

David W. Orr

Paul Sears Distinguished Professor, Environmental Studies and Politics Emeritus

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Office: Adam J. Lewis Center for Environmental Studies, 122 Elm St.

Biography: Paul Sears Distinguished Professor of Environmental Studies & Politics, Emeritus at Oberlin College. **Author** of eight books, including *Dangerous Years: Climate Change, the Long Emergency, and the Way Forward* (Yale, 2016) and *Down to the Wire: Confronting Climate Collapse* (Oxford, 2009) and co-editor of three others, and over 220 articles, reviews, book chapters, and professional publications. In the past twenty-five years he has served as a board member or adviser to ten foundations and on the Boards of many organizations including the Rocky Mountain Institute, Bioneers, and the Aldo Leopold Foundation. He is currently a Trustee of the Alliance for Sustainable Colorado and the Children and Nature Network. He has been awarded eight honorary degrees and a dozen other awards including a Lyndhurst Prize, a National Achievement Award from the National Wildlife Federation, leadership awards from the U.S. Green Building Council (2014) and from Second Nature (2012), and a lifetime achievement award from Green Energy Ohio. He has lectured at hundreds of colleges and universities throughout the U.S., Europe, Latin America, and Asia. He headed the effort to design, fund, and build the Adam Joseph Lewis Center, which was named by an **AIA** panel in 2010 as “the most important green building of the past thirty years,” as “one of thirty milestone buildings of the twentieth century” by the **U.S. Department of Energy**, and as one of “52 game-changing buildings of the past 170 years” by the editors of ***Building Design + Construction*** in January, 2016. He was instrumental in the making of the Peter B. Lewis Gateway Center. He is the founder and Chair of the Board of the Oberlin Project and a founding editor of the journal *Solutions*.

My work is at the intersection of environment policy, politics, climate change, ecological design, and education I was the co-organizer of “The Atlanta Environmental Symposium” (1973 and 1974), a City-wide forum which addressed regional issues of growth and land-use co-sponsored by then Governor Jimmy Carter. I was the co-founder of the Meadowcreek Project [501(c) (3)] in Arkansas that in the 1980s helped among other things to launch the green campus movement, hosted the first conference for bankers and climate scientists (co-sponsored with Gov. Bill Clinton) in 1988, and organized and hosted conferences for major foundations on the emerging agenda of sustainability. As a faculty member of Oberlin College I organized and raised funding for the Adam Joseph Lewis Center for Environmental Studies—the first solar-powered, zero-discharge, green building on a U.S. college campus. It was selected as “one of fifty-two game-changing buildings of the past one-hundred and seventy years” by *Construction Design and Building Magazine* in January, 2016, and as one of thirty “milestone buildings of the 20th Century by the U.S. Department of Energy. The story is told in *Design on the Edge* (MIT Press, 2005). As an employee of the Lewis

Foundation, I helped launch “The President’s Climate Action Project” in 2008 to develop a one-hundred day climate plan for President Obama. In collaboration with Robert Costanza, I was a founder of the journal *Solutions*. In my present position as Counselor to the President of Oberlin College, I organized and raised funds for “The Oberlin Project” aimed to improve the resilience, economic development, and sustainability of Oberlin, OH. And recently, as Counselor to the President, I played a significant role in the effort to design, fund, and build the Gateway Center, a platinum-rated hotel and conference center that opened in May, 2016. These and related endeavors across disciplines and have challenged me to combine academic work with professional fields including architecture, agriculture, urban planning, economic development, public policy, fund-raising, and energy technology.

Education:

B.A. Westminster College, 1965

M.A., History, Michigan State University, 1966

Ph.D., International Relations, University of Pennsylvania, 1972

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Awards/Honors:

2016: Lifetime Achievement Award, Green Energy Ohio
2014-Leadership Award (NGO Sector), US Green Building Council
2014-Doctor of Humanities, Augsburg College,
2014-2015, Steven A. Minter Fellow, the Cleveland Foundation
2014-Sheikh Zayed Memorial Lecture, Abu Dhabi (UAE), February 10, 2014.
2013-President’s Lecture, Oberlin College,
2013-“David W. Orr” Chair named in Environmental Studies Program
2013-Kalil Fellow, Parsons, the New School for Design
2012- Visionary Leadership Award, Second Nature
2011-Honorary Doctor of Science, State University of New York, Binghamton
2010-Pioneer Award for “contributions to sustainability literature,” Santa Monica Public Library
2010-Honorary Doctor of Humanities, Westminster College (PA)
2009-Commencement Speaker, Department of Architecture, Washington University
2009-Honorary Doctor of Science, Furman University
2008-Commencement speaker, School of Natural Resources, University of California-Berkeley
2008-Commencement speaker, Nicholas School, Duke University
2007-Visiting Scholar, James Madison University
2007-Commencement speaker, School of Design, University of Pennsylvania
2007-Global Green Millennium Award
2006-Honorary Degree in Sustainable Landscape Planning, Conway School of Landscape Design
2006-Walker Ames Visiting Scholar, The Graduate School, University of Washington
2005-Bracken Fellow, Penn State University, 2005
2005-2011-James Marsh Professor at large, University of Vermont
2005-Alumni Citation Award, Westminster College
2005-Norman Durham Award, Oklahoma State University, 2005
2004-“Environmental Champion,” *Interiors & Sources Magazine*
2002-Bioneers Award
2002-President’s Award, New Jersey Partnership for Sustainability
2002-Doctorate of Humane Letters, Ball State University, May

2001-Doctorate of Humane Letters, Green Mountain College (VT).
2001-Cited in American Environmental Leaders: From Colonial Times to the Present.
2000-Citation, General Assembly of Connecticut in recognition of "vision, dedication, and personal passion in promoting the principles of sustainability."
2000, "One of those Who will Shape our Lives," *Cleveland Plain Dealer* (January 1, 2000)
1998-Research Status, Oberlin College, 1998-1999.
1996-Distinguished Scholar, Westminster College (Salt Lake City)
1995-Distinguished Scholar, Dept. of Architecture, Ball State University
1994-Benton H. Box Award/George Hartzog Environmental Leadership Award, Clemson University
1994-Schumacher Lecture, Bristol, England
1993-National Conservation Achievement Award, National Wildlife Federation
1992-Lyndhurst Prize awarded by the Lyndhurst Foundation "to recognize the educational, cultural, and charitable activities of particular individuals of exceptional talent, character, and moral vision."
1990 Doctorate of Humane Letters, awarded by Arkansas College.

