

Curriculum Vitae

Name: Steven A. Kolmes

Present Position:

Rev. John Molter, C.S.C., Chair in Science
University of Portland
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Born: Poughkeepsie, New York, 17 September 1954

Education:

University of Wisconsin-Madison, Ph.D. major Zoology, minor Entomology, 1984,
M.S. in Zoology, 1978.
Ohio University, B.S. in Zoology with High Honors, 1976.

Professional Positions:

Rev. John Molter, C.S.C., Chair in Science, University of Portland (1995-present)
Environmental Science Department Chair, University of Portland (2009-present)
Environmental Studies Program Director, University of Portland (1996-2009)
Core Science Program Director, University of Portland (1995-2005)
Visiting Scholar, Institute for Culture and Ecology (2007-present)
Member of the Editorial Board, International Journal of Low Carbon Technologies
(2005-2010).
Member of the Advisory Committee, American Association for Sustainability in Higher
Education (2005-2007)
Member of the Executive Committee, Education for Sustainability Western Network
(2004-2005)
Member of the Steering Committee, Education for Sustainability Western Network
(2003-2004)
Member of the Toxics technical Advisory Committee established by the Oregon
Department of Environmental Quality to provide scientific advice in the
Triennial Review of water quality standards for surface waters in the State of
Oregon (2000-2003).
Member of the Technical Recovery Team for Endangered Salmonid Recovery,
Willamette River and Lower Columbia River, NMFS (1999-2006)
Issue Editor for the Council on Undergraduate Research Quarterly (1996-1998)
Professor of Biology, Hobart and William Smith Colleges (1994-1995)
Environmental Studies, Program Coordinator, Hobart and William Smith Colleges
(1994-1995)
Associate Professor of Biology, Hobart and William Smith Colleges (1989-1994)
Fulbright Research Scholar, Utrecht University (1991)
Department Chairman, Biology, Hobart and William Smith Colleges (1988-1990)

Visiting Scientist, University College, Cardiff (1987)
 Visiting Scientist, Simon Fraser University (summers 1985,1986)
 Assistant Professor of Biology, Hobart and William Smith Colleges (1984-1989)
 Lecturer, University of Wisconsin-Madison, Biocore Program (1983, 1984)

Society Affiliations:

American Association for the Advancement of Science
 Association for Environmental Studies and Sciences
 College Theology Society
 Council on Undergraduate Research
 Fulbright Association (Life Member)
 Sigma Xi
 Union of Concerned Scientists

Fellowships, Grants and Honors:

- Catholic Book Award for Faith and Science, 2012, Catholic Press Association of the United States and Canada (for “Environmental Science and Theology in Dialogue” written with Russell Butkus)
- Hearst Foundation grant for undergraduate summer science research at University of Portland, written with Kathy Kendall Johnston and Amy Leisher, summers of 2013 and 2014, \$100,000.
- Based on a nomination from the Institute of Culture and Ecology, the National Academies of Sciences evaluated my credentials and selected me to a pool of candidates for potential appointment to the Independent Scientific Advisory Board (ISAB) and Independent Scientific Review Panel (ISRP). The National Academies' pool is used for several rounds of appointments. The Northwest Power and Conservation Council appointed me to the ISRP's Peer Review Group at this time (2012).
- Arthur Butine Fund for Faculty Development grant with co-author Russell Butkus for development of a website to accompany Environmental Science and Theology in Dialogue (\$1,776) (2011).
- National Science Foundation Grant, co-PIs Greg Hill, Eric Jones, and Rebecca MacLain of the Institute for Culture and Ecology, to study the influence of decision support statistics on salmon recovery planning at the subbasin level, \$124,566 (2007-2009)
- Murdock Undergraduate Research Enhancement grant for summer research by science faculty and undergraduates at the University of Portland, written with Dean Marlene Moore, \$175,000 (2007-2010)
- Sherman Fairchild Equipment Grant for science equipment at the University of Portland, written with Dean Marlene Moore and Associate Dean Terence Favero, \$500,000 over a 5 year period beginning in 2006.
- Research Grant from the University of Arizona for collaborative research with Dr. Timothy Dennehy on whiteflies, \$5,000, 2004.
- Murdock College Science Research Program grant for summer research by science faculty and undergraduates at the University of Portland, written with Dean Marlene Moore, \$350,000 (2004-2006)

- Research Grant from the National Marine Fisheries Service Northwest Fisheries Science Center to investigate the effects of contaminants on spring chinook in the MacKenzie River Subbasin, \$3,500 (2003-2004)
- Eisenhower Higher Education Professional Development Grant, co-PIs Patricia Morrell, Jim Carroll, and Mike Snow, \$9,600 (2002-2003)
- New Directions Initiative in the Humanities and Earth Sciences grant, co-PI Dr. Russell Butkus, salmon restoration in the lower Columbia basin, \$10,000 (2002-2003)
- National Marine Fisheries Service Research Grant, co-PI Dr. Alec Maule, Impacts of Water Quality on ESA-listed Salmonid Populations in the Willamette and Lower Columbia Rivers, \$55,000 (2002-2003)
 - National Marine Fisheries Service Research Grant, co-PI Dr. Alec Maule, Water Quality and Salmonid Population Viability, \$45,000 (2001-2002)
- Research Grant from the National Marine Fisheries Service Northwest Fisheries Science Center to investigate water temperature effects on salmonids in the Columbia River Basin, \$3,500 (2001-2002)
- Coleman Foundation grant to support development of coursework in entrepreneurship, engineering, and the environment (written with Robin Anderson and Jim Male), 2000, \$25,000
- NCIIA grant to support development of coursework in entrepreneurship, engineering, and the environment (written with Robin Anderson and Jim Male), 2000, \$22,000
- Coleman Foundation Scholarship to USASBE meeting, 2000.
- Cotton Council grant for collaborative research with Dr. Timothy Dennehy of the University of Arizona, \$8,000 (1998-2000).
- University of Portland Faculty Leadership Award, 1999.
- Faculty Mentor for the Oregon Collaborative for Excellence in the Preparation of Teachers (a 5 year NSF grant funded for \$5,000,000, beginning in 1997).
- Arthur Butine Fund for Faculty Development grant for research on the behavior of the whitefly, Bemisia tabaci, on Systemic and Residual treatments of Imidacloprid (\$4,800) (1997).
- Co-PI on \$58,000 NSF-ILI grant written with Mike Snow, David Alexander, Ray Bard; Enhancement of Undergraduate Environmental Studies Using a GC/MS and Environmental Growth Chamber (2 years, beginning 1996).
- Co-PI on \$5,000 Tillamook Bay National Estuary Project grant written with Becky Houck and Linda Fergusson-Kolmes; Invertebrate Faunal Survey and Preparation of Reference Specimens for Tillamook Bay.
- Cooperating Scientist on \$110,000 USDA competitive research grant written with M. Villani; Direct and Indirect Effects of Entomopathogens on Japanese Beetle Behavior (1994-1996)
- Inducted into national education honor society, Kappa Delta Pi, University of Portland's Phi Sigma Chapter (1995)
- Program Director for \$550,000 Howard Hughes Medical Institute grant to the Department of Biology for renovation, equipment, and summer student research funding (1993-1995)
- Selected to coordinate the Biologists serving on the board of advisors of the SimCalc project, a 2.5 million dollar NSF project operating out of the University of Massachusetts at Dartmouth designed to revise the mathematics curriculum from Middle School to University levels (1993-1995)

