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Annotated Bibliography of Ethical Issues in Physics: Under-Represented Groups

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Ethical Issues in Physics
Bibliography assembled by
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February 2012
Under-represented Groups

UND

Physics Today – November 2011

Volume 64, Issue 11, p. 49

Problems with *problem sets*

James Trefil and Sarah Swartz

The authors look at textbook problems in physics that seem to rely on prior knowledge, and argue that this may lead to a different experience with the problems for male and female students.

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Physics Today – March 2011

Volume 64, Issue 3, p. 30

For underrepresented minorities, bridge programs ease transition to PhD studies

Jerme N. A. Matthews

The article reports on a partnership between two universities that has resulted in a significant increase in the number of underrepresented minorities pursuing a Ph.D. in physics.

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Physics Today—September 2010

Volume 63, Issue 9, pp. 55–56

The Science on Women and Science

Christina Hoff Sommers; Amy L. R. Bug, Reviewer

Book Review

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Physics Today—June 2010

Volume 63, Issue 6, pp. 26

US minority faculty numbers still low

Toni Feder

Brief discussion of results from the 2008 AIP survey.

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Physics Today—June 2010

Volume 63, Issue 6, pp. 47–48

Undergraduate physics programs at HBCUs: Can we stop the losses?

Quinton L. Williams

An opinion piece discussing the role of historically black universities in providing minority graduate students for physics Ph.D. programs and the importance of promoting diversity in the field of physics.

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APS Forum on Physics and Society Newsletter

Volume 38, Number 3 July 2009

Women in the Sciences

Meg Urry

The author reviews studies that indicate there is a real gender bias in our culture related to issues of relevance to women in science. She suggests several approaches to deal with this bias as a way of increasing the number of women in physics.

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Science and Engineering Ethics

Volume 14, Number 3 / September, 2008, pp. 345-356

Gender Issues in US Science and Technology Policy: Equality of What?

Susan E. Cozzens

The author argues that while some progress has been made on gender equity issues, there are still significant areas where men and women are not being treated equally in science.

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Science and Engineering Ethics

Volume 14, Number 2 / June, 2008, pp. 279-290

On Enrolling More Female Students in Science and Engineering

Mathieu Bouville

The author argues that efforts to recruit more women into engineering and the physical sciences are based on incorrect assumptions. We should not recruit women but rather let them enter if that is where their interest lies.

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Science and Engineering Ethics

Volume 14, Number 1 / March, 2008, pp. 51-63

Is Diversity Good? Six Possible Conceptions of Diversity and Six Possible Answers

Mathieu Bouville

The author points out that a discussion of diversity should begin with a common understanding of what is meant by “diversity,” and reaching that understanding is not as trivial as it might seem. The discussion is then put in the context of gender equity in engineering.

Science and Engineering Ethics

Volume 15, Number 1 / March, 2009, pp. 7-10

Underrepresentation in the Real World

Daryl E. Chubin

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Physics Today -- November 2007

Volume 60, Issue 11, pp. 54-55

A Real-World Plan to Increase Diversity in the Geosciences

Quinton L. Williams, Vernon Morris, and Tanya Furman

Lays out a 20 year plan to address this issue.

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Physics Today -- September 2007

Volume 60, Issue 9, pp. 35-37

Grants to Women Come Up Short in Pilot Study

Toni Feder

Brief report on an APS pilot study of funding in nuclear theory.

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Physics Today -- July 2007

Volume 60, Issue 7, pp. 35-36

Workshop Aims to Double Number of Women in Physics

Toni Feder

A brief report on the launching of this initiative.

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Physics Today -- June 2007

Volume 60, Issue 6, pp. 65-66

Out of the Shadows: Contributions of Twentieth-Century Women to
Physics

Nina Byers, Gary Williams, and Andrea K. Dobson, Reviewer

Book Review

APS Forum on Physics and Society Newsletter

Volume 36, Number 4 October 2007

Out of the Shadows: Contributions of Twentieth-Century Women to
Physics, Edited by Nina Byers and Gary Williams

Reviewed by Marty Epstein

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Physics Today -- April 2007

Volume 60, Issue 4, pp. 64-68

Every Other Thursday: Stories and Strategies from Successful Women
Scientists

Ellen Daniell and Catherine Fenselau, Reviewer

Book Review

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Physics Today -- January 2007

Volume 60, Issue 1, pp. 32-34

Keeping Women in Physics is Aim of Conference for Undergrads

Toni Feder

Brief report on the Second Annual Conference for Undergraduate Women in
Physics.

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Physics Today -- June 2006
Volume 59, Issue 6, pp. 44-47
Diversity in Physics
Shirley M. Malcom

The author points out that diversity in physics is a greater problem than in related fields (such as chemistry) and that the solution must begin with our approach to science education in the K-12 system.

