

FACULTY BIOGRAPHIES FOR
NANOTECHNOLOGY, ETHICS, AND ENVIRONMENTAL HEALTH

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[Vicki Colvin, Ph.D.](#), is the Kenneth S. Pitzer-Schlumberger Professor of Chemistry and Professor of Chemical and Biomolecular Engineering at Rice University, where she directs the Center for Biological and Environmental Nanotechnology. She was an AAAS Fellow (2007-2008), and her work is listed as one of the 2006 Top Five Nanotech Breakthroughs of 2006, Forbes/Wolfe Nanotech Report. Colvin received her B.S. from Stanford (1988) and Ph.D. from UC-Berkeley (1994). During her time at UC-Berkeley, she was awarded the American Chemical Society's Victor K. LaMer Award for her work in colloid and surface chemistry. She completed her postdoctoral work at AT&T Bell Labs. She is also a frequent contributor to *Advanced Materials*, *Physical Review Letters*, and other peer-reviewed journals, and holds patents to four inventions.

[Jonathan M. Links, Ph.D.](#), is a medical physicist, with a B.A. in Medical Physics from UC-Berkeley (1977), and a Ph.D. in Environmental Health Sciences (with a concentration in Radiation Health Sciences) from Johns Hopkins University (1983). Dr. Links is currently Professor of Environmental Health Sciences in the Johns Hopkins Bloomberg School of Public Health, with joint appointments in Radiology and Emergency Medicine in the Johns Hopkins School of Medicine. Dr. Links is a member of the Delta Omega National Public Health Honor Society. He directs the Johns Hopkins Center for Public Health Preparedness, and is a past president of the Society of Nuclear Medicine, a professional medical society that deals with the use of radioactivity and radiation in medicine. Dr. Links is currently Baltimore City's radiation terror expert, working with the Health, Fire, and Police Departments. He is also a member of a federal DHS Infrastructure Experts Team. His interests include public health preparedness and response for all hazards, ionizing radiation, biomarkers, mathematical modeling, and non-invasive medical imaging.

[David Rejeski, M.P.A., M.E.D.](#), directs the Project on Emerging Nanotechnologies at the Woodrow Wilson International Center for Scholars. For the past four years he has been the Director of the Foresight and Governance Project at the Woodrow Wilson Center, an initiative designed to facilitate better long-term thinking and planning in the public sector. □ He was a Visiting Fellow at Yale University's School of Forestry and Environmental Studies and an agency representative (from EPA) to the White House Council on Environmental Quality (CEQ). Before moving to CEQ, he worked at the White House Office of Science and Technology (OSTP) on a variety of technology and R&D issues, including the development and implementation of the National Environmental Technology Initiative. □ Prior to OSTP, he was head of the Future Studies Unit at the Environmental Protection Agency. He spent four years in Hamburg, Germany, working for the Environmental Agency, Department of Public Health, and Department of Urban Renewal and, in the late 1970s, founded and co-directed a non-profit involved in energy conservation and renewable energy technologies. □ □ He has graduate degrees in

public administration and environmental design from Harvard and Yale. Rejeski has written extensively on science, technology, and policy issues, in areas ranging from genetics to electronic commerce and pervasive computing and is the co-editor of: Environmentalism and the Technologies of Tomorrow: Shaping the Next Industrial Revolution, Island Press.

Barbara Karn has led the Environmental Protection Agency's research grants program for nanotechnologies in the agency's Office of Research and Development since the program's establishment in 2001. Dr. Karn represented EPA on the interagency Nanoscale Science, Engineering, and Technology subcommittee (NSET) of the White House Office of Science and Technology Policy, National Science and Technology Council. She is also a Nanotechnology Scholar at Georgetown College's Program on Science in the Public Interest. She holds a Ph.D. in biology and environmental science from Florida International University, has master's degrees from Cleveland State University and Case Western Reserve University, and a bachelor's degree in chemistry from Ohio State University. Her professional background ranges from electroplating to polymers, from environmental consulting to small business owner, and from academic administrator to water quality management planner. She is the lead editor of the book, Nanotechnology and the Environment: Applications and Implications (Oxford University Press).

