

Ethical Issues in Physics
Bibliography assembled by
Marshall Thomsen
Eastern Michigan University
February 2012
Physics and Society Issues (Other)

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SOC

Science and Engineering Ethics

Volume 17, Number 4 / December 2011, pp. 723-737

Negotiating Plausibility: Intervening in the Future of Nanotechnology

Cynthia Selin

The author discusses how one can examine the potential societal impact of emergent technologies, using nanotechnology as a case study.

Science and Engineering Ethics

Volume 17, Number 4 / December 2011, pp. 739-742

On Identifying Plausibility and Deliberative Public Policy

Commentary on: "Negotiating Plausibility: Intervening in the Future of Nanotechnology"

René Von Schomberg

In this commentary the author points out that the procedure described in the preceding paper produces not only a more transparent process for evaluating emergent technologies but will also likely produce higher quality decisions.

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SOC

Science and Engineering Ethics

Volume 17, Number 4 / December 2011, pp. 743-760

Adding to the Mix: Integrating ELSI into a National Nanoscale
Science and Technology Center

David J. Bjornstad and Amy K. Wolfe

The authors discuss a mechanism for integrating Ethical, Legal and
Social Issues research into nanomaterials research, arguing that it
benefits both the materials research program and society at large.

Science and Engineering Ethics

Volume 17, Number 4 / December 2011, pp. 761-767

Nanoethics and the Breaching of Boundaries: A Heuristic for Going
from Encouragement to a Fuller Integration of Ethical, Legal and
Social Issues and Science

Commentary on: "Adding to the Mix: Integrating ELSI into a
National Nanoscale Science and Technology Center"

Julio R. Tuma

The author points out that ELSI research should include an
investigation of "boundary crossings" related to far reaching effects of
technology associated with the tendency for some new technologies to
breach existing boundaries, and to have unpredictable effects that are
persistent.

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SOC

Science and Engineering Ethics

Volume 17, Number 3 / September 2011, pp. 399-409

Scientific Research and the Public Trust

David B. Resnik

The author argues that the concept of "the public trust" needs to be refined
since the public is not a monolithic entity.

ADV, SOC

APS Forum on Physics and Society Newsletter

Volume 40, Number 3 July 2011

Honesty, Perseverance, and Objectivity: Lessons from a Life in Public Policy

John F. Ahearne

The author draws on examples ranging from accidents in nuclear power plants to his experience with national security issues.

SOC

APS Forum on Physics and Society Newsletter

Volume 40, Number 2 April 2011

Nonsense On Stilts: How to Tell Science from Bunk

Massimo Pigliucci (reviewed by Lawrence S. Lerner)

Book Review

SOC

Science and Engineering Ethics

Volume 17, Number 1 / March 2011, pp. 45-64

Patenting and Licensing of University Research: Promoting Innovation or Undermining Academic Values?

Sigrid Sterckx

The author describes the rise in university owned patents and some of the negative consequences of the push for more such patents. Four proposals are made to reduce the negative impact of university owned patents.

SOC

APS Forum on Physics and Society Newsletter

Volume 40, Number 1 January 2011

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

David Goodstein (reviewed by Joe Levinger)

Book Review

SOC

APS Forum on Physics and Society Newsletter

Volume 39, Number 4 October 2010

Am I Making Myself Clear?: A Scientist's Guide to Talking to the Public

Cornelia Dean (reviewed by Peter Schroeder

Book Review

SOC

APS Forum on Physics and Society Newsletter

Volume 39, Number 4 October 2010

Don't Be Such a Scientist: Talking Substance In an Age of Style

Randy Olson (reviewed by Leonard R. Solon

Book Review

SOC

APS Forum on Physics and Society Newsletter

Volume 39, Number 3 July 2010

Science Committee Hearing Spotlights Shortage in Critical Isotope

A discussion of the implications of dwindling supplies of He-3.

SOC

Bulletin of the Atomic Scientists

66.4 (July 2010) pp. 58-69

The security implications of nanotechnology

Margaret Kosal

The author argues that even though the potential for nanotechnology-based chemical and biological weapons is speculative, we nevertheless need to monitor nanotechnology carefully for international security reasons.

SOC

APS Forum on Physics and Society Newsletter

Volume 39, Number 2 April 2010

Communicating Science to the Media

Kathryn Grim

The author provides a tutorial on preparing for an interview with a reporter, addressing several issues related to effective communication between scientists and the public at large.

