

Jesse H. Ausubel  
Publications and other documents grouped by topic  
December 2019

- Marine and Earth sciences
- Forests, farms, land use
- Climate and the atmosphere
- Industrial ecology, materials
- Energy, transport, cities
- General environment
- Methods and populations
- Science policy, universities
- Other
- Informal (including tributes, humor, poems, drama)
- Selected reports stemming from my directorship of the NAE Program Office
- Selected books stemming from my directorship of the NAE Program Office
- Selected reports and books in which I had a major role (other than NAE)

## Marine and Earth sciences [\(Return to top of list\)](#)

### [Final Report, First National Conference on Marine Environmental DNA](#)

JH Ausubel, MY Stoeckle, P Gaffney. 2019

### [Introducing the International Quiet Ocean Experiment](#) [external link]

E Urban, JH Ausubel, C de Jong, J Miksis-Olds, H Sagen, S Seeyave, S Simpson, P Tyack  
Pp. 6-9 in *ECO – Environment Coastal & Offshore Magazine*, Ocean Sound Special Issue, 2019

### [The eDNA Revolution](#)

JH Ausubel, MY Stoeckle  
*Sea Technology* 60(6):7, June 2019

### *Maritime Environment 2050: Implications for U.S. National Security*

JH Ausubel, AS Curry, IK Wernick  
Program for the Human Environment, The Rockefeller University, New York, 2018

### [Marine eDNA 101](#) [external link]

JH Ausubel, MY Stoeckle, P Gaffney. 2018

### [SuBastian and the Robots](#)

JH Ausubel. JH Ausubel and PG Gaffney II  
Pp. 28-31 in *Final Report of the 2016 National Ocean Exploration Forum: Beyond the Ships 2020–2025*. 2017 (Slightly abridged version published in *Sea Technology* 58(1):7, January 2017)

### [Final Report of the 2016 National Ocean Exploration Forum: Beyond the Ships 2020–2025.](#)

JH Ausubel and PG Gaffney II  
The Marine Science and Policy Series, Program for the Human Environment, The Rockefeller University, and Monmouth University, 34 pp., 2017

### [Ocean Past, Ocean Future: Reflections on the Shift from the 19th to 21st Century Ocean](#)

Michelson Memorial Lecture, United States Naval Academy, Annapolis, MD, 15 October 2015

### [On the Nature and Significance of Rarity in Mineralogy](#)

RM Hazen, JH Ausubel  
*American Mineralogist* 101: 2016. doi: <http://dx.doi.org/10.2138/am-2016-5601CCBY>

### [Impact of Volcanic Eruptions on the Seafloor Around Montserrat, West Indies](#)

S Carey, KLC Bell, S Sparks, A Stinton, JH Ausubel, BT Phillips, NA Raineault, N Siu, C Fandel, O Graham, H Ramsingh, R Blake, S Auscavitch, AWJ Demopoulos, K Rodrigue  
*Oceanography* 27(1): 36-37, 2014

### [Ocean Exploration](#)

Pp. 34-35 in *The Report of Ocean Exploration 2020: A National Forum*, Aquarium of the Pacific and NOAA, Long Beach CA, 2013

### [Wealth from the Oceans: Use, Stewardship, and Security](#)

Keynote address, 8th Annual Future of the Ocean Symposium, Monmouth University, West Long Branch, N.J., 26 October 2012

### [Self-sinking Capsules to Investigate Earth's Interior and Dispose of Radioactive Waste](#)

Seminar presentation 26 July 2011, Woods Hole Oceanographic Institution Program of Study in Geophysical Fluid Dynamics

[\*An International Quiet Ocean Experiment\*](#)

IL Boyd, G Frisk, E Urban, P Tyack, J Ausubel, S Seeyave, D Cato, B Southall, M Weise, R Andrew, T Akamatsu, R Dekeling, C Erbe, D Farmer, R Gentry, T Gross, A Hawkins, F Li, K Metcalf, JH Miller, D Moretti, C Rodrigo, T Shinke  
*Oceanography* 24(2):174-181, 2011. doi:10.5670/oceanog.2011.37