Related Activities:

Trustee, WorldWatch Institute, 2012-2017
Trustee, Bioneers 2008 to 2016
Advisory Board, USGBC Green Schools
Heinz Foundation Award Jury, 2012
2009-Advisory Council, Clinton Foundation Climate+
Co-editor, *Solutions: the Journal*
Board, Alliance for a Sustainable Colorado
Board, Center for Ecological Literacy, Berkeley
Board, Center for Sustainability Education, Florida Gulf Coast Univ.
Trustee, Rocky Mountain Institute, Snowmass, CO, 2002-2009
Trustee, Aldo Leopold Foundation 2000-2008
Sierra Club Foundation, Exec. Director's Circle, National Advisory Council
WorldWatch Institute, Education Advisory Committee
Trustee, Education Foundation of America, 1992-2002
Trustee, Compton Foundation (Menlo Park) 1996-2002.
Trustee, Jessie Smith Noyes Foundation (NY) 1990-1996
Trustee, Annenberg (Foundation) Rural Challenge 1995-97
Advisory Committee, Luce Foundation Environmental Program, 2000-2004
Pew Scholars Program Advisory Committee 1990-1993
Editorial Board, *Bulletin of Science, Technology, and Society* (Sage),
Advisory Board, *Environmental Practice*

Research and Teaching Interests:

Environment, Energy, Population, Sustainability, Resilience, Politics, and Policy

Publications: books

Dangerous Years: Climate Change, the Long Emergency, and the Way Forward. (New Haven: Yale University Press, 2016).

Hope is an Imperative: the Essential David Orr. Washington: Island Press, 2010.

Down to the Wire: Confronting Climate Collapse. (Oxford University Press, 2009)

Design on the Edge: The Making of a High Performance Building (MIT Press, 2006).

The Last Refuge: Patriotism, Politics, and the Environment in an Age of Terror (Washington: Island Press, 2004). Expanded paperback edition, 2005.s

The Nature of Design: Ecology, Culture, and Human Intention (Oxford University Press: 2002/2012).

Earth in Mind: Essays on Education, Environment, and the Human Prospect (Island Press, 1994). Tenth Anniversary edition, expanded, summer, 2004.

Ecological Literacy and the Transition to a Postmodern World (State University of New York Press, 1992).

Co-editor with Jules Pretty et al., Sage Handbook of Environment and Society (Beverly Hills, Sage Publications, 2007).

The Campus and Environmental Responsibility, edited with David Eagan (San Francisco: Jossey-Bass, 1992).

The Global Predicament: Ecological Perspectives on World Order co-editor and contributor with Marvin Soroos (Chapel Hill: University of North Carolina Press, 1979).

Publications: articles, book chapters, reviews, introductions (205):

"Afterword," Rebecca Young, Confronting Climate Crisis: Reading Our Way Forward. Lexington Books, 2108.

"Nature's Heroes," a review of Larry Nielsen, Nature's Allies, *Ecology* (2017)

"Republican Climate Policy," *The American Prospect*, March, 2017.

Forward to State of the World: 2017. Washington: Island Press, 2017.

Forward to Robert Jickling and Stephen Sterling (eds), Post-Sustainability and Environmental Education, London: Palgrave-McMillan, 2017.

"Afterward" to, Peter Corcoran, et.al., (eds), Envisioning futures for environmental and sustainability education. Amsterdam: Wageningen, 2017.

Forward to Richard Jurin, Clay Shoenfeld, and John Disinger, Environmental Worldviews: An American Historic Perspective. Dubuque, IO: Kendall-Hunt, 2017.

"The Political Economy of Design," Introduction, Routledge Handbook of Design. London: Routledge, 2017.

"Introduction" to Daniel Christian Wahl, Designing Regenerative Cultures. Axminster, U.K.: Triarchy Press, 2016.

"Introduction," to Ben Haggard and Pamela Mang, Regenerative Development. New York: John Wiley, 2016.

"Introduction," to Joseph Fiksel, Resilient by Design: Creating Businesses that adapt and flourish in a Changing World. Washington, D.C.: Island Press, 2015.

"The Life Required: Political Economy in the Long Emergency," in Stanislav Shmelev (ed), The Green Economy Reader: Lectures in Ecology, Economics, and Sustainability. London: Springer, 2016.

"Resilience," *Solutions*. (June, 2014), *Solutions*.

"Systems Thinking and the Future of Cities," *Solutions* (February, 2014)

"Introduction: The Oberlin Project," *Solutions* (February, 2014).

"Seeing Through a Glass Darkly," (*Solutions*, February, 2014).

Forward, Linda Grashoff, They Breathe Iron. (forthcoming 2014).

Forward, State of the World: 2014. Washington, D.C.: Island Press, 2014.

"On Resilience," Resilience Vol. 1 no. 1 (January, 2014).

Forward, David Hicks, Educating for Hope in Troubled Times. London: 2014.

Forward, Hillary Brown, Next Generation Infrastructure. Washington, DC: Island Press, 2014.

Foreward, Teaching Sustainability: Perspectives from the Humanities and Social Sciences. Wendy Boring (ed). Lubbock: Texas A & M Press, 2013.

Foreward, Lyle Estill, Small Stories, Big Changes. Gabriola Island: New Society Publishers, 2013.

"Resilience in a Black Swan World," *Solutions*, (2014).

"Ecological Design," in Richard Malloy, et.al., Design with The Desert. Boca Raton FL: CRC Press, 2013.

"Governance in the Long Emergency," State of the World 2013. New York: Norton, 2013.

"Avoiding the Perfect Storm," *Solutions* (June, 2012).

"It's all Alive, It's all Connected," Forward to Kenny Ausubel, Dreaming the Future (Chelsea Green, 2012)

Forward to Charles Kibbert, Sustainable Construction 3rd edition (New York: Wiley, 2012).

"Security by Design" Editor's Introduction to *Solutions* (January, 2012).

Review of Austin Troy, The Hungry City. *Nature*, January, 2012.

"What do We Stand For Now?" *Oberlin Alumni Magazine* (November, 2011)

"National Security and Sustainability," *Journal of Environmental Studies and Science*. Volume: 1: no. 1 (January, 2011).

