

Silent Spring at 50: The Legacy of Rachel Carson

Friday and Saturday, March 9-10, 2012

University Guest House & Conference Center Fort Douglas Ballroom

*“Those who contemplate
the beauty of the earth find
reserves of strength that will
endure as long as life lasts.”*

—Rachel Carson

Photograph by Shirley Briggs is used courtesy of the Linda Lear Center for Special Collections & Archives, Connecticut College.

Principal Funding

R. Harold Burton Foundation
Cultural Vision Fund
Chevron



Wallace Stegner Center
for Land, Resources and the Environment
UNIVERSITY OF UTAH S.J. QUINNEY COLLEGE OF LAW



**S.J. QUINNEY
COLLEGE OF LAW**
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The Wallace Stegner Center's Seventeenth Annual Symposium addresses the topic of "Silent Spring at 50: The Legacy of Rachel Carson." The symposium will consider Rachel Carson's ongoing influence, as well as the state of Carson's beloved marine environments and the state of toxic chemical regulation.

Rachel Carson's classic *Silent Spring*, published in 1962, became one of the foundational texts of the modern environmental movement. It exposed the dangers pesticides and other toxic chemicals posed to human and environmental health, and led to a transformation of U.S. laws governing those substances. Carson was attacked by the chemical industry in ways that were remarkably similar to today's attacks on scientists for exposing the dangers of climate disruption. Unlike the climate debate, however, which involves thousands of scientists around the world, Carson stood largely alone against this assault.

Even before *Silent Spring*, through her earlier books including *The Sea Around Us* and *The Edge of the Sea*, marine biologist and nature writer Carson helped to raise awareness about the importance, fragility, and connectedness of the natural world. The Stegner Center's Seventeenth Annual Stegner Symposium will explore Carson's substantial influence on modern environmental law, policy, and advocacy, including exploration of the marine world, the regulation of toxic chemicals, and Carson's ongoing legacy, through her pioneering role as a woman in the environmental movement and as a scientist advocating for environmental protection.

Wallace Stegner Lecture

The Impact of the Environment on Human Health: The Special Vulnerability of Children

Thursday, March 8, 2012, 12:15 p.m.

University of Utah S.J. Quinney College of Law Sutherland Moot Courtroom
Free and open to the public. No registration required. Lunch will be served.
1 hour C.L.E. (pending)



Philip J. Landrigan, MD, MSc, the Dean for Global Health and Ethel H. Wise Professor and Chair of the Department of Preventive Medicine of Mount Sinai School of Medicine, is a pediatrician, an epidemiologist, a Professor of Pediatrics and Director of Mount Sinai's Children's Environmental Health Center. Dr. Landrigan is an international leader in public health and preventive medicine. Dr. Landrigan's pioneering research on the effects of lead poisoning in children led the U.S. government to

mandate removal of lead from gasoline and paint, and his leadership of a National Academy of Sciences committee on pesticides in children's diets generated widespread understanding that children are uniquely vulnerable to toxic chemicals in the environment. Dr. Landrigan's work has helped to secure the passage of the Food Quality Protection Act in 1996 and the establishment of the EPA's Office of Children's Health Protection. Dr. Landrigan has been a leader in developing the National Children's Study, the largest epidemiological study of children's health and the environment ever launched in the United States. He has been centrally involved in the medical and epidemiologic studies that followed the destruction of the World Trade Center on September 11, 2001. He has consulted extensively to the World Health Organization.



Registration required (see registration form in this brochure or go online to www.law.utah.edu/stegner). Symposium will be held at the University Guest House & Conference Center Fort Douglas Ballroom.

Friday, March 9, 2012

- 7:00 Registration & Continental Breakfast
 8:00 Welcome and Introductions
 8:10 Devil or Angel: Rachel Carson and Her Legacy
 Mark Lytle
- Part I: The Edge of the Sea: Rachel Carson and the Protection of the Marine World**
- 9:25 Heeding the Signs of a Changing Ocean
 Susan Avery
- 9:40 Break
- 10:05 Corporate Ocean Responsibility: Business, Sustainable Use and Stewardship of the Marine World
 Paul Holthus
- 10:45 Ocean Governance in the 21st Century: Structure and Challenges
 Robin Kundis Craig
- 11:25 Shared Question and Answer Session
- (End of Part I)
- 11:55 Lunch (provided on site)
- Part II: Silent Spring: Rachel Carson and the Regulation of Toxic Chemicals**
- 12:40 Carson's Bittersweet Legacy in Toxics Policy and the Long Road Ahead
 Wendy Wagner
- 1:20 Perspective of the Agricultural Industry
 Jay Vroom
- 2:00 Green Chemistry: Setting the Compass Toward a Sustainable Future
 Terry Collins
- 2:40 Shared Question and Answer Session
- (End of Part II)
- 3:10 Break
- 3:35 "Living Downstream" (Film)
- 4:30-5:30 Rachel and Me: Silent Spring, Fracking, and the Birth of the Environmental Human Rights Movement
 Sandra Steingraber (Keynote)