[Foreword Poem: The Census of Marine Life is about the total richness of the sea](#)

In [\*Life in the World's Oceans: Diversity, Distribution, and Abundance\*](#), A McIntyre (ed), pp. vii-viii, Hoboken, NJ: Wiley-Blackwell, 2010

[\*Making Marine Life Count: A New Baseline for Policy\*](#)

MJ Williams, JH Ausubel, I Poiner, SM Garcia, DJ Baker, MR Clark, H Mannix, K Yarincik, PN Halpin  
*PLoS Biology* 8(10): e1000531, 26 October 2010. doi:10.1371/journal.pbio.1000531

[\*A Census of Ocean Life: On the Difficulty and Joy of Seeing What Is Near and Far\*](#)

*SIG Quarterly*, April 2010

[\*First Census of Marine Life 2010: Highlights of a Decade of Discovery\*](#)

JH Ausubel, DT Crist, PE Waggoner (eds)  
Census of Marine Life, Washington, DC, 2010

[\*On the Limits to Knowledge of Future Marine Biodiversity\*](#)

*Electronic Journal of Sustainable Development* 1(2):19-23, 2008

[\*Future Knowledge of Life in Oceans Past\*](#)

In *Oceans Past: Management Insights from the History of Marine Animal Populations*, DJ Starkey, P Holm, M Barnard (eds), pp. xix-xxvi, London: Earthscan, 2008

[\*Inaugural Speech, South American Workshop on Marine Biodiversity for the Census of Marine Life, 29 October 2002 \(in spanish, with english translation\)\*](#)

*Gayana* 67(2), 2003

[\*The Census of Marine Life: Progress and Prospects\*](#)

*Fisheries* 26(7):33-36, 2001

[\*The Census of Marine Life and the Role of Aquariums\*](#)

*Bulletin de l'Institut Oceanographique, Monaco* 20(1):395-401, 2001

[\*Toward a Census of Marine Life\*](#)

*Oceanography* 12(3):4-5, 1999

[\*The Census of the Fishes: An Update, February 1999\*](#)

Alfred P. Sloan Foundation, New York, February 1999

[\*The Census of the Fishes: Concept Paper, January 1997\*](#)

Alfred P. Sloan Foundation, New York, January 1997

## Forests, farms, land use [\(Return to top of list\)](#)

### [The Potato and the Prius](#)

Keynote address to the 2018 Potato Business Summit of the United Potato Growers of America, Orlando, FL, 10 January 2018

### [The Shrinking Footprint of American Meat](#)

JH Ausubel, IK Wernick  
*The Breakthrough Journal*, 2017

### [Peak Farmland and Potatoes](#)

Insert to *Spudman* 52(8): November-December, 2014

### [Meat and Potatoes and the American Landscape](#)

Lecture for Sheriff's Meadows Foundation, Old Whaling Church, Edgartown, Massachusetts, July 2014.

### [Peak Farmland and the Prospect for Land Sparing](#)

JH Ausubel, IK Wernick, PE Waggoner  
*Population and Development Review* 38(Supplement): 217-238, 2012

### [A National and International Analysis of Changing Forest Density](#)

A Rautiainen, I Wernick, PE Waggoner, JH Ausubel, PE Kauppi  
*PLoS ONE* 6(5): e19577. 2011. doi:10.1371/journal.pone.0019577

### [Quandaries of Forest Area, Volume, Biomass, and Carbon Explored with the Forest Identity](#)

PE Waggoner, JH Ausubel  
*Connecticut Agricultural Experiment Station Bulletin* 1011:1-3, 2007

