

July 1, 2005

### Kristin Shrader-Frechette, Biographical Sketch

Kristin Shrader-Frechette studied physics at Xavier University and then graduated, summa cum laude, in 1967, with an undergraduate major in mathematics from Edgecliff College. 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 American Philosophical Association, the Philosophy of Science Association, the Society for Philosophy and Technology, the Risk Assessment and Policy Association, the International Society for Environmental Ethics, and the US National Academy of Sciences. She has been a member of many boards and committees of the National Council on Radiation Protection and Measurement and of 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. Shrader-Frechette won for her work in public-health and environmental ethics. Associate Editor of BioScience until 2002, Shrader-Frechette is currently Editor-in-Chief of the Oxford University Press monograph series on Environmental Ethics and Science Policy, a member of the Executive Committee of the US EPA Science Advisory Board, and Chair of the EPA Committee on Bioethics. She also serves on the editorial boards of 18 professional journals. Past-President (1985-1987) of the Society for Philosophy and Technology; Past President (1997-1999) of the Risk Assessment and Policy Association, she also is Past President of the International Society for Environmental Ethics. Shrader-Frechette was the first woman president of all three international organizations (SPT, RAPA, ISEE) and has served as Principal Investigator 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 continuously has funded her research for 23 years, and her latest research grant, \$224,000 from NSF, is on ethical and policy issues associated with worker exposure to ionizing radiation.

Most of Shrader-Frechette's research focuses on scientific method, on ethical theory, or on ethical issues related to technological risks and their environmental consequences. Since 1980, her work has addressed methodological and ethical problems associated with nuclear technology or with ecological measures of technological 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 14 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), and Environmental Justice: Creating Equality, Reclaiming Democracy (2002). 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: Ecological Risk Assessment and Radiation Protection and Ethics.

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. Shrader-Frechette has held senior professorships at the University of California and the University of Florida. Currently she is O'Neill Family Professor of Philosophy and Concurrent Professor of Biological Sciences at the University of Notre Dame. She and her husband Maurice, a mathematician/computer scientist, have two children, Danielle and Eric. Danielle graduated with honors from Princeton in 2002 and does statistical analyses for the Disney Corporation. Eric, also an honors Princeton graduate, is an M.D./Ph.D. student at the University of California. The family spends free time canoeing, scuba diving, hiking and doing volunteer work.

website: [www.nd.edu/~kshrader](http://www.nd.edu/~kshrader)

July 1, 2005

## KRISTIN SHRADER-FRECHETTE

### *Curriculum Vitae*

Department of Philosophy and  
Department of Biological Sciences  
100 Malloy Hall  
University of Notre Dame  
Notre Dame, IN 46556-5639

Home Address:  
838 Park Avenue  
South Bend, IN 46616

Personal:  
Married to Maurice Shrader-Frechette,  
Ph.D. (math); 2 children, Eric and Danielle

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

hobbies: scuba diving, hiking, piano, violin  
website: [www.nd.edu/~kshrader](http://www.nd.edu/~kshrader)

### HIGHER EDUCATION

Institution:	Degree:	Years:	Field:
Xavier University		1966	physics
Edgecliff College	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
University of Louisville	Philosophy, Natural Sciences	1973-82	Professor
University of California, S. Barbara	Philosophy of Science, Environ. Studies	1982-84	Professor
University of Florida	Philosophy, Natural Sciences	1984-87	Professor
University of South Florida	Philosophy, Environmental Sciences	1987-98	Distinguished Research Professor
University 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 Program, 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 and Toxicology	1993-1996
US National Research Council/National Academy of Sciences, Oversight Committee, Environmental Monitoring and Assessment Program (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, Committee to Evaluate 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
Executive Committee, US EPA Science Advisory Board	2003-2006
Chair, US EPA Committee on Bioethics	2003-2006

## GRADUATE COURSES TAUGHT

Philosophy of Science	Ethics and Economic Methods	Environmental Justice	Ethics
Methods of Philosophy	Philosophy of the Social Sciences	Environmental Risk Assessment	Risk and Consent
Analytic Philosophy	Philosophy of the Natural Sciences	Duties to Future Generations	Environmental Ethics
Science and Values			

## UNDERGRADUATE COURSES TAUGHT

Mathematical Logic	Philosophy of Economics	Biomedical Ethics & Public Health	Science and Values
Philosophy of Science	Philosophy of Ecology	Public Health Risk Assessment	Social Philosophy
Introduction to Logic	Ethics of Scientific Research	Contemporary Ethical Issues	Epistemology
Critical Thinking	Science, Technology, and Values	Environmental Ethics	Policy Analysis
Cost-Benefit Analysis			Ethics and Risk