- Listed in various editions of: Who's Who in America, Who's Who in American Education, Who's Who in the World, American Men and Women of Science, Who's Who Environmental Registry Who's Who in Science and Engineering
- Fulbright Scholar Research Grant to work at the University of Utrecht (The Netherlands) (Jan. 1991 - Aug. 1991) (25,120 Guilders)
- Recipient of annual Faculty Research Award (Hobart and William Smith Colleges, 1989-1990 academic year)
- American Council on Education Fellowship (1990-1991) (declined in order to accept Fulbright)
- Research grant from the Rohm and Haas Company to study the behavior of spider mites on discontinuous dicofol residues (1990-1991, 1993-1994) (\$5,000 per year)
- Research funding from a Rohm and Haas grant awarded to T.J. Dennehy (summer 1990, 1992, 1993)
- President of Hobart and William Smith Colleges Chapter, Phi Beta Kappa (1989-1990)
- Atkinson Fund Research Grant (1989)
- Hewlett and Mellon Foundation Research Grant (1988, 1986)
- Junior Leave funded by Hewlett and Mellon Foundation Grant monies, University College, Cardiff (summer and fall, 1987)
- Postdoctoral Research Funds from Canadian N.S.E.R.C. monies (for study at Simon Fraser University, summer 1985)
- Elected to Sigma Xi (1985)
- Dean's Fellow (University of Wisconsin-Madison, 1983-84) (\$8,000)
- Nominated for University-Wide Excellence in Teaching Award for Graduate Students by Department of Zoology (University of Wisconsin-Madison, 1983)
- Davis Summer Fellowships (Department of Zoology, University of Wisconsin-Madison, 1982, 1980)
- Graduate School Fellowship (University of Wisconsin-Madison, 1977-1978) (\$8,000)
- Wisconsin Alumni Research Foundation Fellowship (University of Wisconsin-Madison, 1976-1977) (\$8,000)
- Ohio University President's Honor Award (1976, 1975, 1974)
- Elected to Phi Beta Kappa (Ohio University, 1976)
- Dean's List (Ohio University, 1976, 1975, 1974, 1973)

Research Presentations:

College Theology Society, 58th Annual Convention, St. Mary's University of Texas, May 2012, Environmental Science and Theology in Dialogue, a Model for Interdisciplinary Teaching, or: Are Theologians Behind on the Technology Curve?

- Association for Environmental Studies and Science, Annual Meeting, Santa Clara University, June 2012, Toxic water, Toxic Fish, and Tribal Communities (with Russell Butkus)
- Association for Environmental Studies and Science, Annual Meeting, Santa Clara University, June 2012, Strategic Interdisciplinarity: Theology, Environmental Science, and Current Environmental Issues (with Russell Butkus)
- Oregon Epidemiologists' Forum, Portland, OR, March 2012, Bisphenol-A (BPA) Endocrine Disruptors and the Precautionary Principle (with Greg Hill)
- 4th Annual Northwest Environmental Health Conference, Portland, OR, February 2012, Water Quality Standards, Fish Consumption, and Vulnerable Populations in Oregon: A Scientific and Policy Analysis (with Russell Butkus)
- Department of Ecology, Evolution & Environmental Biology Seminar at Columbia University, New York, October, 2011, Model Assumptions, Environmental Regulations, Fish, and Ethics
- Resilience 2011, Arizona State University, March 2011, Adaptation and Transformation in the Columbia River Basin (with Greg Hill)
- Oregon Chapter of the American Fisheries Society, Annual Meeting, February 2011.
Temperature Threshold Monitoring of Salmonid Habitat in Four Clear-Water Upper Tributaries of the Sandy River (with Nathan Banet, Ron Wasowski, and David Alexander)
- National Science Foundation HSD Grantees conference, September 2010, Decision Support Systems and Multi-Stakeholder Environmental Problem Solving: Effects on Public Participation, Equity and Power (with Gregory Hill and Rebecca McLain)
- Association for Environmental Science and Studies annual conference, October 2009, Water and the Right to Water: An Interdisciplinary Assessment and Pedagogical Praxis (with Russell Butkus and Mark Kennedy)
- Association of American Colleges and Universities, Annual Meeting, January 2009, Integrative Learning Through Interdisciplinary Teaching (with Marlene Moore, Russell Butkus, Matthew Baasten).
- Annual Meeting of the Science and Democracy Network, Kennedy School of Government, Harvard University, 2009, Uncertainty, Precaution, and Resilience. (with Hill, G., Monticino, M., Jones, E.T, and McLain, R.)