### [Returning Forests Analyzed with Forest Identity](#)

PE Kauppi, JH Ausubel, J-Y Fang, AS Mather, RA Sedjo, PE Waggoner  
*Proceedings of the National Academy of Sciences USA* 103:17574-17579, 2006. 10.1073/pnas.0608343103

### [Foresters and DNA](#)

JH Ausubel, PE Waggoner, IK Wernick  
Chapter 2 (pp. 13-31) in *Landscapes, Genomics and Transgenic Forests*, CG Williams (ed), Dordrecht: Kluwer, 2006

### [On Sparing Farmland and Spreading Forest](#)

Pp. 127-138 in *Forestry at the Great Divide: Proceedings of the Society of American Foresters 2001 National Convention*, T Clark, R Staebler (eds), Society of American Foresters, Bethesda, MD, 2002

### [How Much Will Feeding More and Wealthier People Encroach on Nature?](#)

PE Waggoner, JH Ausubel  
*Population and Development Review* 27(2):239-257, June 2001

### [Nitrogen on the Land: Overcoming the Worries - Lifting Fertilizer Efficiency and Preserving Land for Nonfarming Uses](#)

CR Frink, PE Waggoner, JH Ausubel  
*Pollution Prevention Review* 11(3):77-82, 2001

### [Restoring the Forests](#)

DG Victor, JH Ausubel  
*Foreign Affairs* 79(6):127-144, November/December 2000

*Nitrogen Fertilizer: Retrospect and Prospect*

CR Frink, PE Waggoner, JH Ausubel

*Proceedings of the National Academy of Sciences USA*, 96:1175-1180, 1999

*Searching for Leverage to Conserve Forests: The Industrial Ecology of Wood Products in the U.S.*

IK Wernick, PE Waggoner, JH Ausubel

*Journal of Industrial Ecology* 1(3):125-145, 1997

*Lightening the Tread of Population on the Land: American Examples*

PE Waggoner, JH Ausubel, IK Wernick

*Population and Development Review* 22(3):531-545, 1996

## Climate and the atmosphere [\(Return to top of list\)](#)

### [Some Ways to Lessen Worries about Climate Change](#)

*The Electricity Journal* 14(1):24-33, 2001

### [Technical Progress and Climatic Change](#)

*Energy Policy* 23(4/5):411-416, 1995; also pp. 501-512 in *Integrated Assessment of Mitigation, Impacts, and Adaptation to Climate Change*, N Nakicenovic, WD Nordhaus, R Richels, FL Toth (eds), International Institute for Applied Systems Analysis, Laxenburg, Austria, 1994

### [Mitigation and Adaptation for Climate Change: Answers and Questions](#)

*The Bridge* 23(3):15-30, 1993; also pp. 557-584 in *Costs, Impacts, and Benefits of CO<sub>2</sub> Mitigation*, Y Kaya, N Nakicenovic, WD Nordhaus, FL Toth (eds), International Institute for Applied Systems Analysis, Laxenburg, 1993

### [Social and Institutional Barriers to Reducing CO<sub>2</sub> Emissions](#)

In *Limiting the Greenhouse Effect*, G Pearman (ed), pp. 513-533, Chichester: Wiley, 1992.

### [Does Climate Still Matter?](#)

*Nature* 350:649-652, 1991

### [A Second Look at the Impacts of Climate Change](#)

*American Scientist* 79:210-221, May-June 1991

### *Who Cares if the Climate Changes?*

Rockefeller University Lecture, 23 pp., January 1991 (available from Program for the Human Environment)

### [Climate Impact Assessment](#)

RW Kates, JH Ausubel, M Berberian (eds)  
SCOPE 27, Chichester: Wiley, 625 pp., 1985

### [Identifying Climate Sensitivity](#)

WJ Maunder, JH Ausubel

In *Climate Impact Assessment*, RW Kates, JH Ausubel, M Berberian (eds), SCOPE 27, pp. 85-101, Chichester: Wiley, 1985

