

Kristin Shrader-Frechette, Biographical Sketch

Kristin Shrader-Frechette has held senior professorships at the University of California and the University of Florida. Currently she is O'Neill Family Professor, Department of Biological Sciences and Department of Philosophy, at the University of Notre Dame, where she also directs the Center for Environmental Justice and Children's Health. She studied physics at Xavier University and then graduated summa cum laude, in 1967, with an undergraduate major in mathematics from Edgecliff College, Xavier University. In 1972, she received her Ph.D. in philosophy from the University of Notre Dame. Shrader-Frechette also did postdoctoral work for 2, 1, and 2 years, respectively, in biology (community ecology), economics, and hydrogeology. She has held Woodrow Wilson Foundation, National Science Foundation, and Carnegie Foundation Fellowships in philosophy of science and has held offices/served on committees in the US National Academy of Sciences, the Risk Assessment and Policy Association, the American Philosophical Association, the Philosophy of Science Association, the Society for Philosophy and Technology, and the International Society for Environmental Ethics. Shrader-Frechette has been a member of many boards and committees of the International Commission on Radiological Protection, US Environmental Protection Agency, National Council on Radiation Protection and Measurement, and the National Research Council/National Academy of Sciences, including its Board on Environmental Studies and Toxicology, its Committee on Risk Characterization, and its Committee on Zinc-Cadmium-Sulfide Dispersions.

In 2004 Shrader-Frechette became only the third American to win the World Technology Award in Ethics. Earlier a Harvard professor won for work in biomedical ethics, and a Princeton professor won for work in development ethics. She won for her work in public-health and environmental ethics. In 2007, Catholic Digest named her one of 12 "Heroes for the US and the World" because of her pro-bono environmental justice work with minority and poor communities. Associate Editor of BioScience until 2002, Shrader-Frechette is Editor-in-Chief of the Oxford University Press monograph series on Environmental Ethics and Science Policy and a member of the US EPA Science Advisory Board. She also serves on the editorial boards of 18 professional journals. Past-President of the Society for Philosophy and Technology, the Risk Assessment and Policy Association, and the International Society for Environmental Ethics, Shrader-Frechette was the first woman president of all three international organizations (SPT, RAPA, ISEE). She has served as Principal Investigator (PI) for grants from the National Science Foundation, the National Endowment for the Humanities, the Council on Philosophical Studies, and the US Department of Energy. NSF has funded her research for 25 years. Recently she finished research as PI on a \$224,000 NSF grant on ethical/policy issues associated with worker exposure to ionizing radiation. Currently she is a member of the project team for a \$ 3-million NSF grant, "Global Linkages of Biology, Environment, Society," and she is now PI on another NSF grant, one examining methodological problems in epidemiological statistics.

Most of Shrader-Frechette's research analyzes mathematical, biological, or ethical problems in risk assessment, public health, or environmental justice – especially those related to radiological, ecological, and energy-related risks. An enthusiastic teacher as well as a researcher, she also has won the annual university-wide award for "Outstanding Teacher." Shrader-Frechette has published more than 350 articles and 15 books/monographs: Nuclear Power and Public Policy (1980, 1983); Environmental Ethics (1981, 1991); Four Methodological Assumptions in Cost-Benefit Analysis (1983); Science Policy, Ethics, and Economic Methodology (1984); Risk Analysis and Scientific Method (1985); Nuclear Energy and Ethics (1991); Risk and Rationality (1991); Policy for Land: Law and Ethics (1992); Burying Uncertainty: Risk and the Case Against Geological Disposal of Nuclear Waste (1993); Method in Ecology (1993); The Ethics of Scientific Research (1994), Technology and Human Values (1996), Environmental Justice: Creating Equality, Reclaiming Democracy (2002), and Taking Action, Saving Lives: Our Duties to Protect Environmental and Public Health (2007). Her theoretical essays have appeared in philosophical journals such as Ethics, Journal of Philosophy, Philosophy of Science, and Synthese, as well as in science journals such as Science, BioScience, Health Physics, Conservation Biology, Quarterly Review of Biology, OIKOS, and Trends in Ecology and Evolution. She has also published in more applied journals such as Environmental Professional, Environment and Values, Energy Policy Studies, IEEE Spectrum, IEEE Technology and Society, Environmental Ethics, and Journal of Business Ethics. Her books and articles have been translated into 13 languages – Chinese, Czech, Dutch, French, German, Hungarian, Italian, Japanese, Korean, Norwegian, Russian, and Spanish. Shrader-Frechette is currently working on two new volumes: Nuclear Power and Climate Change and Risks of Risk Assessment.

Widely requested as a lecturer by university, government, and industrial groups in the Americas, Europe, China, India, Africa, and Russia, Shrader-Frechette has been invited to address the National Academies of Science in three different countries. She has served as an advisor to numerous governments and international organizations, including the United Nations and the World Health Organization. She and her husband Maurice, a mathematician/computer scientist, have two children, Danielle and Eric, both recent honors graduates of Princeton. Danielle is a financial analyst for Disney, and in 2007 Eric completed an M.D./Ph.D. at the University of California. The family spends free time canoeing, scuba diving, hiking and doing volunteer work.