Physics Today -- February 2007
Volume 60, Issue 2, pp. 81-83
Diverse Thoughts on Diversity in Physics
Ken Rideout, Nicholas C. Nicholas, Kristofer Gryte, and Shirley Malcom

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Physics Today -- April 2006
Volume 59, Issue 4, pp. 64-65
A Scientific Point of View
Evalyn Gates

The author argues that women are underrepresented in physics because the playing field, particularly with respect to recognition of potential and accomplishments, is not yet level.

Physics Today -- December 2006
Volume 59, Issue 12, pp. 10-13
Women in Physics: Why and Why Not?
Vincente Aboites, Jerry Smith, Wei Smith, E. O. LaCasce, Robert K. Adair, Joseph Spicatum, Kamyar Hazaveh, and Evalyn Gates

Physics Today -- September 2007
Volume 60, Issue 9, pp. 12-14
Weighing the Need to Accommodate Women in Physics
Eaton E. Lattman, Kelly Chipps, and Tevian Dray

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Physics Today -- September 2005

Volume 58, Issue 9, pp. 54-55

Einstein and Racism in America

Fred Jerome

The author argues that the racism Einstein talked of when he came to America has not completely vanished, and there are steps the physics community should be taking to address the issue.

Physics Today -- May 2006

Volume 59, Issue 5, pp. 12-13

Racial Tracking, Fixing Details, Speaking Out

G. Stanley Brown, M. David Egan, Richard Camilli, and Fred Jerome

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Physics Today -- September 2005

Volume 58, Issue 9, pp. 49-53

Obliterating Myths About Minority Institutions

Philip J. Sakimoto and Jeffrey D. Rosendhal

Success in bringing more minorities into the field was achieved in this NASA-funded program by incorporating minority students and their mentors into the mainstream of research projects.

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Physics Today -- August 2005

Volume 58, Issue 8, pp. 29-30

Women Unite to Improve Physics Culture

Toni Feder

Brief report on the Second International Conference on Women in Physics.

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Physics Today -- May 2005

Volume 58, Issue 5, pp. 32-33

Why Women Leave Academic Physics

Toni Feder

Brief report on a survey of female physicists, though the sampling was not random.

Physics Today -- August 2006

Volume 59, Issue 8, p. 11

Women Gain Ground in Academia; Science Mentors Needed

Peter Cheung and Gary Stiles

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Physics Today -- April 2005

Volume 58, Issue 4, p. 28

No Leaky Pipeline for Women in Physics, but Discrimination Persists

Toni Feder

Very brief report on a survey by the AIP.

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Physics Today -- September 2003

Volume 56, Issue 9, pp. 46-51

What Works for Women in Undergraduate Physics?

Barbara L. Whitten, Suzanne R. Foster, and Margaret L. Duncombe

The drop off in female representation in physics as one moves up the ranks from high school physics students to university faculty has been described as a leaky pipeline. This article focuses on the largest leak located in the early college years.

Physics Today -- March 2004

Volume 57, Issue 3, pp. 11-14

Gender Disparity in Physics: A Multifaceted Challenge

Chris Paulse, John McNabb, Rebecca Barthelmie, and Barbara L. Whitten

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Physics Today -- March 2003

Volume 56, Issue 3, pp. 42-48

Rosalind Franklin and the Double Helix

Lynne Osman Elkin

This article includes a discussion of Franklin's role in the discovery of the structure of DNA and argues that her work was not appropriately acknowledged by Watson and Crick.

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Physics Today -- May 2002

Volume 55, Issue 5, pp. 24-26

Women, and Some Men, Ask Why Women Don't Flock to Physics

Toni Feder

A report on the International Conference on Women in Physics including some statistical information.

Physics Today -- September 2002

Volume 55, Issue 9, p. 82

Sexism Still an Obstacle for Women Scientists

Dian Seidel, Kay Weston, and Haleh Kootval

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APS Forum on Physics and Society Newsletter

Volume 29, Number 4 October 2000

How Changes Happens: Thoughts on the Report of the Commission on the Advancement of Women and Minorities in Science, Engineering and Technology Development

Priscilla Auchinclos

The author argues that change will require an honest discussion of the root causes of inequities in America.

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Physics Today -- July 2000

Volume 53, Issue 7, pp. 59-60

Their Day in the Sun: Women of the Manhattan Project

Ruth H. Howes, Caroline L. Herzenberg, and Benjamin C. Zulueta,

Reviewer

Book Review

Physics Today -- December 2000

Volume 53, Issue 12, p. 12

Women Authors, Scientists Critiqued

Frieda A. Stahl and Benjamin C. Zulueta

APS Forum on Physics and Society Newsletter

Volume 29, Number 4 Oct 2000

Their Day in the Sun: Women of the Manhattan Project: Ruth H. Howes
and Caroline L. Herzenberg, reviewed by Joan Mason

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