"Two Views of our Planet's Future," *Nature* Vol 464 (29 April, 2010) pp. 1273-1274.

"What is Higher Education For Now?," State of the World: 2010. New York: Norton, 2010.

"Retrospect & Prospect: The Unbearable Lightness of Conservation," *Conservation Biology* (October, 2009).

"Baggage: the case for climate mitigation," *Conservation Biology*, (August, 2009).

"Shelf-Life," *Conservation Biology* (April, 2009).

"Introduction," Bruce Mau (ed), The Third Teacher. (Canada)

"Foreword," Ecotherapy: Healing with Nature in Mind, San Francisco: Sierra Club Books, 2009

"Introduction" to Brian Sinclair (ed), Campus Design + Planning: Culture, Context, and the Pursuit of Sustainability. Ontario: Canadian Green Building Council, 2008.

"Land Use and Climate Change," *Conservation Biology*, (December, 2008)

"The Psychology of Survival," *Conservation Biology* (August, 2008)

"Gratitude," *Resurgence* (2008)

"Ecological Systems Thinking," in Sven Jorgensen and Brian Fath (eds), Encyclopedia of Ecology. Oxford: Elsevier, 2008.

"Hope in a Hotter Time," *Conservation Biology* (December, 2007); reprinted multiple times

"One Hundred Days of Climate Action," *Conservation Biology* (August, 2007).

"Place-Making" An introduction to Daniel Williams, Sustainable Design, 2007.

High resolution in an age of High Consequences." Introduction to Hi Res Rhode Island School of Design Graduate Student Alliance & RespondDesign (2007).

"Introduction," Lynn Margulis (ed), Dwelling in Nature: The Legacy of Ian McHarg, Princeton: Princeton Architectural Press, 2007.

"Ecological Design and Education," in Pretty, et al., Sage Handbook of Environment and Society. Beverly Hills: Sage Publications, 2007.

"Architecture, Ecological Design, and Human Ecology," in Kim Tanzer and Rafael Longoria (eds) The Green Braid: Towards an Architecture of Ecology, Economy, and Equity (London: Routledge Press, 2007).

"The Extinction of Experience," with Robert Pyle, in Stephen Kellert et al. (eds), Biophilic Design (Wiley, 2007).

"The Carbon Connection," *Conservation Biology* (April, 2007).

"The Trial," *Conservation Biology* (December, 2006).

"A Meditation on Building," Cover story in the *Chronicle Review* section of the *Chronicle of Higher Education*, (October 20, 2006).

"The Dirt on Coal" a review of Lost Mountain by Erik Reece, *American Scientist* November/December, 2006.

"Framing Sustainability," *Conservation Biology* (April, 2006).

"A reply," *Conservation Biology*, (December, 2005).

"Free Marketeers on the Edge," *Conservation Biology* (August, 2005).

"Death and Resurrection: The Future of the Environmental Movement," *Conservation Biology* (August, 2005).

"Ecological Literacy," Earthscan Reader in Sustainable Agriculture. Jules Pretty (ed). Reprinted from Ecological Literacy (SUNY, 1992).

"The Dangers of Education," *Independent School* (Spring, 2005). Excerpts from Earth in Mind (Island Press, 1994).

"Foreword" To Andres Edwards, The Sustainability Revolution. (New Society Publishers, 2005).

"Armageddon v. Extinction" *Conservation Biology* (March, 2005).

"Foreword," Nancy Jack Todd, A Safe and Sustainable World: The Promise of Ecological Design. Washington: Island Press, 2005.

"Orr's Laws," *Conservation Biology* (December, 2004).

"The Hour Before the Dawn," (reprinted from The Last Refuge) *Yes: A Journal of Positive Futures* (Fall, 2004).

"The Learning Curve," *Resurgence*, (September/October, 2004).

"The Corruption [and Redemption] of Science," *Conservation Biology* (August, 2004).

"Hope in Hard Times," *Conservation Biology* (April, 2004).

"The Law of the Land," *Orion Magazine* (January/February, 2004).

"The Constitution of Nature," *Conservation Biology* (December, 2003).

"Diversity," *Conservation Biology* (2003).

"The Costs and Benefits of Pursuing an Environmentally Sustainable Campus" (UGH, their title) *Trusteeship* (November, 2003).

"Walking North on a Southbound Train," *Conservation Biology*, (2003).

"Can Colleges Learn: The Making of the Adam Joseph Lewis Center at Oberlin College," in Peggy Barlett and Geoff Chase (eds), Strategies for Sustainability: Stories from the Ivory Tower. MIT Press, 2003.

"The Uses of Prophecy: Wendell Berry and the Future of Agrarianism," in Norman Wirzba (ed), The Essential Agrarian Reader, University of Kentucky Press, 2003.

"Angels of our Better Nature: Ecological Design and Organizational Learning" *Harvard Design Magazine* (2003).

"Planning to Learn," *Planning: Journal of the Society of College and University Planners* (March-May, 2002).

"A World of Wounds," *Context* (Fall, 2002).

"Four Challenges of Sustainability," *Conservation Biology* (October, 2002).

"Educating Our Leaders" *The Ecologist* (September, 2002).

"The Labors of Sisyphus," *Conservation Biology* (August, 2002).

"The Events of 9-11: A View from the Margin," *Conservation Biology* (February, 2002),

"Leverage," *Conservation Biology* (December, 2001).

"Rewriting the Ten Commandments of American Politics," *Conservation Biology* (August, 2001).

"A Literature of Redemption," *Conservation Biology* (April, 2001).

"The Urban-Agrarian Mind" in Eric Freyfogle (ed), A Great and Insistent Reality: A Reader on the New Agrarianism. Washington: Island Press, 2001.

"The Political Economy of Childhood" in Kellert and Kahn (eds), Children and Nature: Theoretical and Scientific Foundations. Cambridge: MIT Press, 2002.

"Loving Children: A Design Problem" *Designer/Builder*

"Introduction" to Bart Johnson (ed), Toward Landscape Realism. Washington: Island Press.

"Ideasclerosis (part two)", *Conservation Biology* (December, 2000).

"Ideasclerosis," *Conservation Biology* (August, 2000).

"2020: A Proposal," *Conservation Biology* (April, 2000); reprinted in *Chronicle of Higher Education* (2000).