June 1, 2009

KRISTIN SHRADER-FRECHETTE
Curriculum Vitae

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Department of Biological Sciences
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University of Notre Dame
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Home Address:
838 Park Avenue
South Bend, IN 46616

Personal:
Husband: Maurice Shrader-Frechette, Ph.D.
Children: Eric and Danielle (math)
Hobbies: scuba diving, hiking, piano, violin
Website: www.nd.edu/~kshrader

Office phone: 574-631-2647
Office fax: 574-631-8209

HIGHER EDUCATION

Institution:	Degree:	Year:	Field:
Xavier University		1966	physics
Edgecliff College, Xavier U.	B.A. (<u>summa cum laude</u>)	1967	mathematics
University of Notre Dame	Ph.D.	1972	philosophy, philosophy of science

EMPLOYMENT HISTORY

Institution:	Department:	Years:	Ending Rank:
Edgecliff College	Philosophy	1971-73	Assistant Professor
U. of Louisville	Philosophy, Natural Sciences	1973-82	Professor
U. of California, Santa Barbara	Philos. of Science, Environ. Studies	1982-84	Professor
U. of Florida	Philosophy, Natural Sciences	1984-87	Professor
U. of South Florida	Philosophy, Environ. Sciences	1987-98	Distinguished Research Prof.
U. of Notre Dame	Philosophy, Biological Sciences	1998-	O'Neill Family Professor

HONORS, AWARDS

Woodrow Wilson National Fellowship	1967-1968
National Science Foundation Fellowship	1968-1971
Carnegie Foundation Fellowship in Philosophy of Science	1971
NDEA Fellowship in Philosophy of Mathematics (declined)	1967-1971
NDEA Fellowship in Philosophy of Science (declined)	1967-1971
Davidson Award, Outstanding Faculty Member, University of Louisville	1977
Kentucky's "Outstanding Young Woman" for 1977	1977
Visiting Philosopher, Council on Philosophical Studies	1980
NEH/NSF "Interdisciplinary Incentive Award"	1982
NSF "Scholar's Award in Philosophy of Science"	1982
US National Academy of Sciences/National Research Council Delegate, Int. Union of Hist. & Phil. of Science	1987
Visiting Philosopher, Council on Philosophical Studies	1987
Chair, Int. Geosphere/Biosphere Prog, Int. Union of Hist. & Phi. of Sci., Int. Conf. of Scien. Unions (ICSU)	1988-1991
1988 Mead-Swing Lecturer, Oberlin College	1989
1990 GTE Distinguished Lecturer, Michigan Technological University	1990
Chair, Science and Ethics Committee, International Conference of Scientific Unions (ICSU)	1990-1996
1991 Astra Lecturer, McGill University	1991
1991 GTE Distinguished Lecturer, Penn State University; Iowa State University	1991
1992 GTE Distinguished Lecturer, University of Virginia	1992
1993 Spencer Leavitt Lecturer, Union College	1993
1993 John XXIII Lecturer, University of the Pacific	1993
US National Research Council/National Academy of Sciences, Board on Environ. Studies & Toxicology	1993-1996
US Natnl. Res. Council/Natnl. Acad. Sciences, Oversight Com., Envir. Monitor. & Assmt Prog. (EMAP)	1993-1996
Blue Ribbon Panel, US DOE Performance Evaluation of US Nuclear Facilities	1994-1996
US National Research Council/National Academy of Sciences, Committee on Risk Characterization	1994-1996
US National Research Council/National Academy of Sciences, Eval. Comm., Zinc-Cadmium-Sulfide	1995-1996
Blue Ribbon Panel, US DOE Performance Evaluation of Sites for Mixed Nuclear Waste	1994-1997
President, Risk Assessment and Policy Association (RAPA)	1997-1999
US National Research Council/National Academy of Sciences, Committee on Ecosystems Services	2002-2003
President, International Society for Environmental Ethics (ISEE)	2000-2003
World Technology Award in Ethics	2004
<u>Catholic Digest</u> Award, one of 12 "Heroes for the US and the World"	2007
US EPA Science Advisory Board	2003-2009
Kempelman Lecturer, Hebrew University, Jerusalem	2009
Golden Lecturer, Yale University	2009

GRADUATE COURSES TAUGHT

Philosophy of Science
Methods of Philosophy
Analytic Philosophy
Science and Values

Ethics and Economic Methods
Philosophy of the Social Sciences
Philosophy of the Natural Sciences

Environmental Justice
Environmental Risk Assessment
Duties to Future Generations

Ethics
Risk and Consent
Environmental Ethics

UNDERGRADUATE COURSES TAUGHT

Mathematical Logic
Philosophy of Science
Introduction to Logic
Critical Thinking
Cost-Benefit Analysis