SOC

Bulletin of the Atomic Scientists

66.2 (March 2010) pp. 1-8

The growing threat of space debris

Samuel Black

The author discusses the origins of space debris, its significance, and mitigation efforts.

SOC

Science and Engineering Ethics

Volume 16, Number 1 / March 2010, pp. 33-41

Why Science cannot be Value-Free

Understanding the Rationality and Responsibility of Science

Agnieszka Lekka-Kowalik

It is argued that scientists must consider the impact their research has or might have on society—these issues are not solely in the realm of the policy makers.

SOC, CLI

APS Forum on Physics and Society Newsletter

Volume 39, Number 1 January 2010

Global Warming: Lessons from Ozone Depletion

Art Hobson

This article provides a concise history of international efforts to control CFC release into the atmosphere and argues the cooperation among interested parties demonstrated in that effort is what is needed to combat greenhouse gases in the context of global climate change.

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Physics Today -- December 2009

Volume 62, Issue 12, pp. 32-37

Lighting and astronomy

Christian B. Luginbuhl, Constance E. Walker, and Richard J. Wainscoat

This article discusses modeling of light pollution and what can be done to reduce its impact.

Physics Today—June 2010

Volume 63, Issue 6, pp. 8-10

Many facets of light pollution

Mark S. Rea, John D. Bullough, Jennifer A. Brons, Christian B. Luginbuhl, Constance E. Walker, and Richard J. Wainscoat

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SOC

Physics Today -- December 2009

Volume 62, Issue 12, pp. 28-30

Congressional fellows tackle a range of national issues

Jermey N. A. Matthews

Physics Today reports annually on this program to send physicists and engineers to work with Congress on technical issues.

SOC

Physics Today -- November 2009

Volume 62, Issue 11, pp. 39-44

Human-generated sound and marine mammals

Peter L. Tyack

This article describes research into sound sources (such as noise from commercial ships), how these sounds are perceived by marine mammals, and what impact they have on these mammals.

SOC

Physics Today -- October 2009

Volume 62, Issue 10, pp. 21-23

US government agencies work to minimize damage due to helium-3 shortfall

Toni Feder

Increased demand for helium-3 for applications such as plutonium detectors in use at U. S. borders is making it more challenging to allocate this resource.

SOC

Physics Today -- October 2009

Volume 62, Issue 10, pp. 23-25

As weapons work slows, DOE labs keep busy with research

David Kramer

A news article discussing the current mission at national labs that have historically focused on weapons research.

SOC

APS Forum on Physics and Society Newsletter

Volume 38, Number 4 October 2009

Science as a Model for Rational, Legitimate Government Capable of Meeting Society's Grand Challenges

Lewis M. Branscomb

The author reviews polling data about public reaction to energy related issues to gain insight into what needs to be done in order that science effectively informs policy. He proposes research that is guided towards addressing critical problems but that is evaluated on its quality.

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APS Forum on Physics and Society Newsletter

Volume 38, Number 4 October 2009

The Medical Isotope Shortage

Thomas J. Ruth

Reactor shut downs resulting in shortages of medical isotopes have served as a warning that the isotope supply issue needs to be addressed.

APS Forum on Physics and Society Newsletter

Volume 39, Number 2 April 2010

Isotopes for the Nation's Future

Donald F. Geesaman and Ani Aprahamian

The authors provide a brief overview of the Isotope Program at the Department of Energy.

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APS Forum on Physics and Society Newsletter

Volume 38, Number 4 October 2009

Physics for Future Presidents: The Science Behind the Headlines

By Richard A. Muller

Reviewed by Ruth Howe

Book Review

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Science and Engineering Ethics

Volume 15, Number 3 / September, 2009, pp. 375-394

The Problems with Forbidding Science

Gary E. Marchant and Lynda L. Pope

The authors argue that restrictions on scientific research are best imposed by scientists themselves: they have a demonstrable interest in maintaining the public trust and they can respond more quickly and effectively to evolving fields of inquiry.

Science and Engineering Ethics

Volume 15, Number 3 / September, 2009, pp. 395-406

Scientific Self-Regulation—So Good, How Can it Fail?

Commentary on “The Problems with Forbidding Science”

Patrick L. Taylor

This commentary on the preceding paper contrasts successful self-regulation of stem cell research to less than successful self regulation in issues related to conflict of interest.

