Ethnographies of Science Education: Situated Practices of Science Learning for Social/Political Transformation*. Editors: Carol Brandt and Heidi Carlone. London: Routledge. (Reprint of *Ethnography and Education* 7(2) Special issue).

Chrostowsky, M. and **Long, D.** (2013) Transnational educational capital and emergent livelihoods: Cultural strategies among repatriated South Sudanese . In: *Refugees, Immigrants, and Education in the Global South: Lives in Motion*. Editors: Lesley Bartlett and Ameena Ghaffar-Kucher. London: Routledge.

Book Reviews:

Long, D. (2015) Review of *Understanding Evolution* (Kampourakis 2014). *Science Education*. 99(4), 777-779.

Long, D. (2010) Review of *Using Social Theory in Educational Research* (Dressman 2008) *Anthropology and Education Quarterly*. 41(3), 318-319.

Book Chapters in Preparation:

Henderson, J. & **Long, D.** (under contract). Classwashing and Austerity Politics in Environmental Education. Book chapter in: *Towards Critical Environmental Education: Where are we now? Current and Future Perspectives*. Eds. Aristotelis S. Gkiolmas & Constantine S. Skordoulis. Springer.

Book Manuscript in Preparation:

Long, D. *Large-scale, Randomized, Control Trial STEM Education Research: An Ethnography*.

Journal Manuscripts in Preparation:

O'Connor*, C., **Long, D.**, Keck, A*., and Pachla, K*. You can't learn what isn't taught: Factors affecting elementary time on science.

Long, D. and Frazier, W. *Asking good girls to do bad things: Role taking and role making in elementary science reform*.

Long, D. and Jones, L. *Talking with Jesus about Darwin: Religion, conceptual vocabulary, and the training of American science teachers*.

Long, D., Kittrell, D*, and O'Connor, C*. Administrative decision making for elementary science.

Long, D., Poland, S*., Keck, A*. The Next Generation Science Standards: The teachers we have and the teachers we need.

Logerwell, M. and **Long, D.** *Developing a Statewide Community of Practice for Science Education Faculty*.

O'Connor, C*., **Long, D.** and Keck, A. *Policy, Pressure, and Administrative Decision Making in Elementary Science Education*.

Scholarly Publications on Social Media:

Henderson, J, and **Long, D.** (2015) The Challenge of Motivated Reasoning: Science, Education and Changing Climates. *Savage Minds*. Anthropologies #21: Climate Change. <http://savageminds.org/2015/09/18/anthropologies-21-the-challenge-of-motivated-reasoning-science-education-and-changing-climates/>

Long, D. (2014) Will Creationists Take Half a Loaf: An Anthropologist's Response. Guest post at *I Love You But You're Going to Hell*. <http://iloveyoubutyoudgoingtohell.org/2014/03/12/will-creationists-take-half-a-loaf-an-anthropologists-response/>

Long, D. (2013) Learning to Hear why Evangelical Christians Hear God. Guest post at *I Love You But You're Going to Hell*.
<http://iloveyoubutyoudgoingtohell.org/2013/03/05/required-reading-learning-to-hear-why-evangelical-christians-hear-god/>

Technical Report

Long, D. (1996). *Geomorphology and Soil Stratigraphy of the Bedford County Airport Sites, 36 BD 173-74: Applications for Site Chronology*. Reports of the Indiana University of Pennsylvania Archaeological Services.

Program Evaluations

Completed Reports:

Long, D. (2016). *An Evaluation of the Morehead State University College of Education Professional Partnership Network: Past, Present, and Future*. Report contracted by the Morehead State University College of Education.

Jensen, J., **Long, D.**, Wright, C. and Stapel, C. (2013). *College Readiness through Modular Learn on Demand: Promoting Retention and Graduation in Kentucky Community Colleges*. Program evaluation of the Kentucky Community and Technical College System's \$1,000,000 Complete College America grant. University of Kentucky Department of Educational Policy Studies and Evaluation.