Philosophy of Economics
Philosophy of Ecology
Ethics of Scientific Research
Science, Technology, and Values

Biomedical Ethics & Public Health
Public Health Risk Assessment
Contemporary Ethical Issues
Environmental Ethics

Science and Values
Social Philosophy
Epistemology
Policy Analysis
Ethics and Risk

EDITORIAL WORK

Editor-in-Chief,

Oxford University Press series, "Environmental Ethics and Science Policy," 1988-present

Editorial Board,

Accountability in Research, 2004-present
Biological Theory, 2004-present
BioScience, Associate Editor, 1994-2002
Business Ethics Quarterly, 2002-present
Eco Spheres, Norwegian Folkets Brevskole, 1993-present
Encyclopedia of the Philosophy of Science, 1996-present
Environmental Ethics, 1981-present
Environmental Values, 1995-present
Ethics and the Environment, 1995-present
Europäische Akademie, 1999-present
Humanities and Technology, 1980-present
Journal of Agricultural and Environmental Ethics, 1986-present
Journal of Law and Public Policy, 1987-present
Organization and Environment, 1995-present
Philosophy and Technology, 1986-present
Poiesis and Praxis, 1999-present
Public Affairs Quarterly, 1987-present
Research in Philosophy and Technology, 1982-1986
Risk: Issues in Health and Safety, 1991-present
Studies in Religion and the Social Order, 1991-present
Synthese: An Internat. Journal in Logic, Epistemology, and Philosophy of Science, 1993-present

Advisory Board,

American Philosophical Association Newsletter on Feminism and Philosophy, 1992-present
Earth Ethics Research Group, 1990-present
Institute for Hydrology and Water Quality, 1995-present
"Integration, Environmental Assessment, and Environmental Indicators," EPA, 1992-present
International Society for Environmental Ethics, 1995-present
Ontario Society for Environmental Ethics, 1994-present
Planet Central TV Cable Network (environmental issues), 1993-present
Technology, Risk, and Society: An International Series in Risk Analysis, 1983-present
"Vision for 2100," PBS TV series on the environment, 1993-present

Article Referee,

Biology and Philosophy, 1993-present
Behavioral Science, 1975-present
Bulletin of the Ecological Society of America, 1995-present
Conservation Biology, 1993-present
Economics and Philosophy, 1992-present
Energy Policy Studies, 1984-present
Environment International, 1985-present
Environmental Health Perspectives, 2005-present
Environmental Management, 1985-present
Environmental Professional, 1995-present
Environmental Science and Technology, 1996-present
Ethics, 1987-present
Hypatia, 1988-present
Journal of Business Ethics, 1983-present
Newsletter on Philosophy and Technology, 1995-present
Philosophy and Economics, 1992-present
Philosophy of Science, 1977-present
Risk Analysis, 1985-present
Science, 1982-present
Science, Technology, and Human Values, 1980-present

EDITORIAL WORK (continued)

Article Referee (contd.)	<u>Society and Natural Resources</u> , 1989-present
"	<u>Synthese</u> , 1984-present
Book Referee,	Ave Maria Press, 2005-present
"	Cambridge University Press, 1991-present
"	Kluwer Academic Publishers, 1988-present
"	Macmillan Publishers, 1984-present
"	MIT Press, 1981-present
"	Oxford University Press, 1987-present
"	Prentice-Hall, 1984-present
"	Reidel Press, 1981-present
"	Rowman and Littlefield, 1991-present
"	Temple University Press, 1992-present
"	University of Arizona Press, 1991-present
"	University of California Press, 1984-present
"	University of Georgia Press, 1994-present
"	University Press of Kansas, 1992-present
"	Yale University Press, 1994-present
Panelist, Referee,	EPA, Atmospheric Research and Exposure Assessment, 1992-present
"	National Endowment for the Humanities, 1979-present
"	National Science Foundation, 1980-present
Program Committee,	1981 American Philosophical Association meeting
"	1986, 1998, 1996 Philosophy of Science Association meeting
"	1995 Chair, Science Ethics Committee, 10th Congress of Logic, Methodology, Philosophy of Science
"	1997 Chair, Program Committee, Risk Assessment and Policy Association Meeting
"	1998 Chair, World Congress of Philosophy, Section on Philosophy and Technology
"	2006 Program Committee, Philosophy of Science Association

