

JOHN HARTE

Curriculum vitae
July 1, 2014

PRESENT POSITION

Professor
Energy and Resources Group
and Department of Environmental Science,
Policy and Management
University of California
Berkeley, California 94720
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EDUCATION

Harvard University (B.A., June, 1961)
University of Wisconsin (Ph.D. in Physics, 1965)

PREVIOUS POSITIONS

National Science Foundation Postdoctoral Fellow, 1965-66, at Theoretical Physics Division,
CERN, Geneva, Switzerland

AEC Postdoctoral Fellow, 1966-68, at Lawrence Berkeley Laboratory, Berkeley, California

Assistant Professor of Physics, Yale University, 1968-73;
Promoted to Associate Professor, term, March, 1973

SELECTED PROFESSIONAL ACTIVITIES

Invited Participant, The National Academy of Sciences summer study on Environmental
Problems in South Florida, Summer 1969.

Invited Speaker, California State Legislature--Session on problems of Energy and Resources,
March 13, 1974.

Invited Speaker, The First International Congress of Ecology, The Hague, Netherlands,
September 1974.

Member and Chairman of the Ecosystems Impacts Resource Group of the National Academy of Sciences Committee on Nuclear and Alternative Energy Systems, 1976-1978.

Invited Speaker, International Seminar on Impacts and Risks of Energy Strategies, Stockholm, September 1978.

Invited Keynote Speaker, Fourteenth American Water Resources Conference, American Water Resources Association, Orlando, Florida, November 1978.

Invited Speaker, Symposium on Microcosms in Ecological Research, Savannah River Ecology Laboratory, November 1978.

Invited Speaker, IIASA Conference on Systems Aspects of Energy and Mineral Resources, Laxenburg, Austria, July 1979.

Member, National Academy of Sciences Committee to Review Methods in Ecotoxicology, 1979-80.

Invited Speaker, International Conference on Acid Precipitation, Norway, 1983.

Fellow and Invited Lecturer, East-West Center, Honolulu, August 20-September 10, 1981.

Invited Participant, Workshop on Ecotoxicology, Cornell University, Ithaca, N.Y., October, 1981.

Invited Speaker, First U.S.-China Conference on Energy, Resources, and Environment, Beijing, November 1982.

Elected Member, Board of Trustees, Rocky Mountain Biological Laboratory, 1984-1988.

Appointed Member, Scientific Advisory Board to the California Air Resources Board Acid Deposition Program, 1984-88.

Elected Member, National Council of the Federation of American Scientists, 1984-1988.

Invited Speaker, Earl Cook Memorial Symposium, Texas A & M University, May 1985.

Invited Speaker, New Zealand Department of Energy, Wellington, N.Z., January 1986.

Invited Speaker, Indonesian Ministry of Forestry and Conservation, Jakarta, Indonesia, March 1986.

Appointed, U.C. Berkeley Representative to the E.P.A., S.F. Bay-Delta Technical Advisory Committee, 1986-1991.

Member, Steering Committee, and Invited Speaker, of 1988 Chapman Conference on the Gaia Hypothesis.

Elected Member, Executive Committee, The Rocky Mountain Biological Laboratory.

Member, Steering Committee, and Invited Speaker, WWF Conference on Climate and the Biosphere, October, 1988.

President, Rocky Mountain Biological Laboratory, Board of Trustees, 1988-1992.

Special Advisor, National Academy of Sciences Committee on High School Biology Education, 1988-1990.

Invited Speaker, Commonwealth Club of California, "Global Warming--Causes, Consequences, Cures", September 1989.

Distinguished Visiting Lecturer, Chevron Corporation, October 1989.

Invited Speaker, Library of Congress, "Critical Issues Seminar on the Environment: -- a briefing for members of the U.S. Senate, April 1990.

Chair, Advisory Committee to President Harold Shapiro, Princeton, University, on establishing a school of Environment Studies at Princeton, January 1991.