"Education, Careers, Callings: The Practice of Conservation Biology," *Conservation Biology* (December, 1999).

"The Not So Great Wilderness Debate . . . Again," *Wild Earth* (Summer, 1999).

"Verbicide" *Conservation Biology* (August, 1999); reprinted in *Designer/Builder* (Spring, 2000); *Utne Reader* (July-August, 2000); *American Educator* (Winter 2000-2001); *Resurgence* (UK), January, 2015.

"2020: A Proposal," *Conservation Biology* (April, 2000); reprinted in *Chronicle of Higher Education* (2000).

"Education, Careers, Callings: The Practice of Conservation Biology," *Conservation Biology* (December, 1999).

"The Not So Great Wilderness Debate . . . Again," *Wild Earth* (Summer, 1999).

"The Ecology of Giving and Consuming," in Roger Rosenblatt (ed), Consumption (Washington: Island Press, 1999).

"The Architecture of Science," *Conservation Biology* (April, 1999). Reprinted in *Designer/Builder* (September, 1999).

"Breaking Ground," *Yes, A Journal of Positive Futures* (Winter, 1998-99).

"The Limits of Nature and the Educational Nature of Limits," *Conservation Biology*. June, 1998.

"So That All the Other Struggles Might Go On," *Wild Duck Review*, Spring/Summer, 1998.

"What is Education For? Aldo Leopold on Education," in Curt Meine (ed) . . . (Madison: University of Wisconsin Press, 1998).

"Introduction," to David Beach, The Greater Cleveland Environment Book. (Cleveland: EcoCity Cleveland, 1998).

"Speed," *Conservation Biology* (February, 1998); reprinted in *Annals of Earth; Resurgence* (January/February, 1999); and in Peter Forbes et.al. (eds), Our Land, Ourselves. (San Francisco: Trust for Public Land, 1999).

"Introduction" to Robert Herendeen, Environmental Numeracy: Quantitative Analysis of Environmental Issues. (New York: John Wiley, 1998).

"Reassembling the Pieces," in Greg Smith and Dilafruz Williams (eds) Ecological Education in Action (State University of New York Press, forthcoming, 1998); reprinted in Steven Glazer (ed), The Heart of Learning. New York: Jeremy Tarcher, 1999; *Orion Afield* (Spring, 1999).

"Comment" in *Sierra Magazine* (November, 1997).

"Architecture as Pedagogy II," *Conservation Biology* (June, 1997); reprinted in Charles Kibert (ed), Reshaping the Built Environment (Washington: Island Press, 1999).

Review of Betrayal of Science and Reason by Paul and Anne Ehrlich in *Climatic Change* (Summer, 1997).

"Environmental Literacy: Education as if the Earth Mattered" in Hildegard Hannum (ed), People Land, and Community (Yale University Press, 1997).

"Reruralizing Education," in Jackson, W., and Vitek, W. (eds), Rooted in the Land (New Haven: Yale University Press, 1996).

"Slow Knowledge," *Conservation Biology* (June, 1996); reprinted in *Resurgence* (U.K.) 1996; *Annals of Earth* (1996), and *Ode* (Holland) 1997; *Designer/Builder: A Journal of the Human Environment*, Volume 4/ no. 8 (December, 1997); Michael McKinney and Parri Shariff (eds) Outlooks: Readings for Environmental Literacy. Sudbury (MA): Jones and Bartlett, 1997.

"Virtual Diversity," *Conservation Biology* (February, 1996).

"None So Blind: The Problem of Ecological Denial," with David Ehrenfeld, *Conservation Biology* (October, 1995); reprinted in the National Outdoor Leadership Newsletter (December, 1995); Judith Scherff (ed), The Piracy of America. (Atlanta: Clarity Press, 1999).

"Denial," A Review of A Moment on the Earth by Gregg Easterbrook, in *Natural History*, August, 1995; reprinted in *Dissent* (Fall, 1995).

"The Future of Higher Education," *Change Magazine* (May/June, 1995).

"The End of Education," *Resurgence* (U.K.) 1995.

"Reinventing Higher Education" in Karakashian, S. and Collett, J. (eds), Greening the Curriculum: A Guide to Environmental Studies in the Liberal Arts. (Washington: Island Press, 1995).

"Ecological Literacy," in Dan Chiras (ed), Voices of the Earth: Selections from America's Best Environmental Books, (Boulder: Johnson Publishing Co., 1995).

"A World that Takes the Environment Seriously," chapter in Richard L. Knight and Sara Bates (eds) A New Century for Natural Resources Management (Island Press, 1995).

"Environmental Education," in Robert Paehlke (ed), Encyclopedia of Conservation and Environmentism. New York: Garland, 1995.

"Conservation and Conservatism," *Conservation Biology*, (February, 1995). Reprinted in *Earth Island Journal* (fall, 1995), *Environmental Network News* (May/June, 1996), *Resurgence* (September/October, 1995); *Real World* (Summer, 1995).

"Ecological Intelligence," Postscript in *Trends in Ecology & Evolution*, December, 1994 (9:12).

"Twine in the Baler," *Conservation Biology*, (December, 1994).

"The Effective Shape of Our Future" *Conservation Biology* (September, 1994); reprinted in *The Ecologist* 29:1 (January/February, 1999).

Review of Martin Lewis, Green Delusions in *Environmental Ethics*, Fall, 1994.

"Technological Fundamentalism," *Conservation Biology* (June, 1994). Reprinted, *The Ecologist* 28:6 (November/December, 1998); *HopeDance*, May/June 1999 (No. 16).

"Professionalization and the Human Prospect," *Conservation Biology* (March, 1994). Reprinted in David Ehrenfeld (ed) Readings from Conservation Biology (Blackwell, 1995); *Civic Arts Review*, Volume 10, no. 2 (Fall, 1997).

"Educating a Constituency for the Long Haul," *Conservation Biology* (December, 1993).

"Love it or Lose it: The Coming Biophilia Revolution," in Steven R. Kellert and Edward O. Wilson (eds) The Biophilia Hypothesis (Washington: Island Press, 1993); reprinted in *Orion Nature Quarterly* (December, 1993); *Earth Island Journal*, (1994).

"Trees and Forests," *Conservation Biology* (September, 1993).

"The Problem Of Education," *Forum for Applied Research and Public Policy* (1993).

