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PROFESSIONAL EXPERIENCE

SECOND NATURE, Boston, MA

1993–Present

President and Co-founder

Second Nature is a Boston-based, national nonprofit organization working to help higher education prepare future professionals for the increasingly complex environmental, health, economic and social challenges we face. The organization offers individual and networks of colleges and universities a range of programs, training sessions, one-on-one consulting and resources to make the integration of environmental sustainability thinking and action "second nature" to higher education. Specific accomplishments have included:

- Provided strategic consulting to leaders in higher education, business, nonprofit organizations and professional societies.
- Frequent speaker on sustainability, environmental health and education for sustainability.
- Lead programs which have provided training, technical assistance, consultation and educational resources to over 4,000 faculty and administrators at 500 U.S. colleges and universities, including over fifty that primarily serve minority populations.
- Co-led the initiation of a groundbreaking program to make sustainable design a foundation of all architectural education and practice.
- Catalyzed the formation or expansion of seven consortia of over 400 colleges and universities collaborating to make education for sustainability a core mission of their institutions.
- Co-founding leader in The Higher Education Network for Sustainability and the Environment (HENSE), a large national network of university leaders, faculty, students, financial and operations managers and external stakeholders to rapidly advance education for and practice of sustainability.
- Founded the Consortium for Environmental Education in Medicine with the Massachusetts Medical Society to integrate understanding of the environment/health relationship in training of physicians.
- Chairman of the Board and founding member of The Natural Step U.S., a nationally recognized nonprofit organization involved in assisting industry and other institutions to become environmentally sustainable and socially responsible.

TUFTS UNIVERSITY, Medford, MA

Dean, Environmental Programs.

1989–1993

- Responsible for development and coordination of thirteen academic programs involving environmental education, research and policy across the university.
- Co-led the development of five new academic degree programs.
- Founded the Tufts Environmental Literacy Institute, a program for the incorporation of environmental awareness and ethics into academic curriculum and educational experiences for all undergraduate and graduate students; program received Presidential award from President Bush in 1991.
- In 1990, organized, in Talloires, France, the first conference of university presidents who issued a well-known declaration of responsibilities and actions of university presidents in fostering a just and sustainable future. The "Talloires Declaration" has now been signed by 280 university presidents from over fifty countries.
- Co-taught a joint course on global environmental issues between Tufts University and Moscow State University that involved student exchanges and joint classes by satellite TV. The program was broadcast on PBS and the principal Soviet TV station.
- Led the development of a university program to reduce environmental impact of Tufts operations.
- Raised and managed annual budget of \$4–5 million.

Director, Center for Environmental Management. 1984–1989
Adjunct Associate Professor of Environmental Engineering and Policy 1985–1993

- Directed an international, interdisciplinary research, education, and policy center working on long-term solutions to environmental problems.
- Involved over fifty faculty from more than thirty-five disciplines.
- Initiated first research on corporate environmental management and responsibility in the U.S.
- Initiated first training programs on asbestos and lead abatement and control in the U.S.
- Raised and managed annual budget of \$4 million.

THE COMMONWEALTH OF MASSACHUSETTS

Commissioner, Department of Environmental Protection (DEP). Boston, MA 1979–1984

- Directed comprehensive planning, regulatory and assistance programs to control air and water pollution, manage solid and hazardous waste, and protect drinking water and wetlands.
- Initiated state's first auto emissions inspection and maintenance program.
- Implemented state's first comprehensive programs in hazardous waste regulation, enforcement and cleanup.
- Implemented state's first programs in water conservation.
- Implemented water pollution control programs resulting in the percentage of stream-miles meeting water quality standards increasing from 16 percent to 43 percent.
- Led the development of the first international agreement to reduce acid rain in 1983. This agreement between the New England States and Five Eastern Canadian Provinces reduced emissions by 30 percent.
- Led the development of a national organization of state environmental agency directors whose mission was to promote interstate collaboration as well as improve federal/state relations.
- Managed staff of 800 employees with an annual budget of \$25 million and \$120 million in financial aid to communities.