### *The Challenge of CO<sub>2</sub>*

*Aerospace America* 22(4):94-106, 1984

### [The Ogallala Aquifer and Carbon Dioxide: Comparison and Convergence](#)

MH Glantz, JH Ausubel

*Environmental Conservation* 11:123-131, 1984

### [Executive Summary and Synthesis chapter in \*Changing Climate: Report of the Carbon Dioxide Assessment Committee\*](#)

JH Ausubel (ed)

Washington, DC: National Academy Press, 1983

*A Review of Estimates of Future Carbon Dioxide Emissions*

JH Ausubel, WD Nordhaus

pp. 153-185 in [Changing Climate, Report of the Carbon Dioxide Assessment Committee](#), National Research Council, National Academy, Washington, DC, 1983

*Historical Note (On the scientific history of the greenhouse effect)*

pp. 488-491 in [Changing Climate, Report of the Carbon Dioxide Assessment Committee](#), National Research Council, National Academy, Washington, DC, 1983

[Can We Assess the Impacts of Climatic Change?](#)

*Climatic Change* 5:7-14, 1983

[A Framework for Scenario Generation for CO<sub>2</sub> Gaming](#)

J Robinson, JH Ausubel

*Simulation and Games* 14(3):317-344, 1983; also WP-81-34, International Institute for Applied Systems Analysis, Laxenburg, Austria, 1981

*Review Essay: Least-Cost Energy: Solving the CO<sub>2</sub> Problem by A.B. Lovins, L.H. Lovins, F. Krause, and W. Bach*

*Climatic Change* 4(3):313-322, 1982

[Estimating the Future Input of Fossil Fuel CO<sub>2</sub> into the Atmosphere by Simulation Gaming](#)

I Stahl, JH Ausubel

*Beyond the Energy Crisis-Opportunity and Challenge*, PA Fazzolare, CB Smith (eds), Oxford: Pergamon, 1981; also WP-81-107, International Institute for Applied Systems Analysis, Laxenburg, Austria, 1981

[CO<sub>2</sub>: An Introduction and Possible Board Game](#)

WP-80-153, International Institute for Applied Systems Analysis, Laxenburg, Austria, 1980

*Economics in the Air: An Introduction to Economic Issues of the Atmosphere and Climate*

In [Climatic Constraints and Human Activities](#), JH Ausubel, AK Biswas (eds), pp. 13-59, Oxford: Pergamon, 1980

[Carbon and Climate Gaming](#)

JH Ausubel, LW Lathrop, I Stahl, JM Robinson

WP-80-152, International Institute for Applied Systems Analysis, Laxenburg, Austria, 1980

[Climatic Constraints and Human Activities](#)

JH Ausubel, AK Biswas (eds), Oxford: Pergamon, 205 pp., 1980

[Climatic Change and the Carbon Wealth of Nations](#)

WP-80-75, International Institute for Applied Systems Analysis, Laxenburg, Austria, 50 pp., 1980

*Declaration and Working Group Reports of the World Climate Conference*

JH Ausubel (member of drafting team)

World Meteorological Organization, Geneva, 1979

*Toward a U.S. Climate Program Plan*

JH Ausubel, JS Perry (eds)

Climate Research Board, National Academy, Washington DC, 1979

*International Perspectives on Climate and Society*

JH Ausubel (ed)

Climate Research Board, National Academy of Sciences, Washington DC, 1978



## Industrial ecology, materials [\(Return to top of list\)](#)

### [Dematerialization: Variety, Caution, and Persistence](#)

JH Ausubel, PE Waggoner

*Proceedings of the National Academy of Sciences USA* 105(35):12774-12779, 2008.

