

Summary CV for William Keepin

Name: William North Keepin, PhD
Birth data: May 9, 1951, Minneapolis, Minnesota
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Current position: Executive Director, Satyana Institute

Education: Ph.D. in applied mathematics, M.S. in mathematical physics,
M.A. in East-West psychology, B.S. in physics

Scientific accomplishments

- Published over 30 research articles in peer-reviewed scientific journals on environmental science, sustainable energy, global warming, chaos theory, and quantum physics of diatomic molecules (NB: some of these articles were published under the name Bill Keepin).
- Became a whistleblower in nuclear science policy, exposing data manipulation in a \$7 million international scientific research program at the International Institute for Applied Systems Analysis in Vienna, Austria. Published an exposé of this program in *Nature* and in *Policy Sciences*. Background story is documented in *The Cultural Creatives* by Paul Ray and Sherry Anderson (Harmony Books, 2000).
- Conducted detailed research on the feasibility and economics of a nuclear power solution to global warming, demonstrating that energy conservation strategies were seven times more cost-effective than nuclear power for displacing carbon dioxide emissions from fossil fuels (published in *Energy Policy*).
- Presented scientific testimony on global warming and sustainable energy before the U.S. House of Representatives, and the Parliaments of United Kingdom, Germany, Sweden, and the government of Australia. Radio and television appearances on CBS, NPR, BBC, and the Australian national media.
- Conducted research on solar, wind, and other renewable energy technologies and their economics and technological capabilities. Published research on ‘baseload solar power’ and future prospects for a fully renewable energy economy.
- Co-authored the founding documents for the Energy Foundation, established in San Francisco in 1991 to promote the transition to a sustainable energy future by advancing energy efficiency and renewable energy.

- Conducted scientific debate (in an exchange of letters) with Nobel Laureate Hans Bethe about the feasibility and safety of nuclear power. [Bethe received the Nobel prize in physics for his discovery of thermonuclear fusion.]
- Designed and taught graduate courses on science, ecology, and consciousness at the California Institute of Integral Studies in San Francisco, Holy Names University in Oakland, CA (with co-faculty Cynthia Brix), and Schumacher College in Totnes, England.

Selected scientific publications and book chapters

- “Inner Net of the Heart: The Fractal Nature of Consciousness,” in *Mind before Matter: Visions of a New Science of Consciousness*, T. Pfeiffer and John E. Mack, editors, O Books, UK, 2008.
- “Cleaning Up the Grid: Solar Thermal Electricity Generation Development in Australia,” *Energy Policy* **22** (4) April, 1994, pp 297-308 (co-authors: David Mills and Anthony Monger), 1994.
- “David Bohm: A Life of Dialogue Between Science and Spirit,” *Noetic Sciences Review*, pp. 10-16, Summer, 1994.
- “River of Truth: Life Work of David Bohm,” *ReVision* **16** (1), pp. 32-46, Summer, 1993.
- “Baseload Solar Power: Near-term Prospects for Load-following Solar Thermal Electricity,” *Energy Policy* (senior author: David Mills), pp. 841-57, August, 1993.
- “Toward an Ecological Psychology,” *ReVision* **14** (2), pp. 90-100, Fall, 1991.
- “Nuclear Power and Global Warming,” Chapter 13 in *Global Warming: The Greenpeace Report* (Jeremy Leggett, Ed.), pp. 295-316 and pp. 515-520, Oxford University Press, 1990.
- Response to UK Atomic Energy Authority and UK Department of Energy*, Testimony to UK House of Commons in reply to “Supplementary Memorandum by the UKAEA on the Rocky Mountain Institute Paper” in *Energy Policy Implications of the Greenhouse Effect* (HMSO, London, 1989), (second author: Gregory Kats), Rocky Mountain Institute, May 15, 1989.
- “Greenhouse Warming: Comparative Analysis of Nuclear and Efficiency Abatement Strategies,” *Energy Policy* **16** (6), pp. 538-61 (second author: Gregory Kats), December 1988.
- “Nuclear Solution to the Greenhouse Effect?” *Elmwood Newsletter* **4** (4), Winter, 1988.

“Global Warning,” letter in *Science* **241**, p. 1027 (second author: Gregory Kats), 26 August 1988.

Greenhouse Warming: Efficient Solution or Nuclear Nemesis?, Testimony to U.S. House of Representatives: Joint Hearing on Technologies for Remediating Global Warming, , Rocky Mountain Institute, June 29, 1988.

“The Roles of Models: What Can We Expect from Science?” Chapter 3 in *The Politics of Energy Forecasting*, (Thomas Baumgartner and Atle Midttun, Eds), pp. 33-57 (second author: Brian Wynne), Oxford University Press, 1987.

“Review of Global Energy and Carbon Dioxide Projections,” *Annual Review of Energy* **11**, pp. 357-92, 1986.

“Emission of Carbon Dioxide in the Atmosphere,” Chapter 2 in *the Greenhouse Effect, Climate Change, and Ecosystems* (Bert Bolin *et al.*, Eds.), pp. 35-91 (co-authors: Irving Mintzer and Lars Kristoferson), John Wiley, 1986.

“Global Energy Study,” letter in *Science* **227**, p. 838 (second author: Brian Wynne), February 22, 1985.

“Technical Analysis of IASA Energy Scenarios,” *Nature* **312**, pp. 691-95 (second author: Brian Wynne) 20/27 December, 1984. See also D. Dickson, “Global Energy Study Under Fire,” *Science* **227**, p. 34, January 4, 1985.

“A Technical Appraisal of the IASA Energy Scenarios,” *Policy Sciences* **17** (3), pp. 199-276, 1984.

Chaos in Nonlinear Dynamics: Overview and Application to Logistic Substitution Model, WP-82-86, International Institute for Applied Systems Analysis, Laxenburg, Austria, September, 1982.

“A New Functional Form for Representing Vibrational Eigenvalues of Diatomic Molecules. Application to Ionized Molecular Hydrogen Ground State,” *Journal of Chemical Physics* **70** (8), pp. 3881-83 (co-authors: A. Hashemi-Attar, C. L. Beckel, and S. A. Sonnleitner), 15 April, 1979.

Books by William Keepin

Song of the Earth: A Synthesis of the Scientific and Spiritual Worldviews, co-editor Maddy Harland (Permanent Publications, London, UK), 2012.

Women Healing Women: A Model of Hope for Oppressed Women Everywhere,
co-author Cynthia Brix, (Hohm Press, Prescott, AZ), 2009.

Divine Duality: The Power of Reconciliation between Women and Men, contributing
authors Cynthia Brix and Molly Dwyer, (Hohm Press, Prescott, AZ), 2007.