Russell Powell received his B.A. in philosophy (summa cum laude) from Binghamton University (1999), his Juris Doctor (cum laude) from NYU Law School (2002), and an M.S. in biological sciences and Ph.D. in philosophy from Duke University (2008). At Duke, his dissertation was on contemporary problems in macroevolutionary theory. Before returning to graduate school to work toward his Ph.D., Powell worked as an attorney in the New York office of Skadden, Arps, Slate, Meagher and Flom, LLP, where he specialized in mass tort and product liability litigation. He is an Assistant Professor at Georgetown University's Kennedy Institute of Ethics. Powell's academic interests are wide-ranging and highly interdisciplinary: he has published in areas ranging from political philosophy and philosophy of science to philosophy of law and bioethics. Currently, he is working on the evolutionary biological implications of genetic engineering technology, in addition to the metaphysical and ethical dimensions of extinction. Both of these projects engage problems in bio-environmental ethics with the conceptual tools of philosophical biology. The overarching goal of Powell's research is to explore the evolutionary biological future of humanity and the ways in which human technology can shape it, for better and for worse.

Edward Soule, Ph.D., is an Associate Professor in the McDonough School of Business at Georgetown University. He received his B.A. from the University of Missouri-Kansas City in 1974, and his Ph.D. in philosophy from Washington University in 1999. His teaching and research draws upon his business career (CPA & CFO, of Edward Jones from 1986 to 1995) and his training in moral philosophy. He publishes in areas where morality intersects management, corporate strategy, and regulatory policy. And he teaches courses on managerial ethics and corporate social responsibility. He has written

articles on “assessing the precautionary principle” as well as the book Morality and Markets: The Ethics of Government Regulation, Rowman & Littlefield.

Madison Powers, J.D., D.Phil., is Director and Senior Research Scholar at the Kennedy Institute of Ethics and Professor of Philosophy at Georgetown University. He holds a B.A. and M.A. from Vanderbilt University, a law degree from the University of Tennessee, and a doctorate in philosophy from Oxford University (University College). Research interests include political, legal, and moral philosophy with a special interest in the intersection of law, ethics, and health policy. Dr. Powers has published numerous journal articles and book chapters on a variety of topics in normative and practical philosophy. He is co-editor, with Ruth Faden and Gail Geller, of *AIDS, Women and the Next Generation*, and with co-investigator Ruth Faden, he was the recipient of a Robert Wood Johnson Health Policy Investigator Award. He also served for many years thereafter as a member and as chair of the National Advisory Committee of the Robert Wood Johnson Foundation overseeing the Investigator Awards Program, and has participated in many private and governmental advisory bodies including the Recombinant DNA Advisory Committee (RAC) for the National Institutes of Health. Drs. Powers and Faden are co-authors of a recent book, Social Justice: The Moral Foundations of Public Health and Health Care Policy, Oxford University Press.

LeRoy Walters, Ph.D., is the Joseph P. Kennedy, Sr., Professor of Christian Ethics at the Kennedy Institute of Ethics, Georgetown University, and a Professor of Philosophy. He is coauthor with Julie Gage Palmer of The Ethics of Human Gene Therapy, Oxford University Press, and coeditor of an anthology entitled Contemporary Issues in Bioethics, 7th ed., Wadsworth Publishing Company. From 1965-1967, Walters studied at the University of Heidelberg and the Free University of Berlin. He received his Ph.D. from Yale University (1971), writing his dissertation on the just-war theory. Immediately thereafter he joined André E. Hellegers in the newly established Joseph and Rose Kennedy Institute for the Study of Human Reproduction and Bioethics at Georgetown University. Since 1976, Walters has been engaged with the ethical and public-policy questions surrounding recombinant DNA research, human gene transfer research, and human embryonic stem cell research. He served three terms on the NIH Recombinant DNA Advisory Committee, and chaired the committee from 1993 through 1996. Since June 2001, Walters has focused particular attention on ethical and public-policy issues in human embryonic stem cell research.