Director, Division of Air and Hazardous Materials, DEP. 1976–1978

- Managed a staff of 140 employees with \$3.3 million annual budget to control air and noise pollution and solid and hazardous material disposal.
- Implemented a comprehensive program to increase energy conservation to reduce emissions by industries and utilities.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Operations Analyst, Office of Planning and Evaluation, Washington, D.C. 1975–1976

- Evaluated proposed environmental regulations and coordinated intermedia programs to deal with toxic pollutants.

Section Chief, Air Branch, Boston, MA 1971–1973

- Assisted New England states in the development of first comprehensive interdisciplinary programs for the control of air pollution in U.S. history, mandated by the Clean Air Act of 1970.

UNITED STATES PUBLIC HEALTH SERVICE 1969–1971

Commissioned Officer, assigned to the U.S. Environmental Protection Agency in Durham, North Carolina and Boston, MA

- Reviewed and evaluated state plans for implementation of air quality standards under the Clean Air Act of 1970.

EDUCATION

1976	Doctor of Science in Environmental Health Sciences, Harvard School of Public Health. Thesis on personal exposure to air pollution. Minor in transportation planning.
1972	M.S., Environmental Engineering, Tufts University
1968	B.S., Civil Engineering, Tufts University

PROFESSIONAL SOCIETIES

1986–Present	American Association for the Advancement of Science (AAAS)
1997–Present	Fellow, American Association for the Advancement of Science
1977–78, 1984–Present	American Public Health Association

HONORARY ACADEMIC SOCIETIES

Phi Beta Kappa Society
Sigma Xi Society
Tau Beta Pi Society
President, Tufts Student Council (1967–1968)

PROFESSIONAL AND COMMUNITY SERVICE

2000–Present	U.S. Board of Councilors for the China – U.S. Center for Sustainable Development
1999–Present	Member, Editorial Board, <u>International Journal for Sustainability in Higher Education</u>
1994–Present	Chairman, Board of Directors and Founding Member, The Natural Step U.S.
1999–Present	Co-founder and Member, Higher Education Network for Sustainability and the Environment
1997–1999	Board of Directors of Center for Environmental Education
1994–2002	Treasurer and Founding Member, Board of Directors, Consortium for Environmental Education in Medicine
1992	Member, Clinton Presidential Transition Team
1992–1998	Member, Board of Trustees, Leukemia and Lymphoma Society of America
1991–1998	Board of Directors and Founding Member, Environmental Business Council of New England
1991–1995	Founding Member, Board of Directors, Management Institute for Environment and Business (of World Resources Institute) whose mission is to integrate environmental and sustainability concerns in business education and practice.
1991–1998	Member, Dow Chemical Company's Corporate Environmental Advisory Council
1989–1993	Member, EPA National Advisory Committee on Environmental Policy and Technology Transfer

1989–1993	Board of Directors, Children's Alliance for Protection of the Environment (C.A.P.E.)
1988–1996	Member, EPA Science Advisory Board
1988–1992	Chairman, Editorial Board, <u>International Environmental Affairs</u>
1988	Consultant to United Nations Environment Program on air quality management for the People's Republic of China
1985–1986	Member, National Research Council Panel on Ground Water Quality Protection
1982–1998	Board of Trustees, Massachusetts Chapter, Leukemia and Lymphoma Society of America 1992-1994, President
1979–1984	Chairman, National Governors' Association Environmental Regulatory Reform Task Force
1977–1980	Board of Directors, National Air Conservation Commission, American Lung Association

PUBLICATIONS: BOOKS AND JOURNALS

Cortese, A.D. and McDonough, W., "Accelerating the Transition to Sustainability Through Higher Education", Environmental Grantmakers Association News & Updates, Spring 2001, pp. 11-13, 34.

Cortese, A.D., "The Role of Engineers in Creating an Environmentally Sustainable Future", Civil Engineering Practice, adapted from the Annual Thomas Camp Distinguished Lecture, Spring/Summer 1999, pp. 29-38.

Cortese, A.D., "Afterword" in Corcoran, P.B., Elder, J., and Tchen, R., Editors, Academic Planning in College and University Environmental Programs: Proceedings of the 1998 Sanibel Symposium, NAAEE, 1998, pp. 110-116.