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Science and Engineering Ethics

Volume 15, Number 3 / September, 2009, pp. 351-366

Science, Democracy, and the Right to Research

Mark B. Brown and David H. Guston

This article looks at the definition of “rights” and explores political and legal aspects of the right to research. It notes that society can restrict research in a given area not only by banning it, but also by merely denying support for it.

Science and Engineering Ethics

Volume 15, Number 3 / September, 2009, pp. 367-373

Private Interests Count Too

Commentary on “Science, Democracy, and the Right to Research”

Mark S. Frankel

In his commentary on the above paper, this author points out that scientists must also deal with corporate influences on the direction of research.

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Science and Engineering Ethics

Volume 15, Number 3 / September, 2009, pp. 263-269

Editors’ Overview: Forbidding Science?

Gary E. Marchant and Stephanie J. Bird

An overview of a conference and of this special issue of SEE on the topic of whether certain areas of scientific research should be forbidden.

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Physics Today -- August 2009

Volume 62, Issue 8, pp. 41-42

Encouraging good science on the Web

Alexander Antunes

The author argues that it is important to maintain the quality of information on the web that is being presented as “scientific,” and that there should be an appropriate reward system for scientists working in this area.

SOC

Bulletin of the Atomic Scientists

65.1 (January-February 2009) pp. 56-61

Nanomaterial safety

Scott E. McNeil

The author discusses research on the possible link between nanoparticles and cancer, paying particular attention to a study involving gold nanoparticles and lab rats that indicates the cancer risk may be highly dependent on the type of coating on the particle.

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SOC

Physics Today -- January 2009

Volume 62, Issue 1, pp. 41-47

Panofsky agonistes: The 1950 loyalty oath at Berkeley

Personal correspondence gives insight into Panofsky's reaction when confronted with the University of California loyalty oath shortly after World War II.

Physics Today -- June 2009

Volume 62, Issue 6, pp. 8-10

Berkeley loyalty oath tested politics, fear—not loyalty

Kenneth W. Ford, Howard D. Greyber, Robert P. Crease, and J. D. Jackson

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Physics Today -- October 2008

Volume 61, Issue 10, pp. 38-44

The larger world of nano

Cyrus C. M. Mody

There is a mismatch between public and nanoscientist perception of risk in nanotechnology, and the author argues the gap can be closed with help from those in social science and humanities.

Physics Today -- May 2009

Volume 62, Issue 5, pp. 12-13

Parallel issues in nanotech, climate science

Wolfgang Knorr

Physics Today -- November 2008

Volume 61, Issue 11, pp. 30-31

NSF-EPA centers study safety of nanomaterials

Toni Feder

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APS Forum on Physics and Society Newsletter

Volume 37, Number 3 July 2008

The Essential Exponential! For the Future of Our Planet

By Albert A. Bartlett with Robert G. Fuller, Vicki L. Plano Clark, and John A. Rogers

Reviewed by Manish Gupta

Book Review

SOC

Physics Today -- February 2008

Volume 61, Issue 2, pp. 23-24

Legal Battle Over Sonar Testing Heats Up

Jennifer Ouellette

A history of the several year legal battle over whether sonar testing harms marine mammals.

SOC

APS Forum on Physics and Society Newsletter

Volume 37, Number 1 January 2008

You Say You Want an Evolution? A Role for Scientists in Science Education

Coalition of Scientific Societies

This report on a survey of the attitude of Americans towards science provides useful background for a discussion of science and society issues.

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Physics Today -- December 2007

Volume 60, Issue 12, pp. 48-52

The Copernican Myths

Mano Singham

This article serves to remind us that the history we learn casually is not always well-researched.

Physics Today -- June 2008

Volume 61, Issue 6, pp. 8-12

Dispelling myths and highlighting history of the heliocentric model

Ljiljana Dobrosavljevic-Grujic, Leonid V. Azaroff, Robert N. Oerter, Michael Schaaf, Frank R. Tangherlini, Paul Dickson, William Unruh, and Mano Singham

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SOC

Bulletin of the Atomic Scientists

63.6 (November-December 2007) pp. 40-47

An inconvenient assessment

Chris Mooney

This essay on a national assessment of climate change discusses the origins of the study as well as the fate of the report. It explores issues at the interface of science with politics.