- Catholic Social Teaching and Access to Health Care, Villanova University, March 2008, Anthropogenic Environmental Toxins and Children's Health: Children's Right to a Toxin Free Environment In Light of Catholic Social teaching (with Russell Butkus) invited presentation.
- Computer Professionals for Social Responsibility, Directions and Implications of Advanced Computing Conference, UC Berkeley, 2008, Aspirational goals and incremental tools: Does forecasting exclude other frameworks for strategic planning? (with Hill, Gregory; Michael Monticino, Eric T. Jones, and Rebecca McKain)
- Sandy River Subbasin Working Group, Oregon Department of Fish and Wildlife Regional Office, November, 2007, Salmon Habitat Measurements in Four Clear-Water Upper Tributaries in the Sandy River Basin, 2006 & 2007. (with Fr. Ron Wasowski, David Alexander, Amy Card, Ingrid Hannan, Jennifer Tibbals, and Sarah Webber).
- Annual Meeting of the College Theology Society, June, 2007, Environmental Toxins and Public Health: Children's Right to a Safe Environment in Light of Catholic Social Teaching,, Dayton, Ohio (with Russell Butkus)
- Habitat Characteristics of Four Clear Water Upper Tributaries in the Sandy River basin: Habitat Measurement Comparisons and Human Health Issues, March 2007, United States Forest Service Mount Hood National Forest Headquarters, Sandy Oregon (with David Alexander, Amy Card, Sarah Webber, and Fr. Ron Wasowski)
- Economically, Ethically, and Environmentally Sustainable Entrepreneurship: A multidisciplinary approach to developing entrepreneurs and global leaders, March, 2006, National Collegiate Inventors and Innovators Alliance 10th Annual Meeting, Portland, Oregon (with Robin Anderson, Margaret Hogan, and James Male)
- Teaching Faith and Service, The Foundation of Freedom, sponsored by the University of Portland and Notre Dame University, June, 2005. Global Climate Change and the Church in the Modern World: A Sign of the Times. An Interdisciplinary Examination of a Contemporary Issue in Light of Catholic Social Teaching (with Russell Butkus)

- Ecology and the Common Good, Catholic Social Teaching and Sustainability, November 2005, Catholic Social Teaching and Ecology, Villanova University (with Russell Butkus)
- American Water Resources Association Annual Meeting, Nov. 2005, Got wild salmon? An ethical-scientific analysis of salmon recovery in California and the Cascadia bioregion (written with Russell Butkus)
- American Fisheries Society Annual Meeting, Sept. 2005, Got wild salmon? An ethical-scientific analysis of salmon recovery in California and the Cascadia bioregion (written with Russell Butkus)
- Influences of a neonicotinoid insecticide on cantaloupe plants (*Cucumis melo* L.) and *Bemisia tabaci*, 2005, Beltwide Cotton Conference (written with S. Marklund, T.A. Hauser, D. Alexander, R. Bard, T. J. Dennehy, V. Harpold, R. Nichols, and B.Degan).
- The Ethics of Salmon Recovery, March 2004, US Fish and Wildlife Service Seminar Series, Vancouver, WA (with Russell Butkus)
- A Change Agent Model for Accelerating Institutional Change, January 2004, Hawaii International Conference on Education (with Robin Anderson, written with Margaret Hogan, and James Male)
- Catholic Social Thought Across the Curriculum Conference, University of St. Thomas, October 2003, Catholic Social Thought and the Environmental Crisis (with Russell Butkus)
- Taking Advantage of New Opportunities for Environmental Sciences, Project Kaleidoscope Assembly, September 2003, Integrating Ethical Analysis and Scientific Analysis in Environmental Studies (with Russell Butkus)
- Annual Meeting of the College Theology Society, May 2003, Strategic Interdisciplinarity: A Scientific and Theological Analysis of Salmon Recovery in the Lower Columbia River Basin (with Russell Butkus)
- Pacific Northwest Region Annual Meeting, American Academy of Religion, April, 2003. Salmon Restoration in the Lower Columbia basin: a Scientific and Theological Analysis (with Russell Butkus)
- Annual Meeting of the College Theology Society, May, 2001, Theologians and Biologists in Dialogue: Can We Discover a Common Earth Ethic? (with Ami Ahern-Rindell, Mike Snow, Carol Dempsey, and Russell Butkus)
- Annual Meeting of the College Theology Society, May, 2001. The Wild and the Sacred: The Columbia River Watershed and the Meaning of Community (with Frank Fromherz, Yvonne Smith, Brian Doyle, and Maria Bowen)
- International Institute of Fisheries Economics and Trade Annual Meeting, Microbehavior and Macroresults, April, 2000. Columbia River Pastoral Letter Project (with Frank Fromherz, and Irene Martin)

- Joint Annual Meeting of the Entomological Society of America, the Societe d'entomologie du Quebec, and the Entomological Society of Canada, Dec. 2000. Influence of a chloronicotinyl insecticide on host choice and movement patterns of *Bemisia argentifolii* on canteloupe plants (*Cucumis melo* L.) (written with T.J. Dennehy, S. Marklund, A. Chapman, T. Hauser, L. Peterson, D. Alexander, and R. Bard)
- Joint Annual Meeting of the Entomological Society of America and the American Phytopathological Society, November 1998. Host choice of *Bemisia argentifolii* on cantaloupe leaves treated with the pesticide imidacloprid. (written with T.J. Dennehy, A. Chapman, T. Hauser, L. Peterson)
- Oregon Academy of Sciences Annual Meeting, Feb. 1998. The Quantitative Field Trip: diversity indices and Tillamook Bay as a long-term ecological site. (with L. Fergusson-Kolmes, B. Houck, and T. Lang)
- 20th Annual Meeting of the Pacific Estuarine Research Society, April 1997. Applying diversity indices to rocky intertidal organisms of Tillamook Bay: A Model for Teaching Biology. (with L. Fergusson-Kolmes and B. Houck)
- Reed College, Department of Biology, September 1996. Behavioral ecology at the pest-pesticide interface: studies of Twospotted Spider Mites.
- University of Portland, March 1995. Hip boots, simulated caterpillars, and contemporary issues: teaching science to non-science majors.
- Clark University, Department of Biology, February, 1995. Behavioral ecology at the pest-pesticide interface: Studies of Twospotted Spider Mites in an environmentally important ecosystem.
- Annual Meeting of the Entomological Society of America, December, 1994. The case of Dicofol and Amitraz: Behaviorally active compounds may not enhance pesticide efficacy.
- University of Northern Iowa, Department of Biology, April, 1994. Ergonomics, task efficiency, and individual specialization in honey bees (*Apis mellifera*) and stingless bees (*Melipona favosa*).
- James Madison University, Department of Biology, March, 1994. Ergonomics in two species of highly social bees.
- Annual Meeting of the Entomological Society of America, December, 1993. Division of labor and ergonomics in the stingless bee *Melipona favosa*.
- Connecticut College, Department of Biology, April 1992, Ergonomics in Social Bees.
- Annual Meeting of the Entomological Society of America, December 1992. Behavior of *Tetranychus urticae* on discontinuous pyrethroid and chlorinated hydrocarbon residues.
- International Congress on the Population Dynamics of Plant Inhabiting Mites, Amsterdam, July 1991. Induced feeding preferences in Twospotted Spider Mites.
- University of Utrecht, Vakgroep Vergelijkende Fysiologie, March 1991. Division of labor in worker honey bees.
- University of Utrecht, Vakgroep Vergelijkende Fysiologie, February 1991. Aggressive behavior in honey bees.
- Annual Meeting of the Entomological Society of America, New Orleans, December 1990. Time course of dicofol-residue avoidance in Twospotted Spider Mites.
- The University of Arizona, Center for Insect Science. April 1990. Measuring stinging tendencies of honey bees.