Sigma-Xi Lecturer, University of California, Berkeley, 1991.

Member, Board of Directors, Point Reyes Bird Observatory, 1991- 1996.

Associate Editor, Annual Reviews of Energy and the Environment, 1991-2001.

Member, NAS/NRC Panel on "Scientific Issues in the endangered Species Act", 1993-1995

Invited participant, Sixth Cary Conference, Institute of Ecosystem Studies, Millbrook, NY, May, 1995.

Holder, Class of 1935 Distinguished Professorship, UC Berkeley, 1999-2003.

Member, NAS/NRC Committee on "Climate, Ecosystems, Infectious Diseases, and Human Health", 1999-2001.

Appointed Distinguished Ecologist, Colorado State University, Fort Collins, 1999.

Appearance on the Bill Moyers show NOW, to discuss ecological effects of global warming, 2004.

Member of Steering Committee and Invited Speaker, Aspen Center for Physics Workshop on New Directions for Climate Research, 2005.

Invited Speaker, First Field Workshop on Ecological Complexity, Chile, 2005.

Member of Steering Committee and Invited Speaker, Workshop on Mathematical Challenges of Global Ecology, University of Ohio, 2006.

SELECTED HONORS AND AWARDS

Elected Fellow of The American Physical Society, October 1988.

Awarded Pew Scholar Prize in Conservation and the Environment, July 1990.

Best Reference Book of 1993 Award for "Toxics A to Z" from American Library Association

Elected Fellow, California Academy of Sciences, 1993.

John Simon Guggenheim Fellow, 1994.

Appointed Phi Beta Kappa Distinguished Lecturer for 1998-99.

Recipient of the 2001 "Leo Szilard Award" from the American Physical Society

Recipient of a "Magnificent Seven" Award for a "News and Views" article in the journal Nature

Recipient of the 2004 UC Berkeley Graduate Mentor Award.

Awarded Miller Foundation Professorship, UC Berkeley, 2006.

Co-recipient of the 2006 George Polk Award in journalism..

SELECTED UNIVERSITY SERVICE

Chair, Executive Committee of the U. C. Berkeley Vice Chancellor's Environmental Council, 1995-1996.

Chair, Energy and Resources Group, UC Berkeley, 1996-1998.

Member, Executive Committee, Energy and Resources Group, 1983-present.

Member, Admissions Committee, Energy and Resources Group, 1997-2003.

Chair, Curriculum Committee, Energy and Resources Group, 2003 - present

Member, UCB Weinstock Lecture Committee, 2001-present.

Member of 12 faculty search committees during the period 1990-present.

Member of UCB Committee to review Pacific Rim proposals, 2003.

Chair, Committee to select the Director of the UCB Center for Atmospheric Sciences, 2005

TEACHING EXPERIENCE

Undergraduate and graduate-level courses in Physics, Yale University.

Graduate Seminar--Quantitative Approaches to Environmental Analysis, an interdisciplinary team-taught course given under the auspices of the Institute of Social Science, Yale University.

Introduction to Environmental Physics, an undergraduate course for non-scientists, University of California, Berkeley.

Quantitative Aspects of Global Environmental Problems, a course for advanced undergraduate and graduate students, University of California, Berkeley.

Summer courses on "Population Biology" and on "Biology and the Human Predicament" at the Rocky Mountain Biological Laboratory, Gothic, Colorado.

Advanced graduate course on ecosystem and meteorological modeling, University of California, Berkeley.

Introductory Course for non-science majors: "The Biosphere", University of California, Berkeley.

SELECTED RESEARCH GRANTS

Principal Investigator, NSF grant for theoretical elementary particle research, 1973.

Principal Investigator, ERDA-DOE grant for theoretical and experimental studies in Ecosystem Stability, 1974-78 (with EPA pass-through funds in 1975-76).

Principal Investigator, EPRI grant for research on: Aquatic Microcosms for Assessment of Effluent Effects, 1976-83.