MEMBERSHIPS

American Philosophical Association; Advisory Committee on Ethics, 1989-1992
 Association Internationale de Cybernétique; American Board, 1976-1978
 Daughters of the American Revolution
 Humanities and Technology Association; Board, 1980-1990
 International Society for Environmental Ethics; Nominating Committee 1992-present, President, 2000-2003
 Phi Beta Kappa
 Philosophy of Science Association; Nominating Committee, 1981-1982; Program Committee, 1986, 1998
 Society for Philosophy and Technology; Vice-President/President-Elect, 1983-1985; President, 1985-1987
 Risk Assessment and Policy Association, 1994-present; President, 1995-1998
 US National Academy of Sciences/National Research Council, Board on Environmental Studies and Toxicology, 1993-1996
 US National Academy of Sciences/Nat. Res. Cncil, Comm. on EPA's Environmental Monitoring/Assessment Program, 1993-95
 US National Academy of Sciences/National Research Council, Committee on Risk Characterization, 1994-1996
 US National Academy of Sciences/National Research Council, Committee to Evaluate Zinc-Cadmium-Sulfide, 1995-1997

SELECTED GRANTS

2005-2010	Project Team, <u>National Science Foundation (NSF)</u> , "Global Linkages of Biology, Environment, Society," \$3 million
2007-2009	Principal Investigator (PI), <u>NSF</u> , SES-0724781, "Three Methodological Rules in Risk Assessment"
2000-2003	PI, <u>NSF</u> , SES-98-10611, "Nuclear Technology, Ethics, and Worker Radiation Risk," \$224,000
1996-1999	PI, <u>NSF</u> , SBR-9512133, "Values and Ecological Risk Assessment"
1992-1995	PI, <u>NSF</u> , SBE-91-12661, "Environmental Ethics, Uncertainty, and Preservation Policy"
1992-1993	PI, <u>NSF</u> , DIR-91-12445, "Laws & Explanation in Community Ecology"
1992	PI, <u>US Department of Energy and Nevada NWPO</u> , Grant DE-FG08-85-NV10461, "Risk Assessment, Expert Judgment, and Impacts of a Yucca Mountain Repository"
1991-1992	PI, <u>US Dept. of Energy/Nevada NWPO</u> , 685873, 9.3.7, 4-C, "Expert Judgment in Assessing Radwaste Risks"
1988-1991	PI, <u>NSF</u> , BBS-86-159533, Normative Concepts in Ecology, Consequences for Policy
1987	Recipient, <u>NSF/National Research Council</u> , Travel Grant, "8th International Congress on Logic, Methodology, and Philosophy of Science," Moscow, USSR
1984-1987	PI, <u>NSF</u> , Grant ISP-82-09517, "Ethical Issues in Siting Radioactive Waste Facilities"
1982-1983	PI, <u>NSF</u> , SES-82-05112, "4 Methodological Assumptions in Risk-Cost-Benefit Analysis"
1981	Recipient, <u>NSF</u> Travel Grant, "German-American Colloquium, Philosophy & Technology"
1980-1981	PI, <u>University of Louisville</u> , Research Grant, "Public Policy and Radioactive Waste"
1979	PI, <u>University of Louisville</u> , Research Grant, "Nuclear Policy"
1977-1978	PI, <u>University of Louisville</u> , Research Grant, "Conceptual Difficulties in High- Energy Physics"
1976-1977	Project Team Member, <u>Environmental Protection Agency</u> , Grant R-804848-01, "Ohio River Basin Energy Study"
1974-1975	PI, <u>Kentucky Humanities Council</u> , "Should Nuclear Power Plants Be Built in Environs of Louisville?"

REFEREED PUBLICATIONS

(1A) BOOKS BEING DRAFTED

- (i) Nuclear Power and Climate Change
- (ii) Radiation Protection and Ethics (1 draft done)
- (iii) Risks of Risk Assessment

