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Annotated Bibliography of Ethical Issues in Physics: Mentorship

Marshall Thomsen
Eastern Michigan University, jthomsen@emich.edu

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Mentorship

EDU, MEN
Science and Engineering Ethics
Volume 17, Number 3 / September 2011, pp. 447-457
The University and the Responsible Conduct of Research: Who is Responsible for What?
Katherine Alfredo and Hillary Hart
The authors discuss the role of the university and the mentor in providing ethics education to graduate students, using three cases (including Robert Millikan) to illustrate their points.

BEGIN LINK

EDU, MEN
Physics Today – August 2011
Volume 64, Issue 8, p. 9
Student lab safety emphasized
Irving E. Dayton
A brief letter to the editor urging that more attention be paid to safety in student laboratories.

Physics Today – October 2011
Volume 64, Issue 10, p. 11
Student lab safety standards needed
Jesse McVaney
The author urges state action to ensure student safety in labs.

END LINK
The Art of Being a Scientist: A Guide for Graduate Students and Their Mentors
Roel Snieder, Ken Larner, and Renee D. Diehl, Reviewer
Book Review

BEGIN LINK

Physics Today -- November 2004
Volume 57, Issue 11, pp. 42-46
Ethics and the Welfare of the Physics Profession
Kate Kirby and Frances A. Houle
This article reports on one of the few surveys on the topic of ethics within the physics community. Particular attention is paid to the treatment of subordinates in the academic community.

Physics Today -- July 2005
Volume 58, Issue 7, pp. 12-17
Ethics Concerns Draw Many Questions, Some Answers
Peter Foukal, Frank Melsheimer, Georg Albrecht, Jeffrey Marque, Marshall Thomsen, Joseph O. West, Kate Kirby, Frances Houle, Leonard Finegold, and Caroline Whitbeck

END LINK
Influences on the ethical beliefs of graduate students concerning research
Robert L. Sprague, Jessica Daw and Glyn C. Roberts
Report on a survey of faculty and students at one Midwestern university
(across a wide range of departments). Includes extensive quotes from
open-ended questions.

Mentoring and ethical beliefs in graduate education in science
Rachelle D. Hollander
Commentary on ‘influences on the ethical beliefs of graduate students
concerning research’ (Sprague, Daw and Roberts)

Help from faculty: Findings from the Acadia institute graduate education
study
Melissa S. Anderson, Elo Charity Oju and Tina M. R. Falkner
Reports on the results of a 1989-1990 survey of graduate students in
chemistry, civil engineering, microbiology and sociology, investigating
the nature of assistance they receive from their mentors.

How many degrees of separation? Preparation, proximity and
professionalism
C. K. Gunsalus
Commentary on ‘Help from faculty: Findings from the Acadia institute
graduate education study’
Mentoring: Some ethical considerations
Vivian Weil
The author argues that there is an ethical responsibility to ensure that graduate students receive the proper mentoring, but that the title of “mentor” should not be tossed around lightly.

Graduate students and mentors: The need for divine intervention
Judith P. Swazey
Commentary on ‘Mentoring: Some ethical considerations’ (Weil).

“Sherry’s Secret”
Case study and commentary on research ethics
Leslie R. Sims
This case study focuses on issues relating to data fabrication, publication, collaboration, and mentorship. While one hopes the situation is well outside what a typical graduate student will experience, the resulting conflicts the student in this case study experiences are still useful to explore.

Commentary on “Sherry's secret”
Deborah G. Johnson

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