Principal Investigator, California Water Resources Center grant for research on: Acid Precipitation Problems in the California Sierra, 1980-82.

Principal Investigator, California Policy Seminar awards for research on water problems in California, 1979-81, 1982-84, 1985-86.

Principal Investigator, The East-West Center award for research in China on Acid Precipitation, 1981.

Principal Investigator, The Nature Conservancy grant for research on: Acid Precipitation in Colorado, 1982.

Principal Investigator, The Maki Foundation grant for research on: Acid Precipitation in Colorado, 1982-86.

Principal Investigator, The World Resources Institute grant for research on: Effects of Arctic Pollution, 1985-1988.

Co-principal Investigator, The California Air Resources Board grant for research on: The Role of Lake Sediments in Buffering Acid Deposition in the Sierra Nevada, 1985-1988.

Principal Investigator, California Policy Seminar grant for research on: A Species Conservation Policy for California, 1987-1989.

Co-principal Investigator, National Institution of Health grant for research on Ecotoxicology, 1990-1992.

Principal Investigator, DOE's NIGEC grant for research on Carbon Storage and Climate-Ecosystem Feedbacks, 1994-1996.

Principal Investigator, four consecutive National Science Foundation grants for research on Ecological Effects of Global Warming, 1992-2007.

Principal Investigator, National Science Foundation grant for research in Spatial Macroecology, 2005-2008.

CO-Principal Investigator, National Science Foundation grant from the Dimensions of Biology Program for research on the ecology and evolution of species diversification in Hawaii.

PUBLICATION LIST

AUTHORED OR CO-AUTHORED BOOKS

1. J. Harte and Robert Socolow, Patience Earth, Holt, Rinehart, and Winston, New York (1971), 364 pp.

2. J. Harte, Consider a Spherical Cow: A Course in Environmental Problem Solving, Wm. Kaufmann, Inc. (1985); University Science Books, Sausalito, CA (1988), 283 pp. (Translated into Portuguese)
3. J. Harte, C. Holdren, R. Schneider, and C. Shirley, Toxics A to Z: A Guide to Everyday Pollution Hazards, University of California. Press (1991), 480 pp. (Translated into Spanish)
4. D. Jensen, M. Torn, and J. Harte, In Our Own Hands: A Strategy for Conserving Biodiversity in California, University of California. Press (1993), 302 pp.
5. J. Harte, The Green Fuse: An Ecological Odyssey, University of California Press (1993). (Translated into Japanese; French translation in progress)
6. J. Harte, Consider a Cylindrical Cow: Further Adventures in Environmental Problem Solving, University Science Books, Sausalito, CA (2001) 211 pp.
7. J. Harte and M. Harte, Cool the Earth, Save the Economy: Solving Global Warming is Easy, an on-line book available for free download at: www.cooltheearth.us.
8. J. Harte, Maximum Entropy and Ecology: A Theory of Abundance, Distribution, and Energetics. Oxford University Press, Oxford, UK, 2011.

EDITED VOLUMES

1. J. Hollander, J. Harte, and R. Socolow, Eds., Annual Review of Energy and the Environment 17. Annual Reviews, Inc. Palo Alto, CA (1992).
2. R. Socolow, D. Anderson, and J. Harte, Eds., Annual Review of Energy and the Environment 18. Annual Reviews, Inc. Palo Alto, CA (1993).
3. D. Caron, F.S. Chapin, J. Donaghue, M. Firestone, J. Harte, L. Wells, and R. Stewardson, Eds., Ecological and Social Dimensions of Global Change. Institute of International Studies, University of California, Berkeley (1994).
4. R. Socolow, D. Anderson, and J. Harte, Eds., Annual Review of Energy and the Environment 19. Annual Reviews, Inc. Palo Alto, CA (1994).
5. R. Socolow, D. Anderson, and J. Harte, Eds., Annual Review of Energy and the Environment 20. Annual Reviews, Inc. Palo Alto, CA. (1995).
6. R. Socolow, D. Anderson, and J. Harte, Eds., Annual Review of Energy and the Environment 21. Annual Reviews, Inc. Palo Alto, CA. (1996).