(1B) BOOKS, PUBLISHED

- (1) Taking Action, Saving Lives: Our Duties to Protect Environmental and Public Health (New York: Oxford University Press, 2007); available at Oxford Scholarship Online at www.oup.com/uk/oso
- (2) Environmental Justice: Creating Equality, Reclaiming Democracy (New York: Oxford University Press, 2002), 269 pp.; available at Oxford Scholarship Online at www.oup.com/uk/oso; Italian translation forthcoming.
- (3) Technology and Human Values, coedited with Laura Westra (Savage, MD: Rowman and Littlefield, 1997), 472 pp.
- (4) The Ethics of Scientific Research (Savage, MD: Rowman and Littlefield, 1994), 243 pp.
- (5) Method in Ecology: Strategies for Conservation Problems, coauthored with biologist Earl D. McCoy (Cambridge: Cambridge University Press, 1993), 328 pp.⁴
- (6) Burying Uncertainty: Risk and the Case Against Geological Disposal of Nuclear Waste (Berkeley: University of California Press, 1993), 346 pp.⁶ Available at www.netlibrary.com.
- (7) Policy for Land: Law and Ethics, coauthored with political scientist Lynton K. Caldwell (Savage, MD: Rowman and Littlefield, 1993), 333 pp.
- (8) Expert Judgment in Assessing Radwaste Risks (Carson City, Nevada: Nuclear Waste Project Office/US Department of Energy, 1992), 225 pp.⁶
- (9) Risk and Rationality (Berkeley: University of California Press, 1991), 312 pp. Available at www.netlibrary.com. Italian edition, Valutare il rischio: Strategie e metodi di un approccio razionale, translated by C. Poli and F. Bizzotto (Milano: Guerini & Associati, 1993), pp. 297. Japanese edition, Risuku to Goorise, translated by Tsuyoshi Matsuda (Kyoto: Showado, 2007).
- (10) Nuclear Energy and Ethics, edited volume (Geneva: World Council of Churches, 1991), 233 pp.
- (11) Risk Analysis and Scientific Method: Methodological and Ethical Problems with Evaluating Societal Hazards (Boston: Kluwer, 1985), 232 pp.²
- (12) Science Policy, Ethics, and Economic Methodology: Some Problems with Technology Assessment and Environmental-Impact Analysis (Boston: Kluwer, 1984), 321 pp. (Italian translation is forthcoming).
- (13) Four Methodological Assumptions in Risk-Cost-Benefit Analysis (Springfield, Virginia: National Technical Information Service, 1983), 242 pp.²
- (14) Environmental Ethics (Pacific Grove, California: Boxwood Press, 1981); second edition 1991, 358 pp.; Japanese translation: Koyo Shobo (Tokyo: the English Agency, 1992). Korean translation, by Il Bang Kim, to be published by Myung Jin Dang.
- (15) Nuclear Power and Public Policy: Social and Ethical Problems with Fission Technology (Boston: Kluwer, 1980); second edition, (1983). Spanish Translation: Política y energía nuclear: Problemas éticos y sociales de la tecnología de fisión, trans. J.L. Rey-Barreau (Madrid: Alianza Editorial, 1983), 176 pp.

1 This list excludes several essays on teaching philosophy and a number of book reviews and review articles.

2 This work was done, in part, thanks to National Science Foundation Grant SES82-05112.

3 This work was done, in part, thanks to National Science Foundation Grant ISP-82-09517.

4 This work was done under National Science Foundation Grant Number BBS-8619533.

5 This work was done under US Department of Energy Grant Number DE-FG08-85-NV10461.

6 This work was done under US Department of Energy Grant Number 685873, 9.3.7, 4C.

7 This work was done, in part, thanks to National Science Foundation Grant SES-98-10611.

REFEREED PUBLICATIONS, continued
 (2) REFEREED ARTICLES PUBLISHED¹

2009, incomplete

- (16) "Data Trimming, Nuclear Emissions, and Climate Change," Science and Engineering Ethics 15 (2009):19-23.
- (17) "Environmental Injustice in Nuclear-Plant Siting," coauthored with Mary Alldred, Environmental Justice 2, no. 2, doi:10.1089/env.2008.0544 (April 2009): in press.²
- (18) "Conceptual Analysis and Special-Interest Science: Toxicology and the Case of Edward Calabrese," Synthese, in press.
- (19) "Greenhouse Emissions and Nuclear Energy," Modern Energy Review, in press.
- (20) "Resource Ownership and Property Rights," in Relationship with the Land, ed. Mark Anderson-Wilk (Ankeny, Iowa: Soil and Water Conservation Society, 2009), pp. 33-41.
- (21) "Climate Change, Nuclear Power, and Ionizing-Radiation Standards," in Matt Slater and Michael O'Rourke, eds., Environmental Philosophy, MIT Press, in press.
- (22) "Liberation Science and the Option for the Poor," in The Preferential Option for the Poor, ed. D. Groody and G. Gutierrez (Notre Dame: University of Notre Dame Press, 2009), in press.
- (23) "Exchanging One Catastrophe for Another: Climate Change, Nuclear Power, and the Chernobyl Argument," in The Ethics of Catastrophe, ed. by Melissa Williams, in press.

2008, incomplete

- (24) "Statistical Significance in Biology: Neither Necessary Nor Sufficient for Hypothesis-Acceptance," Biological Theory 3, no. 1 (2008):12-16.²
- (25) "Ideological Toxicology: Invalid Logic, Science, and Ethics about Low-Dose Exposures," Biological Effects of Low-Level Exposures 14, no. 4 (January 2008): 3-47; also in Human and Experimental Toxicology 27 (2008): 647-57.
- (26) "Evidentiary Standards and Animal Data," Environmental Justice, 1, no. 3 (2008): 139-144.²
- (27) "Making A Sound Case against Scientific Misrepresentation of Pollution Harms," Children Youth, and Environments 18, no. 2 (2008); available at http://thunder1.cudenver.edu/cye_journal/item.pl?n=39.
- (28) "Why Study Environmental Ethics?" in David Keller (ed.), Environmental Ethics (London: Blackwell, 2008), in press.
- (29) "Ethics and Radiation Risk to Astronauts," in G. Hargrove and R. Frodeman (eds.), Space Science, Environmental Ethics, and Policy, in press.
- (30) "Manipulating Science, Harming Children," in Gerald Mckenny (ed.), Commerce, Politics, and Science (Notre Dame: University of Notre Dame Press, 2008), in press.
- (31) "A Defense of Risk-Cost-Benefit Analysis," in A.J. Vaidya and Fritz Allhoff (ed.), Business in Ethical Focus (Peterborough, Ontario: Broadview Press, 2008), pp. 214-224.
- (32) "Colored Town and Liberation Science," in Holy Ground: A Gathering of Voices on Caring for Creation, ed. Diana Landau and Lyndsay Moseley (San Francisco: Sierra, 2008), pp. 218-229.
- (33) "Five Myths about Nuclear Energy," America 198, no. 20 (June 23, 2008):

¹ This list excludes several essays on teaching philosophy and a number of book reviews and review articles.