"Greening of Education," *Resurgence*, 1993; reprinted in The New Age Reader: Readings for Education in the new Millenium. (Simon & Schuster, 1999).

"The Ecological Design Arts," Sidebar in Tyler Miller, Living in the Environment Belmont: Wadsworth Publishing Co. (8th edition, 1993).

"Agriculture and Global Warming," *Agriculture, Ecosystems, and Environment*, 46 (1993).

"Liberalizing the Liberal Arts: From Dominion to Design," *Oberlin Alumni Magazine* (Fall, 1992) revised version in Gary Meffe and Ron Carrol (eds), An Introduction to Conservation Biology (Sinauer, 1994).

"Architecture as Pedagogy," *Conservation Biology* (June, 1993). Reprinted in David Ehrenfeld (ed), Readings from Conservation Biology (Blackwell, 1995); and in Joanne Guilfoil and Alan Sandler (eds) Built Environment Education in Art Education (1999); *Designer/Builder* (May, 1998)

"The Problem of Disciplines/The Discipline of Problems," *Conservation Biology* (March, 1993); reprinted in Holistic Education Review (fall, 1993); *Elmwood Quarterly* (Winter 1993-94).

"The Challenges of Sustainability," *Phytopathology* 83: 1 (January, 1993).

"For the Love of Life," *Conservation Biology*. (December, 1992). Reprinted in David Ehrenfeld (ed), Readings from Conservation Biology (Blackwell, 1995).

"The Business of Education," *Conservation Biology* (September, 1992).

"Introduction," to April Smith, Campus Ecology. Los Angeles: Living Planet Press, 1992

"Ecological Design and the Liberal Arts," *Conservation Biology* (June, 1992). Reprinted in *Designer/Builder* (November, 1997).

"Cacophony, Information, and Solitude," A review of Bill McKibben's The Age of Missing Information in *Orion* (Summer, 1992).

"The Dangers of Schooling," Chapter one in Ron Miller (ed), The Renewal of Meaning in Education (Holistic Education Press, 1993).

"The Problem of Education," in Eagan and Orr (eds) The Campus and Environmental Responsibility (San Francisco: Jossey-Bass, 1992).

"The Great Transformation," *Sierra*. One Hundredth Anniversary Issue. (May, 1992).

"Prices and the Life Exchanged: Costs of the U.S. Food System," Proceedings, Institute of Alternative Agriculture Annual Meeting (1992).

"Some Thoughts about Intelligence," *Conservation Biology* (March, 1992); Reprinted in *Appalachia* (June, 15, 1993).

"Pascal's Wager and Economics in a Hotter Time," *Conservation Biology* 6:1 (July, 1992); reprinted in *The Ecologist* (March, 1992).

"The Economics of Conservation," *Conservation Biology*, (December, 1991). Reprinted in *Surviving Together* Vol. 10, no. 4; Fall/Winter, 1992.

"The Ecological Foundations of National Security," in M. Schuman and J. Sweig (eds), The Conditions of Peace: An Inquiry (Washington: Exploratory Project on the Conditions of Peace, 1991).

"Biological Diversity, Agriculture, and the Liberal Arts," *Conservation Biology* (September, 1991). Reprinted in David Ehrenfeld (ed), Readings from Conservation Biology (Blackwell, 1995).

"Ranking Colleges," *Conservation Biology* (June, 1991).

"Politics and Conservation," *Conservation Biology* (March, 1991).

"Reflections on Oil and Water," *Annals of Earth* (Fall, 1990); reprinted in *Watershed* (Winter, 1990/91); and *Earth Island Journal* (Spring, 1991); *Plan Canada: The Millennium Issue* (January, 2000).

"What is Education For?" *Annals of Earth* (Fall, 1990); reprinted in *The Environmental Professional* (1991); *The Trumpeteer* (Summer, 1991); *In Context* (1990); *Earth Ethics* (Spring, 1992); *Organic Farmer* (Fall, 1992), *Utne Reader* (January, 1994), and in Jay Waljasper (ed), Good Life: Mastering the Art of Everyday Living, 1997, (a collection of the best articles from the *Utne Reader*).

"The Virtue of Conservation Education," *Conservation Biology* (September, 1990). Reprinted in David Ehrenfeld (ed), Readings from Conservation Biology (Blackwell, 1995).

"Is Conservation Education an Oxymoron," *Conservation Biology* (June, 1990).

"The Liberal Arts, the Campus, and the Biosphere." *Harvard Educational Review*, (May, 1990) reprinted in Annals of Earth.

"Ecological literacy = Literacy + Competence," *Annals of Earth* (Spring, 1990).

"The Question of Management," *Conservation Biology* (March, 1990). Reprinted in David Ehrenfeld (ed), Readings from Conservation Biology (Blackwell, 1995).

"Pascal's (and Bush's) Wager," *Arkansas Gazette* (January 13, 1990).

"Ecological Literacy," *Conservation Biology* (December, 1989); reprinted in Matthew Cahn and Rory O'Brien, Thinking About the Environment (Armonk: M.E. Sharpe, 1996); in Judy Kirscht and Mark Schlenz (eds) Frameworks for Knowledge (Englewood Cliffs: Prentice Hall, 2001).

"To Reside is Not to Inhabit," *Breakthrough* (Summer/Fall, 1989).

"Regeneration of the University," *Conservation Biology* (fall, 1989)

"The Campus and the Biosphere," *Conservation Biology* (June, 1989). Reprinted in J. Baldwin (ed) Whole Earth Ecolog (San Francisco: Whole Earth Review, 1990).

"Ecological Literacy," *Holistic Education Review* (Fall, 1989). Condensed in *The Education Digest* (May, 1990); reprinted in New Directions in Education, Ron Miller (ed) (1991); in Carlos Hernandez and Rashmi Mayur (eds), Pedagogy of the Earth: Education for a Sustainable Future. (Mumbai, India: International Institute for Sustainable Future, 1999).

"Ethical Solvency: A Review Essay," *Foundation News* (Spring, 1990).

"The Task," *Conservation Biology*, (March, 1989).

"The Agenda of Permanence." *Arkansas Gazette*, January 19, 1989.

"Food Alchemy and Sustainable Agriculture," *Bioscience* (December, 1989); reprinted in *Annals of Earth*, Fall, 1989.