10.1073/pnas.0806099105 D

### [Industrial Ecology for Leverage to Let Loose Less Cadmium](#)

JH Ausubel, IK Wernick, AM Barrett, PE Waggoner

*Progress in Industrial Ecology – An International Journal* 3(6):522-537, 2006

### [The Forester's Lever: Industrial Ecology and Wood Products](#)

IK Wernick, PE Waggoner, JH Ausubel

*Journal of Forestry* 98(10):8-13, October 2000

### [Industrial Ecology: A Coming of Age Story](#)

*Resources* 130:14, Winter 1998

### [Virtual Ecology of Industry](#) (editorial)

*Journal of Industrial Ecology* 1(1):10-11, 1997

### [Industrial Ecology: Some Directions for Research](#)

IK Wernick, JH Ausubel with the Vishnu Group, Lawrence Livermore National Laboratory

71 pp., May 1997 (available online from the Program for the Human Environment at

<http://phe.rockefeller.edu>)

### [Materialization and Dematerialization: Measures and Trends](#)

IK Wernick, R Herman, S Govind, JH Ausubel

In *Technological Trajectories and the Human Environment*, JH Ausubel, HD Langford (eds), pp. 141-164,

Washington, DC: National Academy Press, 1997; also appeared in *Daedalus* 125(3):171-198, 1996;

published in Portuguese, *Materialização e Desmaterialização: Limites e Tendências*, *Tecbahia* 12(3):12-

26, 1997

### [National Material Metrics for Industrial Ecology](#)

IK Wernick, JH Ausubel

*Resources Policy* 21(3):189-198, 1995; republished in *Measuring Environmental Performance and*

*Ecosystem Condition*, P Schulze (ed), National Academy, 1999, pp. 157-174

### [National Materials Flows and the Environment](#)

IK Wernick, JH Ausubel

*Annual Review of Energy and the Environment* 20:463-492, 1995

### [Industrial Ecology: Reflections on a Colloquium](#)

*Proceedings of the National Academy of Sciences* 89(3):879-884, 1992

### [Dematerialization](#)

R Herman, SA Ardekani, JH Ausubel

In *Technology and Environment*, JH Ausubel, HE Sladovich (eds), pp. 50-69. Washington, DC: National

Academy Press, 1989; also in *Technological Forecasting and Social Change* 37(4):333-348, 1990

## Energy, transport, cities [\(Return to top of list\)](#)

### [\*Density: Key to Fake and True News About Energy and Environment\*](#)

Presented at a meeting of the American Association of Petroleum Geologists, Next 100 Years of Global Energy Use: Resources, Impacts and Economics, Houston Convention Center, 4 April 2017. Published in AAPG's Search and Discovery, as contribution #70272, 28 June 2017

### [\*The Nature of the City\*](#)

Presented at the workshop "Future Cities: Do Cities Have Limits?" University of Glasgow, 18 April 2016

### [\*Power Density and the Nuclear Opportunity\*](#)

Adapted from the keynote address to the Nuclear Power Council, Electric Power Research Institute, Atlanta, Georgia, 3 September 2015

### [\*Cars and Civilization\*](#)

*The Breakthrough Journal* 2014. This article was originally delivered as part of the William and Myrtle Harris Lectureship in Science and Civilization, at the California Institute of Technology on 30 April 2014 and appeared under the title "The Need for Speed: Four Basic Instincts Have Determined Human Mobility" in the journal of the Breakthrough Institute July 14, 2014

### [\*Potential Implications for Future Energy Systems\*](#)

NM Victor, JH Ausubel, R Boswell, J Goodman, YC Beaudoin, SR Dallimore  
Chapter 1 in *Frozen Heat: UNEP Global Outlook on Methane Gas Hydrates*. United Nations Environment Programme, GRID-Arendal 2: 10-26, 2014

### [\*Generations of Methane\*](#)

*EPRI Journal*, Summer 2010

### [\*Natural Gas and the Jack Rabbit\*](#)

*Representative American Speeches 2008-2009 - The Reference Shelf* 81(6): 2009

### [\*Renewable and Nuclear Heresies\*](#)

*International Journal of Nuclear Governance, Economy and Ecology* 1(3):229-243, 2007

### [\*The Future Environment for the Energy Business\*](#)

*APPEA Journal* Part 2: 487-495, 2007

### [\*Earth at Night - If the Rest of the World Lived Like America\*](#)

NM Victor, JH Ausubel

*Electronic Journal of Sustainable Development* 1(1): 2007

### [\*Big Green Energy Machines\*](#)

*The Industrial Physicist*, Oct/Nov 2004, pp. 20-24.