Cortese, A.D., "Introduction" in Chivian, E., McCally, M., Hu, H. and Haines, A., Editors, Critical Condition: Human Health and the Environment, MIT Press, Cambridge, Massachusetts 1993, pp. 1-12.

Cortese, A.D., "Education for an Environmentally Sustainable Future", Environmental Science and Technology, June 1992, Vol. 26, No. 6, pp. 1108-1114.

Cortese, A.D. and Creighton, S.H., "Environmental Literacy and Action at Tufts University" in Eagan, David and Orr David, Editors, The Campus and Environmental Responsibility, Jossey-Bass Publishers, San Francisco, CA, Spring 1992, No. 77, pp. 19-30.

Cortese, A.D., "Training Professionals: Toward Practicing Environmental Responsibility", EPA Journal, September/October 1991, Vol. 17, No. 4.

Cortese, A.D. and Armoudlian, A.S., "Fostering Ecological and Human Health", The Physicians for Social Responsibility Quarterly, June 1991, Vol. 1, No. 2., pp. 77-85.

Cortese, A.D. and Creighton, S.H., "The Greening of American Universities", The Journal of the Association of Governing Boards of Colleges & Universities, Vol. 33, No. 2, 1991.

Cortese, A.D., "Clearing the Air", Environmental Science & Technology, Vol. 24, No. 4, April 1990, pp. 442-448.

Cortese, A.D., "Glasnost, Perestroika and the Environment", Environmental Science & Technology, Vol. 23, No. 10, October 1989, pp. 1212-1213.

Cortese, A.D., "Research and Development in Environmental Management: The Tufts Approach", Proceedings of the Eight Japan-U.S. Governmental Conference on Solid Waste Management, September 1989.

Cortese, A.D., "Waste Minimization and Its Role in Developing Countries", Proceedings of the International Solid Waste Association Workshop on Adapting Hazardous Waste Management to the Needs and Problems of Developing Countries, September 1989.

Cortese, A.D., "Innovative Approaches to Protecting the Environment in the 21st Century," International Solid Waste Association Proceedings of the Conference on Waste Minimization and Clean Technology: Moving Toward the 21st Century, Geneva, May 1989.

Cortese, A.D., "Environmental Protection in the 1990's", Editorial, Hazardous Waste & Hazardous Materials, Vol. 5, No. 4, Fall 1988.

Cortese, A.D., Gilbert, J.B. and David, J.D., "Groundwater Quality Protection: State and Local Strategies," American Water Resources Association, Proceedings of the International Symposium on Water-Related Health Issues, November 1986.

Cortese, A.D., "Acid Rain Control: The Policy Dilemma," Journal of Environmental Health, Vol. 49, No. 2. September/October 1986.

Cortese, A.D. and Rappaport, A.B., "Improving the Federal-State Partnership in Hazardous Waste Control," Hazardous Wastes and Hazardous Materials, Vol. 1, No. 3, Fall 1984.

Cortese, A.D., Lilley, F.W., Kinlock, D., and Shy, C.M., "Establishment of a Safe Exposure Level for Nitrogen Dioxide in a Densely Populated Urban Area," Proceedings of the Air Pollution Control Association Meeting, APCA Paper, 78-5.8, June 1978.

Cortese, A.D. and Spengler, J.D., "Ability of Fixed Monitoring Station to Represent Personal Carbon Monoxide Exposure," Journal of the Air Pollution Control Association, 1975.

Cortese, A.D. and Spengler, J.D., "Nitrogen Oxide Emissions and Their Distribution," Chap. 14, Air Quality and Stationary Source Emission Control, Report of the National Academy of Sciences, March 1975.

PUBLICATIONS: BOOK REVIEWS

Cortese, A. D., Review of Our Stolen Future, Theo Colborn, John Peterson Myers, Diane Dumanoski; Dutton, New York, 1996 in Environmental Science & Technology, Vol. 30, No. 5, 1996, pp. 213 A-215 A.

