

## Jan Beyea

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### EDUCATION:

Ph.D., Columbia University, 1970 (Physics).  
B.A., Amherst College, 1962.

### PROFESSIONAL EXPERIENCE:

1968 to 1970	Research Associate, Columbia University Physics Department.
1970 to 1976	Assistant Professor of Physics, Holy Cross College.
1976 to 1980	Research Staff, Center for Energy & Environmental Studies, Princeton Univ.
1980 to 1991	Senior Scientist, National Audubon Society, NY, NY.
1992 to 1995	Chief Scientist & Vice President, National Audubon Society, NY, NY
1996 to 2018	Senior Scientist, Consulting in the Public Interest, Lambertville, NJ
2019 to date	Senior Scientist, Emeritus, Consulting in the Public Interest, Lambertville, NJ

### ADVISORY ACTIVITIES & APPOINTMENTS:

#### Current:

- Nat. Academies of Science, National Associate and Division Advisor (Division on Engineering and Physical Sciences).
- Fellow of the American Physics Society

#### Past:

- Peer reviewer for the American Journal of Public Health, Environmental Health Perspectives, International J. of Cancer, Environmental Research, Environmental Pollution, Environmental Toxicology and Chemistry, Energy and Environmental Science, Chemosphere, Bioscience, Atmospheric Chemistry and Physics, Environmental Management, Environmental Science and Technology, PLOS-1, Pan American Journal of Public Health, Science of the Total Environment, Science & Global Security, Medical Science Monitor, Atmospheric Pollution Research, and various Boards of the National Research Council, including the Board on Radioactive Waste, the Nuclear and Radiation Studies Board and the Board on Environmental Studies & Toxicology.
- Named reviewer: National Academies of Sciences (2022). "Leveraging Advances in Modern Science to Revitalize Low-Dose Radiation Research in the United States."
- Nat. Research Council (Nat. Academies of Science), Committee on Lessons Learned from the Fukushima Nuclear Accident, Phase 2. 2016.
- Nat. Research Council (Nat. Academies of Science), Committee on Lessons Learned from the Fukushima Nuclear Accident, Phase 1. 2014.
- Nat. Research Council (Nat. Academies of Science), Committee on the Prospects for Inertial Fusion Energy, 2010-2013
- Nat. Research Council (Nat. Academies of Science), Committee on America's Energy Future, 2007-2009
- Nat. Research Council (Nat. Academies of Science), Committee on Alternatives to Indian Point Reactors, 2005-2006
- Nat. Research Council, Comm. on Alternatives for the Release of Solid Materials from Nuclear

Regulatory Commission-Licensed Facilities, 2001-2002. Chair of technical committee.  
-Consultant to law firm of Berger & Montague on exposure reconstruction and related health effects

- Member, Technical Advisory Committee on Forest Health Monitoring, Assessment and Evaluation, New York State Department of Environmental Conservation, 2001-2002
- Nat. Research Council, Comm. on DOE'S Fine Particulate Research Program, 1999
- Nat. Research Council, Board on Energy and Environmental Systems, 1993-1998.
- Nat. Research Council, Committee on "Linking Sci. & Tech. to Society's Environ. Goals."
- Board Member, Recycling Advisory Council, sponsored by the EPA, 1994-1996
- Composting Committee, Coalition of Northeastern Governors (co-chair) 1994-1996
- Member, Source Reduction Task Force, Coalition of Northeastern Governors 1991-1995
- Secretary of Energy's Advisory Board, Task Force on Economic Modeling, 1991
- Nat. Research Council, Comm. on Alternative Energy R&D Strategies, 1990-1991
- Office of Technology Assessment, Advisor to various studies, 1984-1988

### **Articles, reports and testimony related to nuclear radiation issues and radiation epidemiology**

Beyea, J. and G. Hoffmann (2023) "False Indications of Dose-Response Nonlinearity in Large Epidemiologic Cancer Radiation Cohort Studies; A Simulation Exercise," *Radiation Research* 199(4): 354-372.

Beyea, J. (2022) "Implications of recent epidemiological studies for compensation of veterans exposed to plutonium.," *Health Physics* 123(2): 133-153.

Beyea, J. and F. N. von Hippel. (2019) "History of Dose, Risk, and Compensation Assessments for US Veterans of the 1966 Plutonium Cleanup in Palomares, Spain." *Health Physics* 117: 625-636.

Beyea J. (2018). "Comments on the proposed rule: "Strengthening Transparency in Regulatory Science," Docket ID No. EPA-HQ-OA-2018-0259, sometimes called the "Secret Science" rule. (Available at: <https://www.regulations.gov/document?D=EPA-HQ-OA-2018-0259-6955> Accessed 29 August 2018). Page 11 on.

Beyea J. (2018) A better direction for low-dose radiation research [online]. *Bulletin of the Atomic Scientists*. Available at: <https://thebulletin.org/better-direction-low-dose-radiation-research11500>. Accessed March 25.