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Physics Today -- October 2007

Volume 60, Issue 10, pp. 35-40

Space Debris

David Wright

This overview of current level of space debris and implications for the future reminds us of this frequently overlooked environmental problem.

SOC

Bulletin of the Atomic Scientists

63.4 (July-August 2007) pp. 19-20

Carbon dioxide on the move

Richard Doctor

This brief article points out the safety hazards of working with large quantities of carbon dioxide.

SOC

APS Forum on Physics and Society Newsletter

Volume 36, Number 3 July 2007

Physics of Societal Issues: Calculations on National Security, Environment, and Energy, by David Hafemeister

Reviewed by Cameron Reed

Book Review

SOC

Bulletin of the Atomic Scientists

63.1 (January-February 2007) pp. 62-64

Freedom of inquiry

Freeman Dyson

The author argues that forbidding certain types of scientific research is not an effective way of defending against misuse of advances in science.

SOC

Physics Today -- November 2006

Volume 59, Issue 11, pp. 78-79

The Pros and Cons of Leap Seconds

Brian Luzum

Not exactly headline material, but nevertheless this is a brief, easy to understand case study of how science impacts society in somewhat unexpected ways.

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Physics Today -- September 2006

Volume 59, Issue 9, pp. 28-29

Nanotech Risk Research Needs Strategy, Money

Jim Dawson

Physicist Andrew Maynard argues that more effort is needed to study potential risks of nanotechnology now that this has become a multi-billion dollar industry involving wide ranging products such as cosmetics and neck support pillows.

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Physics Today -- August 2006

Volume 59, Issue 8, p. 24

Marburger Says Communications Directive Unnecessary

Jim Dawson

A brief look at government policy regarding communication by government-employed scientists.

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Physics Today -- July 2006

Volume 59, Issue 7, pp. 46-47

Addressing the public about science and religion

Murray Peshkin

The author argues for the importance of giving talks to general audiences in which distinctions are drawn between science and religion.

Physics Today -- February 2007

Volume 60, Issue 2, pp. 10-15

Debate About Science and Religion Continues

Michael Matthews, David Morrison, Moorad Alexanian, Joe Heafner, Juan G. Roederer, Keith Schofield, and Michael Todhunter

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SOC

Physics Today -- June 2006

Volume 59, Issue 6, pp. 38-42

Science and Government

John H. Marburger III

This article provides an historical perspective on how science policy is formed in this country, including a discussion of the role physicists play in forming such policy.

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Physics Today -- February 2006

Volume 59, Issue 2, pp. 20-21

NSF Centers to Study Societal Impact of Nanotechnology

Jim Dawson

Issues addressed in the planned studies include the ethical implications of having sensors so small they can be unobtrusively sprayed on people.

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SOC

Bulletin of the Atomic Scientists

62.1 (January-February 2006) p. 72

To tell the truth

Sibel Edmonds, William Weaver

A short commentary on the fact that certain federal employees do not have whistleblower protection and hence may need to choose between their career and exposing wrongdoing.

Bulletin of Atomic Scientists

62.3 (May-June 2006)

Protect Whistleblowers (Letter)

Beth Daley

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APS Forum on Physics and Society Newsletter

Volume 35, Number 1 January 2006

Strawbale Construction - Low Tech vs. High Tech or Just Better Physical Properties?

Ken Haggard

Some interesting, basic physics is involved in this discussion of the use of straw bales for building walls.

APS Forum on Physics and Society Newsletter

Volume 35, Number 3 July 2006

More on Strawbale Construction

Robert Breche

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Physics Today -- January 2006

Volume 59, Issue 1, pp. 49-54

Vehicle Design and the Physics of Traffic Safety

Marc Ross, Deena Patel, and Tom Wenzel

The mechanics of automobile accidents are used to give insight into auto safety policy issues.

Physics Today -- October 2006

Volume 59, Issue 10, p. 14

Safer Vehicles by Redesign

Romuald Anthony, Ian Halliday, Marc Ross, Deena Patel, and Tom Wenzel

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APS Forum on Physics and Society Newsletter

Volume 34, Number 4 October 2005

The Great Fallout-Cancer Story of 1978 and its Aftermath

Daniel W. Miles

A former resident of St. George Nevada questions repeated stories of excessive cancer rates in the town arising from nuclear testing, contrasting conclusions of books drawn from anecdotal evidence and preliminary reports with his investigation of a variety of other sources.