Awards and Honors

2010 Recipient of the Myrle E. and Verle D. Nietzel Visiting Distinguished Faculty Program Award for outstanding dissertations, University of Kentucky. Kenneth Tobin, CUNY Graduate Center, visiting invited distinguished faculty.

2008 Honorable Order of Kentucky Colonels.

Extramural Grants and Awards

Awarded:

2017 Morehead State University Noyce Scholars Program: Secondary Teachers of Mathematics and Science in Rural Districts. \$1,200,000. National Science Foundation, Award #1660721. PI, Edna O. Schack, Co-PIs David Eisenhour, David E. Long, Performance Period 2017-2022.

- 2016 Fostering Lifelong STEAM Learning at the Dream Discovery Center. \$248,871. Shaping Our Appalachian Region, Kentucky Appalachian Rural Development Fund, Appalachian Regional Commission. PI, David E. Long. Performance period 2016-18.
- 2009 National Science Foundation travel grant for the annual meeting of the Society for the Social Study of Science, Washington D. C. \$250.

Under Review:

- 2018 Collaborative Research: The App-STEM Network Supporting and Growing STEM Career Futures in 21st Century Central Appalachia. \$4,028,844. National Science Foundation, DUE: S-STEM program. PI, David E. Long, Co-PIs Christina Wright, Edna Schack, Brandon VanNess, Deronda Mobelini, and Jimmy Wright.

Applied for:

- 2016 Identifying Pathways for Effective Elementary STEM Education (IPEESE). \$595,994. National Science Foundation, Noyce IV program. PI, David E. Long, Co-PIs, Edna Schack & Janelle Hare.
- 2015 Improving the Science of Climate Change and Evolution Education (ISCCEE). \$1,498,550. National Science Foundation, Education Core (ECR) program. PI, David E. Long, George Mason University.
- 2015 GRADUATE SprEaD (GS), Faculty Associate, \$1,199,536. National Science Foundation, Innovative Technology Experience for Teachers and Students program. PI, Len Annetta, George Mason University.
- 2015 Co-PI, Elementary Literacy In Science (ELIS), Co-PI, \$118,569.01. National Science Foundation, Discovery Research K-12 program. PI, Elizabeth Edmondson, Virginia Commonwealth University.

Intramural Grants and Awards

Awarded:

- 2017 *Identifying Pathways for Effective Elementary STEM Education*. Morehead State University New Program Proposal Initiative. \$6000. David E. Long and Edna O. Schack, Principal Investigators.
- 2011 *Using Co-generative Dialogue to Probe Understanding of Evolution, Science, and Religious Faith*. Faculty Research Seed Grant, Valdosta State University, \$4110. David E. Long and Leslie S. Jones, Principal Investigators.

- 2010 Campus nominee, Valdosta State University: National Endowment for the Humanities 2011 Summer Stipend program.
- 2010 Faculty Professional Presentation Scholarship, Valdosta State University. Oxford Ethnography and Education Conference, University of Oxford, U.K. \$1000.
- 2010 Faculty Internationalization Award, Valdosta State University. \$500
- 2009 International Conference Travel Grant, Office of Research and Graduate Studies, University of Kentucky. Religious Responses to Darwinism: 1859-2009 - Commemorating the 150th Anniversary of the Origin of Species. Ian Ramsey Centre, St. Anne's College, Oxford University, UK. \$800.
- 2009 Institute for Higher Education, University of Kentucky. Supplemental Travel Grant, travel to Oxford conference and working meeting at University College London Institute for Education. \$1000.
- 2009 Dissertation Development Award. Graduate School, University of Kentucky. \$1000.
- 2008 International Conference Travel Grant, Office of Research and Graduate Studies, University of Kentucky. Society for the Social Study of Science Annual Meetings, August 2008, Erasmus University, Rotterdam, The Netherlands. \$800.
- 2007 International Conference Travel Grant, Office of Research and Graduate Studies, University of Kentucky. Society for the Social Study of Science Annual Meetings, October 2007, Montreal, Canada. \$800.
- 2007 Institute for Higher Education, University of Kentucky. American Anthropological Association Meetings. \$600.