Beyea J. (2017) Lessons to be learned from a contentious challenge to mainstream radiobiological science (the linear no-threshold theory of genetic mutations). *Environ Res* 154: 362-379.

Beyea, J. (2016). "Response to, 'On the origins of the linear no-threshold (LNT) dogma by means of untruths, artful dodges and blind faith'." *Environ. Res.* [doi:10.1016/j.envres.2016.01.039].

"Lessons learned from the Fukushima nuclear accident for improving safety of U.S. Nuclear plants. (Beyea and 20 others) Washington:US National Research Council, National Academies of Sciences, The National Academies Press, 2014.

Beyea, J., et al. (2013). "X-ray doses from radar received by Belgian professional military radar operators." *International Journal of Cancer* 134(12): 2995-2996.

Beyea, J., et al. (2013). "Accounting for long-term doses in "worldwide health effects of the Fukushima Daiichi nuclear accident"." Energy & Environmental Science 6(3): 1042-1045.

Beyea, J. (2012). "DNA Damage after Continuous Irradiation: Findings in Mice Compared with Human Epidemiologic Data." (Letter) Environmental Health Perspectives. 2012: 120:a383

Beyea, J. (2012) "Special issue on the risks of exposure to low-level radiation." Bulletin of the Atomic Scientists. 68:10-12.

Beyea, J. (2012). "The scientific jigsaw puzzle: Fitting the pieces of the low-level radiation debate." Bulletin of the Atomic Scientists. 68:13-28.

Beyea, J. "Feasibility of developing exposure estimates for use in epidemiological studies of radioactive emissions from the Santa Susana Field Laboratory." Report to the Santa Susana Field Laboratory Advisory Panel, a Project of The Tides Center (<http://www.ssflpanel.org>), October 5, 2006.

Beyea, J. "Report To The Massachusetts Attorney General On The Potential Consequences Of A Spent-Fuel-Pool Fire At The Pilgrim Or Vermont Yankee Nuclear Plant," May 25, 2006.

Beyea, J., et al. (2004). "Damages from a Major Release of <sup>137</sup>Cs into the Atmosphere of the United States." Science and Global Security 12: 125-136. (Addendum to next paper.)

"Reducing the Hazards from Stored Spent Power-Reactor Fuel in the United States," (Alvarez, Beyea, Janberg, Kang, Lyman, Macfarlane, Thompson, von Hippel), Science and Global Security, 11:1–51, 2003.

"Response by the Authors to the NRC Review of 'Reducing the Hazards from Stored Spent Power-Reactor Fuel in the United States,' (Alvarez, Beyea, Janberg, Kang, Lyman, Macfarlane, Thompson, and von Hippel), Science and Global Security, 2003: 11:213-223."

"Recent developments in the scientific literature concerning radiation and disease." Report to the Public Advocate of the Nuclear Claims Tribunal of the Marshall Islands, September, 2003

"The Disposition Dilemma: Controlling the Release of Solid Materials from USNRC-Licensed Facilities," (With Richard McGee et al.), National Research Council, National Academy Press, 2002.

"The Association Between Radiation and Non-Neoplastic Thyroid Disease: a Brief Review of the Literature," Presentation at the Workshop on Targeted Screening for Thyroid and Parathyroid Disease in a Higher-Risk Population Exposed to Iodine-131, Department of Health and Human Services, Advisory Committee on Energy-Related Epidemiologic Research (ACERER), Columbia, Maryland, June 8, 2000.

"The importance of specifying the underlying biologic model in estimating the probability of causation," (Beyea and Greenland), Health Physics 76: 269-274, 1999.

"Animal Burrowing Attributes Affecting Hazardous Waste Management," (Smallwood, Morrison, Beyea), Environmental Management, 22(6): 931-847, 1998.

"Issues in the Dose-response Analysis of the Mayak Case-Control Study," Health Physics (letter), 74(6): 726-727, 1998.

"Fallout exposures from US weapon tests: Were the doses high enough to cause autoimmune thyroid diseases?" Statement prepared for the Institute of Medicine's Committee on "Exposure of the American People to I-131 from Nevada Atomic-Bomb Tests"

"Monitoring the Dispersal of Contaminants by Wildlife at Nuclear Weapons and Waste

Storage Facilities, USA." (Morrison, Smallwood, Beyea) The Environmentalist, 17: 289-295, 1997.

"Fallout Exposures from US Weapon Tests: Health Effects other than Thyroid Cancer," Before the Approp. Comm. on Labor, Health and Human Services and Education, US Senate, Oct. 1, 1997

"Plutonium distribution in the environs of Rocky Flats." (With Milton Hoenig), Health Physics (letter) 73(1), 271-272 (1997)

"Comments on 'A Reevaluation of Cancer Incidence near the Three Mile Island Nuclear Plant' " (with Hatch and Susser), Environ Health Perspectives 105(1), 12 (1997)

The Use of Film Badge Data to Estimate Radioactive Releases from Nuclear Facilities (with V. Harms), TMI Public Health Fund, August 1993.

