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Annotated Bibliography of Ethical Issues in Physics: Research Misconduct

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Ethical Issues in Physics
Bibliography assembled by
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Eastern Michigan University
February 2012
Research Misconduct

MIS

Science and Engineering Ethics

Volume 17, Number 3 / September 2011, pp. 469-483

Textual Appropriation in Engineering Master's Theses: A Preliminary Study

Edward J. Ecke

The author reports that a preliminary study indicates that textual appropriation is common in the literature review portion of masters theses in engineering.

CLI/MIS

Bulletin of the Atomic Scientists

66.6 (November 2010) pp 1-7

Michael E. Mann: A scientist in the crosshairs of climate-change denial

Interview

This interview with a prominent climate scientist covers issues such as the peer review process, public perception, and how the scientific debate is played out in the media.

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MIS, PUB, ENE

Physics Today—July 2010

Volume 63, Issue 7, p. 50

On Fact and Fraud: Cautionary Tales from the Front Lines of Science

David Goodstein; Bernard J. Feldman, Reviewer

Book review

Physics Today—November 2010

Volume 63, Issue 11, pp. 11-12

Cold fusion and reproducibility

Fred McGalliard, Scott R. Chubb, and Bernard J. Feldman

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Physics Today—January 2010

Volume 63, Issue 1, pp. 40-45

Lives in Science: How Institutions Affect Academic Careers

Joseph C. Hermanowicz and Robert C. Hilborn, Reviewer

Book Review

Physics Today—July 2010

Volume 63, Issue 7, p. 10

Teaching amid the research obsession

Roger S. Jones

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Physics Today -- October 2009

Volume 62, Issue 10, p. 57

Plastic Fantastic: How the Biggest Fraud in Physics Shook the Scientific World

Eugenie Samuel Reich and Myriam P. Sarachik, Reviewer

Book Review

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Physics Today -- December 2008

Volume 61, Issue 12, pp. 10-12

Scientists protest professor's dismissal

Herbert L. Berk, Nathaniel J. Fisch, Alexander Burdakov, Gennadi I. Dimov, Alexander A. Ivanov, Eduard P. Kruglyakov, Vladimir Moiseenko, Klaus Noack, Vladimir P. Pastukhov, Shigetoshi Tanaka, and Olov Ågren

Colleagues rise to the defense of a physicist accused of wrongdoing.

Physics Today -- February 2009

Volume 62, Issue 2, pp. 12-14

University of Tsukuba defends professor's dismissal

Hiroshi Mizubayashi

Physics Today -- July 2009

Volume 62, Issue 7, pp. 10-11

Fired Tsukuba professor's defense

Teruji Cho, Herbert L. Berk, Nathaniel J. Fisch, Masafumi Akahira, and Hiroshi Mizubayashi

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Science and Engineering Ethics

Volume 14, Number 3 / September, 2008, pp. 323-336

Mentoring and Research Misconduct: An Analysis of Research Mentoring in Closed ORI Cases

David E. Wright, Sandra L. Titus and Jered B. Cornelison

The authors studies 45 cases of misconduct by examining records at the Office of Research Integrity. They focused on misconduct by students or post-docs and concluded that the mentors often had not set explicit standards for the students to follow.

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Physics Today -- June 2007

Volume 60, Issue 6, p. 36

Purdue Reopens Fusion Fraud Probe

Jim Dawson

The investigation of the sonofusion experiment was reopened following criticism by a U. S. House staffer of an earlier investigation.

Physics Today -- November 2008

Volume 61, Issue 11, pp. 28-29

Bubble fusion scientist disciplined

Barbara Goss Levi

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MIS

Science and Engineering Ethics

Volume 12, Number 3 / September, 2006, pp. 533-541

Scientific misconduct and science ethics: a case study based approach

Luca Consoli

The author examines the Schon case, paying particular attention to the report issued by the Bell Labs investigative committee. Questions are raised about how much the report actually resolves on crucial issues such as what it means to be a co-author.

MIS

APS Forum on Physics and Society Newsletter

Volume 34, Number 3 July 2005

Does National Security Require or Contradict Scientific Integrity?

News article on the issue of whether fraud was involved in lab tests related to missile defense systems. An investigation was halted when key information was classified.

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Science and Engineering Ethics

Volume 11, Number 2 / June, 2005, pp. 171-172

On identifying research misconduct respondents

Debra M. Parrish

An interesting short piece on the difference between policies at ORI and NSF regarding the disclosure of the names of those who have committed scientific misconduct.