7. R. Socolow, D. Anderson, and J. Harte, Eds., Annual Review of Energy and the Environment 22. Annual Reviews, Inc. Palo Alto, CA. (1997).
8. R. Socolow, D. Anderson, and J. Harte, Eds., Annual Review of Energy and the Environment 23. Annual Reviews, Inc. Palo Alto, CA. (1998).
9. R. Socolow, D. Anderson, and J. Harte, Eds., Annual Review of Energy and the Environment 24. Annual Reviews, Inc. Palo Alto, CA. (1999).
10. R. Socolow, D. Anderson, and J. Harte, Eds., Annual Review of Energy and the Environment 25. Annual Reviews, Inc. Palo Alto, CA. (2000).
11. R. Socolow, D. Anderson, and J. Harte, Eds., Annual Review of Energy and the Environment 26. Annual Reviews, Inc. Palo Alto, CA. (2001).
12. R. Socolow, D. Anderson, and J. Harte, Eds., Annual Review of Energy and the Environment 27. Annual Reviews, Inc. Palo Alto, CA. (2002).

ARTICLES (A: refereed journal; B: refereed book chapter; C: refereed reports; D: other)

- A 1. J. Harte and R.G. Sachs, "Mixing Effects for ρ , ω , and ϕ Mesons," Phys. Rev. 135, 459 (1964).
- A 2. J. Harte, " Ω^- Decay in a Composite Particle Model", Nuovo Cimento 45: 316 (1966).
- A 3. J. Harte, "Bootstrap Solutions to the Bethe-Salpeter Equation", Nuovo Cimento 45:, 179 (1966).
- A 4. J. Harte, "A Relativistic Quark Model with Application to Meson Decay Rates", ACTA Physica 22: 159 (1967).
- A 5. J.Harte, R.H. Socolow, and J. Vandermeulen, "A Study of the Quark Rearrangement Model of Nucleon-Antinucleon Annihilation", Nuovo Cimento 49: 555 (1967).
- A 6. J. Harte, "Mass Perturbations in a Bethe-Salpeter Equation Model of the Nucleon", Phys. Rev. 158: 1521 (1967)
- A 7. R. Brower and J. Harte, "Kinematic Constraints for Infinitely Rising Regge Trajectories", Phys. Rev. 164: 1841 (1967).
- A 8. C. Chiu, J. Harte, and C. Tan, "Large Angle pp Scattering as an Experimental Test of the Minimal Interaction Hypothesis", Nuovo Cimento 53: 174 (1968).