Invited Lectures

- 2017 *Faith, community, and coding? Instrumental relations with technology in the post-coal Trump era in the mountains of Kentucky.* Paper presented at the New Perspectives on Science and Religion in Society conference, Manchester, UK.
- 2016 *Science and religion as a locus of inquiry for what?* Invited lecture at the Science and Religion: Exploring the Spectrum conference. San Diego, CA.
- 2016 *Science, Faith, and Disentanglement in the Public Sphere.* Invited lecture. Newman University, Birmingham, UK.
- 2015 *Using the Disentanglement Principle to improve the science of evolution and climate change education.* Seminar. Department of Teacher Education. Ohio University, Athens.

- 2015 *Using the Disentanglement Principle to improve the science of evolution and climate change education.* Biology Colloquium, Department of Biology, California State University, Fresno.
- 2013 *Creationists accepting evolution...for what?* The George Washington University, Washington, D.C.
- 2013 *A conversation on Evolution Education in the U.S.* Human Origins Program, Broader Social Impacts Committee, National Museum of Natural History, Smithsonian Institution, Washington, D.C.

Professional Conference Activity (*denotes graduate student collaborator)

Peer Reviewed Conference Presentations/Papers:

- Long, D., Schack, E., McGuire, P., Odell, M., and Buchanan, M. (2018). *Overcoming the Challenges of UTeach Replication in Rural Settings.* Paper and roundtable discussion to be presented at the annual UTeach program conference, Austin, TX.
- Long, D. (2017). A political economy of disruptive college and university pedagogical choices. Paper presented at the annual meeting of the American Anthropological Association, Washington, D.C.
- Long, D.,** Meadows, L., Dominic, A., Burgin, S. and Waddell, G. (2017). *Improving Knowing and Learning in light of motivated reasoning research.* Paper and roundtable discussion presented at the annual UTeach program conference, Austin, TX.
- Long, D. (2016). When ‘What Works’ doesn’t work. Paper presented at the annual meeting of the American Anthropological Association, Minneapolis, MN.
- Long, D. (2016). *Large-scale, Randomized, Control Trial STEM Education Research: An Ethnography.* Paper presented at the Oxford Ethnography and Education Conference (OEC) New College, Oxford University, UK.
- Pachla, K.*, Keck, A.*, Luh, A.*, & **Long, D.** (2016). *Elementary Teachers and Climate Change: Examining teacher beliefs in a Science Professional Development Program.* Paper presented at the annual meeting of the National Association for Research in Science Teaching, Baltimore, MD.
- Kittrell, D.*, Luh, A.*, Poland, S.*, **Long, D.** (2016). *Teaching climate change through PBL: Successes and failures at a multi-site professional development institute.* Paper presented at the annual meeting of the National Association for Research in Science Teaching, Baltimore, MD.