Saturday, March 10, 2012

- 8:00-9:00 Continental Breakfast
- Part III: "If I had influence..." Rachel Carson's Legacy**
- 9:00 The Life of Silent Spring in the Mass Media, in 1962 and Thereafter
 Priscilla Coit Murphy
- 9:50 Women in the Sciences: Before and After Rachel Carson
 Anya Plutynski
- 10:40 Rachel Carson's Influence (Panel Discussion)
 Lynn de Freitas
 Sarah George
 Alan Matheson
 Ann Neville
- (End of Part III)
- 12:00 Lunch (provided on site)
- 1:00 Air Tight (a play)
 by Aden Ross
- 1:40-2:30 Rachel Was Not Wrong. Why the Science Surrounding DDT Matters Now More Than Ever.
 Naomi Oreskes

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Sponsors

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 The Nature Conservancy in Utah
 Natural History Museum of Utah
 Natural Resources Law Forum



Devil or Angel: Rachel Carson and Her Legacy

Mark Lytle has been a pioneer in the field of environmental studies and is currently among those historians seeking to develop the field of “Environmental Diplomacy.” *The author of The Origins of the Iranian-American Alliance, 1941-1953*, he began his career as a student of American relations with Iran and the role of oil in postwar foreign policy. Since then in his books *America’s Uncivil Wars: The Sixties Era from Elvis to the Fall of Richard Nixon* and *The Gentle Subversive: Rachel Carson, Silent Spring, and the Rise of the Environmental Movement*, he has focused on the history of the 1960s and environmentalism. His current projects include a history of American consumerism since World War II and a geological history, currently titled *Earth: A Love Story*. His interest in history education inspired the writing with James West Davidson of *After the Fact: The Art of Historical Detection* now in its sixth edition. In addition to his long tenure at Bard, he has taught at Yale, Vassar, and as the Mary Ball Washington Professor at University College Dublin.

Part I: The Edge of the Sea: Rachel Carson and the Protection of the Marine World

Heeding the Signs of a Changing Ocean

Susan Avery took office as the ninth President and Director of the Woods Hole Oceanographic Institution in February 2008. As an oceanographic leader with a background in atmospheric research, Avery has used her unique position to underscore the importance of ocean-atmosphere-terrestrial interactions in understanding Earth as a system. Previously, she was at the University of Colorado at Boulder (UCB), where she was a member of the faculty, and served in interim positions as Vice Chancellor for Research and Dean of the Graduate School, as well as Provost and Executive Vice Chancellor for Academic Affairs. From 1994-2004, she served as director of the Cooperative Institute for Research in Environmental Sciences (CIRES) at UCB. As Director of CIRES, Avery facilitated interdisciplinary research efforts spanning the geosciences and bringing them together with social and biological sciences. Avery earned her Ph.D. in atmospheric science from the University of Illinois in 1978. Her research interests include studies of atmospheric circulation and precipitation, the development of new radar techniques and instruments for observing the atmosphere, and the role of climate science in decision support. She has served on numerous advisory panels, committees, and councils for various science funding agencies, national centers and research coalitions, and international science programs.

Corporate Ocean Responsibility: Business, Sustainable Use and Stewardship of the Marine World

Paul Holthus is the founding Executive Director of the World Ocean Council (WOC), the international business leadership alliance on “Corporate Ocean Responsibility.” The WOC brings together oil/gas, shipping, fisheries, aquaculture, tourism, offshore, renewable, and other ocean industries—creating an unprecedented ocean business community and private sector leadership in addressing shared marine sustainability challenges. Holthus has held senior positions with the UN Environment Program and international environmental organizations, including serving as Deputy Director for the Global Marine Program of IUCN (The World Conservation Union). Since 1998, Holthus has worked primarily with the private sector to develop practical solutions to sustainable development of the marine environment. He has worked in over 30 countries with companies, communities, industry associations, UN agencies, international NGOs, and foundations. Holthus is a graduate of the University of California and the University of Hawaii, with advanced degrees in marine resource management and international business.