- A 9. J. Harte, "Crossing-Symmetric Bootstrap and Exponentially Falling Form Factors", Phys. Rev.165: 1557 (1968).
- A 10. J. Harte, "Asymptotic Vertex Function in a Crossing-Symmetric Bootstrap Model of the Hadrons", Phys. Rev. 171: 1825-1831 (1968).
- A 11. J. Harte, "Possible Enhancement of Two-Photon-Exchange Effects in Large-Momentum-Transfer Electron-Proton Scattering", Phys. Rev. 171: 1832-3 (1968).
- A 12. J. Harte and K. M. Ong, "Bootstrap Prediction for the Wide-Angle Proton- Proton Scattering Amplitude," Phys. Rev. 184: 1948-50 (1969).
- A 13. J. Harte, "Off-Mass-Shell Theory of the Bootstrap and Composite-Particle Scattering," Phy. Rev. 184: 1936-47 (1969).
- A 14. J. Harte, "Unified Treatment of Hadronic Processes Involving High-Mass Virtual Photons," Phys. Rev. 188: 2372-2377 (1969).
- A 15. J. Harte, "Comment on High-Energy Wide-Angle Proton Compton Scattering," Phys. Rev. D 1: 1512 (1970).
- A 16. M.S. Chen and J. Harte, "Theory of Large-Momentum-Transfer Hadron in High- Energy, Inelastic Hadron-Hadron Scattering," Phys. Rev. D 1: 2603-2609 (1970).
- C 17. E. Commins, J. Fay, J. Feiveson, M., Goldberger, W. Hall, J. Harte, L. Hinkle, W. Linvill, G. Macdonald, W. Matthews, H. Menard, and R. Socolow, "Institutions for Effective Management of the Environment," National Academy of Sciences Environmental Study Group, National Technical Information Service, Part II Pb-200-259 (1970).
- C 18. E. Commins, J. Fay, J. Feiveson, M. Goldberger, W. Hall, J. Harte, L. Hinkle, W. Linvill, G. MacDonald, W. Matthews, H. Menard, and R. Socolow, "Environmental Problems in South Florida, : National Academy of Science Environmental Study Group, National Technical Information Service, Part II PB-200-259 (1970).
- A 19. J. Harte and R. Socolow, "The Everglades: Wilderness Versus Rampant Land Development in South Florida," Environmental Affairs 1: 140 (1971).
- A 20. J. Harte and R. Socolow, "How Radioactive Waste Builds Up in a Lake," Environmental Affairs 1: 169 (1971).
- D 21. J. Harte, "International Environmental Problems", in: Proceedings of the Princeton University Conference--The United Nations: Its Future, the World Environment and U.S. Policy. Princeton University, April (1971).

- A 22. J. Harte, J. Rawls, and H.C. Yen. "Possible Bootstrap Origin of Thermodynamic Inclusive Spectra," Phys Rev. D 6: 2522-2530 (1972).
- A 23. J. Harte, "Bootstraps and Partons--A Field Guide to Composite Hadrons," Nuclear Physics B 50: 301 (1972).
- A 24. J. Harte, "Physics at Enormous Momentum Transfers: An Interpretation of the CERN ISR Results," Nuclear Physics B 61: 245 (1973).
- D 25. J. Harte and J. Hollander, "Elements of a National Energy Policy," Magnet, Vol 17, no. 283 (1973).
- D 26. J. Harte, "Institutions and the Future Time Horizon: Some Thoughts on the Origins of Value Fragility," Lawrence Berkeley Laboratory, Energy and Environment Division publication, LBL-3043 (1974).
- B 27. J. Harte and D. Levy, "On the Vulnerability of Ecosystems Disturbed by Man," pp. 208-223, in Unifying Concepts in Ecology, Report of the Plenary Sessions of the First International Congress of Ecology, The Hague, Netherlands, September 8-14, 1974, edited by W.H. Van Dobben and R.H. Lowe-McConnell, Dr. W. Junk Publishers, The Hague (1975).
- D 28. M. Dudzik, J. Harte, D. Levy, and J. Sandusky, "Stability Properties of Ecosystem Nutrient Cycles," LBL-3261, June (1975).
- D 29. M. Dudzik, J. Harte, D. Levy and J Sandusky, "Stability Indicators for Nutrient Cycles in Ecosystems," LBL-3266, July (1975).
- D 30. J. Harte and H. Morowitz, "Nutrient Transit Time Diversity: A Novel Measure of Ecological Organization and Stability," LBL-4441, December (1975).
- C 31. A. Jassby, J. Rees, M. Dudzik, D. Levy, E. Lapan and J. Harte, "Production Cycles in Aquatic Microcosms," Environmental Protection Agency, Office of Research and Development, Research Report EPA-600/7-77-097, National Technical Information Service, Springfield, Va. 51 pp. (1977).
- C 32. A. Jassby, J. Rees, M. Dudzik, D. levy, E. Lapan and J. Harte, "Trophic structure modifications by planktivorous fish in aquatic microcosms," Environmental Protection Agency, Office of Research and Development, Research Report EPA-600/7-77-096, National Technical Information Service, Springfield, Va., 18 pp., (1977).
- D 33. J. Harte, C. Blanchard, M. El-Gasseir, and S. Tannenbaum, "Environmental Consequences of Energy Technology: Bringing the Loss of Environmental Services into the Balance Sheets. Part II: Services, Disruptions, Consequences," Draft Report for the