## EDITORIAL WORK

Editor-in-Chief,	Oxford University Press series, "Environmental Ethics and Science Policy," 1988-present
Editorial Board,	<u>Accountability in Research</u> , 2004-present
"	<u>Biological Theory</u> , 2004-present
"	<u>BioScience</u> , Associate Editor, 1994-2002
"	<u>Business Ethics Quarterly</u> , 2002-present
"	<u>Eco Spheres</u> , Norwegian Folkets Brevskole, 1993-present
"	<u>Encyclopedia of the Philosophy of Science</u> , 1996-present
"	<u>Environmental Ethics</u> , 1981-present
"	<u>Environmental Values</u> , 1995-present
"	<u>Ethics and the Environment</u> , 1995-present
"	<u>Europäische Akademie</u> , 1999-present
"	<u>Humanities and Technology</u> , 1980-present
"	<u>Journal of Agricultural and Environmental Ethics</u> , 1986-present
"	<u>Journal of Law and Public Policy</u> , 1987-present
"	<u>Organization and Environment</u> , 1995-present
"	<u>Perspectives in Contemporary Literature</u> , 1975-78
"	<u>Philosophy and Technology</u> , 1986-present
"	<u>Poesis and Praxis</u> , 1999-present
"	<u>Public Affairs Quarterly</u> , 1987-present
"	<u>Research in Philosophy and Technology</u> , 1982-1986
"	<u>Risk: Issues in Health and Safety</u> , 1991-present
"	<u>Studies in Religion and the Social Order</u> , 1991-present
"	<u>Synthese: An Internat. Journal in Logic, Epistemology, and Philosophy of Science</u> , 1993-present
Advisory Board,	<u>American Philosophical Association Newsletter on Feminism and Philosophy</u> , 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,	<u>Biology and Philosophy</u> , 1993-present
"	<u>Behavioral Science</u> , 1975-present
"	<u>Bulletin of the Ecological Society of America</u> , 1995-present
"	<u>Conservation Biology</u> , 1993-present
"	<u>Economics and Philosophy</u> , 1992-present
"	<u>Energy Policy Studies</u> , 1984-present
"	<u>Environment International</u> , 1985-present
"	<u>Environmental Management</u> , 1985-present
"	<u>Environmental Professional</u> , 1995-present
"	<u>Environmental Science and Technology</u> , 1996-present
"	<u>Ethics</u> , 1987-present
"	<u>Hypatia</u> , 1988-present
"	<u>Journal of Business Ethics</u> , 1983-present
"	<u>Newsletter on Philosophy and Technology</u> , 1995-present
"	<u>Philosophy and Economics</u> , 1992-present
"	<u>Philosophy of Science</u> , 1977-present
"	<u>Risk Analysis</u> , 1985-present

" Science, 1982-present  
Science, Technology, and Human Values, 1980-present

#### EDITORIAL WORK (continued)

Article Referee, Society and Natural Resources, 1989-present  
(continued) Synthese, 1984-present

Book Referee, 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 Philosophy of Science Association meeting  
" 1995 Chair, Science Ethics Committee, 10<sup>th</sup> 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

#### 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

2005-2009 Principal Investigator (PI), National Science Foundation, Grant SES, "Expert Judgment and the Linear, No-Threshold Hypothesis, submitted only, \$496,612.

2000-2003 PI, National Science Foundation, SES-98-10611, Nuclear Technology, Ethics, Worker Radiation Risk," \$224,000.

1996-1999 Principal Investigator, National Science Foundation, SBR-9512133, "Values and Ecological Risk Assessment."

1992-1995 PI, National Science Foundation, SBE-91-12661, "Environmental Ethics, Uncertainty, and Preservation Policy."

1992-1993 Principal Investigator, National Science Foundation, DIR-91-12445, "Laws & Explanation in Community Ecology."

1992 Principal Investigator, US Department of Energy and Nevada NWPO, Grant DE-FG08-85-NV10461, "Risk Assessment, Expert Judgment, and Impacts of a Yucca Mountain Repository."

1991-1992 PI, US Dept. of Energy/Nevada NWPO, 685873, 9.3.7, 4-C, "Expert Judgment in Assessing Radwaste Risks."