Ocean Governance in the 21st Century: Structure and Challenges

Robin Kundis Craig is the Attorneys’ Title Professor of Law and Associate Dean for Environmental Programs at the Florida State University College of Law in Tallahassee, Florida. She specializes in all things water, including the Clean Water Act, water law and the public trust doctrine, water resources and climate change, coastal water pollution, the intersection of water issues and land issues, and marine biodiversity and marine protected areas. She is the author of *The Clean Water Act and the Constitution* (ELI: 2nd Ed. 2009), *Environmental Law in Context* (Thomson/West: 3rd ed. 2012), and *Comparative Ocean Governance: Place-Based Protections in an Era of Climate Change* (Edward Elgar 2012); a co-author of *Toxic and Environmental Torts* (West 2010); and the author of over 50 law review articles and book chapters. In addition, she has served on three successive National Research Council Committees on the Clean Water Act and the Mississippi River. Craig also serves as Chair of the American Bar Association Section on Environment, Energy, and Resources’ Marine Resources Committee and as Supreme Court News Editor for the ABA Administrative Law Section’s Administrative & Regulatory Law News. At Florida State, she teaches Environmental Law, Water Law, Florida Water Law, Administrative Law, Civil Procedure, Property, International Biodiversity Law, and seminars on the Environmental Intersection of Land and Sea and the Clean Water Act, Toxic Torts, and the Clean Water Act, plus the Environmental and Land Use Law Certificate Seminar.

“For all at last
returns to
the sea -- to
Oceanus,
the ocean
river, like the
everflowing
stream of
time, the
beginning
and the end.”

–Rachel
Carson

Part II: Silent Spring: Rachel Carson and the Regulation of Toxic Chemicals

Carson's Bittersweet Legacy in Toxics Policy and the Long Road Ahead

Wendy Wagner is the Joe A. Worsham Centennial Professor at the University of Texas School of Law. Before joining the Texas faculty in 2001, Wagner was a professor at Case Law School and a visiting professor at Columbia Law School and the Vanderbilt School of Law. Wagner also worked as an honors attorney with the environmental enforcement section of the U.S. Department of Justice, served as the pollution control coordinator at USDA, and clerked for the Honorable Judge Albert Engel, Chief Judge of the U.S. Court of Appeals for the 6th Circuit. Wagner's research focuses on the law-science interface in environmental law. She has published a number of articles and two books, *Bending Science: How Special Interests Corrupt Public Health Research* (with Tom McGarity; Harvard University Press 2008) and *Rescuing Science from Politics: Regulation and the Distortion of Scientific Research* (co-edited with Rena Steinzor; Cambridge University Press 2006).

Perspective of the Agricultural Industry

Jay Vroom has served as president and chief executive officer of the trade association known as CropLife America (CLA) since 1989 and has been a leader in U.S. agribusiness trade associations for his entire career. In addition, he has served as chairman of the CropLife Foundation since its inception in 2001. In his current role with CLA, Vroom heads the leading U.S. trade group for the crop protection industry in the U.S. CLA is primarily involved in issue management and advocacy for the industry and its agricultural allies. CLA performs federal and state lobbying, science and regulatory advocacy, and proactive litigation work on behalf of its members. Its principal issues revolve around articulating the benefits of crop technology in enhancing food, fiber and renewable fuel production; and advocating for clear, science-based regulations, which ensure the safe and effective use of crop protection tools. Through its membership in the Brussels-based global federation CropLife International (CLI), the CLA is a strong voice in many international venues on issues critical to the plant science industry. Vroom also sits as a senior member of CLI's Crop Protection Steering Council. He also sits on the Board of Directors for The Friends of the National Arboretum, an independent, nonprofit organization established to enhance the National Arboretum. Vroom was raised on a grain and livestock farm in north-central Illinois and continues to own the farming operation.

Green Chemistry: Setting the Compass Toward a Sustainable Future

Terry Collins is the Teresa Heinz Professor of Green Chemistry at Carnegie Mellon University where he has taught since 1987. He is the Director of Carnegie Mellon's Institute for Green Science. Collins is one of the founders of the field of Green Chemistry. He is internationally recognized for his development of small molecule catalysts called TAML® activators that activate natural oxidants such as hydrogen peroxide to clean water of numerous pollutants and pathogens. TAML activators are the first effective mimics of the peroxidase enzymes, a huge class of enzymes found throughout nature. Professor Collins developed the first university course in Green Chemistry starting in 1992, a course that is the basis of open-source, on-line, boilerplate green chemistry coursework that can be found at: <http://igs.chem.cmu.edu/>. Collins' honors include the Heinz Award for the Environment, the EPA's 1999 Presidential Green Chemistry Challenge Award, the Inaugural Kauffman Award of the Pittsburgh Foundation, Japan's Society of Pure and Applied Coordination Chemistry Award, and the Pittsburgh Section Award of the ACS. He is an honorary professor and a Distinguished Alumnus awardee of Auckland University and an Honorary Fellow of the Royal Society of New Zealand.

