

# Incorporating Awareness of Professional Ethics into Science Courses

Amy E. Jetton

Middle Tennessee State University

Murfreesboro, TN





"Ethics refers to standards of conduct . . . that indicate how one should behave based on . . . principles of right and wrong. As a practical matter, ethics is about how we meet the challenge of doing the right thing . . . " Making Ethical Decisions, Josephson Institute of Ethics

http://www.josephsoninstitute.org

### What is Professional Ethics?



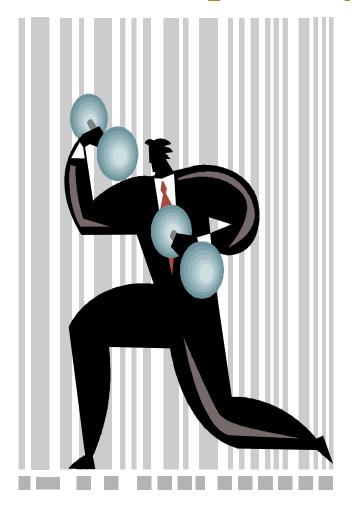
A standard or code of conduct which members of a profession expect of other members

# General Interest in Requiring Teaching of Ethics



- Challenger explosion
- Cold fusion
- Baltimore Case
- Gallo Case
- Investigations of professional misconduct common in journals and newspapers

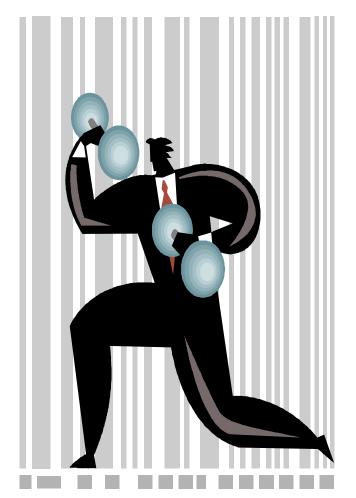
### Examples of Professional Codes



- Accreditation Board for Engineering & Technology
- National Society of Professional Engineers
- American Mathematical Society
- National Education Association
- American Association for the Advancement of Science



### Examples of Professional Codes



 Over 850 explicit codes available online at

http://www.iit.edu/departments/csep/
PublicWWW/codes/codes.html

Some codes are less explicit such as responsible conduct of research training, required for NIH & NSF trainees.

### Awareness of Professional Codes



- When students enter the professional world, they will be expected to follow an explicit or implicit ethical code.
- Do we teach students that codes exist?
- Do we teach students how to deal with ethical dilemmas in their professional lives?

### My Experiences

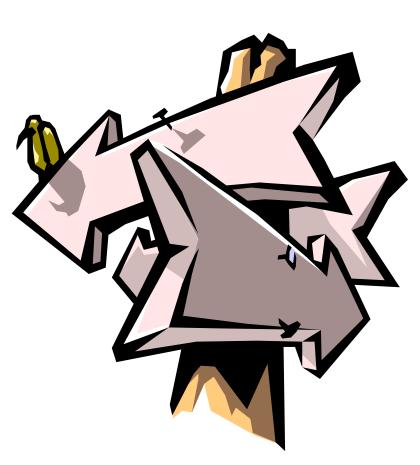


- Became interested in scientific ethics after a seminar last spring
- Attended a summer workshop on incorporating teaching of ethics into science classes
- Center for the Study of Ethics in the Professions, IIT

### How I've Incorporated Ethics

- Lecture (Codes & Guide)
  - PowerPoint Presentation
  - Exam Questions
- Case Study #1 Authorship (No Real Dilemma)
  - Group Discussion
  - Worksheets (following Guide)
- Case Study #2 Authorship (True Dilemma)
  - Discussion Boards on Web
  - Required Postings & Paper

## Guide to Ethical Decision Making



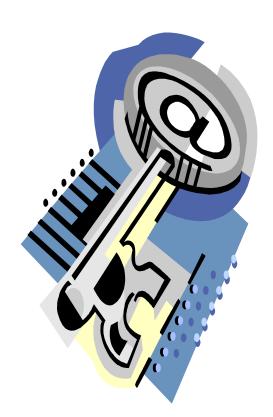
- 1. State problem.
- 2. Check facts.
- 3. Identify relevant factors.
- 4. Develop list of options.
- 5. Test options.
- 6. Make a choice.
- 7. Review the first 6 steps.

### What You Can Do In Your Class



- Awareness of standards or codes within your discipline (lecture or students look up)
- Use codes to illustrate necessity of your course content
- Historic cases, videos & discussions
- Case studies & role playing

# Resources for Studying or Teaching Professional Ethics



- Center for the Study of Ethics in the Professions, Illinois Institute of Technology
- Institute for the Study of Applied & Professional Ethics, Dartmouth College
- Institute for Global Ethics
- Josephson Institute of Ethics

# Resources for Studying or Teaching Professional Ethics



- AAAS Code & Video Project
- NIH
- NSF
- Most professional societies
- Association for Practical & Professional Ethics