1988-1991 PI, National Science Foundation, BBS-86-159533, Normative Concepts in Ecology, Consequences for Policy.

1987 Recipient, National Science Foundation/National Research Council, Travel Grant, "8th International Congress on Logic, Methodology, and Philosophy of Science," Moscow, USSR.

1984-1987 PI, National Science Foundation, Grant ISP-82-09517, "Ethical Issues in Siting Radioactive Waste Facilities."

1982-1983 PI, National Science Foundation, SES-82-05112, "4 Methodological Assumptions in Risk-Cost-Benefit Analysis."

1981 Recip., National Science Foundation Travel Grant, "German-American Colloquium, Philosophy & Technology."

1980-1981 Principal Investigator, University of Louisville, Research Grant, "Public Policy and Radioactive Waste."

1979 Principal Investigator, University of Louisville, Research Grant, "Nuclear Policy."

1977-1978 Principal Investigator, University of Louisville, Res. Grant, "Conceptual Difficulties in High- Energy Physics."

1976-1977 Project Team Member, Environmental Protection Agency, Grant R-804848-01, "Ohio River Basin Energy Study."

1974-1975 PI, Kentucky Humanities Council, "Should Nuclear Power Plants Be Built in Environs of Louisville ? "

## REFEREED PUBLICATIONS

## (1A) BOOKS, FORTHCOMING

- (i) Taking Action, Protecting Life: Citizen Ethics and Environmental- and Public-Health Advocacy, forthcoming (4 drafts done).
- (ii) Radiation Protection and Ethics, forthcoming (1 draft done).
- (iii) Biomedical Ethics and Public-Health Risks, coedited with Heidi Giebel (1 draft done).

## (1B) BOOKS, PUBLISHED

- (1) 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](http://www.oup.com/uk/oso); Italian translation forthcoming.
- (2) Technology and Human Values, coedited with Laura Westra (Savage, MD: Rowman and Littlefield, 1997), 472 pp.
- (3) The Ethics of Scientific Research (Savage, MD: Rowman and Littlefield, 1994), 243 pp.
- (4) Method in Ecology: Strategies for Conservation Problems, coauthored with biologist Earl D. McCoy (Cambridge: Cambridge University Press, 1993), 328 pp.<sup>4</sup>
- (5) Burying Uncertainty: Risk and the Case Against Geological Disposal of Nuclear Waste (Berkeley: University of California Press, 1993), 346 pp.<sup>6</sup> Available at [www.netlibrary.com](http://www.netlibrary.com).
- (6) Policy for Land: Law and Ethics, coauthored with political scientist Lynton K. Caldwell (Savage, MD: Rowman and Littlefield, 1993), 333 pp.
- (7) Expert Judgment in Assessing Radwaste Risks (Carson City, Nevada: Nuclear Waste Project Office/US Department of Energy, 1992), 225 pp.<sup>6</sup>
- (8) Risk and Rationality (Berkeley: University of California Press, 1991), 312 pp. Available at [www.netlibrary.com](http://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.
- (9) Nuclear Energy and Ethics, edited volume (Geneva: World Council of Churches, 1991), 233 pp.
- (10) Risk Analysis and Scientific Method: Methodological and Ethical Problems with Evaluating Societal Hazards (Boston: Kluwer, 1985), 232 pp.<sup>2</sup>
- (11) Science Policy, Ethics, and Economic Methodology: Some Problems with Technology Assessment and Environmental-Impact Analysis (Boston: Kluwer, 1984), 321 pp. (Italian translation is forthcoming).
- (12) Four Methodological Assumptions in Risk-Cost-Benefit Analysis (Springfield, Virginia: National Technical Information Service, 1983), 242 pp.<sup>2</sup>
- (13) 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.
- (14) 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.

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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.

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) ARTICLES ACCEPTED<sup>1</sup>