Cortese, A. D., Review of Changing Course: A Global Business Perspective on Development and the Environment, Stephan Schmidheiny, MIT Press, Cambridge, MA, 1992 (374 pages) in International Environmental Affairs, Vol. 5, No. 1, Winter 1993, pp. 72-75.

OTHER PUBLICATIONS (partial list)

Cortese, A.D., "Earthkeeping: Education for a Sustainable Future", Cape Cod Times, Sunday, March 2, 1997, pp. G-2, G-7.

Cortese, A.D., "Medicine for a Small Planet", Conservation Matters; Journal of the Conservation Law Foundation, Special Issue: Health and the Environment. Autumn 1995, Vol. 2, No. 3, pp 10-11.

Cortese, A.D., "Fostering an Environmentally Sustainable Future", George C. Marshall Leadership Conference Report, George C. Marshall Foundation, Lexington, VA, March 1992, pp 5-14.

Cortese, A.D., "Preventing Hazardous Air Pollution," The Environmental Forum, Vol. 5, No. 5, November/December 1988.

White, D.C., Shively, W.E., Dunckel, J.R. and Cortese, A.D., "Summary of Hazardous Waste Treatment at Superfund Sites," Environment Reporter, pp. 1121-1129, August 21, 1987.

Cortese, A.D., "Improving the Federal/State Environmental Partnership," Environmental Forum, January 1983.

Cortese, A.D., "The Health Basis for Clean Air," Amicus Journal, January 1981.

SPEECHES, KEYNOTES AND PRESENTATIONS (*partial list, 1999–2002*)

- North American Association for Environmental Education Annual Conference in Boston, MA.
Keynote Speaker: "The Critical Role of "Total Environmental Education: in Achieving a Just and Sustainable Future", August 2002
- Humboldt State University, Humboldt, CA. Public Lecture and Consultation: "Building Sustainable Futures," April 2002.
- Harvard Extension School, Course on Sustainable Development, Harvard University, Cambridge, MA.
Guest Lecture: "Higher Education for the Twenty-first Century", December 2001.
- Harvard Business School, Harvard University, Cambridge, MA. Guest Speaker: Business Education for the Next Industrial Revolution to Create a Sustainable Society", November 2001.
- Campus Environmental Leadership Summit of New England, Brandeis University, Waltham, MA.
Plenary Panelist: "The Critical Role of Student Leadership in Making Sustainability a Foundation of Higher Education", November 2001.
- New York State Association of Independent Schools/Connecticut Association of Independent Schools,
2001 Annual Heads of Schools Conference, New Paltz, NY. Keynote Speaker: "Education for a Healthy, Just, Secure and Environmentally Sustainable Future", November 2001.
- Investor's Circle National Conference "Venture Capital for A Sustainable Future" Charles Hotel,
Cambridge, MA. Workshop Leader and Presenter: "Achieving a Sustainable Business Through 'The Natural Step Framework'", September 2001.
- Oregon Sustainability Forum and West Coast University Sustainability Network, Portland, OR. Plenary Speaker and Workshop Leader: "Critical Role of Higher Education in Creating a Healthy, Just and Sustainable Future", September 2001.
- Clarkson University, Potsdam, NY. Convocation Address: "Education for a Sustainable Future: The Next Industrial Revolution", August 2001.
- ENTECH '01 Environmental Management and Technology Industry Conference and Exhibition, Atlantic City, NJ. Keynote Presenter: "Role of Environmental Professionals in Creating the Next Industrial Revolution to Achieve a Healthy, Just and Sustainable Society", June 2001.
- First Do No Harm: Towards Environmental Sustainability at the Harvard Schools of Medicine and Public Health Conference, Harvard Medical School, Boston, MA. Keynote Address: "Environmental Sustainability as a Hippocratic Ethic for Health Professionals in the Twenty-first Century", June 2001.
- Best Practices in Environmental Management Seminar sponsored by Yale University Office of Environmental Health and Safety/EPA Region 1, New Haven, CT. Plenary Speaker: "From Environmental Management to a Healthy, Just and Environmentally Sustainable Learning and Practice in Higher Education", May 2001.
- Environmental Expo, Boston, MA. Keynote Luncheon Speaker: "Envisioning a Sustainable Future: The Next Industrial Revolution", May 2001.
- Colorado State University, Fort Collins, CO. Public Lecture, Consultation and Workshop: "How to Make Sustainability a Foundation of All Learning and Practice at CSU", April 2001.
- 2001 Campus Earth Summit, University of Colorado, Boulder, CO. Consultation and Radio Program, Keynote Address: "Importance of Higher Education Making Sustainability a Foundation of all Learning, Research, Operations and Community Collaboration", April 2001.
- Warren Wilson College, Asheville, NC. Public Lecture and Consultation: "Higher Education Leadership in Creating a Healthy, Just and Environmentally Sustainable Society", April 2001
- Campus Ecology/University Leaders for a Sustainable Future Conference, Washington, DC.
Introductory remarks: "Importance of Higher Education Modeling Sustainability in all Learning and Practice", March 2001.