- U.S. council on Environmental Quality. Energy and Resources Group, University of California, Berkeley, California (1977).
- C 34. J. Harte, D. Levy, E. Lapan, A. Jassby, M. Dudzik, and J. Rees, "Aquatic Microcosms for Assessment of Effluent Effects". EPRI EA-936, Palo Alto, California (1978).
- A 35. J. Harte and M. El-Gasseir, "Energy and Water," Science 199: 623-634 (1978).
- A 36. J. Harte and A. Jassby, "Energy and Ecosystems: The Search for Compatibility," Energy, 3: 101-146 (1978).
- A 37. M. Dudzik, J. Harte, A. Jassby, E. Lapan, D. Levy, and J. Rees, "Some Considerations in the Design of Aquatic Microcosms for Plankton Studies," International Journal of Environmental Studies, 13: 125-130 (1979).
- B 38. J. Harte, "Ecosystem Stability and the Distribution of Community Matrix Eigenvalues", pp 453-465, in Systems Theory and Ecology, E. Halforn, ed., Academic Press (1979).
- B 39. J. Harte, "Water Resource Constraints on Energy Development in California", in California Water Planning and Policy, California Water Resources Center, University of California, " Davis (1979).
- D 40. J. Holdren, J. Harte, and K. Tonnessen, "Environmental Data Bases and Integrated Models as Assessment Tools: A Critical Survey of Accomplishments, Potential, and Limitations," Energy and Resources Group, University of California, Berkeley, Ca. (1979).
- B 41. J. Harte, "The Risks of Energy Strategies: An Ecological Perspective", pp 43-60, in Energy Risk Management, G. Goodman and Rowe, Eds., Academic Press London (1979).
- D 42. J. Harte and K. Tonnessen, "The Potential for Acid Precipitation Damage to Aquatic Ecosystems of the Sierra Nevada, California, USA", Proceedings of the International Conference on Ecological Impacts of Acid Precipitation, SNSF Project, Oslo, Norway (1980).
- D 43. J. Harte, "Cross-Cutting Issues in Integrated Environmental Assessment of Energy Alternatives: Environmental Stochasticity," Energy and Resources Group, U.C. Berkeley (1980).
- D 44. J. Holdren, P. Ehrlich, A. Ehrlich and J. Harte, "Bad News: Is it True?", letter to Science, 210:1296-1301 (1980).
- B 45. J. Harte, D. Levy, J. Rees and E. Saegebarth, "Making Microcosms an Effective Assessment Tool, pp. 105-137, in "Microcosms in Ecological Research. J. Geisy, ed,

DOE Symposium Series, CONF-781101, National Technical Information Service, U.S. Department of Commerce, Springfield, Va. (1980).