² This work was done, in part, thanks to National Science Foundation Grant SES 0724781, "Three Methodological Rules in Risk Assessment."

(2) REFEREED ARTICLES PUBLISHED¹

2008, incomplete (continued)

- (34) Review of Michael Northcott, A Moral Climate: The Ethics of Global Warming, America 198, no. 10 (March 24, 2008): 24-25.
- (35) Review of Jonathan Wolff and Avner De-Shalit, Disadvantage, Notre Dame Philosophical Reviews (February 9, 2008); available at <http://ndpr.nd.edu/review.cfm?id=12305>

2007

- (36) "Relative Risk and Methodological Rules for Causal Inferences," Biological Theory 2, no. 4 (2007): 332-336.²
- (37) "Flawed Ethics Recommendations by EPA's Human Studies Review Board," Environmental Health Perspectives 115, no. 1 (January 2007): A2.
- (38) "Trimming Exposure Data, Putting Radiation Workers at Risk: Improving Disclosure and Consent through a National Radiation Dose Registry," American Journal of Public Health 97, no. 9 (2007), 1782-1786.³
- (39) "EPA's 2006 Human-Subjects Rule for Pesticide Experiments," Accountability in Research 14, no. 4 (2007): 211-254.
- (40) "Human Rights and Duties to Alleviate Environmental Injustice: the Domestic Case," Journal of Human Rights 6 (2007): 1-24.
- (41) "Preface" (to the Japanese edition of Kristin Shrader-Frechette's Risk and Rationality), Risuku to Goorise, translated by Tsuyoshi Matsuda (Kyoto: Showado, 2007), pp. iii-ix.
- (42) "Nanotoxicology and Default Rules Under Uncertainty," Nanoethics 1 (2007): 47-56.
- (43) Review of Pellow's and Brulle's Power, Justice, and the Environment, Ecological Economics 63, no. 1 (15 June 2007): 243-244.

2006

- (44) "Gene Patents and Lockean Constraints," Public Affairs Quarterly 20, no. 2 (April 2006): 135-161.
- (45) "Comparativist Philosophy of Science and Population Viability Assessment in Biology," Philosophy of Science 73, no. 5 (December 2006): 817-828.
- (46) "Ecologists' Duties and Environmental Justice," Ecological Society of America Bulletin 88, no. 2 (October 2006): 192-193.
- (47) "Natural Rights and Human Vulnerability," in John Inglis (ed.), Aquinas (volume in International Library of Essays in the History of Social and Political Thought) (Aldershot, UK: Ashgate, 2006), pp. 261-286.
- (48) "Urhajo-etika," in Etika, ed. A. Votisky (Budapest, Hungary: L'Harmattan Publishers, 2006).
- (49) "Metascience, Technique, and Radiobiology," in Nature, Truth, and Value, ed. George and Merle Allshouse (Lanham, MD: Lexington Books, 2006), 271-286.³
- (50) "Comparative Risk Assessment and the Naturalistic Fallacy," in Alex Wellington and Ron Pushchak (eds.), Environmental Law in Social Context (Concord, Ontario: Captus Press, 2006).

1 This list excludes several essays on teaching philosophy and a number of book reviews and review articles.

2 This work was done, in part, thanks to National Science Foundation Grant SES 0724781, "Three Methodological Rules in Risk Assessment."

3 This work was done, in part, thanks to National Science Foundation Grant SES-98-10611.

(2) REFEREED ARTICLES PUBLISHED

2006, continued

- (51) "Environmental Impact Assessment and the Fallacy of Unfinished Business," in Alex Wellington and Ron Pushchak (eds.), Environmental Law in Social Context (Concord, Ontario: Captus Press, 2006).
- (52) "Review of Sunstein, Laws of Fear," Ethics and International Affairs 20, no. 1 (2006): 123-125.