- Annual Meeting of the Entomological Society of America, San Antonio, December 1989.
Behavior and pesticide resistance in the Twospotted Spider Mite (*Tetranychus urticae*).
- Second International Behavioral Ecology Meeting, Simon Fraser University, October 1988.
Stinging and residual value in honey bees. (abstract published)
- New York State Agricultural Experiment Station, Department of Entomology, May, 1988. Stinging behavior and residual value in honey bees.
- University of Chicago, Department of Biology, February 1988. Patriline and Division of Labor in Honeybee Colonies.
- Annual Meeting of the British Section of the International Union for the Study of Social Insects, Queen Mary College, University of London, October 1987. Patriline and Social Behaviour in Honeybees.
- University College, Cardiff, Department of Zoology, September 1987. Environment, Patriline, and Division of Labour in Honey Bees.
- Cornell University, Department of Entomology, April 1987. Patriline and Environmental Factors in the Division of Labor Among Worker Honey Bees.
- International Behavioral Ecology Meeting, New York State Museum, October 1986. Division of Labor Among Worker Honey Bees in Demographically Manipulated Colonies. (abstract published)
- Ithaca College, Department of Biology, May 1986. The Division of labor among worker honey bees.
- Midwest Regional Meeting of the Animal Behavior Society, Central Michigan University, April, 1986. Ergonomics in Honey Bees and Other Social Hymenopterans. (abstract published)
- Midwest Regional Meeting of the Animal Behavior Society, Miami University, March 1985. An Information-Theory Analysis of Tasks in Worker Honey Bees. (abstract published)
- University of North Carolina at Charlotte, Department of Biology, March 1984. The Behavioral Ecology of Hive and Field Duties in Worker Honey Bees.
- Cornell University, Department of Entomology, October 1984. Division of Labor and Environment in Worker Honey Bees.
- Hobart and William Smith Colleges, Department of Biology, March 1984. The Division of Labor in Worker Honey Bees.
- University of Wisconsin-Madison, Department of Zoology, April 1984. Division of Labor and Environmental Factors in Worker Honey Bees.
- Annual Meeting of the Animal Behavior Society, Eastern Washington University, August 1984. Division of Labor and Environment in Worker Honey Bees (*Apis mellifera*). (abstract published)
- Midwest Regional Meeting of the Animal Behavior Society, University of Missouri, Saint-Louis, April 1983. Premating Signals of the Whirligig Beetle *Dineutes discolor*. (abstract published)
- Annual Meeting of the Animal Behavior Society, University of Tennessee, Knoxville, June 1981. Predatory Behavior of the Whirligig Beetle *Dineutes discolor*. (abstract published)

Other Presentations:

- Center for Earth Leadership presentation at Ecotrust of *Journey of the Universe*, Portland, OR, March 2012, respondent along with Todd Duncan

- Portland Community College Reads Presentation, PCC Sylvania Campus, February 2012, Toxic Water, Toxic Fish, and Social Justice
- Tishman Environment and Design Center and Milano School of International Affairs, Management, and Urban Policy, joint seminar, the New School, New York, October 2011, A Perspective on the Environmental History of Portland: the Genesis of the Urban Growth Boundary, its Unintended Social Consequences, and its Successes
- Eugene Lang College, the New School, New York, October, 2011, Alternative Energy in the Pacific Northwest, Power and People
- Education for Sustainability Greening Education Event 2010, Karlsruhe, Germany, October 2010, A Decade of Sustainability Initiatives at University of Portland.
- American Society for Environmental History annual conference, March 2010, Floating Seminar on the Willamette River (with Carl Abbott, Jorge Guadalupe, Mike Houck, and Joseph Taylor)
- University of Portland, February 2010, Stream Restoration and Catholic Social Teaching (with Russell Butkus) Given as part of the SOLV-Archdiocese of Portland-University of Portland partnership for stream restoration at Goat Island.
- University of Portland, December 2009, dialogue with Freeman Dyson, “Rethinking Science and Society” along with other panelists Rev. Tom Hosinski, C.S.C., of the UP Theology Department; Barbara Breen of the UP Physics Department; and Ami Ahern-Rindell of the UP Biology Department.
- Archdiocesan Pastoral Center, Portland, January 2009, Stream Restoration and Catholic Social Teaching (with Russell Butkus) Given as part of the SOLV-Archdiocese of Portland-University of Portland partnership for stream restoration at Goat Island.
- Salmon in the Pacific Northwest: community resource and competing values, May 2008, Anthropology Department, OSU, Anthropology 481 seminar, Natural Resources and Community Values (with Russell Butkus).
- Salmon Restoration and Catholic Social Teaching, February 2008, given at St. Pius X Parish and at the University of Portland as part of the SOLV-Archdiocese of Portland-University of Portland partnership for stream restoration at Trillium Creek (with Russell Butkus)
- Catholic Social Teaching and Climate Change, January 2008, part of the Focus the Nation day at the University of Portland (with Russell Butkus)
- Climate Change and the Common Good, A Catholic Theology for Climate Justice. November, 2006. Two workshops sponsored by the Archdiocese of Portland, St. Pius X Parish, Beaverton, and St. Mary’s Parish, Corvallis. (with Russell Butkus) invited presentation
- Geology, Plant Communities, and Salmon Population Tour of the Columbia River Gorge, June 2006, University of Portland Reunion (with Bob Butler and Michael Snow)
- The Dominican Charism and the Catholic Intellectual Tradition, Vision and Connections, a Conference at Ohio Dominican University, February 2006, Contemporary Approaches to Theological Discourse and Creative Scholarship (with Sr. Carol Dempsey and Russell Butkus) invited presentation
- The Dominican Charism and the Catholic Intellectual Tradition, Vision and Connections, a Conference at Ohio Dominican University, February 2006, Collaborative Models for Applying the catholic Intellectual Tradition for Interdisciplinary Study in Dominican Higher Education (with Russell Butkus) invited presentation