- C 46. J. Harte, Energy and the Fate of Ecosystems: A Report by the Ecosystems Impacts Resource Group of the Committee on Nuclear and Alternate Energy Systems, National Academy Press, Washington, D.C. (1980) 399 pp.
- C 47. J. Cairns, M. Alexander, K. Cummins, W.T. Edmondson, C. Goldman, J. Harte, R. Hartung, A. Isensee, R. Levins, J.F., McCormick, T. Peterle, J. Zar, Testing Effects of Chemicals on Ecosystems, a Report by the Committee to Review Methods in Ecotoxicology, National Academy of Sciences-National Research Council, National Academy Press, Washington, D.C. (1981).
- C 48. J. Harte, "Optimum Microcosms for Lake Ecotoxicology," published as a working paper of the Committee to Review Methods for Ecotoxicology, National Academy Press, Washington, D.C. (1981).
- C 49. J. Harte, D. Levy, J. Rees, E. Saegerbarth, "Assessment of Optimum Aquatic Microcosms for Pollution Impact Studies," EPRI EA-1989, Palo Alto, CA (1981).
- D 50. J. Harte, "New Developments in Acid Precipitation Research, in Proceedings of the First U.S. China Conference on Energy, Resources, and Environment, Beijing," November 1982, Pergamon Press, New York (1982).
- A 51. J. Harte, "Modeling Lake-Water Mineralization Processes," Journal of Theoretical Biology, 99: 553-569 (1982).
- A 52. J. Harte, D. Levy, and J. Rees, "Pelagic Diatom Dynamics in Freshwater Microcosms," Internationale Revue der Gesamten Hydrobiologie, 68 (2): 255-267 (1983).
- A 53. J. Harte, "An Investigation of Acid Precipitation in Qinghai Province, China," Atmospheric Environment, 17: 403-408 (1983).
- C 54. K. Tonnessen and J. Harte, "Acid Rain and Ecological Damage: Implications of Sierra Nevada Lake Studies," Public Affairs Report, 6: 1-10 (1983).
- A 55. J. Harte, "Water Constraints on Energy Development: A Framework for Analysis," Water Resources Bulletin, 19: 51-57 (1983).
- A 56. J. Harte and D. Levy, "Investigation of the Responses of Lake Waters to Organic Additions", Hydrobiologia 107: 203-212 (1983).
- A 57. P. Ehrlich, J. Harte, M. Harwell, P. Raven, C. Sagan, G. Woodwell, J. Berry, E. Ayensu, A. Ehrlich, T. Eisner, S. Gould, H. Grover, R. Herrera, R. May, E. Mayr, C. McKay, H.

- Mooney, N. Myers, P. Pimentel, J. Teal, "Long-Term Biological Consequences of Nuclear War," Science 222: 1293-1300 (1983).
- D 58. J. Harte, Report from the Panel on Biological Consequences of Nuclear War, in The Cold and the Dark, P. Ehrlich, C. Sagan, D. Kennedy, and W. Roberts eds., W.W. Norton (1984).
- C 59. P. Roth, C. Blanchard, J. Harte, H. Michaels, and M. El-Ashry, "The American West's Acid Rain Test," World Resources Institute, Research Report No. 1, WRI: Washington, D.C., (1985).
- C 60. J. Harte, K. Adler, M. Lazarus, and D. Yardas, "Trace Metals in California's Inland Waters," California Policy Seminar, Final Report No. 6, U.C. Berkeley (1985).
- D 61. J. Harte, "Soil and the Sustainability of the Global Biosphere," Proceedings of the Conference on the Sustainability of the Global Biosphere, Moscow (1985).
- A 62. J. Harte, G. Lockett, R. Schneider, C. Blanchard, and H. Michaels, "Acid Precipitation and Surface-Water Vulnerability on the Western Slope of the High Colorado Rockies," Water, Air, and Soil Pollution, 25: 313-320 (1985).
- B 63. J. Harte, D. Levy, J. Oldfather, E. Saegebarth, and J. Rees, "The Realism and Replicability of Lentic Freshwater Microcosms." in T. Boyle, ed., Contaminants in Aquatic Ecosystems, ASTM Baltimore (1985).
- B 64. D. Porcella, C. Chen, R. Kawaratani, J. Harte, D. Levy, J. Rees, and G. Lockett, "A Framework for the Complementary Use of Mathematical Models in Environmental Assessment," in T. Boyle, ed., Contaminants in Aquatic Ecosystems, ASTM, Baltimore (1985).
- B 65. J. Harte, "Ecological Implications of Arctic Air Pollution", pp. 259-268, B. Stonehouse, ed., Cambridge Press (1986).
- C 66. A. Horne, J. Harte, and D. Von Hippel, "Predictions of the Effect of Ecosystem Hysteresis on the Recovery of Damaged Ecosystems: A Hysteresis Trophic Link Model," Energy and Resources Group, ERG 85-11, U.C. Berkeley (1986).
- C 67. J. Harte, K. Garrison, M. Turner, and D. Yardas, "Preliminary Investigation of San Joaquin River Water Quality and Its Implications for Drinking Water Exports to Southern California," prepared for the California Senate Office of Research. Energy and Resources Group, ERG 85-11, U.C. Berkeley (1986).
- D 68. C. Blanchard, A. Bradman, H. Michaels, and J. Harte, "Investigation of Snow Pack Chemistry on the Western Slope of the Colorado Rockies," Energy and Resources Group, ERG 86-11, U.C. Berkeley (1987).