- Luh, A., Poland, S., Kittrel, D., and **Long, D.** (2016). Teacher Knowledge About Climate Change in the Context of Problem-Based Learning Professional Development. Paper presented at the annual meeting of the American Educational Research Association, Washington D.C.
- Long, D. (2016). *Science and the Unearned Virtues of the “Really Religious People”*. Paper presented at the Public Perceptions of Science and Religion workshop, Birmingham, U.K.
- Long, D.** and Henderson, J. (2015) *Motivated Reasons: Scientific (II)Literacy, NOS, and the Challenge of Cultural Cognition*. Paper presented at the annual meeting of the American Anthropological Association, Denver, CO.
- *Keck, A., *O’Connor, C., and **Long, D.** (2015) *When the Pressure is On, Science is Gone: Effects of State and Federal Policy on Elementary Science*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Long, D.** *Keck, A., and *Poland, S. (2015) *Sustaining or diffusing elementary science education reform after two years*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Long, D.**, Poland, S.*, Keck, A.*, and O’Connor, S.* (2015). *After the love (and money) is gone: Factors sustaining elementary science reform*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Chicago, IL.
- O’Connor, C., Keck, A., and **Long, D.** (2015). *Title I Status, the Accountability Movement, and Time for Science in Elementary School*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Chicago, IL
- Poland, S., Luh, A., **Long, D.**, and Pachla, K. (2015). *Changing Elementary Teaching Roles: Teacher Specialization in the Wake of the STEM Movement*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Chicago, IL.
- Long, D.**, *Poland, S, and *Keck, A. (2015) *Sustaining or diffusing elementary science education reform after two years*. Paper presented at the annual meeting of the Association for Science Teacher Education, Portland, OR.
- Long, D. (2014). *Once More Unto the Veil: Piketty, Rawls, and Reimagining Higher Education’s Purpose after the Neo-Liberal State*. Paper presented at the annual meeting of the American Anthropological Association, Washington, D.C.
- *Grubbs, M., *Love, T., **Long, D.** and Sterling, D. (2014) *Examination of Differences in Science Professional Development Delivery of the Engineering Design Process*. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.

Long, D. and Frazier, W. (2014) *Disruptive Pedagogy, Disrupting Identity: Science, Elementary Schools, and Policy Ideals in Practice*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Pittsburgh, PA.

*Keck, A., *Pachla, K., and **Long, D.** (2014) *Time Allocation for Science in Elementary Classrooms*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Pittsburgh, PA.

Logerwell, M. and **Long, D.** (2014) *Developing a Statewide Community of Practice for Science Education Faculty*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Pittsburgh, PA.

*O'Connor, C., **Long, D.** and Sterling, D. (2014) *Policy, Pressure, and Administrative Decision Making in Elementary Science Education*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Pittsburgh, PA.

Long, D. (2013) *The Political Ontology of the American Anthropologist*. Paper presented at the annual meeting of the American Anthropological Association, Chicago IL.

Long, D. (2013) *How does religion work to mediate the teaching of Evangelical American science teachers?* Paper presented at the annual meeting of the Society for the Scientific Study of Religion, Boston, MA.

Long, D. and Jones, L. (2013). *Talking with Jesus about Darwin: Religion, Conceptual Vocabulary, and the Training of American Science Teachers*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Rio Grande, PR.

Chrostowsky, M. and **Long, D.** (2012) *Resettled Dinka and the Currency of Transnational Educational Capital in the Political Ecology of International Educational Policy*. Paper presented at the annual meeting of the American Anthropological Association, San Francisco, CA.

Long, D. (2012) *Evolution, Climate Change, and Genetic Engineering: The Interrelationship of Contentious Science Topics in Students' Lives*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, Canada.

Long, D. (2012) *Interrelating Attitudes toward Evolution, Climate Change, and Genetic Engineering in Students' Lives*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Indianapolis, IN.

Long, D. (2011) *College Science Faculty Careers, and the Effects of Neo-liberal Rationales on Science Understanding*. Paper presented at the annual meeting of the American Anthropological Association, Montreal, Canada.