- Our Catholic Faith Series at Saint Mary's Cathedral Parish, Archdiocese of Portland, January 2006, Catholic Social Teaching and Environmental Sustainability (with Russell Butkus) invited presentation
- Laboratories for the 21st Century Conference, October 2005, A retrospective View of Swindells Hall at the University of Portland (with Daniel Danielson)
- Geoscience Department, GEO 507 Ethics Seminar, Oregon State University, May 2005, Scientific-ethical Analysis of Policy Decision for Salmon Recovery Planning in the Lower Columbia River Basin (with Russell Butkus). invited presentation
- Fisheries and Wildlife Department, seminar for FW 620 Ecological Policy, Oregon State University, May 2005, The Religious, Moral, and Ethical Dimension to Ecological Policy (with Russell Butkus) invited presentation
- Faith, Ethics and Environment, the Response of a Catholic University, 2004, Notre Dame University, Faith, Ethics and the Environment: an Interdisciplinary Perspective from the University of Portland (with Russell Butkus, Carol Dempsey, and James Male)
- Union of Concerned Scientists Roundtable on Restoring Scientific Integrity, 2004, Portland State University (with Rudi Nussbaum, professor Emeritus of Physics, PSU, Allen Solomon, Environmental Protection Agency and Oregon State University, Catherine Thomasson, PSU Professor of Internal Medicine and Board President of Oregon Physicians for Social Responsibility, Moderated by: Jan Semenza, associate professor of Community Health, PSU and OHSU) invited presentation
- Dominican Colloquium, 2004, Dominican University, In the Service of Truth, the Dominican Charism and the Catholic Intellectual Tradition: a Curricular Vision for Interdisciplinary Study (with Sr. Carol Dempsey, OP and Russell Butkus)
- Celebrating the Wonder of Creation Conference, May 2004, sponsored by the Abbott Loop Community Church, the Alaska Missionary Conference – United Methodist Church, Alaska Pacific University and Cardinal Newman Chair of Catholic Theology, Alaska Synod Evangelical Lutheran Church in America, St. Mary's Episcopal Church, Catholic Archdiocese of Anchorage, Episcopal Diocese of Alaska, Presbytery of the Yukon. Opening Keynote Address, The Stewardship of Creation: an Interdisciplinary Scientific/Theological Perspective; workshop The Columbia River Watershed, caring for Creation and the Common Good (with Russell Butkus) invited presentation
- Strategic Interdisciplinarity: A Scientific and Theological Analysis of Salmon Recovery in the Lower Columbia River Basin. June 2004, Erasmus Institute summer graduate institute seminar (with Russell Butkus).
- Lewis University Globalization Speakers Series, November 2003, Environmental Conservation, Globalization, and a Sense of Place. invited presentation
- Pacific Coast Association of Physical Plant Administrators, Annual Meeting, September 2003, Designing the Sustainable Campus (with Ian Mickelson, Heinz Rudolf, Julia Spence, and George Bandy II) invited presentation
- Taking Advantage of New Opportunities for Environmental Sciences, Project Kaleidoscope Assembly, September 2003, Sustainable Architecture: a Facility as a Living Structure for Learning and Teaching about the Environment (with Dan Danielson)
- Christ Church Parish, 2002. Environmental Ethics and the Columbia River (Part of a three part series entitled And God Created a Garden, other parts presented by Fr. Claude Pomerleau, C.S.C., PhD, and Sr. Carol Dempsey, O.P., PhD) invited presentation

- Interdisciplinary Conversation, University of Portland 2001. Theology in Conversation with Biology: Can We Discover a Common Earth Ethic (presented with Ami Ahern-Rindell, Mike Snow, Carol Dempsey, and Russ Butkus of the Departments of Theology and Biology of the University of Portland)
- Oregon Sustainability Forum, Portland, 2001. “Greening” Oregon’s campuses with Dan Williams, VP of Administration for the University of Oregon, George Pernsteiner, VP of Finance and Administration for Portland State University, and Rob Specter, VP of Finance and Administration for the University of Oregon.. invited presentation
- Western Academy of Management annual meeting, Hawaii, 2000. Entrepreneurial Sustainability (presented with Robin Anderson, School of Business Administration)
- PKAL Workshop, University of Portland, 2000. Education in the context of the local/regional environment: an interdisciplinary capstone experience in Environmental Studies (presented with James Male, School of Engineering, Univ. of Portland) invited presentation
- Western Packaging Association, Inc., Portland, 2000. Partnership in Industry and Academia. (presented with Derek Smith, Corporate Sustainability Manager at Norm Thompson) invited presentation
- United States Association for Small Businesses and Entrepreneurship/Small Business Institute Director’s Association joint annual meeting, San Antonio, 2000. Sustainable Entrepreneurship (presented with Robin Anderson and Todd Schank, School of Business Administration, University of Portland). (abstract published, USASBE/SBIDA Proceedings 2000, p 240)
- PKAL Workshop, Biosphere 2 Campus of Columbia University, 2000. An interdisciplinary capstone experience in environmental studies (presented with James Male, School of Engineering, , University of Portland) invited presentation
- International Interior Design Association, Portland, 1999. Creating a Healthy Interior Environment and Preserving our Natural Resources (presented with Dan Danielson, Soderstrom Architectural Associates) invited presentation
- American Institute of Architecture, Seattle Committee on the Environment, Seattle, 1999. Sustainable Schools – A Teaching Medium, the Interactive Laboratory Building of the University of Portland (presented with Dan Danielson, Soderstrom Architectural Associates) invited presentation
- Ecumenical Ministries of Oregon Interfaith Network for Earth Concerns, “Living Waters”, October, 1999, Columbia River Pastoral Letter. invited presentation
- PKAL Workshop, Brown University, 1999. Setting out the issues: building a multidisciplinary program in environmental studies and ENV 400 - An integrating seminar in environmental studies. (presented with James Male, School of Engineering, and Robin Anderson, School of Business Administration, University of Portland) invited presentation
- Department of Mathematics and Computer Science Colloquium, University of Portland, 1999. Information Theory and second-order Diversity Indices. invited presentation
- PKAL Workshop, Montana State University, 1998. An Interdisciplinary Capstone Experience: The Environmental Studies Program at the University of Portland. (presented with James Male, School of Engineering, University of Portland). invited presentation
- PKAL Roundtable, Facilities for the Future, St. Thomas University, Minnesota, 1998, Considering Interdisciplinary Approaches. . (presented with James Male, School of

