



THE GER EXCHANGE

Promoting high-quality scholarly research in geoscience education.

Featured Article

Searching for a Common Ground-- A Literature Review of Empirical Research on Scientific Inquiry Activities

"Despite the importance of scientific inquiry in science education, researchers and educators disagree considerably regarding what features define this instructional approach. While a large body of literature addresses theoretical considerations, numerous empirical studies investigate scientific inquiry on quite different levels of detail and also on different theoretical grounds. Here, only little systematic research has analysed the different conceptualisations and usages of the overarching construct of scientific inquiry in detail. To close this gap, a review of the research literature on scientific inquiry was conducted based on a widespread approach to defining scientific inquiry as activities that students engage in. The main goal is to provide a systematic overview about the range and spectrum of definitions and operationalisations used with regard to single activities of the inquiry process in empirical studies... The conclusions make the case for further theoretical work as well as empirical research."

Rönnebeck, S., Bernholt, S., & Ropohl, M. (2016). [Searching for a Common Ground-- A Literature Review of Empirical Research on Scientific Inquiry Activities.](#) *Studies in Science Education*, 52(2), 161-197.

Job, Internship, and Scholarship Opportunities

- [STEM Program Director](#), American Association for the Advancement of Science (click "Browse AAAS Jobs," search for position)
- [Assistant Professor of Environmental Education](#), Western Washington University (deadline **November 12, 2016**)
- [Associate or Full Professor for Teaching and Learning in STEM](#), Cluster Hire, University of California at Riverside (deadline **November 14, 2016**)
- [Lecture-Track Faculty in Environmental Field Teaching](#), Department of Environmental Sciences, Emory University (deadline **November 14, 2016**)
- [Neukom Fellows](#), Neukom Institute for Computational Science, Dartmouth University (deadline **November 15, 2016**)
- [Postdoctoral Research Associate](#), School of Earth and Space Science, Arizona State University (deadline **November 18, 2016**)
- [Assistant or Associate Professor of Environmental Science Education](#), Science Education Department, California State University-Chico (review begins **November 21, 2016**)
- [Assistant Professor of Earth Sciences](#) (research field unspecified), Ohio State University at Newark (Requisition #420687, deadline **December 5, 2016**)
- [Renewable Term Instructor of Science Education](#), Earth Science, University of Northern Iowa (Requisition # 51113, deadline **January 6, 2017**)

Upcoming Grant and Award Deadlines

- National Association for Research in Science Teaching [2017 Early Career Research Award](#) Nomination Deadline **November 15, 2016**
- National Science Foundation [Alliances for Graduate Education and the Professoriate \(AGEP\)](#) Full Proposal Deadline **December 9, 2016**
- National Science Foundation [ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers](#) Letter of Intent Deadline **December 14, 2016**
- National Science Foundation [Improving Undergraduate STEM Education: Education and Human Resources](#) (Development and Implementation Tier) Full Proposal Deadline **January 11, 2017**
- Spencer Foundation [Small Research Grants](#) Full Proposal Deadline **February 1, 2017**
- 2016 Emerald/Higher Education Teaching and Learning Association [Doctoral Research Awards](#) Application Deadline **March 1, 2017**

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For questions, or to join the GER Communications Committee, contact Communications Committee Chair [Kelsey Bitting](#).