- Long, D. (2011) *What Creationist Students May be Thinking About as You Teach about Evolution*. National Association for Research in Science Teaching sponsored paper to be presented at the New Orleans, LA regional meeting of the National Science Teacher Association.
- Long, D. (2011) *Epistemological Politics in Practice in a University Biology Department*. Paper presented at the annual meeting of the Society for the Social Study of Science, Cleveland, OH.
- Long, D. (2011) *Creationism, Worldview, and Existential Anxiety: An Ethnographic Perspective*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Orlando, FL.
- Long, D. (2010) *Circulation of Creationism in the United States: Homeschooling and Evangelical Mega-church Perspectives*. Paper presented at the annual meeting of the American Anthropological Association, New Orleans, LA.
- Long, D. (2010) *Evolution Education in Policy and Practice: an Ethnographic Perspective*. Paper presented at the Oxford Ethnography and Education Conference (OEC) New College, Oxford University, UK.
- Long, D. (2009) *The Ends of Science Literacy and the Cultural Process of Evolution Education*. Paper presented at the annual meeting of the American Anthropological Association, Philadelphia, PA.
- Long, D. (2009) *Evolution at the End of a World: A Phenomenological Investigation of Creationist Disposition toward Evolution*. Paper presented at the annual meeting of the Society for the Social Study of Science, Washington, D.C.
- Long, D. (2009) *Unsettled by Evolution*. Paper presented at "Religious Responses to Darwinism: 1859- 2009 - Commemorating the 150th Anniversary of the Origin of Species". Ian Ramsey Centre, St. Anne's College, Oxford University, UK.
- Long, D. (2009) *Darwin's Hammer: An Existential Analysis of Resistance to Evolution*. Paper presented at the biennial meeting of the International History, Philosophy, and Science Teaching Group, University of Notre Dame.
- Long, D. (2009) *Darwin's Hammer: An Existential Analysis of the Basis on Which People Accept or Reject Evolutionary Theory*. Paper presented at "Evolution and Religion: Toward a History of an Evolving Relationship". Clemson University.
- Long, D. (2008) *Scientists Acting Against the Creation Museum*. Paper presented at the annual meeting of the Society for the Social Study of Science, Erasmus University, Rotterdam, the Netherlands.

Long, D. (2007) *Evolution, Ideology, and College Student Practice*. Paper presented at the annual meeting of the American Anthropological Association, Washington, D.C.

Long, D. (2007) *College Student Practice and the Symbolic Violence of Evolution*. Paper presented at the annual meeting of the Society for the Social Study of Science, Montreal, Canada.

Conference Session Discussant:

2014 *Complicating Content: Moving Beyond Traditional Approaches to Teaching Children*. Session discussant invited for the Annual meeting of the American Educational Research Association, Philadelphia, PA.

Conference Sessions Chaired:

2015 *Meaningful Student Engagement in Scientific Discourse and Practice*. Session chaired at the Annual meeting of the American Educational Research Association, Chicago, IL.

2015 *Literacy Practices Across Contexts*. Session chaired at the Annual meeting of the American Educational Research Association, Chicago, IL.

2014 *Higher Education's Walk of Shame: Dirty Money, Dirty Morals, and Loss of Intimacy*. Session chaired at the annual meeting of the American Anthropological Association, Washington D.C.

2014 *Students' Critical Reflections on Identity and Role*. Session chaired at the Annual meeting of the American Educational Research Association, Philadelphia, PA.

2014 *Select Topics in Middle School Science Education*. Science Teaching and Learning SIG. Session chaired at the Annual meeting of the American Educational Research Association, Philadelphia, PA.

2014 *Nature of Science and Pedagogical Content Knowledge*. Session presided at the annual meeting of the National Association for Research in Science Teaching, Pittsburgh, PA.

2012 *Student Understanding in Science*. Science Teaching and Learning SIG. Annual meeting of the American Educational Research Association, Vancouver, British Columbia.

2012 *Community and its Influence on Education*. Section G—Social Context of Education. Annual meeting of the American Educational Research Association, Vancouver, British Columbia.

2008 *Genetics in Education*. Future Directions in Genetics Studies, graduate workshop. International Society for the History, Philosophy, and Social Study of Biology. Washington University, St. Louis, Missouri.

Conference Sessions Organized:

- 2015 *The NOSTic Gospel: The Nature of Science Cult(ure) and its Discontents*. Conference panel presented, Council on Anthropology and Education section, annual meeting of the American Anthropological Association, Denver.
- 2013 *Producing Anthropologists*. Council on Anthropology and Education section, annual meeting of the American Anthropological Association, Chicago.
- 2009 *The End(s) of Science Education? Examining the Situated Practices of Science Learning for Social and Political Transformation*. Council on Anthropology and Education section, annual meeting of the American Anthropological Association, Philadelphia.