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Physics Today -- May 2005

Volume 58, Issue 5, p. 32

Yucca Mountain E-mails Indicate Data Were Falsified

Jim Dawson

The emails include a reference by one scientist to keeping two sets of data files, one for his use and one to show Quality Assurance.

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Science and Engineering Ethics

Volume 10, Number 4 / December, 2004, pp. 639-653

Data selection and responsible conduct: Was Millikan a fraud?

Richard C. Jennings

The author examines the question of whether or not Millikan committed fraud in his oil drop paper. Included is a review of historical standards as well as of current standards for data analysis and presentation.

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Physics Today -- March 2003
Volume 56, Issue 3, pp. 56-57
Integrity in Industrial Research
William F. Brinkman

The author, a former vice president at Lucent Technologies, argues that there are misconceptions about how and why scientific fraud develops in an industrial setting.

Physics Today -- November 2003
Volume 56, Issue 11, p. 10
Strict Internal Review May Curb Research Fraud
Giorgio Margaritondo

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Physics Today -- January 2003
Volume 56, Issue 1, pp. 20-21
New APS Ethics Guidelines Address Research Misconduct and Professional Responsibilities
Jim Dawson

The APS Guidelines on Professional Responsibility were modified in light of the Schön and Ninov incidents.

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Physics Today -- December 2002

Volume 55, Issue 12, pp. 10-11

Truth, Ownership, and Scientific Tradition

Robert B. Laughlin

Discusses aspects academia and industry that provide both motivation and opportunity for deception in physics.

Physics Today -- April 2003

Volume 56, Issue 4, pp. 13-18

Research, Ownership, Misconduct—Readers Respond

Art Blair, Laurence N. Wesson, J. A. Van Vechten, Martin E. Ross,
James C. McGroddy, Frederic A. Lyman, Jed Rothwell, and Robert B.
Laughlin

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Science and Engineering Ethics

Volume 8, Number 4 / December, 2002, pp. 529-539

Seven ways to plagiarize: Handling real allegations of research misconduct

Michael C. Loui

The author looks at the definition of plagiarism, presents several case studies, and concludes with recommendations to authors and to those who investigate plagiarism allegations.

Science and Engineering Ethics

Volume 8, Number 4 / December, 2002, pp. 540-542

Exploring the role of the research integrity officer

Commentary on 'seven ways to plagiarize: Handling real allegations of research misconduct' (M. C. Loui)

Lisa N. Geller

Science and Engineering Ethics

Volume 8, Number 4 / December, 2002, pp. 543-544

Self-plagiarism and dual and redundant publications: What is the problem?

Commentary on 'seven ways to plagiarize: Handling real allegations of research misconduct' (M. C. Loui)

Stephanie J. Bird

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Physics Today -- July 2002
Volume 55, Issue 7, pp. 15-16
Bell Labs Convenes Committee to Investigate Questions of Scientific
Misconduct
Barbara Goss Levi
Early report on the investigation of the Schön affair at Bell Labs.

Physics Today -- November 2002
Volume 55, Issue 11, pp. 15-17
Investigation Finds that One Lucent Physicist Engaged in Scientific
Misconduct
Barbara Goss Levi

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Physics Today -- September 2001
Volume 54, Issue 9, p. 20
Element 118 Bows Out
Barbara Goss Levi
Reports on the retraction by researchers at the Lawrence Berkeley
National Laboratory of their claim to have discovered element 118.

Physics Today -- September 2002
Volume 55, Issue 9, pp. 15-17
Lawrence Berkeley Lab Concludes that Evidence of Element 118 Was a
Fabrication
Bertram Schwarzschild

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Science and Engineering Ethics

Volume 7, Number 1 / March, 2001, pp. 147-150

“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.

Science and Engineering Ethics

Volume 7, Number 1 / March, 2001, pp. 151-152

Commentary on “Sherry's secret”

Deborah G. Johnson

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Physics Today -- October 2000

Volume 53, Issue 10, pp. 78-80

Voodoo Science: The Road from Foolishness to Fraud

Robert L. Park and Kendrick Frazier, Reviewer

Book Review

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Science and Engineering Ethics

Volume 6, Number 1 / March, 2000, pp. 79-90

Protecting research integrity

Mats G. Hansson

A general discussion of steps to maintaining research integrity and of the dividing line between dishonesty and carelessness. Argues for ethics-related education early in the training of students.