

Jeanne L. Cooper

Email: jeannel.cooper@cms.k12.nc.us; jcoop7565@gmail.com

Website: <http://cooperjl29.wixsite.com/mchsscience>

Education

Graduate Certificate in Middle and Secondary Education, University of North Carolina at Charlotte, May 2012. Certification in 6-9 science and math; 9-12 general science and earth science.

Ph.D. Geology, Miami University, Oxford, OH, May 1991. Dissertation: "The Springerville volcanic field, east-central Arizona: a case study of crust/mantle evolution and petrogenetic processes in a tectonophysical transition zone", Advisor: Dr. William K. Hart.

M.Sc. Geology, Miami University, Oxford, OH, December 1986. Thesis: "Chemical and isotopic variations within late Cenozoic tholeiitic and alkali basalts in relation to the Colorado Plateau and Basin and Range Provinces, east-central Arizona", Advisor: Dr. William K. Hart.

B.A. Geology, Miami University, Oxford, OH, August 1984.

Employment

Charlotte-Mecklenburg Schools (2012-present)

Mallard Creek High School, Charlotte, NC. Teacher for 9-12 science courses. Courses taught: Earth and Environmental Science, Honors Earth and Environmental Science, Astronomy, Honors Anatomy and Physiology, AP Environmental Science. Responsibilities include creation of lesson plans, development and grading of formative and summative assessments, assignment of grades, communication with parents, and differentiation.

Omega Learning Center (2012-2013)

Huntersville, NC. Tutor for students ranging in grade level from 6th to 12th. Subjects tutored include Algebra I and II, chemistry, and SAT/ACT preparation.

Middle School Science and Math Teacher (2009-2012)

Countryside Montessori School, Charlotte, NC. Teacher for 7th and 8th grade science (physical, life, earth/environmental), math (algebra I and pre-algebra), literature, and writing. Responsibilities included creation of lesson plans, development and grading of formative and summative assessments, assignment of grades, communication with parents, differentiation, and organization of field trips.

Visiting Lecturer (1996-1999)

University of North Carolina at Charlotte, Charlotte, NC. As a visiting lecturer, developed lesson plans, devised and graded homework assignments and exams, and assigned grades for 100 students in the Introductory geology course.

Team Leader for Scientific Integration (1994-1995)

U.S. Department of Energy, Yucca Mountain Site Characterization Office, Las Vegas, NV. Major responsibilities included: (1) managing scientific integration activities; (2) managing the development, review, and approval of study plans; (3) managing volcanism site characterization investigations, including definition of deliverables, acceptance reviews, and oversight of field work.

Physical Scientist (1991-1994)

U.S. Department of Energy, Yucca Mountain Site Characterization Office, Las Vegas, NV. Major responsibilities included: (1) managing all interactions with the Nuclear Waste Technical Review Board, the U.S. Nuclear Regulatory Commission, and the U.S. NRC's Advisory Committee on Nuclear Waste including correspondence, action items, meeting planning, and meeting summaries; (2) managing the development and production of the semi-annual progress report; (3) managing the site suitability task force; (4) managing volcanism site characterization investigations, including definition of deliverables, acceptance reviews, and oversight of field work.

Leadership	<p>Instructional Leadership Team, 2015-present. District lead initiative focused on improving literacy across grade levels and content areas.</p> <p>Instructional Excellence Team, Mallard Creek High School, 2014-present.</p> <p>PLC Lead, Earth and Environmental Science, Mallard Creek High School, 2014-present.</p> <p>Cooperating Teacher, Univ. of North Carolina Charlotte/Mallard Creek High School, 2015-2016.</p> <p>Beginning Teacher Mentor, Mallard Creek High School, 2014- present.</p> <p>Climate and Culture Committee, Mallard Creek High School, 2013-2014.</p> <p>Science Olympiad Advisor, Mallard Creek High School, 2015-present.</p> <p>Environmental Club Advisor, Mallard Creek High School, 2015-present.</p> <p>Gardening Club Advisor, Mallard Creek High School, 2014-2015.</p> <p>Science Olympiad Coach, Mallard Creek High School and Countryside Montessori School, 2011-present.</p> <p>Odyssey of the Mind Judge, March 2011.</p> <p>Girls on the Run Coach, Countryside Montessori School, Spring 2007.</p> <p>Advisory Board Chair person, Weaver Preschool, Cole Memorial United Methodist Church, 1998-2003. Oversaw start-up of preschool, including hiring of director, development of curriculum, set-up of classrooms, and auditing of finances.</p>
Professional Development (selected, education specific)	<p>Knowledge in Action, July 2016 – present. Project based learning curriculum focused on AP Environmental Science.</p> <p>AP Summer Institute, July 2015. College Board certification course for AP Environmental Science.</p> <p>Reading Apprenticeship, July 2015. Approach to reading instruction that helps students develop the knowledge and strategies they need to become more powerful readers.</p> <p>Charlotte Teachers Institute, 2015-2016. Exercise and the Brain, Dr. Barbara Lom, Davidson College.</p> <p>Charlotte Teachers Institute, 2014-2015. The Global Energy Challenge, Dr. Durwin Striplin, Davidson College.</p> <p>CMS Summer Institute, June 2013. Sessions on Google apps for education and Keeley probe formative assessments.</p> <p>CMS Summer Institute, June 2012. Preview showing of the documentary “SWITCH” and discussion of past, current, and future energy issues.</p> <p>PEAK, Teaching for Excellence, October 2012. 2 days of training using PEAK resources.</p> <p>Going Digital in the K-12 Classroom, July 2011 and 2012. Online workshops presented by Dr. Bruce Taylor and the Center for Adolescent Literacies at UNC Charlotte.</p> <p>Diverse Learners Workshop, September 2009. 1 day workshop focused on strategies for helping diverse learners in the classroom. Presented by Dr. Jen Ansted. Countryside Montessori School.</p> <p>Project Learning Tree Workshop, September 2009. 1 day workshop utilizing Project Learning Tree resources. Presented by Kim Garrett. Countryside Montessori School.</p>