Other presentations:

- 2010 *Establishing and Growing a Graduate and Professional Education Research Journal: Valdosta State's Novus Scientia*. Paper presented at the Georgia Educational Research Association annual meeting, Savannah, GA.
- 2009 *Regional College Student Perceptions and Reactions to Evolutionary Theory*. Paper presented at the annual meeting of the Kentucky Academy of Science.

Campus / Departmental Lectures

- 2011 *What Can the Sciences Do about the Social Controversy Surrounding Evolution?* College of Arts and Sciences, Science Seminar Series. Valdosta State University, Valdosta, GA.
- 2010 *Evolution Education in Policy, Practice and Perception*. University of Kentucky, Department of Educational Policy Studies and Evaluation, Spring Colloquium Series, Lexington, KY.

Teaching Experience

Morehead State University:

- Graduate: Education in Context
- Undergraduate: Perspectives in Mathematics and Science Education
Knowing and Learning in Science and Mathematics
Secondary Science and Mathematics Teaching Methods
Secondary Science and Mathematics Field Experience
Science for the Elementary Teacher
Middle Grades Mathematics Teaching Methods

Modern Issues and Problems in Physical Science

George Mason University:

Doctoral seminar: Foundations of Science Education Research

Valdosta State University:

Graduate: Reflective Teaching Practices Seminar
Capstone Seminar
Professional Decision Making in Education

Undergraduate: Integrated Teaching Methods, Science and Mathematics
Investigating Critical and Contemporary Issues in Education

Workshops and Training

- 2017 *Classroom Interactions workshop*. UTeach Institute, University of Texas at Austin.
- 2016 *Perspectives in Mathematics and Science Teaching workshop*. UTeach Institute / UKanTeach program, Overland Park, Kansas.
- 2015 *Knowing and Learning in Mathematics and Science workshop*. UTeach Institute, University of Houston, Houston TX.
- 2013 *The Science of Science Communication II. Sackler Colloquium Series, Evolution Work Group*. National Academies of Science, Washington D.C.
- 2013 Invited participant, *Reporting Across the Culture Wars: Engaging Media on Evolution*. March 22-24, National Evolutionary Synthesis Center (NESCent). Raleigh, NC.
- 2011 *BSCS Videocases for Science Teaching Analysis (ViSTA) Workshop*. Biological Science Curriculum Study, Colorado Springs, CO.
- 2008 *Future Directions in Genetics Studies*, graduate workshop. International Society for the History, Philosophy, and Social Study of Biology. Washington University, St. Louis, MO.
- 2007 *Works in Progress Session for New Scholars*. Rodney Hopson—Chair. Sponsored by the Council on Anthropology and Education, at the annual meeting of the American Anthropological Association, Washington, D.C.

Professional Service

Editorial Service:

- 2017 Editor along with Leanne Avery, special issue of *Cultural Studies of Science Education: Cultural Studies of Rural Science Education*, 12(1).
- 2013 - 2016 Editorial Board, three year term, *Journal of Research in Science Teaching*.
- 2012 - Editorial Board, *Cultural Studies of Science Education*.
- 2010 - 2011 Editor, *Novus Scientia*. Education research journal of Valdosta State University, Valdosta, GA

Peer Review:

- 2015 Manuscript peer reviewed for the *Yearbook of Physical Anthropology*.
- 2014 Manuscript peer reviewed form the *Journal of Educational Policy*.
- 2013 Manuscript peer reviewed for the *Journal of Science Communication*.
- 2013- Manuscripts peer reviewed for *Environmental Education Research*.
- 2013- Manuscripts peer reviewed for *School Science and Mathematics*, Journal of the School Science and Mathematics Association.
- 2012- Manuscripts peer reviewed for the *Journal of Research in Science Teaching*, Journal of the National Association for Research in Science Teaching
- 2012 - Manuscripts peer reviewed for *BioScience*, Journal of the American Institute of Biological Sciences
- 2012- Manuscripts peer reviewed for *Cultural Studies of Science Education*
- 2012 - Book proposals reviewed, Springer Publishing.

