



DANIELS FUND

**& The Colorado School of Mines Chemical & Biological Engineering
Department Present**

ETHICAL ISSUES OF WORKING SCIENTISTS

Sandra C. Greer

The University of Maryland, College Park, MD
and Mills College, Oakland, CA

Friday, March 20th, 2020

Seminar: 10-11 a.m. • CTLM, Room 102

Workshop: 12:30-2:30 p.m. • TBD • [Sign-up Here](#)

SEMINAR ABSTRACT Scientists encounter ethical issues while doing science, while working among other scientists, and while working within society. Today we will think about how to approach ethical issues in general. Then we will look at the ethical issues in doing science and in dealing with other scientists. Scientists make daily decisions in their work about how to pose questions, how to analyze data, how to report results. Scientists work daily with other scientists as collaborators and coauthors, as supervisors and supervisees, as mentors and mentees, as referees and reviewers, as role models and advisors. All these activities have ethical components.

AFTERNOON WORKSHOP The workshop will be devoted to analyses of case studies of ethical quandaries that arise in doing science and in dealing with other scientists. Dr. Greer will propose case studies for discussion, but she will welcome (prefer!) that School of Mines staff members also bring to the workshop their own experiences for discussion. The discussions will be held in small groups, with reporting back to the whole group.

BIO Sandra Greer received her B. S. in chemistry in 1966 from Furman University in her home town of Greenville, SC. She received her Ph. D. in chemical physics from the University of Chicago in 1969, then spent nine years as a research chemist at the National Institute for Standards and Technology in Gaithersburg, MD. In 1978, she accepted a professorship in the Department of Chemistry and Biochemistry at the University of Maryland in College Park, MD. She chaired that department in 1990-1993. In 1995, she accepted a joint appointment in the Department of Chemical and Biochemical Engineering. In her research career, Dr. Greer was an experimental physical chemist focusing on the thermodynamic properties of solutions, including phase transitions and polymer solutions. After 30 years at the University of Maryland, Sandra moved to Oakland, CA, to serve as Provost and Dean of the Faculty at Mills College -- and to live near her twin sons and (later) her two grandsons. She retired in 2015 and is now writing and speaking. Her book "Elements of Ethics for Physical Scientists" was published by the MIT Press in 2017. She is at work on an undergraduate textbook on the chemistry of cooking. In 2004, she was awarded the American Chemical Society Francis P. Garvan-John M. Olin Medal, and in 2014 she was awarded the ACS Award for Encouraging Women into Careers in the Chemical Sciences.



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