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APS Forum on Physics and Society Newsletter

Volume 34, Number 3 July 2005

The American Physical Society's Involvement in the Defense of Human Rights

Edward Gerjuoy

The APS Committee on International Freedom of Scientists works to protect the rights of all scientists, not just physicists.

SOC

Bulletin of the Atomic Scientists

61.3 (May-June 2005): pp. 60-61

The Pentagon's psychic friends network

Review of "The Men Who Stare at Goats:

By Jon Ronson

Reviewed by Michael Shermer

Book Review

SOC

Science and Engineering Ethics

Volume 10, Number 2 / June, 2004, pp. 235-242

Eight-dimensional methodology for innovative thinking about the case and ethics of the mount graham, large binocular telescope project

Rosalyn W. Berne and Daniel Raviv

When construction of an observatory is planned for sacred Native American grounds, astronomers confront some issues they are not used to dealing with.

SOC

APS Forum on Physics and Society Newsletter

Volume 32, Number 4 October 2003

Risk and Reason: Safety Law and the Environment, by Cass Sunstein,

Reviewed by Peter Schroeder

Book Review

SOC

APS Forum on Physics and Society Newsletter

Volume 32, Number 3 July 2003

Letters from Italy: A Physicist's Decision not to Review Papers for Phys.

Rev., Daniel Amit

This brief exchange between an editor and a “retiring” reviewer illustrates an interesting intersection between publication issues and international policy issues.

SOC

Physics Today -- February 2003

Volume 56, Issue 2, pp. 48-52

The Privilege of Being a Physicist

Victor F. Weisskopf

A reprint of the author's 1969 Physics Today article in which he discusses the importance of the way in which physicists interact with society at large.

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APS Forum on Physics and Society Newsletter

Volume 32, Number 1 January 2003

Sniffer Plane Secrets and Political Courage

Alan J. Scott

While this article straddles the fence between science/society issues and political analysis, it does serve to illustrate the importance of openness in scientific inquiry by examining a celebrated case of fraud in military research.

SOC

Bulletin of the Atomic Scientists

58.4 (July-August 2002): pp. 65-66

Science, Money, and Politics: Political Triumph and Ethical Erosion Daniel
S. Greenberg

Reviewed by Michael S. Reidy

Book Review

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Physics Today -- June 2002

Volume 55, Issue 6, pp. 48-51

Intelligent Design Is Creationism in a Cheap Tuxedo

Adrian L. Melott

and pp. 48-51

Philosophy Is Essential to the Intelligent Design Debate

Mano Singham

Two essays that open up issues on the nature of science and on the
interactions between scientists and society at large.

Physics Today -- September 2002

Volume 55, Issue 9, pp. 10-82

Seven More Views on Intelligent Design

Ralph Linsker, Pantazis Mouroulis, Moorad Alexanian, Mano Singham,
Claud E. Lacy, James C. Adamski, Adrian L. Melott, Megan Donahue,
and George L. Murphy

Physics Today -- November 2002

Volume 55, Issue 11, pp. 95-97

Intelligent Design Tangles Science and Religion

David C. Nobes, Jim A. Van Vechten, Ted Lawry, Adrian Melott, and
Mano Singham

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APS Forum on Physics and Society Newsletter

Volume 31, Number 2 April 2002

Humanitarian De-mining and the Quest for Better Ways to Locate Buried Non-metallic Objects

Surajit Sen and Ronald L. Woodfin

The author reviews recent advances in technology to locate land mines, noting that more research is needed to develop safe and effective de-mining equipment.

APS Forum on Physics and Society Newsletter

Volume 31, Number 3 July 2002

Mine Detection and the Need for New Technology

Patrick Blagden

Not written in response to the above article but covers the same general topic from a different perspective, so it makes a good companion piece.

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SOC

Science and Engineering Ethics

Volume 8, Number 1 / March, 2002, pp. 59-81

Representation and misrepresentation: Tufte and the Morton Thiokol engineers on the Challenger

Wade Robison

This discussion of events that preceded the Challenger accident illustrates the challenges that scientists and engineers can have when interacting with managers and reminds us that sometimes these interactions have life and death consequences.

SOC

Science and Engineering Ethics

Volume 8, Number 1 / March, 2002, pp. 43-57

Ethics and science: Educating the public

R. Brownhill and L. Merricks

Looks at a debate over fundamental ethical issues in science that took place in the first half of the twentieth century, including issues such as to what extent are scientists responsible for how their research is used.