### [\*The Evolution of Transport\*](#)

*The Industrial Physicist* 7(2):20-24, April/May 2001

### [\*Where is Energy Going?\*](#)

*The Industrial Physicist* 6(1):16-19, 2000 (February).

The essay had appeared in Italian in the special millennial edition of the Italian financial newspaper, *Il Sole/24 Ore*, on 17 November 1999; Also in Italian as *Benvenuti nel millennio nucleare*, pp.163-168 in *Duemila: Verso una società aperta*, M. Moussanet (ed), *Il Sole 24 Ore*, Milano, 2000.

[\*Toward Green Mobility: The Evolution of Transport\*](#)

JH Ausubel, C Marchetti, PS Meyer  
*European Review* 6(2):143-162, 1998

[\*Elektron: Electrical Systems in Retrospect and Prospect\*](#)

JH Ausubel, C Marchetti  
In *Technological Trajectories and the Human Environment*, JH Ausubel, HD Langford (eds), Washington, DC: National Academy Press, 1997, pp. 115-140; also appeared in *Daedalus* 125(3):139-169, 1996

[\*Productivity, Electricity, Science: Powering a Green Future\*](#)

*The Electricity Journal* 9(3):54-60, 1996

[\*Ways to Cut Vineyard Traffic and Taxes\*](#)

*Vineyard Gazette* 15: 1995

[\*Cutting the Volume of Traffic on Island\*](#)

*Vineyard Gazette* 15, 1994

[\*Chernobyl After Perestroika: Reflections on a Recent Visit\*](#)

*Technology in Society* 14:187-198, 1992; shorter version published as "Political Fallout: What Fate Awaits Chernobyl in the New World Order?" *The Sciences* 31:16-21, Nov-Dec 1991

[\*Energy and Environment: The Light Path\*](#)

*Energy Systems and Policy* 15(3):181-188, 1991

[\*Hydrogen and the Green Wave\*](#)

*The Bridge* 20(1):17-22, 1990

[\*Carbon Dioxide Emissions in a Methane Economy\*](#)

JH Ausubel, A Gruebler, N. Nakicenovic  
IIASA Research Report (reprint) RR-88-007. Reprinted from *Climatic Change* 12:245-263, 1988

[\*Cities and Their Vital Systems: Infrastructure, Past, Present, and Future\*](#)

JH Ausubel, R Herman (eds), Washington, DC: National Academy Press, 357 pp., 1988

[\*Cities and Infrastructure: Synthesis and Perspectives\*](#)

R Herman, JH Ausubel  
In *Cities and Their Vital Systems: Infrastructure, Past, Present, and Future*, JH Ausubel, R Herman (eds), pp. 1-21. Washington, DC: National Academy Press, 1988

[\*Future Uses of Fossil Fuels: A Global Review of Related Emissions and Depositions\*](#)

W Haefele, R Riemer, JH Ausubel, H Geiss  
*Organic Geochemistry* 10:1-15, 1986

## General environment [\(Return to top of list\)](#)

### [We Must Make Nature Worthless](#)

*RealClearScience* 19 September 2015

### [Nature Rebounds](#)

*The Breakthrough Journal* 5: 2015. This article was originally delivered as a Long Now Foundation Seminar, San Francisco, 13 January 2015 and appeared under the title “The Return of Nature: How Technology Liberates the Environment” in the journal of the Breakthrough Institute, spring 2015