Organizational Service:

- 2012 - Program section reviewer, Council on Anthropology and Education, annual conference of the American Anthropological Association
- 2012-2015 Publication Advisory Committee, National Association for Research in Science Teaching. Three year appointment term.
- 2011-2013 Co-chair, Post-Secondary Education Committee, Council on Anthropology and Education, American Anthropological Association. Two year appointment term.

- 2011-2013 Board member, Council on Anthropology and Education, American Anthropological Association. Two year appointment term.
- 2011 Faculty mentor. Faculty/Student Mentoring Program, Society for the Social Studies of Science
- 2009 - Program section reviewer, annual conference of the National Association for Research in Science Teaching
- 2008 - 2010 Student Section Program Chair, Faculty/Student Mentoring Committee. Society for the Social Study of Science

Institutional Service:

- 2017- Faculty Senate, Academic Issues Subcommittee. Morehead State University.
- 2017- Academic Appeals Committee. Morehead State University.
- 2017- University Senate. Department of Middle Grades and Secondary Education, Morehead State University
- 2017 - Faculty Advisor, MSUExplore—Student organization of the MSUTeach program.
- 2016 - Chair, Curriculum Committee, Department of Middle Grades and Secondary Education Department Curriculum, Morehead State University
- 2016 - Faculty Evaluation Plan Committee, Department of Middle Grades and Secondary Education, Morehead State University
- 2016 - Middle Schools Liaison, MSUTeach program. Morehead State University
- 2015 - MSUTeach Program Steering Committee. Morehead State University.
- 2014 Doctoral program candidate interviews, George Mason University.
- 2011 - 2012 University Senator, Valdosta State University
- 2011 - 2012 Academic Policies Committee, Valdosta State University
- 2010 - 2012 Graduate and Doctoral Faculty Member, Valdosta State University
- 2010 - 2012 Departmental Library Liaison, Valdosta State University
- 2010 - 2011 Research Committee, College of Education, Valdosta State University

- 2010 - 2011 United States Holocaust Museum, *Teaching About the Holocaust Teacher Forum*, Planning Committee, and contributed lecture. Valdosta State University
- 2007 Joint planning committee, University of Kentucky – University of Louisville, 2007 National Conference of Graduate Student Leadership
- 2006 - 2008 Graduate Student Congress, University of Kentucky
Education Policy Department Representative
- 1995 - 1996 University Senate Student Member, Indiana University of Pennsylvania.
- 1994 - 1996 President, Indiana University of Pennsylvania Chapter, Amnesty International

Advisory Board Service:

- 2016 – 2021 Advisory Board, National Science Foundation DRL grant # 1621194, “Learning Evolution Through Human and Non-Human Case Studies”. Briana Pobiner, Principal Investigator; Paul Beardsley, Constance Bertka, Amanda Glaze, Lee Meadows, and Bill Watson, Co-Principal Investigators.
- 2013 - 2015 Advisory Board, National Science Foundation DRL grant #1119468, “*Teaching evolution through human examples*”. Briana Pobiner, Principal Investigator; Richard Potts and William Watson, Co-Principal Investigators.

Mentor of Undergraduate Research:

Halter, J. (2017). Winner of Award for Exceptional Merit, Oral Presentations. Paper: *Novice and Expert use of Derivatives*. Morehead State Celebration of Student Scholarship.

Professional Affiliations

American Anthropological Association
 Council on Anthropology and Education
 American Educational Research Association
 Science Education: Special Interest Group
 Environmental Education: Special Interest Group
 Association for Science Teacher Education
 International History, Philosophy, and Science Teaching Group
 Kentucky Academy of Science
 National Association for Research in Science Teaching
 Publications Advisory Committee
 National Center for Science Education
 Society for the Scientific Study of Religion
 Society for the Social Study of Science