2005

- (53) "Property Rights and Genetic Engineering," Science and Engineering Ethics 11, no. 1 (2005): 137-149.
- (54) "Conservation Biology," Philosophy of Science, ed. Sahotra Sarkar and Jessica Parker (London: Routledge, 2005).
- (55) "Flawed Attacks on Contemporary Human Rights," Human Rights Review, 7, no. 1 (2005), 92-110.
- (56) "Radiobiology and Gray Science: Flawed New Radiation Protections," Science and Engineering Ethics 11, no. 2 (2005): 167-169.
- (57) "Environmental Ethics," Philosophy of Science, ed. Sahotra Sarkar and Jessica Parker (London: Routledge, 2005).
- (58) "Objectivity and Professional Duties," Science, Technology, and Society, ed. Wenceslao Gonzalez (A Coruña, Spain: University of A Coruña, 2005), pp. 51-82.
- (59) "Mortgaging the Future: Dumping Ethics with Nuclear Waste," Science and Engineering Ethics 11, no. 4 (October 2005): 518-520.
- (60) "How to Reform Science and Technology," Science, Technology, and Society, (A Coruña, Spain: University of A Coruña, 2005), ed. Wenceslao Gonzalez, pp. 107-134.
- (61) "Ethical Issues in Technology," in P. H. Werhane and R. E. Freeman, eds. Business Ethics: The Blackwell Encyclopedia of Management: Business Ethics (Oxford: Blackwell, 2005), pp. 511-513.

2004

- (62) "Using Metascience to Improve Dose-Response Curves in Biology," Philosophy of Science, 71, no. 5 (December 2004): 1026-1037.
- (63) "Measurement Problems and Florida Panther Models," Southeastern Naturalist, 3, no. 1 (2004): 37-50.
- (64) "Comparativist Rationality and Epidemiological Epistemology," Topoi 2 (September-October 2004): 153-163.
- (65) "Models in Panther Biology and Radiobiology: Philosophy of Science as Scientific Citizenship," Philosophy Today 48, no. 5 (2004): 96-108.
- (66) "Ethics and Choosing Appropriate Means to an End," coauthored with mathematician Roger Cooke, Risk Analysis 24, no.1 (2004): 145-154.

1 This list excludes several essays on teaching philosophy and a number of book reviews and review articles.

2 This work was done, in part, thanks to National Science Foundation Grant SES82-05112.

3 This work was done, in part, thanks to National Science Foundation Grant ISP-82-09517.

4 This work was done under National Science Foundation Grant Number BBS-8619533.

5 This work was done under US Department of Energy Grant Number DE-FG08-85-NV10461.

6 This work was done under US Department of Energy Grant Number 685873, 9.3.7, 4C.

7 This work was done, in part, thanks to National Science Foundation Grant SES-98-10611.

(2) REFEREED ARTICLES PUBLISHED

2004, continued

- (67) "Deep-History Perspective on Biological Invasions," coauthored with biologist David Lodge, Conservation Biology, 18, no.1 (February 2004): 1-2.
- (68) "John Rawls and Behavior under Uncertainty," in Carlos Julio Pajaro, Philosophy in the Twentieth Century: Homage to John Rawls (Barranquilla, Columbia: Ediciones Uninorte, 2004), in press.
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1 This list excludes several essays on teaching philosophy and a number of book reviews and review articles.

2 This work was done, in part, thanks to National Science Foundation Grant SES82-05112.

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5 This work was done under US Department of Energy Grant Number DE-FG08-85-NV10461.

6 This work was done under US Department of Energy Grant Number 685873, 9.3.7, 4C.

7 This work was done, in part, thanks to National Science Foundation Grant SES-98-10611.

2) REFEREED ARTICLES PUBLISHED

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- (360) "Review of George Gale, Theory of Science," Teaching Philosophy 5 (1982): 83 ff.
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7 This work was done, in part, thanks to National Science Foundation Grant SES-98-10611.

(2) REFEREED ARTICLES PUBLISHED

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- (383) "The Ethics Crisis," The Courier-Journal and the Louisville Times, Outlook section, November 28, 1982.

BOOK REVIEWS

Professor Shrader-Frechette has written a great many book reviews in philosophical journals, such as Synthese and Ethics, as well as in other scholarly periodicals. Her reviews in the latter category have appeared in Agriculture and Human Values, Ecology Law Quarterly, Environmental Ethics, Environmental Management, Environmental Review, Environment International, Journal of the American Chemical Society, Landscape Architecture, The Public Historian, Quarterly Review of Biology, Risk Analysis, Social Indicators Research, Technology and Culture, and related journals. Her reviews also have appeared in popular journals such as America, Bulletin of the Atomic Scientists, Environment, and Sierra.