Yale Greening of the Ivies Conference, New Haven, CT. Keynote Address: "How the Ivy League Schools Can Lead Education for Sustainability in Higher Education", February 2001.

New England Water Environment Association Annual Meeting, Boston, MA. Keynote Speaker: "Fostering a Just and Sustainable Future", January 2001.

Harvard University Committee on Environment and the Environmental Network, Cambridge, MA. Plenary session participant: "Why Campuses Must Develop Environmental Leaders", October 2000.

The University of Massachusetts Lowell Committee on Industrial Theory and Assessment International Conference: Approaches to Sustainable Regional Development: The Role of the University in the Globalizing Economy, Lowell, MA. Speaker: "The Critical Role of Higher Education in Fostering a Just and Sustainable Future", October 2000.

Second Nature Northeast Regional Workshop: "Best Practices in Sustainability in Higher Education", Trinity Conference Center, West Cornwall, CT. Keynote address, October 2000.

New Bedford Chamber of Commerce, University of Massachusetts, Dartmouth and City of New Bedford conference: "The Bottom Line of Green is Black: Strategies for Creating Profitable, Environmentally Sound Business". Speaker: "The Role of Higher Education in Fostering Sustainable Businesses and Communities", September 2000.

University of Massachusetts, Boston class: "Introduction to Nutrition" and university lecture, Boston, MA. Presentation: "A Just and Sustainable Future: The Defining Issue for the New Millennium", September 2000.

State of the World Forum: Millennium Institute, New York, NY. Presentation: "Globalization and Sustainability: The Critical Challenges in the 21st Century", September 2000.

Harvard School of Public Health, Forum for Visiting Scholars, Cambridge, MA. Keynote address: "Education for a Healthy, Just and Sustainable Future", June 2000.

Regional Symposium on Sustainable Communities, Roanoke, VA. Keynote address: "Fostering a Just and Sustainable Future Through Community Development and University Collaboration", May 2000.

Chatham College, Pittsburgh, PA. Keynote address: "The Role of Higher Education in Fostering a Just and Environmentally Sustainable Future", April 2000.

The New Jersey Sustainable Business Conference, hosted by Rutgers Graduate School of Management, NJHEPS Sustainable Business Meeting, New Jersey. Speaker, April 2000.

Associated Colleges of the South workshop, Atlanta, GA. Keynote speaker: "Universities Modeling Sustainability in Education, Research, Operations and Community Collaboration", April 2000.

Forum at Boston University, Boston, MA. Speech: "Critical Role of the Environment in Developing and Sustaining Human Health: A Defining Issue for the New Millennium", March 2000.

MIT panel on Alliance for Global Sustainability, Cambridge, MA. Panel member: "Leveraging Change: Education for Sustainability in Higher Education", January 2000.

University of North Carolina Environmental Sustainability Conference for Senior University Managers, Chapel Hill, NC. Presentation: "Importance of Higher Education in Achieving a Sustainable Future: Strategies for Action", September 1999.

Conference Board, Corporate Environmental Health & Safety Council Meeting, Wilmington, DE. Presentation: "Business, the Community and the University: Achieving Sustainability", July 1999.