- Engineering, and Marlene Moore, Dean of the College of Arts and Sciences, University of Portland). invited presentation
- April Dialogue of the Council on Undergraduate Research, 1997, Appropriate uses of technology in undergraduate education.
- Seven Colleges of the Willamette Valley Meeting at Linfield College, March 1997, Uses of Software to teach Environmental Science. invited presentation
- Archdiocesan science teachers training session, January 1997, Interactive software for teaching in the sciences. invited presentation
- Downtown Portland Rotary Club, March 1996, Portland's air, what's in it for you? invited presentation

Book:

Russell A. Butkus and Steven A. Kolmes, *Environmental Science and Theology in Dialogue*, 2011 (Maryknoll, NY, Orbis Press) 244 pages.

Research Publications:

- Kolmes, Steven A. (1983) Precopulatory behavior of the whirligig beetle *Dineutes discolor* (Coleoptera:Gyrinidae). J. New York Entomological Society 91 (3):273-279
- Kolmes, Steven A. (1983) Ecological and sensory aspects of predation by the whirligig beetle *Dineutes discolor* (Coleoptera:Gyrinidae). J. New York Entomological Society 91(4):405-412
- Kolmes, Steven A. (1984) A quantitative comparison of observational methodologies for studying worker honey bees. J. Apicultural Research 23:189-198
- Kolmes, Steven A. (1985) A quantitative study of the division of labour among worker honey bees. Zeitschrift fur Tierpsychologie 68:287-302
- Kolmes, Steven A. (1985) An information theory analysis of individual task specialization among worker honey bees performing hive duties. Animal Behavior 33:181-187
- Kolmes, Steven A. (1985) An ergonomic study of *Apis mellifera* (Hymenoptera Apidae). J. Kansas Entomological Society 58:413-421.
- Kolmes, Steven A. (1985) Surface vibrational cues in the precopulatory behavior of whirligig beetles. J. New York Entomological Society 93:1137-1140
- Kolmes, Steven A. (1986) Age polyethism in worker honey bees. Ethology 71:252-255
- Kolmes, Steven A. (1986) Have hymenopteran societies evolved to be ergonomically efficient? J. New York Entomological Society 94:447-457
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- Steven A. Kolmes, and Russell A. Butkus. (2006) Got Wild Salmon? An Scientific and Ethical Analysis of Salmon Recovery in California and the Cascadia Bioregion, In: *Salmon 2100 Project: The Future of Wild Pacific Salmon*, the American Fisheries Society Press, edited by Robert T. Lackey, Denise H. Lach, and Sally L. Duncan, 333-362.
- Russell A. Butkus and Steven A. Kolmes (2006) Global Climate Change and the Church in the Modern World: A Sign of the Times. An Interdisciplinary Examination of a Contemporary Issue in Light of Catholic Social Teaching. *Teaching, Faith and Service: Foundations of Freedom*, 231-252, University of Portland Press, Portland, ISBN 978-0-9817771-0-4
- Russell A. Butkus and Steven A. Kolmes (2007) Ecology and the Common Good: Sustainability and Catholic Social Teaching. The Journal of Catholic Social Thought 4:403-436.
- Russell A. Butkus and Steven A. Kolmes (2008) Theology in Ecological Perspective: an Interdisciplinary Inquiry-Based Experiment. Teaching Theology and Religion 11:42-55.
- Steven A. Kolmes (2008) The Social Feedback Loop. Environment 50: 57-58.
- Russell A. Butkus and Steven A. Kolmes. (2008) Salmon Restoration. In: *Encyclopedia of Science and Public Policy Environmental Ethics and Philosophy*, Macmillan Reference USA / Gale / Cengage Learning, 515 pp, ISBN 9780028661377.
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- Jane Emrick, John Emrick, Eban Goodstein,, Christopher Hamlin, Regina Hauser, Gregory Hill, Timothy Kautza, Chad King, James Male, Daniel Misleh, Patricia Nagle, David Olszyk, Kenneth Otto, William Purcell, Bishop Walter Sullivan, Daniel Sundseth, Cristina Vanin, Margaret Young, Archbishop John Vlazny). (2009). Sustainability, Catholic Institutions, and The Natural Step. Journal of Catholic Higher Education. 28:83-97.
- Russell A. Butkus and Steven A. Kolmes (2010) Anthropogenic Environmental Toxins and Children's Health: Children's Right to a Toxic Free Environment in Light of Catholic Social Teaching. The Journal of Catholic Social Thought 7:83-114.
- Steven A. Kolmes (2011) Greenhouse Gas Emissions, Persistent Contrails, and Commercial Aviation. p 241-256. In: Elizabeth A. Hoppe (ed) *Ethical Issues in Aviation*, Ashgate Publishing Company, Farnham, Surrey, UK.
- Steven A. Kolmes (2011) Ground-level Pollution, Invasive Species, and Emergent Diseases, p 257-266. In: Elizabeth A. Hoppe (ed) *Ethical Issues in Aviation*, Ashgate Publishing Company, Farnham, Surrey, UK.
- Hill, G., Kolmes, S., Jones, E.T., McLain, R. (in press 2010) Uncertainty, Society, and Resilience, book chapter to appear in *Transboundary River Governance in the Face of Uncertainty*, Oregon State University Press
- McLain, R., Hill, G., Kolmes, S., Jones, E.T., submitted 2009, Adaptive Ecosystem Management in a Post-Normal Science Context