SOC

Physics Today -- January 2002

Volume 55, Issue 1, pp. 52-54

Science, Money, and Politics: Political Triumph and Ethical Erosion

Daniel S. Greenberg and Norman Metzger, Reviewer

Book Review

SOC

APS Forum on Physics and Society Newsletter

Volume 31, Number 1 January 2002

Losing Weight to Save Lives: A Review of the Role of Automobile Weight and Size in Traffic Fatalities

Marc Ross and Tom Wenzel

The authors analyze crash statistics to make the case that one cannot assume that reducing vehicle weight will increase the fatality rate associated with automobile accidents.

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Physics Today -- December 2001

Volume 54, Issue 12, pp. 35-41

Edward Condon and the Cold War Politics of Loyalty

Jessica Wang

Edward Condon, head of the National Bureau of Standards, did battle with the House Committee on Un-American Activities sparked by his support for arms control and other policies viewed as left leaning.

Physics Today -- April 2002

Volume 55, Issue 4, pp. 12-13

Edward Condon Remembered

Mark A. Wilson, Leonard X. Finegold, and R. Robert Brattain

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Physics Today -- May 2001

Volume 54, Issue 5, pp. 57-58

Beyond the Science Wars: The Missing Discourse about Science and Society and Real Science: What It Is, and What It Means

Ullica Segerstråle, John Ziman, Craig McConnell, Reviewer, and Robert H. March, Reviewer

Book Review

Physics Today -- October 2001

Volume 54, Issue 10, pp. 11-12

When Did the Science Wars Start?

Theo Theocharis and Mihalis Psimopoulos

Science and Engineering Ethics

Volume 8, Number 2 / June, 2002, pp. 235-252

Reflections on ' Real science: What it is, and what it means ' by John Ziman

Raymond Spier

Science and Engineering Ethics

Volume 8, Number 2 / June, 2002, pp. 253-255

A response to reflections on 'Real Science: What it is and what it means'
John Ziman

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APS Forum on Physics and Society Newsletter

Volume 30, Number 2 April 2001

What is the Imperative for Basic Science that Serves National Needs?

Gerald Holton

The author argues that the most important component of the moral authority of science is its obligation to the larger community. Science in this country needs to do more for society and needs the resources to do more.

SOC

Science and Engineering Ethics

Volume 6, Number 4 / December, 2000, pp. 549-552

Why scientists should cooperate with journalists

Boyce Rensberger

The author argues that there is a general interest in science among the general population, but there is often an inability to distinguish between science and pseudoscience.

SOC

Science and Engineering Ethics

Volume 6, Number 4 / December, 2000, pp. 435-442

Ethical issues in communicating science

Jinnie M. Garreu and Stephanie J. Bird

Lays out a framework for discussion of issues related to communication within the scientific community as well as between scientists and society at large.

SOC

Science and Engineering Ethics

Volume 6, Number 3 / September, 2000, pp. 341-349

Moral responsibility and the 'ignorant scientist'

John Forge

A discussion of the extent to which scientists engaged in "pure" research can be held morally accountable for unforeseen outcomes of their work.

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SOC

Physics Today -- June 2000
Volume 53, Issue 6, pp. 54-55
Teaching and Propaganda
Mano Singham

The author argues that there is an element of brainwashing that goes on when we teach, and this raises interesting issues when some students question the Big Bang theory.

Physics Today -- November 2000
Volume 53, Issue 11, pp. 14-81
Teaching, Propaganda, and the Middle Ground
W. C. Morrey, Hoi-Kwong Lo, Pantazis Mouroulis, Charles K. Scharnberger, Gary Powell, Philip E. Kaldon, Phil Baringer, Moorad Alexanian, and Mano Singham

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APS Forum on Physics and Society Newsletter
Volume 29, Number 2 April 2000
What Happened to Science Education: Kansas and Beyond
Adrian L. Melott

The debate over evolution impacts physics teachers' ability to discuss things like the Big Bang theory and strikes at the very heart of how we define science and how the public perceives science.