- (15) "Ethics, Uncertainty, and Hazardous Waste," Environmental Values and the Quality of Life, ed. Frederick Ferré, (Athens, GA: University of Georgia Press).
- (16) "Foreword: A New Ethics," in Willis Truitt, Marxist Ethics, forthcoming.
- (17) "Democratic Policy, Accident Probabilities, and Environmental Risks," La Ricerca Sociale, in press.
- (18) "Environmental Risks, Scientific Uncertainty, and Public Rationality," Nuovo Civiltà Delle Macchine, in press.
- (19) "Risk Assessment and Statistical Errors," Nuovo Civiltà Delle Macchine, in press.<sup>5</sup>
- (20) "Negotiating Truth: Risk Perception and Populist Epistemology," Nuovo Civiltà Delle Macchine, in press.<sup>2</sup>
- (21) "Ethical Dilemmas and Radioactive Waste," in Improving the Global Environment, ed. B.A. Ross (Clayton, MO., Alan Company), in press.<sup>5, 6</sup>
- (22) "Technology Assessment, Expert Disagreement, and Democratic Procedures," in Technology Assessment and Alternatives, ed. F. Ferré (Greenwich, CT: JAI Press), in press.<sup>2</sup>
- (23) "Environmental Impact Assessment, Technology Assessment, and the Problem of Geographical Equity," in Technology Assessment and Alternatives, ed. F. Ferré (Greenwich, CT: JAI Press), in press.
- (24) "High-Level Waste, Low-Level Logic," Philosophy and Social Action, in press.
- (25) "Environmental Impact Assessment and the Fallacy of Unfinished Business," in Environmental and Social Impact Assessment, ed. M. Joyes (Athabasca, Alberta, Canada: Athabasca University, 1995), in press.
- (26) "Land Ethics and Property Rights," Advances in Human Ecology 3, in press.

(3) ARTICLES PUBLISHED

2005

- (27) "Flawed Attacks on Contemporary Human Rights," Human Rights Review, 7, no. 2 (2005), in press.
- (28) "Property Rights and Genetic Engineering," Science and Engineering Ethics 11, no. 1 (2005): 137-149.
- (29) "Objectivity and Professional Duties," Science, Technology, and Society, ed. Wenceslao Gonzalez (A Coruña, Spain: University of A Coruña, 2005), in press.
- (30) "How to Reform Science and Technology," Science, Technology, and Society, (A Coruña, Spain: University of A Coruña, 2005), ed. Wenceslao Gonzalez, in press.
- (31) "Radiobiology and Gray Science: Flawed New Radiation Protections," Science and Engineering Ethics 11, no. 2 (2005): 167-169.
- (32) "Ethical Issues in Technology," in P. H. Werhane and R. E. Freeman, eds. The Blackwell Encyclopedia of Management: Business Ethics (Oxford: Blackwell, 2005), pp. 511-513.
- (33) "Locke and Property Rights," Environmental Philosophy: Critical Concepts, eds. B. Callicott, C. Palmer (London: Routledge, 2005).
- (34) "Holism and Environmental Ethics," Classics in Environmental Ethics, eds. B. Callicott and Clare Palmer (London: Routledge, 2005), in press.
- (35) "Human Rights and Common Goods," (Washington, DC: NCCB, 2005), 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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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) ARTICLES PUBLISHED

2005 (continued)

- (36) "Urhajo-etica," in *Environmental Ethics*, ed. A. Votisky (Budapest: L'Harmattan, 2005), in press.
- (37) "Metascience, Technique, and Radiobiology," in *Nature, Truth, and Value: Essays in Honor of Frederick Ferre*, ed. George Allan and Merle Allshouse (Lanham, MD: Lexington Books, 2005), in press.