Peer-Reviewed Federal and State Agency Reports:

- McElhaney, Paul, Thomas Backman, Craig Busak, Selena Heppell, Steven Kolmes, Alec Maule, Jim Myers, Dan Dawding, Dan Shively, Ashley Steel, Cleve Steward, and Tim Whitesel (2003) Willamette/Lower Columbia Pacific Salmonid Viability Criteria, National Marine Fisheries Service, Northwest Fisheries Science Center, 82 pages plus 13 appendices.
- Oregon Department of Environmental Quality, 2003. Toxics Compounds Criteria, 1999-2003 Water Quality Standards review, Draft Issue Paper, 132 pages.
- I was one of the nine scientists who comprised the Toxics technical Advisory Committee that met from 2000-2003 to prepare the scientific portion of this document, available on the www at:
<http://www.deq.state.or.us/wq/standards/WQStdsToxicPollCriteria.htm>
- McElhany, Paul, Thomas Backman, Craig Busack, Steven Kolmes, Jim Myers, Dan Rawding, Ashley Steel, Cleve Steward, Tim Whitesel, Chuck Willis (2004) Status Evaluation of Salmon and Steelhead Populations in the Willamette and Lower Columbia Basins, Willamette/Lower Columbia Rivers Technical Recovery Team, National Marine Fisheries Service, 107 pages.
- McElhaney, Paul, Craig Busak, Mark Chilcote, Steven Kolmes, Bruce McIntosh, Jim Myers, Dan Dawding, Ashley Steel, Cleve Steward, David Ward, Tim Whitesel, and Chuck Willis (2006) Revised viability criteria for Salmon and Steelhead in the Willamette and Lower Columbia Rivers, Northwest Fisheries Science Center, 118 pages plus 9 appendices.

Nontechnical Publications:

- Kolmes, Steven A. (1984) Biological Backwaters? Science 223:238
- Kolmes, Steven A. (1986) Lazy Bees? Bee Scene 2(2):10, 15
- Kolmes, Steven A. (1987) Pollen. Bee Scene 3(1):8
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- Kolmes, Steven A. (1989) Honeybees and Pollutants. Bee World 70:76-77
- Kolmes, Steven A. (1990) Measuring stinging tendencies of honey bees. American Bee Journal 130:183-184
- Kolmes, Steven A. (1993) An Oversimplification. The Scientist March 22:12.
- Kolmes, Steven A. (1997) Technology and the Internet in Undergraduate Research: Not Just Another Pretty Diode. Council on Undergraduate Research Quarterly 17:114-115.
- Kolmes, Steven A. (1997) Undergraduate Research Environments and the Global Environment. Council on Undergraduate Research Quarterly 18:7-8.
- Kolmes, Steven A. (1997) "Virtual Voyages: Darwin and the Beagle, Science 191 Portfolio Assignment." Contributor to *A Practical Guide to Course Portfolios: Thinking, Writing, Learning Across the Curriculum* by Karen Vaught-Alexander. Fairfield NJ: Pencil Point Press.
- Kolmes, Steven A. (1998) About Maps, Compasses, and Undergraduate Research. Council on Undergraduate Research Quarterly 18: 107-108.
- Parsons, Kristen and Steven A. Kolmes. (1998) Animal Rights and Undergraduate Research: A Primer for Biology Faculty. Council on Undergraduate Research Quarterly 18: 133-135.
- Kolmes, Steven A. (04/25/2001) Rule of Reason Must Prevail on LI's Pesticide Use, Newsday, Page A 30.
- Kolmes, Steven A. (2001) Columbia River Pastoral Letter Project, in Proceedings of the 2000 International Institute of Fisheries Economics and Trade annual meeting, Microbehavior and Macroresults
- Kolmes, Steven A. (09/21/2002) Bishops letter misrepresented. The Oregonian, Page B5.
- Kolmes, Steven A. (09/27/2002) Criticism of Columbia River Pastoral misrepresents bishops' views. Catholic Sentinel, Pages 5-6.
- James, Michael and Steven Kolmes (2004) Introduction, Faith and the Environment Issue, Current Issues in Catholic Higher Education 24: 1-4.
- Kolmes, Steven A. and Russell A. Butkus (2007) Science, Religion and Climate Change. Science 316:540-542.
- Kolmes, Steven A. (2008) Food, Land Use, and Biofuels. Science E-letters (25 March, 2008) <http://www.sciencemag.org/cgi/eletters/319/5867/1238>
- Kolmes, Steven A. and William Barnes (2008) Focus the Nation, Update of the Association of Catholic Colleges and Universities, Spring 2008 issue: 13-21.
- Kolmes, Steven and Robin Anderson (2009) Understanding a Barrier to Change. The Natural Step Network Newsletter, Spring 2009: 6-8.

Conferences Hosted:

- Renewing the face of the Earth: Environmental Studies at Catholic Colleges and Universities in the 21st Century, May, 1999. Co-hosted with the United States Catholic Conference, at the University of Portland.
- Environmental Education in the Context of the Regional Environment, August 2000, a Project Kaleidoscope Workshop, at the University of Portland.
- Workshop in cooperation with the National Marine Fisheries Service, and the Habitat Work Groups of the Lower Columbia/Willamette Rivers and the Puget Sound Technical Recovery Teams, November 2000.
- Habitat Delisting Criteria Workshop, Sponsored by the Lower Columbia and Willamette River Technical Recovery Team Habitat Work Group, the University of Portland, and the Sustainable Fisheries Foundation, March 2002.
- 10th Annual Student Watershed Research Summit, part of the Saturday Academy, co-hosted with Mike Snow, May 2002, University of Portland.
- The Social and Historical Context of Environmental Issues, Past, Present, and Future. An Erasmus Institute summer graduate institute, co-hosted and taught with Christopher Hamlin of the University of Notre Dame History Department, June 2004.
- Education for Sustainability Western Network National Conference on Sustainability in Higher Education, October, 2004. Co-hosted with the Education for Sustainability Western Network, at the University of Portland.
- System Condition Four of the Natural Step and Catholic Social Teaching, March, 2007. Co-hosted with the Oregon Natural Step Network.
- Focus the Nation on Climate Change at the University of Portland, Jan, 2008 (co-hosted with Bill Barnes, Greg Hill, and others)
- April 2010 *Confluences: Water and Justice* with keynote address by Maude Barlow
- April 2011 *Food for Thought* with keynote address by Michael Pollan