### [A Botanical Macroscope](#)

*Proceedings of the National Academy of Sciences USA* 106(31):12569-12570, 2009.  
doi:10.1073/pnas.0906757106

### [Broadening the Scope of Global Change to Include Illumination and Noise](#)

*SEED Magazine*, 23 November 2009

### [A Framework for Sustainability Science: A Renovated IPAT Identity](#)

PE Waggoner, JH Ausubel  
*Proceedings of the National Academy of Sciences USA* 99(12):7860-7865, June 2002

### [Maglevs and the Vision of St. Hubert, or the Great Restoration of Nature: Why and How](#)

In *Challenges of a Changing Earth*, W Steffen, J Jaeger, DJ Carson, C Bradshaw (eds), pp. 175-182, Heidelberg: Springer, 2002. (Proceedings of the Global Change Open Science Conference, Amsterdam, Netherlands, 10-13 July 2001.)

### [Death and the Human Environment: America in the 20th Century](#)

JH Ausubel, PS Meyer, IK Wernick  
*Technology in Society* 23(2):131-146, 2001

### [The Great Reversal: Nature's Chance to Restore Land and Sea](#)

*Technology in Society* 22:289-302, 2000

### [Resources Are Elastic](#)

*Earth Matters*, a magazine published by the Earth Institute at Columbia University, pp. 46-47, Winter 1999/2000

### [Because the Brain Does Not Change, Technology Must](#)

In *Production Efficiencies: The Engineers' Report*, American Association of Engineering Societies, pp. 14-18, Washington, DC; republished in *IEEE Aerospace and Electronic Systems* 14(10):3-6, 1999

### [Five Worthy Ways to Spend Large Amounts of Money for Research on Environment and Resources](#)

*The Bridge* 29(3):4-16, Fall 1999

### [Reasons to Worry about the Human Environment](#)

*Cosmos* 8:1-12, 1998. Republished in *Technology and Society* 21:217-231, 1999

### [The Environment for Future Business](#)

*Pollution Prevention Review* 8(1):39-52, Winter 1998

### [Resources and Environment in the 21st Century: Seeing Past the Phantoms](#)

*World Energy Council Journal*, pp. 8-16, July 1998

[Environmental Trends](#)

*Issues in Science and Technology* 13(2):78-81, winter 1996-1997

[Technological Trajectories and the Human Environment](#)

JH Ausubel, HD Langford (eds), Washington, DC: National Academy Press, 1997. Also appeared as special issue, "The Liberation of the Environment," *Daedalus* 125(3), 1996

[The Liberation of the Environment](#)

In *Technological Trajectories and the Human Environment*, JH Ausubel, HD Langford (eds), pp. 1-14, Washington, DC: National Academy Press, 1997; also appeared in *Daedalus* 125(3):1-17, 1996; in Portuguese, A Liberacao do Meio Ambiente, *Tecbahia* 12(2):29-41, 1997; earlier version appeared as Public Lecture No. 11, The Collegium Budapest, January 1995, and in Hungarian as A környezet felszabadítása, *Magyar Tudomány* CII(2):164-171, 1995; in German as [Die Befreiung der Umwelt](#), *Tages Anzeiger*, Zuerich, 23 May 1997, p. 90

[Can Technology Spare the Earth?](#)

*American Scientist* 84(2):166-178, 1996. Republished in *Current Perspectives in Geology*, fourth edition, M McKinney, RL Tolliver, P Shariff (eds), Boston: Wadsworth, 1998

[The Environment Since 1970](#)

JH Ausubel, DG Victor, IK Wernick

*Consequences: The Nature and Implications of Environmental Change* 1(3):2-18, 1995

[Directions for Environmental Technologies](#)

*Impresa Ambiente* 4:8-16, 1994 (in Italian); *Technology in Society* 16(2):139-154, 1994

[2020 Vision](#)