Publications

Cooper, Jeanne L., 2015. "Your Brain on Exercise: linking healthy brains to solutions for environmental health." *Charlotte Teachers Institute* (2015). Nov. 2015. Web.

http://charlotteteachers.org/wp-content/uploads/2016/01/JCooper_unit_11-23-15.pdf

Cooper, Jeanne L., 2014. "A Good Planet Is Hard to Find: Climate Change, Energy, and Global Sustainability." *Charlotte Teachers Institute* (2014). Nov. 2014. Web.

http://charlotteteachers.org/wp-content/uploads/2015/01/JCooper_unit_11-26-14.pdf

Coppersmith, K.J., Perman, R.C., **Cooper, J.L.**, Stepp, J.C., Nelson, S., and Morris, P.A., 1995.

"Assessing volcanic hazard at Yucca Mountain using expert judgment," In: Proceedings of the International High-Level Radioactive Waste Management Conference, May, 1995.

Cooper, J.L., and Hart, W.K., 1990. "Mantle sources in the Arizona Transition Zone and Global mantle heterogeneity," *Geology*, v.18, p.1146-1149.

Cooper, J.L., Aronson, J.L., Condit, C.D., and Hart, W.K., 1990. "New K-Ar ages of lavas from the Colorado Plateau-Basin and Range transition zone, east-central Arizona," *Isochron/West*, v.55, p. 28-31.

Presentations

Cooper, Jeanne L., 15 June. 2016, "A Good Planet Is Hard to Find: Climate Change, Energy, and Global Sustainability." Lunch and Learn. Duke Energy Corporation, Charlotte. Speech.

Cooper, Jeanne L., 4 Feb. 2016, "A Good Planet Is Hard to Find: Climate Change, Energy, and Global Sustainability." Evening for Educators. Discovery Place Museum, Charlotte. Speech.

Cooper, J.L., and Wendlandt, E., 1991. Combined geochemical investigations of xenoliths and mafic magmatism in the Colorado Plateau region, *Geol. Soc. Of Amer.* Abstracts with Programs, v. 23.

Cooper, J.L., 1990. Magma chemistry and the Colorado Plateau transition zone: Sorting out the asthenosphere-lithosphere interactions, *Geol. Soc. Of Amer.* Abstracts with Programs, v.22.

Cooper, J.L., and Hart, W.K., 1990. Xenoliths and basaltic lavas from the Colorado Plateau transition zone: A combined investigation, *Transactions Am. Geophys. Union*, v.71.

Cooper, J.L., and Hart, W.L., 1989. Role of subcontinental lithosphere in the genesis of oceanic island basalts: Implications from basaltic magmatism in the Arizona transition zone, *Geol. Soc. Of Amer.* Abstracts with Programs, V. 21.

Cooper, J.L., and Hart, W.K., 1988. Isotopic constraints on crust/mantle evolution within the Colorado Plateau-Basin and Range transition zone, *Geol. Soc. Of Amer.* Abstracts with Programs, v.20.

Cooper, J.L., and Hart, W.K., 1986. The roles of mantle and crustal reservoirs in the evolution of the Springerville and Rio Grande Rift volcanics, *Geol. Soc. Of Amer.* Abstracts with Programs, v.18.