(End of Part II)

Living Downstream (Film)

Based on the acclaimed book by ecologist and cancer survivor Sandra Steingraber, *Living Downstream* follows Steingraber during one pivotal year as she travels across North America, working to break the silence about cancer and its environmental links. The film highlights her private struggles with cancer and her public quest to bring attention to the urgent human rights issue of cancer prevention, and illuminates the connection between a healthy environment and human health.

Rachel and Me: Silent Spring, Fracking, and the Birth of the Environmental Human Rights Movement

Sandra Steingraber is an internationally recognized authority on environmental links to cancer and human health. Her book *Living Downstream: An Ecologist's Personal Investigation of Cancer and the Environment* presents cancer as a human rights issue. Originally published in 1997, it was the first to bring together data on toxic releases with data from U.S. cancer registries and won praise from international media including *The Washington Post*, *Publishers Weekly*, *The Lancet*, and *The London Times* and has been adapted for film by The People's Picture Company of Toronto. Steingraber's book, *Having Faith: An Ecologist's Journey to Motherhood*, explores the intimate ecology of motherhood. Both a memoir of her own pregnancy and an investigation of fetal toxicology, *Having Faith* reveals the extent to which environmental hazards now threaten each stage of infant development. Steingraber has received many honors for her work as a science writer. She was named a *Ms. Magazine* Woman of the Year and later received the Jenifer Altman Foundation's first annual Altman Award for "the inspiring and poetic use of science to elucidate the causes of cancer." The Sierra Club has heralded Steingraber as "the new Rachel Carson," and Carson's own alma mater, Chatham College, selected Steingraber to receive its biennial Rachel Carson Leadership Award. In 2006, Steingraber received a Hero Award from the Breast Cancer Fund and, in 2009, the Environmental Health Champion Award from Physicians for Social Responsibility, Los Angeles.

"Only within the moment of time represented by the present century has one species—man—acquired significant power to alter the nature of his world."

—Rachel Carson

Part III: “If I had influence...:” Rachel Carson’s Legacy

The Life of Silent Spring in the Mass Media, in 1962 and Thereafter

Priscilla Murphy holds degrees from Swarthmore College and American University, and a doctorate in media history from the University of North Carolina at Chapel Hill. Her study interests have focused on the interaction and relationship between books (particularly non-fiction) and the other mass media during the 20th century media explosion and in the current rapidly changing media system. She has taught at UNC-CH’s School of Journalism and Mass Communication as well as the schools of Information and Library Science, and Government. She has also worked as a freelance manuscript editor in Chicago and a program coordinator in business-government relations in Washington D.C. She lives in Chapel Hill, NC.

Women in the Sciences: Before and After Rachel Carson

Anya Plutynski received her Ph.D. in Philosophy and M.A. in Biology from the University of Pennsylvania. She has been teaching philosophy at the University of Utah, as well as in the Honors College and Environmental Humanities Program, for the past ten years. Her research is in the history and philosophy of biology, as well as philosophy of medicine and biomedical ethics. Her research is on a range of topics: the roles of models in science to the nature of scientific explanation and confirmation in evolutionary biology, and, most recently, ethical and methodological issues surrounding cancer screening and treatment. She has published in *Philosophy of Science*, the *British Journal for Philosophy of Science*, *Studies in the History and Philosophy of the Biological and Biomedical Sciences*, *Biology and Philosophy*, and the *Journal of the History of Philosophy of Science*. Recently, she co-edited the *Blackwell’s Companion to Philosophy of Biology* with Sahotra Sarkar.

