

John Todd

Research Professor & Distinguished Lecturer
Rubenstein School of Environment & Natural Resources
The Gund Institute for Ecological Economics
617 Main Street
University of Vermont,
Burlington, VT 05405

EDUCATION

The University of Michigan, Ph.D., Fisheries/Animal Behavior 1968
McGill University, M.Sc., Parasitology 1963
McGill University, B.Sc. Agriculture 1961

PROFESSIONAL

1999 to present	Research Professor & Distinguished Lecturer, The University of Vermont
1990 to present	Chairman, Todd Ecological Inc., Woods Hole, MA
1997-1999	Visiting Professor, The University of Vermont
1981 to present	Co-Founder and President, Ocean Arks International
1970- 1974	Assistant Scientist, The Woods Hole Oceanographic Institution
1969-1980	Co-Founder & President, The New Alchemy Institute
1968-70	Assistant Professor, San Diego State University

PROFESSIONAL AND HONORARY MEMBERSHIPS

A Director of The Montreal International Institute for the Environment
Fellow the Lindisfarne Association
Fellow, The Gund Institute for Ecological Economics, UVM
Member the Society of Ecological Restoration
Member the Ecological Society of America
Advisory Board of Ecological Engineering, The Journal of Ecotechnology

HONORS

2008	Won the Buckminster Fuller Challenge, a global competition for the best idea/concept to help save the planet/humanity.
2008	Honorary Degree from the Conway Graduate School of Landscape Design
2007	Named one of top one hundred visionaries of the 20 th Century by Resurgence in the UK in an anthology entitled "Visionaries of the 20 th Century".
2006	Global Visionary Award from the City of Chicago, presented by Mayor Daley.

2005 US EPA Award for his Restorer technology on Lake Punawai, Four Seasons Resort Hualai, Hawaii for the promotion of innovative ideas, addressing environmental problems and its ability to be widely replicated. An example of how business can interact positively with the environment.

2004 His work was recognized in the December “Genius Issue” of Esquire Magazine

2002 Profiled at one of top 35 inventors in INVENTING MODERN AMERICA by David Brown, MIT Press.

2000 Hero of the Planet Award, Time Magazine

2000 Honorary Doctorate, Green Mountain College

1999 Bioneers Life Time Achievement Award

1998 Charles & Anne Morrow Lindbergh Award

1997 Honorary Doctorate in Engineering, McMaster, Univ.

1996 Environmental Merit Award, The US EPA

1996 Daimler/Chrysler Award for Innovation in Design

1995 Discovery Award for Technological Innovation

1990 Teddy Roosevelt Conservation Award, Pres. Bush

1990 United Nations (FUNEP) Recognition for Contributions to the Global Environment

1987 Mendes Memorial Award, US EPA

1980 Threshold Award for Contributions to Human Knowledge

1968 Horace H. Rackham Award, Univ. of Mich. for Outstanding Ph.D. Thesis

PATENTS

1990 U.S. Patent #5087353 Solar Aquatic Waste Apparatus

1994 U.S. Patent # 5389257 Method for Treating Waste

1995 U.S. Patent # 5486291 Ecological Fluidized Bed

1996 U.S. Patent # 56618413 EFB System

RECENT TEACHING

Present Principal Advisor to two Master’s students and one Ph.D. student (Spring 2008)

2008 Ecological Design Studio NR 285/385 Ecologically Redesigning the Aiken Renovation plus Storm Water Park

2007 Ecological Design and Living Technologies NR 288/388

2007 Ecological Design Studio NR 285/385 Ecologically Redesigning the Burlington Waterfront

Ecological Design Studio NR 285/385 An Agro Park for Shelburne Farms.

2003-2006 Watershed Restoration and Ecological Development in CR. NR 285/385

2005	Ecological Design and Living Technologies. NR288/385
2005	Ecological Design Studio: The Greening of Aiken with Bob Costanza
2004-2005	NR 185&285 Costa Rica Ecological Design & Sust. Development
2004	NR 285 The Redesign Studio with Diane Gayer
2003	NR 285 Eco-village Design Seminar with R. Costanza et al.
1997- Present	NR 288 Ecological Design and Living Machines
1997-Present	NR 285 Seminar/Studio in Ecological Design & Applied Ecology

RECENT GRANTS RECEIVED

2006-2007 Grant from the Lewis Foundation to review the ecological impact of surface coal mining in Appalachia. (\$80,000).