2004

- (38) "Using Metascience to Improve Dose-Response Curves in Biology," *Philosophy of Science*, 71, no. 2 (December 2004): 1026-1037.
- (39) "Measurement Problems and Florida Panther Models," *Southeastern Naturalist*, 3, no. 1 (2004): 37-50.
- (40) "Comparativist Rationality and Epidemiological Epistemology," *Topoi* 2 (September-October 2004): 153-163.
- (41) "Models in Panther Biology and Radiobiology: Philosophy of Science as Scientific Citizenship," *Philosophy Today*, in press.
- (42) "Ethics and Choosing Appropriate Means to an End," coauthored with mathematician Roger Cooke, *Risk Analysis* 24, no.1 (2004): 145-154.
- (43) "Deep-History Perspective on Biological Invasions," coauthored with biologist David Lodge, *Conservation Biology*, 18, no.1 (February 2004): 1-2.
- (44) "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.
- (45) "Ethical Theory versus Unethical Practice," *Environmental Ethics and Law*, ed. Robert J. Goldstein (Aldershot, UK: Ashgate, 2004), pp. 593-614.
- (46) "La justicia medioambiental, los pueblos indígenas y el problema del paternalismo," in *Gobernar los riesgos*, ed. José Luis Luján y Javier Echeverría (Madrid: Biblioteca Nueva, 2004), pp. 225-250.
- (47) "Ethical Issues in Technology," in *Blackwell Encyclopedia of Business Ethics*, ed. P. Werbane and Edward Freeman (Oxford, UK: Blackwell, 2004), in press.
- (48) "Catherine, Mildred, and Teaching at the Rainbow Cleaners," in *For the Love of Teaching*, ed. George Howard (Notre Dame: Academic Publications, 2004), pp. 32-39.
- (49) "Hazardous Wastes and Toxic Substances," *Encyclopedia of Bioethics*, Third Edition, ed. Stephen Post (New York: MacMillan, 2004), in press.
- (50) "Risk," in *Encyclopedia of Science, Technology, and Ethics*, ed. Carl Mitcham (New York: Macmillan, 2004), in press.
- (51) "Risk-Cost-Benefit Analysis," in *Encyclopedia of Science, Technology, and Ethics*, ed. Carl Mitcham (New York: Macmillan, 2004), in press.
- (52) "Conservation Biology," *Encyclopedia of the Philosophy of Science*, ed. Sahotra Sarkar, Routledge, 2004, in press
- (53) "Environmental Ethics," *Encyclopedia of the Philosophy of Science*, ed. Sahotra Sarkar, Routledge, 2004, in press.
- (54) "Chernobyl and Global Environmental Justice," *Prometeo*, forthcoming.
- (55) "Review of Sunstein, *Risk and Reason*," *Ethics* (January 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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4 This work was done under National Science Foundation Grant Number BBS-8619533.

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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  
(3) ARTICLES

2003

- (56) "Nonindigenous Species: Ecological Explanation, Environmental Ethics, and Public Policy," co-authored with biologist David Lodge, Conservation Biology 17, no. 1 (February, 2003): 32-37.
- (57) Response to Donlan and Martin: Invasive Species, Holocene Bias, Clovis and Columbus," co-authored with biologist David Lodge, Conservation Biology 17, no. 1 (February, 2003): 31.
- (58) "Environmental Ethics," in Oxford Handbook for Practical Ethics, ed. Hugh LaFollette (Oxford: Oxford University Press, 2003), pp. 188-218.
- (59) "Ethical Issues in Environmental and Occupational Health," Ethics and Public Health, ed. Bruce Jennings, Jeffrey Kahn, Anna Mastroianni, and Lisa Parker (Washington, DC: Assn. of Schools of Public Health, 2003), ch. 8, pp. 193-240.
- (60) "Environmental Justice, Supererogation, and Virtue Ethics," Technology and Cultural Values ed. Peter Herschok, M. Stepaniants, and 6p R. T. Ames (Honolulu: University of Hawaii Press, 2003), pp. 265-278.
- (61) "Autobiography of a Whistleblower," in Singing in the Fire: Stories of Women in Philosophy, ed. By L.M. Alcoff (Savage, MD: Rowman and Littlefield, 2003), pp. 135-152.
- (62) "Review of Sunstein, Risk and Reason," Notre Dame Philosophical Review (2003): 4-9-03.
- (63) "Review of Sunstein, Risk and Reason," Quarterly Review of Biology, (December 2003), in press.
- (64) "Review of Comstock, Vexing Nature: On the Ethical Case against Agricultural Biotechnology," Journal of Value Inquiry, 2003, in press.

2002

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## 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.

## 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; 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; 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; U of Gothenburg (Sweden); U of Groningen (Netherlands); U of Guelph (Ontario); Harvard U; Hastings Center; U of Hawaii; U of Houston; Indiana U; International Executive Forum (San Diego); Iowa State U; James Madison U; Jewish Theological Seminary, New York; Johns Hopkins University; U of Kentucky; Lafayette College; U of Maryland; Massachusetts Institute of Technology; McGill U; Miami U; U of Michigan; Michigan State U; U of Minnesota; 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; New York Academy of Sciences; North Carolina State U; U of North Carolina, Chapel Hill; 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 Tennessee; U of Toledo; U of Trondheim (Norway); Twente Technological U (The Netherlands); USSR Academy of Sciences; Utah State U; United Nations Environment Programme; Polytechnic U of Valencia (Spain); Vanderbilt U; Virginia Polytechnic Institute and State U; U of Victoria (British Columbia); U of Washington; 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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 U Graduate Council, 1983-1984  
 Chair, Central U Library Committee, 1982  
 Chair, U Commission on Academic Excellence, 1982  
 Chair, U Plans and Policy Committee, 1981  
 Vice-Chair, U 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