"Sustainability and Strong Democracy," *Meadowcreek Notes* (18) Winter, 1988. Reprinted in *The Land Report* (Spring, 1988).

"The Prospects for Appropriate Technology" in *Meadowcreek Notes* (12) Summer, 1986

Appropriate Technology: Past, Present, and Future (Report to the C.S. Mott Foundation co-authored with Samuel Passmore, June, 1986).

"An Overview of Sustainable Agriculture," *Meadowcreek Notes* (9) Summer, 1985.

"The Problem of Environmental Education: Some Reflections," *Meadowcreek Notes* (8) Winter, 1985.

"Place and Pedagogy," *Meadowcreek Notes* (6) Spring 1984. reprinted *Windstar Journal* 1:1 (Fall, 1986).

"Education and Sustainability," *Meadowcreek Notes* (5) Summer, 1983. reprinted in *Forum Magazine* (November, 1983).

"Democracy, Resources, and Radicalism in the 1980's," *Citizen Participation* 4:5 (Summer, 1983).

"Scarcity and American Democracy: A Comment," *Journal of Politics* (May, 1982).

"Sustainability, Education, and Paideia," *The Illinois Teacher* (1982).

"The Meadowcreek Project: A Model Sustainable Community," *The Futurist* (June, 1981); reprinted in Habitats Tomorrow (Washington: The World Future Society, 1984).

"Problems, Dilemmas, and the Energy Crisis," in Karen Gentemann (ed) Social and Political Perspectives on Energy Policy (New York: Praeger, 1981).

"The Environment: From Surplus to Scarcity--a Review" in *Human Ecology* (December, 1980).

"Energy Conservation in the Residential Sector: A Review of the Fifty States," in Raymond Burby and Mary Ellen Marsden (eds) Energy and Housing (Cambridge: Oelgeschlager, Gun, and Hain, 1980).

"Energy Policy and the Political Economy of Participation," *Journal of Politics* (November, 1979); reprinted in Irving Louis Horowitz (ed), Policies Studies Review Annual, Volume 5, (Beverly Hill: Sage, 1980).

In the Tracks of the Dinosaur: Modernization in Ecological Perspective," *Polity* (Summer, 1979).

"Perspectives on Energy Policy," *Dissent*, (Summer, 1979).

"Catastrophe and Social Order," *Human Ecology* (March, 1979).

"Leviathan, the Open Society, and the Crisis of Ecology," *Western Political Quarterly* (December, 1978).

Science, Technology, and Risk," *Georgia Journal of Science* (January, 1979).

Energy Policy and Democratic Theory," *UNC Newsletter* (Fall, 1976).

"Modernization and Conflict: The Second Order Implications of Scarcity," *International Studies Quarterly* (December, 1977).

The Wolfcreek Statement, with Herman Daly, Denis Hayes, Amory Lovins, Eugene Odum. Reprinted in the *Ecologist* (August, 1977).

"Social Risks and the Energy Option," *Sierra Club Bulletin* (May, 1977).

"The Environmental Crisis and Social Science," *Public Affairs Forum* (December, 1977).

"Arms Control and Systems Change," with J. L. Taulbee, *International Interactions* (Fall, 1976).

"Scarcity and the Future of Politics," *Alternatives: A Journal of World Policy* (June, 1976).

"Presidential Perceptions and Nuclear Weapons," *Georgia Journal of Political Science* (Spring, 1975)

Land Use and the Nation (ed. with Robert A. Leslie) Atlanta: Collegiate Press, 1974.

Invited talks: 2002-2017 (518):

Harvard University

Schumacher College (UK)

Florida Dept of Env. Protection

The Land Institute

Udall Foundation (AZ)

Sustainability Forum, Portland

Ball State University

Hope College

Xavier University (Cincinnati)

University of Rhode Island

Case Western Reserve

North Carolina State University

Washington & Jefferson College

Carson-Newman College

Haverford College

Cleveland State University

Juniata College

Oregon State University

University of Colorado

Ball State University (Commencement)

Conway School of Landscape Design
(Commencement)

Presbyterians for the Creation (Portland, OR)

Monterrey Tec (Mexico)

Omega Institute

California State University—Chico

Maryland Green Building Conference

Slippery Rock University

Williams College

University of North Carolina-Chapel Hill

Waterloo University (Canada)

29th Natural Areas Conference (Asheville)

University of Cincinnati

Smith College

Schumacher Lecture (Northampton, MA)

University of Montana

University of Georgia: Eugene Odum Lecture

Northwestern University

Gustavus Adolphus College

Southampton University (Long Is. Univ)

National Committee on Science and Environment

Island School (Bahamas)

University of Rhode Island

Hartwick College

Association of College/University Unions

Akron University

University of North Dakota

AIA-New Hampshire

Brigham Young University

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| Utah State University | Wayne State University |
| Prescott College | Reed College |
| University of Vermont | Rivers Foundation of America |
| Tri-AIA, Pittsburgh | Lakeside Association |
| University of Maryland | Warren Wilson College |
| Rutgers University, | Appalachian State Univ. |
| National Conf. on Coastal and Estuarine Restoration | Yale University |
| University of Minnesota | Harvard University |
| Seattle-AIA | St. Olaf College |
| Pacific Lutheran University | Institute for Science, Engineering, & Public Policy |
| University of Puget Sound | Portland, OR (resident Scholar, 2004) |
| Aspen-State of the World | Norwich University |
| Lakeside (OH) | University of Florida |
| University of Tennessee | University of North Florida |
| Solfest-Hopland, CA | Phillips Exeter Academy |
| West Shore C. C. | Environmental Education Council of Ohio |
| Radford University | Architalx (Portland, ME) |
| Ball State University | University of Western Colorado |
| Indiana University | Solfest, Scottsdale, AZ |
| University of Wisconsin | California Polytechnic, |
| Dane Co. Commissioners | University of California, Santa Barbara |
| Rice University | Penn State University |
| Bioneers, plenary | UC-Santa Barbara |
| Upper Canada College | Community Environmental Council, Santa Barbara |
| Russell Foundation | Westminster College, PA |
| Am. Inst. of Graphic Arts | Community Leaders' Forum, Kansas City |
| Cornell University | Yale University |
| Ithaca College | Green Ohio, Columbus, OH |
| Hamilton College | Simon Fraser University, Vancouver |
| Pomona College | Canadian Schools of Architecture, Quebec |
| St. of Pennsylvania | American Solar Energy Society, Portland |
| Rice University | Iowa State University |
| Montessori Teacher Assoc | San Diego Green 04 |
| Pittsburgh Parks Conservancy | Carleton College |
| Carnegie-Mellon University | AIA, Charlottesville |