SOC

APS Forum on Physics and Society Newsletter
Volume 29, Number 2 April 2000
Why People Believe Wierd Things: Pseudoscience, Superstition and other Confusions of Our Time by Michael Shermer:
Reviewed by Mark E. Borrello
Book Review

SOC

Physics Today -- January 2000

Volume 53, Issue 1, pp. 22-23

Barbara Goss Levi

Experts Dismiss Doomsday Scenarios for RHIC

The possibility that a high energy physics experiment could inadvertently produce a black hole that would swallow the earth was considered in the context of the Relativistic Heavy Ion Collider at Brookhaven.

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Physics Today -- September 1999

Volume 52, Issue 9, pp. 24-29

Radiation Risk and Ethics

Zbigniew Jaworowski

This article and the subsequent letters illustrate debate among physicists over issues of immediate societal importance.

Physics Today -- April 2000

Volume 53, Issue 4

'Radiation Risk and Ethics': Health Hazards, Prevention Costs, and Radiophobia

Frank N. von Hippel, Stephen V. Musolino, Joe Levinger, Amos Norman, Edward B. Lewis, David M. Close, Arjun Makhijani, Harry W. Ellis, and Zbigniew Jaworowski
pp. 11-90

Physics Today -- May 2000

Volume 53, Issue 5, pp. 11-14

Radiation Risks and LNT: The Discussion Continues

Richard Wilson, Richard L. Garwin, and Zbigniew Jaworowski

Physics Today -- September 2000

Volume 53, Issue 9, p. 94

Low Dose Rates Need Consideration in LNT?

Frank Ellis

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Science and Engineering Ethics. Journal home. Volumes and issues. Volume 17, issue 4. Search within journal. Search. Volume 17, issue 4, December 2011. Science and Technology in the Making: Observation and Engagement. Issue editors. Stephanie J. Bird. Erik Fisher. 20 articles in this issue. Editorial Overview. Authors. Pages: 723 - 737. On Identifying Plausibility and Deliberative Public Policy. Authors. RenÅ© Von Schomberg. Content type: OriginalPaper. Published: 30 August 2011. Pages: 739 - 742. Adding to the Mix: Integrating ELSI into a National Nanoscale Science and Technology Center. Authors. Journal/Book/Conference Name. Science and Engineering Ethics. Year. 2011. Volume. 17. Issue. 4. Page Number(s). 723-737. DOI. 10.1007/s11948-011-9315-x. Research Program. - Any - CNS Overall RTTA 1 RTTA 2 RTTA 3 RTTA 4 -STIR TRC 1 TRC 2 Education Outreach. Type. - Any - Book Book Chapter Peer Review Journal Article Trade Journal Article Other Journal Article Presentation Internet Doctoral Dissertation Graduate Thesis Undergraduate Thesis Working Paper Report Periodical Other. Science and Engineering Ethics 17 (4):723-737 (2011). Abstract. The national-level scenarios project NanoFutures focuses on the social, political, economic, and ethical implications of nanotechnology, and is initiated by the Center for Nanotechnology in Society at Arizona State University (CNS-ASU). Nanotalk: Conversations with Scientists and Engineers About Ethics, Meaning, and Belief in the Development of Nanotechnology. Rosalyn W. Berne - 2006 - Lawrence Erlbaum. On Identifying Plausibility and Deliberative Public Policy. RenÅ© Schomberg - 2011 - Science and Engineering Ethics 17 (4):739-742. Integrating and Enacting 'Social and Ethical Issues' in Nanotechnology Practices. Ana Viseu & Heather Maguire - 2012 - NanoEthics 6 (3):195-209. Analytics. Computer ethics is a part of practical philosophy concerned with how computing professionals should make decisions regarding professional and social conduct. Margaret Anne Pierce, a professor in the Department of Mathematics and Computers at Georgia Southern University has categorized the ethical decisions related to computer technology and usage into three primary influences: The individual's own personal code. Any informal code of ethical conduct that exists in the work place. Combined with the advances in mechanical and electrical engineering, AI can expand the capacity of industrial robots to adapt to the physical world and changing working environments with no reprogramming. AI-enabled robots will increasingly be central to logistics and manufacturing as they possess the potential to ensure greater safety, speed, precision, and productivity. Online work mediation platforms have emerged in recent years linking job seekers and freelancers with companies inviting them to bid on a variety of tasks (Roshchin et al. in this Special Issue). 2017 | Vol. 11 No 4 | FORESIGHT AND STI GOVERNANCE I 7. OECD (2017) Going digital: The future of work for women. The Pursuit of Gender Equality: An Uphill Battle, Paris: OECD, pp. 269-282.