Workshops and Training Sessions Attended:

- Dec., 1991. Affirmative Action. (Dr. Robert Ethridge, Director of Equal Opportunity Programs, Emory University, and President of American Association for Affirmative Action)
- Jan., 1994. Active Learning. (Dr. James Eison, Center for Teaching Enhancement, University of South Florida)
- Feb., 1994. Cooperative Learning Workshop. (Dr. Barbara Millis, Assistant Dean for Faculty Development, University of Maryland University College)
- April, 1994. Portfolio Use in Higher Education: A Primer. (Dr. Peter Seldin, Distinguished Professor of Management, Pace University; Dr. Linda Annis, Professor of Educational Psychology, Ball State University)
- Oct., 1994. Science Education: Expanding the Role of Science Departments. (Howard Hughes Medical Institute, Chevy Chase, MD)
- June, 1996. Council on Undergraduate Research, Sixth National Conference (North Carolina Central University, NC)
- June, 1996. U.S. Catholic Bishop's Conference sponsored Scholar's Consultation on Environmental Justice (St. John's University, Collegeville, MN)

- April, 1997. Council on Undergraduate Research April Dialogues (National Institute of Health, Washington, DC)
- June, 1997. Natural Step Workshop for Business, Government, and Community Leaders. (Northwest Earth Institute)
- Jul.-Aug., 1997 Oregon Collaborative for Excellence in the Preparation of Teachers, Summer 1997 Workshop (Reed College)
- Sept., 1997. M.J. Murdock Charitable Trust Private Higher Education Initiative Leadership Forum: Dialogues in the Future Tense (Portland, OR)
- Nov., 1997. Readings for the Columbia River Pastoral Letter Project (University of Portland)
- Feb., 1998. Readings for the Columbia River Pastoral Letter Project (Seattle University)
- March, 1998. Readings for the Columbia River Pastoral Letter Project (Pacific Northwest National Laboratories)
- May, 1998. Implementing the Natural Step, A Dialogue with Dr. Karl-Henrik Robert (U.S. Bancorp)
- May, 1998. Readings for the Columbia River Pastoral Letter Project (Toppenish, Yakima Nation)
- June, Nov., Steering Committee Retreat for the Columbia River Pastoral Letter Project (Spokane, Washington)
- Jan, 1999. Assessment Workshop (Dr. Edmund Napieralski, King's College)
- Sept., 1999. Science/Mathematics and the First Year Student, The Transition. Sponsored by the Seven College Deans Group of the Willamette Valley and OCEPT.
- Nov., 1999. Humanity at the Edge: Science and Religion in the 21st Century. Sponsored by Drew Theological School, the Episcopal Diocese of Newark, and the Ecumenical Roundtable on Science, Technology, & Faith (Drew University, NJ)
- Sept., 2000. Business and Sustainability in Europe: Implications for North America. Tim O'Riordan, Professor of Environmental Science, University of East Anglia, Hosted by the Oregon Natural Step Network.
- Nov., 2000. National Marine Fisheries Service Aquatic Habitat Assessment Workshop sponsored jointly by the Willamette/Lower Columbia Rivers and Puget Sound Technical Recovery Teams.
- Dec., 2000. Recovery Science Review Panel Workshop with the Willamette/Lower Columbia Rivers and Puget Sound Technical Recovery Teams, Seattle, Washington.
- April, 2001. Willamette/Lower Columbia River Technical Recovery Team Habitat Work Group Public Outreach Forum, Longview, Washington.
- April, 2001. Willamette/Lower Columbia River Technical Recovery Team Habitat Work Group Public Outreach Forum, Salem, Oregon.
- April, 2001. Oregon Arts and Sciences Summit, Oregon University System, Keiser, OR.
- Dec., 2001. Second National Conference on Science, Policy, and the Environment, co-hosted by the Smithsonian Museum of Natural History and the National Council for Science and the Environment (Smithsonian Museum of Natural History, Washington, D.C.)
- June, 2002. Collegium 2002 Summer Institute, Faith and the Intellectual Life, Fairfield University, Fairfield, CT.
- Sept. 2002. Lewis River Case Study Workshop, hosted by the Willamette/Lower Columbia River Technical Recovery Team and the Lower Columbia River Fish Recovery Board, Kelso, WA.

- Sept. 2004. Climate Impacts on Salmon Management and Recovery in the Columbia River basin, Climate Impacts Group, University of Washington.
- April, 2007. Law, Science, and the Environment. Northwestern School of Law at Lewis and Clark College, Portland, OR.
- Sept. 2011, Greening Financial Institutions, presented by The World Federation of Development Financing Institutions, The Association of Development Financing Institutions in Asia and the Pacific, and E-Tech Germany, Karlsruhe, Germany.

Other Activities:

- I served from 2005-2006 on the Willamette River Bank Design Advisory Committee for the City of Portland.
- I was one of six scientists who presented United States Senators with a petition to preserve the scientific standards of the Endangered Species Act in Washington, DC, on behalf of 5,738 biologists who signed the petition and the Union of Concerned Scientists. I have spoken on the radio about the Endangered Species Act on behalf of the Union of Concerned Scientists since then.
- I was co-editor with Michael James of the October, 2004 “Faith and the Environment” issue of Current Issues in Catholic Higher Education.
- I was a member of the Steering Committee for the Spirit of the Columbia River Pastoral letter, being prepared on behalf of the Catholic Bishops of OR, WA, ID and MT dioceses bordering the river. This three-year project began in 1997.
- I have reviewed manuscripts for the journals Animal Behaviour, the Journal of Zoology (London), the Annals of the Entomological Society of America, the Journal of the Kansas Entomological Society, the Journal of the New York Entomological Society, Bee World, Apidologie, the American Midland Naturalist, Behavioral Ecology and Sociobiology, The UMAP Journal, Insectes Sociaux, the Journal of Insect Science, and the Journal of Apicultural Research. I have also reviewed research proposals for the National Science Foundation Program in Integrative Biology and Neuroscience.
- I served from 1990-1992 as an Associate Editor of the Journal of Apicultural Research, published by the International Bee Research Association.