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| LCV, New York | Plymouth University (UK) |
| State of Georgia | East-West Philosopher's Conference |
| City of Scottsdale | University of Hawaii (Shiro Amioka Lecture) |
| Elon College | Ball State University, Keynote |
| U. of Wisconsin | Penn State University, Bracken Lecture |
| St. Lawrence University | State University of NY at Buffalo |
| Randolph-Macon University | Case Western University |
| North American Association for Environmental Education | Bioneers Conference |
| Michigan State University | Kansas State University, Ekdahl Lecture |
| Furman University | Funders' Forum on Green Building |
| Riveredge Nature Center | Associated Schools of Collegiate Architecture, Keynote |
| Re Imagine, City of Portland | University of Texas |
| UC-Santa Cruz | AIA, Minneapolis |
| Am. Assoc. of Coll. And Universities | Cleveland, Marshall Law School |
| Mills College | Princeton University |
| The Lawrenceville School | University of British Columbia |
| Amherst College | Luther College |
| "Verdopolis" NYC | Trinity University (TX) |
| Nat. Assoc. of Indep. Schools | Florida Gulf Coast University |
| Sierra Club Nat. Adv. Council (Washington) | Rachel Carson Lecture, Sanibel Is. |
| Ecosa (Prescott, AZ) | UC-Santa Barbara |
| Mensa, Ltd., (Tucson) | Public Interest Environmental Law Conference University of Oregon |
| Arkansas Environmental Education Association | Michigan State University |
| Marin Academy | Cleveland Museum of Natural History |
| Davidson College | Commonwealth Club, San Francisco |
| University of Notre Dame | Villanova University |
| University of Kentucky | EnvironDesign X, Toronto |
| George Mason University | University of Vermont |
| Oklahoma State University | Yale University |
| University of Calgary | BetheChange, London, UK |
| Virginia Tech | University of Dundee |
| Ohio University | Design Workshop, Company Retreat |
| Schumacher College | Conway School of Landscape Design |
| London (UK), Human Scale Education | Vermont Law School |

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| Nat'l Conservation Training Center | Montessori Farm School-Cleveland |
| Kenyon College | NRDC et.al. Chicago |
| James Madison University | City of Chicago, Climate Planning |
| Hollins College | Lindisfarne Association-Santa Fe |
| 30 th Prairie Festival, Salina | Chatham College, consultant |
| Case Western University | Virginia Wesleyan, convocation |
| Canadian Green Building Assoc. Edmonton | Ball State U., Greening Campus, VII |
| Design Futures Council, Santa Fe | Winona State University |
| AIA/USGBC, Baltimore | York University (CA) |
| University of Vermont | Asheville, Southwings 10 th Anniversary |
| University of Washington | University of Vermont |
| Pace University | Swarthmore College |
| University of Michigan | Aspen-Yale U. Conference keynote |
| Cornell University | Green Corps-Boston |
| Oregon State University | McGill University (Montreal) |
| University of Kansas | Chicago-Humanities Festival |
| Georgetown College (KY) | Chico State University |
| National Wildlife Federation (Keynote, annual meeting) | James Madison University |
| Focus the Nation meeting in Las Vegas | Eastern Mennonite University |
| University of Rochester | Lake Ridge Academy |
| American Planning Association | Washington State University |
| University of Wisconsin-Eau Claire | University of Idaho |
| University of Wisconsin-River Falls | Arizona State University |
| Montessori Teachers Assoc. (Chicago) | St. Olaf College |
| Arizona State University | University of Pennsylvania |
| University of Pennsylvania-School of Design, Graduation speaker | Clark University |
| Cannes Film Festival, guest of Warner Bros. | University of Denver |
| Adirondack Park Meeting, facilitator | London: Schumacher College |
| Oberlin College, Baccalaureate speaker | Oxford University |
| Cannes Film Festival—press briefing | UK-Green Building |
| Adirondacks Park charette, facilitator | University of London |
| Dallas—Dean Foods, consultant | Duke University (Nicholas School commencement) |
| Rocky Mountain Biological Lab | University of California (School of Natural Resources Commencement) |
| Cranbrook Academy, AIA | Georgia State University |
| | College & University Health and Safety officers |

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| Pacific University | Rochester Institute of Technology |
| Drury University | University of Calgary |
| University of Missouri-Springfield | Washington University (Commencement) |
| Plymouth University (UK) | Slow Money Conference, Santa Fe |
| Ohio Wesleyan University | Chicago, Burnham Centennial |
| Baltimore AIA | AIA, Salt Lake City |
| Wisconsin book fair, Madison | West Coast Green, San Francisco |
| Bioneers Plenary, San Francisco | RMI Solutions, San Francisco |
| Bioneers Plenary, Boston | Patagonia, Inc., Lake Tahoe |
| University of Michigan | Bioneers, Panel |
| University of Pennsylvania | Sonoma, Leadership Conference |
| New Jersey Institute of Technology | Commonwealth Club, San Francisco |
| Natural Resources Defense Council annual retreat | Univ. of Montana, President's Lecture |
| St. Mary's University, San Antonio | SEEAL, New Bedford, MA |
| University of Toledo | Thimpau, Bhutan |
| Lake Erie Western Alliance for Sustainability | Assoc, Indep. Technical Universities |
| University of Tel Aviv | Santa Monica-Bioneers |
| Heschel Center (Israel) | National Council on Science Education |
| Union College | WorldWatch 2010 |
| Kansas State University | Stanford University |
| Selby Institute | Agnes Scott College |
| Pomona College | Prince's Trust-London |
| Whittier College | Master Builders' (Seattle) |
| Cascadia (Portland) | University of Iowa |
| Cooper Union (rededication of the Great Hall) | Clinton School (Little Rock) |
| Park Rd., Baptist Church, Charlotte, NC | Northern Arizona University |
| Furman University | Yale University (Divinity School) |
| Warren Wilson College | American Planning Association |
| Dalhousie University | Dartmouth College |
| Xavier University (Cincinnati) | Xavier University |
| University of New Mexico, Regent's Lecture | Cornell University |
| Texas Tech University | Montana State University |
| Corning Community College | Westminster College-Commencement |
| Rhode Island School of Design | Bus. Alliance for Local Economies |
| Bard College | Davidson College |