- D 69. J. Harte, "Acid Rain," pp. 125-146, in P. Ehrlich and J. Holdren, eds, The Cassandra Conference: Resources and the Human Predicament, Proceedings of a Symposium in Honor of Earl Cook. Texas A & M Press (1987).
- A 70. J. Harte and J. Oldfather, "Effects of Prolonged Darkness on the Pelagic Plankton in a Eutrophic Lake," Current Practices in Environmental Science and Engineering, 3: 15-26 (1988).
- A 71. J. Harte and J. Williams, "Arctic Aerosol and Arctic Climate: Results from an Energy Budget Model," Climatic Change, 13: 161-189 (1988).
- A 72. J. Harte and E. Hoffman, "Possible Effects of Acid Deposition on a Rocky Mountain Population of the Salamander *A. tigrinum*," Conservation Biology, 3: 149-158 (1989).
- B 73. J. Harte, "Literacy and Numeracy in Global Ecology", in High School Biology Today and Tomorrow, W. Rosen, Ed., National Academy of Sciences, Washington, D.C., 17-20 (1989).
- D 74. J. Harte, "Global Warming", The Commonwealth 83 (41), 79-86 (1989).
- D75. J. Harte, "Impacts of Global Warming: Some Concluding Remarks", in On Global Warming, J. Cairns and P. Zweifel, Eds., pp 79-86. Proceedings of the first Presidential Symposium on World Issues, Virginia Polytechnic Institute and State University, Blacksburg, VA (1989).
- D 76. S.L. Anderson, E. Hoffman, D. Steward and J. Harte, "Ambient Toxicity Characterization of San Francisco Bay and Adjacent Wetland Ecosystems" Lawrence Berkeley Laboratory #29579, 85 pp.(1990).
- C 77. D. Jensen, M. Torn, and J. Harte, "In Our Own Hands: A Strategy for Conserving Biodiversity in California," Final Report to the California Policy Seminar, April (1990).
- B 78. J. Harte, "Ecosystem Stability and Diversity", in: Scientists on Gaia, pp. 77-80, S. Schneider and P. Boston, editors, MIT Press (1992).
- B 79. J. Harte, M. Torn, and D. Jensen, "The Nature and Consequences of Indirect Linkages between Climate Change and Biological Diversity," in: Global Warming and Biodiversity, R. Peters and T. Lovejoy, eds., Yale University Press (1992).
- D 80. J. Harte, "What is the Problem?" in Global Climate Change: European and American Policy Responses, J. Trilling and S. Strom, eds., Center for Western European Studies, U.C. Berkeley (1993).

- D 81. M. Torn and J. Harte, "Methane Consumption by Montane Soils: *In situ* Evidence for positive and Negative Feedbacks with Climatic Change," presented at the American Geophysics Union Annual Meeting, San Francisco (1993).
- A 82. J. Harte and A. Kinzig, "Mutualism and Competition between Plants and Decomposers: Implications for Nutrient Allocation in Ecosystems. American Naturalist 141: 829-846 (1993).
- D 83. J. Harte and E. Hoffman, "Acidification and Salamander Recruitment." Letter to Bioscience 44, 125-126 (1994).
- D 84. J. Harte and E. Hoffman, "Salamander Recruitment in Rockies Revisited." Letter to Bioscience 44, 381 (1994).
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