Rachel Carson’s Influence

- **Lynn de Freitas**, Executive Director, Friends of Great Salt Lake
- **Sarah George**, Executive Director, Natural History Museum of Utah
- **Alan Matheson**, Senior Environmental Advisor to the Governor of the State of Utah
- **Ann Neville**, Senior Advisor, Biological Resources, Kennecott Utah Copper

(End of Part III)

Air Tight (a play)

Aden Ross voluntarily gave up tenure to become a full-time writer and guerilla humanist after teaching dozens of completely different university courses. She has moved more than fifty times--literally from coast to coast—and has survived by teaching piano lessons, pumping gas, selling Ferraris, and being locked down while teaching inside Utah State Prison. Twenty-five of her plays have been produced across the U. S. and Canada, and her poetry has been widely published and anthologized; both her plays and poetry have won numerous awards. In 1996, *Dreamkeepers*, the Utah Centennial opera for which she wrote the libretto, was nominated for a Pulitzer Prize. Once an interviewer misunderstood her and published that she had been born in the world’s largest broom factory. She is now a full-time writer who conducts discussions in the arts and humanities for the Utah Division of Medical Ethics. This is the premier of her satirical play *Air Tight*, which will be directed by Richard Scott, the Executive and Artistic Director of the Grand Theatre at Salt Lake Community College and the recipient of Salt Lake City’s Mayor’s Award in 2010.

Rachel Was Not Wrong. Why the Science Surrounding DDT Matters Now More Than Ever

Naomi Oreskes is Professor of History and Science Studies at the University of California, San Diego, and an internationally renowned scientist, historian, and author. Her research focuses on consensus and dissent in science: How do scientists decide when a fact is “established?” How do they judge how much evidence is sufficient to deem something scientifically demonstrated? And what happens when scientists can’t agree? Her 2004 essay “The Scientific Consensus on Climate Change” (*Science* 306: 1686) has been widely cited in the mass media throughout the world, including in the Royal Society’s publication, “A Guide to Facts and Fictions about Climate Change,” in the Academy-award winning film, “An Inconvenient Truth,” and in Ian McEwan’s novel, *Solar*. Her opinion pieces have appeared in *The Washington Post*, *The Los Angeles Times*, *Nature*, *Science*, *The New Statesman*, and elsewhere. Her latest work, *Merchants of Doubt: How a Handful of Scientists Obscured the Truth on Issues from Tobacco to Global Warming*, with co-author Erik M. Conway, was shortlisted for the 2010 *Los Angeles Time Book Prize*, and has recently been released in paperback.

“If I had influence with the good fairy who is supposed to preside over the christening of all children, I should ask that her gift to each child in the world be a sense of wonder so indestructible that it would last throughout life.”

—Rachel Carson

Register to Attend

Silent Spring at 50: The Legacy of Rachel Carson

Admission to the symposium requires registration and payment, which is due at the time of registration.

You can register:

- Online** at www.law.utah.edu/stegner
- Mail** your registration form
- Phone** 801-585-3440

Although you can register at the door, advance registration is highly recommended, as the symposium may sell out in advance.

Complete this form by checking the boxes that apply and mail with a check to: Stegner Center Symposium, 332 S. 1400 E., Rm 101, Salt Lake City, Utah 84112-0730. Make checks payable to the Wallace Stegner Center.

Registration Fees

- \$150** if received by February 15
- \$175** if received on February 16 or later
- \$125** Seniors and University and College Faculty & Staff, if received by February 15
- \$150** Seniors and University and College Faculty & Staff, if received on February 16 or later
- \$75** Students, if received by February 15
- \$100** Students, if received on February 16 or later
- \$5.00** Good Citizen Discount: Please subtract \$5.00 if you are going to walk or bike to the symposium, take TRAX, or carpool.

CLE Credit (Utah State Bar)

- \$15** for 11 hours CLE Credits

\$ _____ Total Enclosed

To request an ADA accommodation at the symposium, please contact: Director, Office of Equal Opportunity and Affirmative Action, 201 S. Presidents Circle, #135, Salt Lake City, UT 84112, 801-581-8365. Reasonable notice is required.

For More Information

- phone** 801-585-3440
- fax** 801-581-6897
- e-mail** stegner@law.utah.edu
- web** www.law.utah.edu/stegner

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Utah Bar # _____

Accommodations

Accommodations are available at the University Guest House & Conference Center (1-888-416-4075) where the symposium will be held, or nearby at the University Park Marriott Hotel (1-800-228-9290).

Location

Thursday noon hour lecture

University of Utah S.J. Quinney College of Law
Sutherland Moot Courtroom
332 South 1400 East, Salt Lake City, Utah 84112

Friday and Saturday Symposium

University Guest House & Conference Center
Fort Douglas Ballroom
110 S. Fort Douglas Blvd., Salt Lake City, UT 84113
801-587-1000 or 1-888-416-4075

Stegner Center

Seventeenth Annual Symposium



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**The Impact of the Environment on Human Health:
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