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| Durham, NC | Green Festival-LA |
| AREDAY-Aspen, CO | Council on S.E. Foundations |
| NRDC Board, Chicago | Keene State Univ—NH |
| Butler University | EcoWeek Plenary, Athens, Greece |
| Portland, OR-Eco-Districts | Miami University, (OH) |
| Williams College | Claremont McKenna |
| Tennessee Tech University | VerdeXchange, Los Angeles |
| University of Illinois | University of Florida, Gainesville |
| Kansas City-Chamber of Commerce | Edison College, Fort Myers |
| Garrison Institute | North Carolina Grantmakers Assoc. |
| NE Solar Energy Association-Keynote | Association of Two Year Colleges |
| Midwest Solar Energy Association-Keynote | Kresge Fdn Trustees |
| Lehigh University | Ball State University, Keynote |
| University of North Carolina-Greensboro | Johns Hopkins U. Advanced Physics Lab |
| Canada Green Building Council-Keynote | Shippensburg State University |
| Santa Clara University | Bowling Green State University |
| Seattle | Ohio State University |
| Union of Concerned Scientists-trustee meeting | Naropa University, commencement |
| Merck Family Foundation Trustee meeting | National Science Foundation |
| Binghamton University (NY) Commencement | Consultative Group on Biological Diversity |
| Aspen Environmental Forum (Nat'l Geographic and Aspen Institute) | Slow Living Summit, Brattleboro |
| Jessie Ball Dupont Foundation | University of Oregon, commencement |
| United Negro College Fund-DC | Aspen Environmental Forum |
| University of Dundee | Azim Premji University-Bangalore |
| Schumacher College (course) | Asian Society for Conservation Biology-Bangalore |
| AREDAY, Aspen | Chautauqua Institution, NY |
| University of Akron | AREDAY, Aspen |
| Sustainable Colorado | Case Western University, Inamori Prize Symposium |
| Oklahoma City University | University of Texas-Austin |
| Greenbuild-Toronto | Salina, Prairie Festival |
| Am Assoc. Sustainability in Higher Ed Plenary-Pittsburgh | Ohio State University |
| New York University | San Francisco-SoCap |
| Cannon Design Forum-Chicago | University of Maryland-Architecture Dept 40 th |
| Claremont, CA | Purdue University |
| | Boston, WGBH |

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| Hobart & William Smith Colleges | University of Toronto, Engineering Dept. |
| Phipps Conservatory, Pittsburgh | McGill University |
| National Academy of Sciences | Indiana University |
| University of Pennsylvania | University of North Carolina-Greensboro |
| 21 st Century Club, Cleveland | University of Tel Aviv |
| Manhattan College | Heschel Center |
| Interior Design Educators Council, Indianapolis | Kibbutzim College |
| CA Foscari, University of Venice, Italy | WorldWatch Institute-State of the World Keynote |
| Parsons School of Design, The New School, New York City | Augsburg College, Commencement address |
| Empire State College, Ernest Boyer Lecture | Cleveland City Club, noon address |
| Dickinson College | Gulf Coast Green, Keynote |
| Bucknell University | Appalachian Energy Summit, Keynote |
| George Mason University | Concordia College |
| Conference on World Affairs, U. Colorado | Majorca Is. Education summit |
| Webster University-St. Louis | Earthkeeping summit, Columbus, OH |
| Drexel University | Bioneers workshop |
| University of Wisconsin-Green Bay | Omega Institute |
| University of Kansas | Richard Jones Lecture, U. of Tasmania |
| Kenyon College | Australian Assoc. Env. Education, Keynote |
| South Carolina Coastal Conservation League, 25 th celebration | Slow Money Conference, Louisville |
| Cal State Monterrey | University of Southern California |
| Monterrey Institute | Stone Barn Conf., Pocantico Center |
| Case Western University | US-Green Building Chapter, N. CA |
| U.S. Green Building-Columbus, OH | Cleveland Foundation Board |
| World Environmental Education Conference (7) keynote, Marrakech, Morocco | Rachel Carson Lecture, Sanibel Is. |
| United Church of Christ, Plenary, Long Beach, CA | Claremont-McKenna College |
| La Universidad Iberoamericana Ciudad de Mexico | Weber State University |
| Omega Institute | University of Utah |
| AAHSHE, Nashville | Swarthmore College |
| North American Assoc. for Environmental Education, plenary | Georgetown University |
| President's Address, Oberlin College 11-8-2013 | Intermountain Summit, Logan, UT |
| Sheikh Zayed Memorial Lecture, Abu Dhabi 2-10-2014 | University of Utah |
| | St. Olaf College |
| | Concordia University, Montreal |
| | Longwood University, VA |

Association of Governing Boards
Hampshire College
Westminster College (PA)
National Conservation Training Center
Appalachian State University-Energy Summit
Ohio State University: Conversation with Tom Steyer
Aldo Leopold Center
Vassar College
Notre Dame University
Ohio State University
College of New Jersey
Sonoma State University
AASHE, Opening Keynote
NY State Teachers' Association
Siena College
Columbia Theological Seminary
NorthWest School, Seattle
Ashland University
Iowa State University
Laverne University
Cooper Union
Pontificia Universidad Católica de Chile (Santiago)
Environmental Association of Universities and Colleges, Bristol, UK
The University Financing Foundation, Atlanta
AREDAY, Snowmass, CO
National Conservation Training Center
Appalachian Energy Summit
The College of Charleston
The Land Institute-40th Prairie Festival
Princeton Day School
Lawrenceville School
Princeton University
Economic Summit, Miramichi, Nova Scotia
DendriFund Trustees, Louisville, KY
Agnes Scott College
Grinnell College
Second Nature annual mtg, Tempe, AZ
Loyola University, Chicago
SUNY-Geneseo
Goddard College
McKeever Center (PA)
Hawthorne Valley School Commencement
Appalachian State University, 2017 Energy Summit
Garden Club, USA
Colby College
Earth's Call, Santa Barbara
American Association for Teaching and Curriculum
Omega Institute