*The Sciences* 33(6):14-19, 1993. Also published in *Science and Technology for Eight Billion People: Europe's Responsibility*, PH Mettler (ed), pp. 307-319, London: New European Publications Limited, 1995

[Verification of International Environmental Agreements](#)

JH Ausubel, DG Victor

*Annual Review of Energy and the Environment* 17:1-43, 1992

[Technology and Environment](#)

JH Ausubel, HE Sladovich (eds), Washington, DC: National Academy Press, 221 pp., 1989

[Technology and Environment: An Overview](#)

JH Ausubel, RA Frosch, R Herman

In *Technology and Environment*, JH Ausubel, HE Sladovich (eds), pp. 1-20. Washington, DC: National Academy Press, 1989

[Regularities in Technological Development: An Environmental View](#)

In *Technology and Environment*, JH Ausubel, HE Sladovich (eds), pp. 70-91. Washington, DC: National Academy Press, 1989

[Current Trends and Environmental Research Needs](#)

*Interdisciplinary Science Reviews* 13:221-231, 1988. doi: 10.1179/isr.1988.13.3.211

## Methods and populations [\(Return to top of list\)](#)

### [Telescopes, Microscopes, Macrosopes and DNA Barcodes](#)

Opening talk, "Using Barcode Data in Studies of Molecular and Evolutionary Dynamics," The Banbury Center, Cold Spring Harbor Laboratory, 28-31 October 2007

### [Barcoding Life, Illustrated: Goals, Rationale, Results](#)

MY Stoeckle, PE Waggoner, JH Ausubel  
Consortium for the Barcode of Life (CBOL) 2005

### [Barcoding Life: Ten Reasons](#)

MY Stoeckle, P Waggoner, JH Ausubel  
Consortium for the Barcode of Life (CBOL) brochure, 2004

### [DRAMs as Model Organisms for Study of Technological Evolution](#)

NM Victor, JH Ausubel  
*Technological Forecasting and Social Change* 69(3):243-262, 2002

### [A Primer on Logistic Growth and Substitution: The Mathematics of the Loglet Lab Software](#)

PS Meyer, JW Yung, JH Ausubel  
*Technological Forecasting and Social Change* 61(3):247-271, 1999

### [The Loglet Lab Software: A Tutorial](#)

*Technological Forecasting and Social Change* 61(3):273-295, 1999

### [Carrying Capacity: A Model with Logistically Varying Limits](#)

PS Meyer, JH Ausubel  
*Technological Forecasting and Social Change* 61(3):209-214, 1999

### [Human Population Dynamics Revisited with the Logistic Model: How Much Can Be Modeled and Predicted?](#)

C Marchetti, P Meyer, JH Ausubel  
*Technological Forecasting and Social Change* 52:1-30, 1996

### [Graphical Representations of World Population Growth](#)

JH Ausubel, PS Meyer  
*Human Dimensions Quarterly* 1(2):17-19, 1994

### [Rat Race Dynamics and Crazy Companies: The Diffusion of Technologies and Social Behavior](#)

*Technological Forecasting and Social Change* 39:11-22, 1991; also pp. 1-17 in *Diffusion of Technologies and Social Behavior*, N Nakicenovic, A. Gruebler (eds), Berlin: Springer, 1991.

### [A Note on the Population Fifty Years Hence](#)

JH Ausubel, MA Stoto  
WP-81-120, International Institute for Applied Systems Analysis, Laxenburg, Austria, 1981. Published as [How Many Will Survive the Next Fifty Years?](#) *Journal of Policy Analysis and Management* 2(1) 118-119, 1982. doi: 10.2307/3323656

## Science policy, universities [\(Return to top of list\)](#)

### [Virtual U: Origins and New Release](#)

Keynote address, First Adopters Workshop, University of Pennsylvania, 1 February 2002. Debut of the second version on the university simulator Virtual U

### [Mastering Science: Graduate Schools Invigorate the MS in Science and Math](#)

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