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REFEREED AND INVITED PAPERS

Professor Shrader-Frechette has presented numerous papers throughout the United States, Canada, Europe, Africa and Asia. Some of these were refereed and given at professional meetings (e.g., of the American Association for the Advancement of Science, the American Philosophical Association, the Ecological Society of America, and the Philosophy of Science Association). Others were invited presentations for special colloquia (e.g., the Boston Colloquium for the Philosophy of Science, the Pittsburgh Colloquium for the Philosophy of Science, and the Pugwash Conference), or invited presentations for professional meetings (e.g., the 1982-1983 APA meeting in Berkeley, and the 1983-1984 APA meeting in Boston). Some of the institutions from which she has received speaking invitations include: Academy for Technology Assessment (Braden-Württemberg, Germany); University of A Coruña (Spain); U of Alabama; U of Alaska; U of Alberta; American Association for the Advancement of Science; U of Arizona; College of the Atlantic; Baker U; Ball State U; Baylor U; Battelle National Labs; U of Bergen (Norway); Boston U; Brown U; U of British Columbia; Bryn Mawr; U of California, Berkeley; U of California, San Diego; U of California, Santa Barbara; Carleton U (Canada), Case Western Reserve U; U of Chicago; U of Cincinnati; Clark U; Clemson U; U of Colorado, Boulder; Cornell U; U of Maria-Curie-Sklodowska (Poland); Dalhousie U (Nova Scotia); Dartmouth College; U of Delaware; Delft U of Technology; Denison U; Econometrica, Milan, Italy; Emory U; Environmental Research Labs, EPA; Evergreen College; U of Florida; Florida State U; Franklin Pierce Law Center; George Mason U; Georgetown U; U of Georgia; Georgia Institute of Technology; Georgia State U; Georgetown U; U of Gothenburg (Sweden); U of Groningen (Netherlands); U of Guelph (Ontario); Harvard U; Hastings Center; U of Hawaii; Hebrew U (Israel); U of Houston; U of Idaho; Indiana U; International Executive Forum (San Diego); Iowa State U; James Madison U; Jewish Theological Seminary, New York; Johns Hopkins University; U of Kentucky; Kobe U, Japan; Konrad Lorenz Institute (Milan); Lafayette College; London School of Economics; U of Maryland; Massachusetts Institute of Technology; McGill U; Miami U; U of Michigan; Michigan State U; U of Minnesota; U of Milan (Italy); U of Missouri; U of Montana; Moscow State U (USSR); National Conference of Catholic Bishops; U of Nevada, Las Vegas; U of Nevada, Reno; U of New England; U of New Hampshire; U of New Mexico; State U of New York; New York Academy of Sciences; North Carolina State U; U of North Carolina, Chapel Hill; U of North Texas; Northwestern U; U of Notre Dame; Nova Scotia Agricultural College; Oak Ridge National Labs; Oberlin College; US Office of Personnel Management; Ohio State U; U of Oregon; Oregon State U; U of Oslo (Norway); U of Ottawa (Canada); U of Padua (Italy); Penn State U; U of Pittsburgh; Princeton U; Purdue U; Resources for the Future; U of Richmond; U of San Francisco; Sarah Lawrence College; U of South Carolina; Southern Illinois U; Swedish Institute for Future Studies (Stockholm); the Swedish Risk Academy (Stockholm); Swiss Academy of Sciences; U of Tel Aviv (Israel); U of Tennessee; U of Toledo; U of Toronto; U of Trondheim (Norway); Twente Technological U (The Netherlands); USSR Academy of Sciences; Utah State U; United Nations Environment Programme; University College, London; Polytechnic U of Valencia (Spain); Vanderbilt U; Virginia Polytechnic Institute and State U; U of Victoria (British Columbia); U of Vienna (Austria); U of Washington; Washington State U; U of Waterloo (Canada); Western Behavioral Sciences Institute (San Diego); Williams College; U of Winnipeg (Manitoba); U of Wisconsin; Woods Hole Oceanographic Institution; World Council of Churches (Switzerland); World Resources Institute; U of Wyoming; Yale U.

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Faculty Advisor, ND GlobeMed, 2008-present
 Notre Dame Graduate Council, 1998-2000
 ND Kroc Inst. Internat. Peace Studies, Fellow, 1999-present
 Steering Comm., ND History/Philosophy of Science, 1998-00

Faculty Advisor, Students for Environmental Awareness, 1999-01
 ND University Committee on International Studies, 1998-2000
 ND Hesburgh Lecture Series, 1998-present

USF Library Focus Group, 1995-1998
 Board of Directors, USF Division of Sponsored Research, 1994-1995
 Chair, Distinguished Research Professors' Course Comm., 1992-1996
 Graduate Committee, Department of Philosophy, 1990-1997
 Chair, Department Library Committee, 1990-1998
 Chair, Distinguished Research Professor Screening Comm., 1987-1992
 Colloquium Coordinator, Philosophy Department, 1988-1990
 Graduate Coordinator, Department of Philosophy, 1985-1986
 University Graduate Council, 1983-1984
 Chair, Central U Library Committee, 1982
 Chair, University Commission on Academic Excellence, 1982
 Chair, University Plans and Policy Committee, 1981
 Vice-Chair, University Faculty Senate, 1981
 Democratic Party Committee Woman, 35th Legislative District, Precinct B-11, 1976-80
 Governing Board, Louisville Civil Liberties Union, 1976-1979
 Advisor, National Consortium, Black Professional Development, 1975-1980
 Local Coordinator, International Safe Energy Conference, 1978
 Energy Advisor, Louisville Board of Aldermen, 1975-1978