Cape Cod Community College, Cape Cod, MA. Presentation: "The Role of Higher Education in Fostering a Just and Sustainable Future", July 1999.

New England Public Health Association Annual Meeting and Conference. Presentation: "The Critical Role of the Environment in Protecting Human Health: A Defining Issue of the New Millennium", June 1999.

President's Council on Sustainable Development, National Town Meeting, Detroit, MI. Presentation: "Importance of Higher Education in Achieving a Sustainable Future", May 1999.

Regis College. Keynote address: "The Critical Role of the Environment in Protecting Human Health: A Defining Issue of the New Millennium", April 1999.

Associated Colleges of the South, Environmental Fellows Workshop, Hendrix College, Conway, AR. Keynote address: "Higher Education for the 21st Century", April 1999.

The Natural Step U.S., Annual Conference, Portland State University presentation, Portland, OR. "Utilizing The Natural Step for Implementing Sustainability in Higher Education", April 1999.

EPA and Harvard School of Medicine and Public Health Conference, Cambridge, MA. University Environmental Compliance and Pollution Prevention: "Making Sustainability a Foundation of Higher Education", March 1999.

University of Hawaii at Manoa workshops, Manoa, HI. "Creating the Transition to a Sustainable Society Through Higher Education" and "Universities Modeling Sustainability: Greening Campus Operations", March 1999.

MIT, Society of Women Engineers Meeting, Boston, MA. "Creating the Paradigm Shift for a Just and Sustainable Future in the 21st Century", February 1999.

Sustainable Boston Workshop on Eco-Industrial Development, "Building the Capacity to Promote Eco-Industrial Development", Boston, MA. February 1999.

University of Massachusetts, Boston, Sustainability Workshop, Boston, MA. Keynote address: "Sustainability in Higher Education", January 1999.

VISITING LECTURES AT FOLLOWING UNIVERSITIES (*partial list, 1993–Present*)

Bates College	Moscow State University
Boston University	North Carolina State University
Brandeis University	Regis College
Chatham College	Tufts University
Clark Atlanta University	Tuskegee University
Clarkson University	University of Colorado
Clark University	University of Hawaii
Colorado State University	University of Massachusetts, Boston
Federal University of Mato Grosso, Brazil	University of Massachusetts, Dartmouth
Federal University of Rio de Janeiro, Brazil	University of Massachusetts, Lowell
Harvard Medical School	University of Sao Paolo, Brazil
Harvard University	University of South Carolina
Humboldt State Univeresity	Vermont Law School
Hendrix College	Virginia Polytechnic Institute
Massachusetts Institute of Technology (MIT)	Warren Wilson College
Michigan State University	Yale University

AWARDS

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| 2002 | First Annual Environmental Business Council – New England Award to Second Nature for Achievement in Environmental Education |
| 2002 | First Presidents' Award for Leadership from the New Jersey Higher Education Partnership for Sustainability |
| 2001 | Christopher Columbus Celebrate Discovery Award, Tufts University and Commonwealth of Massachusetts |
| 1999 | Leukemia and Lymphoma Society of America, Chairman's 50 th Anniversary Award for Outstanding Service |
| 1998 | Elected Fellow of the American Association for the Advancement of Science |
| 1992 | Distinguished Service Award, Tufts Alumni Association |
| 1991 | Environmental Conservation Award from President Bush to the Tufts Environmental Literacy Institute; only university to receive a Presidential Environmental Award |
| 1991 | Distinguished Service Award, Tufts Civil and Environmental Engineering Department |
| 1988 | Environmental Merit Award, US Environmental Protection Agency, Region I |
| 1988 | Recipient of the first Dr. Anthony D. Cortese volunteer award of the Leukemia Society of America, Massachusetts Chapter |
| 1981 | Paul Revere Award for contribution to public health, Massachusetts Public Health Association |
| 1977 | EPA Silver Medal for establishment of priority system for toxic pollutants in US Water |
| 1972 | Personal Citation from President Nixon for work on implementing the Clean Air Act in New England |

References are available upon request