2005-2009 The ecological restoration of mine tailings from OMYA Corporation. \$130,000 to support a Ph.D. student for four years. UVM.

2003-2008 Renewing the American Neighborhood (RAN) watershed project, US EPA First Year \$250,000. RSENR, UVM Breck Bowden, Al Macintosh, Alexey Voinov and John Todd. FY 4 \$443,000.

2001- 2003 AsiaEnvironment : Transfer of living technologies to Southern China, Phase 1- \$ 350,000-(OAI)

2001- 2002 Charles Steward Mott Foundation: Ecological Designs and Technologies to Protect and Restore Waters - \$90,000-(OAI).

2001-2002 The Jessie B. Cox Trust: Ecological Designs and Technologies to Protect and Restore New England Waters -\$30,000 (OAI)

2001-2002 The Compton Foundation: Strategies for a Sustainable Future: Ecological Design, Living Machines and Eco-Industrial Parks. \$107,000-(OAI).

2000: USDA financed Living Machine treatment of slaughter house waste pilot program, Honolulu, Hawaii. Amount: \$220,000.JHT, Principal Investigator (OAI).

2000: Compton Foundation; Living Machine conversion of organic wastes to food products. Burlington, Vt. Amount \$90,000.JHT is P.I.(OAI).

1993 –1999 U.S. EPA funded Advanced Ecologically Engineered Systems research and demonstration programs in Harwich, Ma., Frederick, Md., San Francisco, Ca., and South Burlington, Vt. Amount: \$ 6.5 million. JHT, was P.I. (OAI).

RECENT PUBLICATIONS/BOOK/REPORTS

2008: Todd, J. A Comprehensive Theory of Ecological Design: Creating Carbon Neutral and Natural Resource Based Economies. In preparation for the inaugural issue of the journal, Solutions.

2008: Todd, J. Design for a Carbon Neutral World: The Challenge of Appalachia. In press Annals of Earth.

2007: Todd, J. The Buckminster Fuller Challenge: Comprehensive Design for a Carbon Neutral World: The Challenge of Appalachia. The Buckminster Fuller Institute, 6pp. (This submission won the global competition to find “ a solution that has significant potential to solve humanities most pressing problems”).

2007: Todd, J. A NEW SHARED ECONOMY FOR APPALACHIA: An Economy Built Upon Environmental Restoration, Carbon Sequestration, Renewable Energy and Ecological Design. A Report to the Lewis Foundation 62pp.

2007: Todd, J. Living Technologies in an Age of Limits: The Promise of Ecological Design. In press, a chapter in a book edited by David Orr. Due 08.

2007: Todd, J. World Class Soils. Annals of Earth, Vol. 25:1.

2004: Todd, J. Living technologies: wedding human ingenuity to the wisdom of the wild. A chapter in “Nature’s Operating Instructions”, edited by Kenny Ausebel (Sierra Club Books).

2004: Todd J, Man Overboard: Natural and Unnatural Histories Along the Edge of the Sea. A book of essays. Not yet published.

2004 Todd, J. Guanacaste Native Forest Resoration Company: A Proposal. Annals of Earth 22 #1.

2004: Todd, J. et al. The impact of ecological design on the future of temperate waters: A review of a decade of Eco-Machine research and development and implications for future water stewardship. Report to the Charles Stewart Mott Foundation. 183pp & appendices.

2003 Todd, J. E. Brown & E. Wells. Ecological Design Applied. Ecological Engineering: 20: 421-440. (Most downloaded article in the Journal Ecological Engineering as of May, 2005.)

2002 Ecological Design: Reinventing the Future. 21st Annual E.F.Schumacher Lecture, Amherst College. 34pp. Published as booklet by the E.F. Schumacher Society 140 Jug End Road, Great Barrington, MA 01230.

2001: I Killed the White Whale. *Annals of Earth*, Vol.19 #3.

2001: Design Revolution. *Resurgence*, No 207, July/August, 2001.

BOOKS PUBLISHED

1994: *From Eco Cities to Living Machines: Ecology as the Basis of Design*, North Atlantic Press, Berkeley (with Nancy Jack Todd)

1984: *Bioshelters, Ocean Arks, City Farming: Ecology as The Basis of Design*; Sierra Club Books, San Francisco (with Nancy Jack Todd)

1981: *Reinhabiting Cities and Towns*. Planet Drum Press, San Francisco.

1980: *The Village as Solar Ecology*. New Alchemy Books, Falmouth, MA (with Nancy Jack Todd)

1980: *Tomorrow is Our Permanent Address: The Search for an Ecological Design Science as Embodied in Bioshelters*. Harper & Row, New York (with Nancy Jack Todd).

1970: *The Everlasting Universe*, Heath, Boston, MA (with Lorne Forstner).

SELECTED PAST ARTICLES

Dr. Todd has published over two hundred articles in scientific, technical and lay publications. The following is a selection to depict the range of writings.

Todd, J., 2000. Towards a post engineering perspective on wastewater treatment. *Annals of Earth*, 18(1).

Todd, J. 1999. The day the tide went out. *Annals of Earth* 18 (1).

Todd, J. 1998. Aikido Aquaculture. *Annals of Earth* 16 (2).

Todd, J. 1997. An ecological economic order. In. H. Hannum, *People, Land & Community: Collected E.F. Schumacher Society Lectures*. Yale University Press, New Haven.

Todd, J. & B. Josephson, 1996. The design of living machines for wastewater treatment. *Ecological Engineering* 6, 109-136.

Todd, J. 1996 Why Restorer Living Machines work. *Annals of Earth* 14(2).

Todd, J. 1990. The meaning of water. *Annals of Earth* 8 (3).

Todd, J. 1988. Restoring Diversity: The Search for an Economic and Social Context. In E.O. Wilson, ed. Biodiversity. National Academy Press, DC.

Todd, J. 1987. Solar Aquatics: The Newest Alchemy. *Annals of Earth* 5 (2).

Todd, J. 1986: Architecture and Biology: A Necessary Synthesis. In. S. Van der Ryn & P. Calthorpe. Sustainable Communities, Sierra Club Books, San Francisco. 139-147.

Todd, J. 1985. Ecologically Based Culture of Foods: Its systems and technology. Special publication of the Hungarian Academy of Sciences.

Todd, J. 1984: The Practice of Earth Stewardship. In. W. Jackson and W. Berry eds. Meeting the Expectations of the Land. North Point Press, San Francisco.

Todd, J. 1983. Planetary Healing. *Annals of Earth* 1(1).

Todd, J. 1979. Ocean Arks: The conceptualization of a sailing ship the Margaret Mead. *The Co-evolution Quarterly* 23 (3).

Todd, J. Technologies for a new lifestyle. In: ed. D. Meadows, Alternatives to Growth, Ballinger, New York.

Todd, J. 1978. The New Alchemists. In J. Baldwin & S. Brand, eds. Soft Technology. Penguin Books, New York & London.

Todd, J. 1977. The colonization of space. In. ed. S. Brand. Space Colonies, Penguin, New York and London.

Todd, J. & W.O. McLarney, 1974. Walton Two: A complete guide to backyard fish farming. *Journal of the New Alchemists* 2.

Todd, J., 1974. The ark. *Journal of the New Alchemists* 2.

Todd, J. 1973. The endangered tropics: A look at land use in Costa Rica. *The Journal of the New Alchemists* 1.

Todd, J. 1971. A Modest Proposal. Published originally by the New Alchemy Institute. Widely reprinted and translated.

Todd, J. 1971. The chemical languages of fishes. *Scientific American*, May.

Bardach, J.E. & J.H. Todd. 1970. Chemical communication in fishes. In. *New Advances in Chemoreception*, Appleton-Century Crofts, New York.

Todd, J.H., J. Atema & J.E. Bardach. 1967 Chemical communication in the social behavior of a fish, the yellow bullhead, (*Ictalurus natalis*). *Science*, Vol. 158 (3801).

Bardach, J. E., J.H. Todd & R. Crickmer, 1967. Orientation by taste in fish of the genus *Ictalurus*. *Science*, Vol.155 (3767).