"Nuclear Energy", (with Valerie Harms), Environment, April 1991.

"Cancer Rates after the Three Mile Island Nuclear Accident and Proximity of Residence to the Plant", (Hatch, Wallenstein, Beyea, Nieves, Susser), American Journal of Public Health, 18(6), 719-724 June 1991.

"Cancer Near the Three Mile Island Nuclear Plant: Radiation Emissions", (Hatch, Beyea, Nieves, Susser), American Journal of Epidemiology, 132(3), 397-412, Sept. 1990.

"Childhood Cancer Near Three Mile Island: Nuclear Plant Emissions and Background Radiation," (Hatch, Wallenstein, Beyea, Susser), Columbia University, New York, Sept. 1990.

Re-Estimating the Noble Gas Releases from the Three Mile Island Accident (with J. DeCicco), TMI Public Health Fund, August 1990.

"Nuclear Power - Only as a Last Resort to Stave Off Global Warming", Forum for Applied Research and Public Policy," Sept. 1990.

"A Realistic Agenda for Second Generation Nuclear Reactors", before the Subcommittee on Energy and the Environment of the Committee on Interior and Insular Affairs, U.S. Senate, May 10, 1990.

"Is There Any Role for Nuclear Power in Preventing Climate Disruption?", Hearing before the Subcommittee on Energy and Power, House of Representatives, Serial No. 101-17, March, 1989.

"On Potential Radiation Dosage Consequences of the Accidents that Form the Basis for the NRC Emergency Planning Rules," on behalf of the Attorney General of Massachusetts in the matter of Public Service Company of New Hampshire (Seabrook Station, Units 1 and 2) [with Steven C. Sholly, Gordon Thompson, Jennifer Leaning.] September, 1987. Also, "Sheltering at Seabrook", (with Gordon Thompson and Robert Goble), June 16, 1988.

"Responses to the Chernobyl Accident", before the Committee on Energy and Natural Resources, U. S. Senate, June 19, 1986.

Notes on Long-Range Issues in Nuclear Regulation, in "Regulation and the Nuclear Option," Institute for Energy Analyses, Oak Ridge Associated Universities, 1986.

Proceedings of the Workshop on Three Mile Island Dosimetry, Three Mile Island Public Health Fund, 1622 Locust Street, Phila., Pa., Dec., 1985.

Review of Dose Assessments at Three Mile Island and Recommendations for Future Research,

Report to the Three Mile Island Public Health Fund, August 1984. [See also, "Author Challenges Review", Health Physics Newsletter, March, 1985, and "TMI--Six Years Later", Nuclear Medicine, 26, p. 1345, 1985.]

"Containment of a Reactor Meltdown", (with Frank von Hippel), Bulletin of Atomic Scientists, 38, p. 52, August/September, 1982.

"Second Thoughts (about Nuclear Safety)", in Nuclear Power: Both Sides, W. W. Norton and Co. (New York, 1982).

"Some Consequences of Catastrophic Accidents at Indian Point and Their Implications for Emergency Planning," testimony and cross-examination before the Nuclear Regulatory Commission's Atomic Safety and Licensing Board, on behalf of the New York State Attorney General and others, July, 1982.

"Future Prospects for Commercial Nuclear Power in the United States", before the Subcommittee on Oversight and Investigations, Committee on Interior and Insular Affairs, U. S. House of Representatives, October 23, 1981.

"Stockpiling of Potassium Iodide for the General Public as a Condition for Restart of TMI Unit No. 1", testimony and cross-examination before the Atomic Safety and Licensing Board on behalf of the Anti-Nuclear Group Representing York, April, 1981.

"Emergency Planning for Reactor Accidents", Bulletin of Atomic Scientists, 36, p. 40, December, 1980. (An earlier version of the article appeared in German as Chapter 3 in Im Ernstfall Hilflös, E. R. Koch, Fritz Vahrenholt, editors, Keipenheuer & Witsch, Cologne, 1980.)

Some Long-Term Consequences of Hypothetical Major Releases of Radioactivity to the Atmosphere from Three Mile Island, Report to the President's Council on Environmental Quality, December, 1980.

Decontamination of Krypton 85 from Three Mile Island Nuclear Plant, (with Kendall et al), Report of the Union of Concerned Scientists to the Governor of Pennsylvania, May 15, 1980.

Some Comments on Consequences of Hypothetical Reactor Accidents at the Philippines Nuclear Power Plant (with Gordon Thompson), Audubon EPAD Report #3, April, 1980.

Nuclear Reactor Accidents: The Value of Improved Containment, (with Frank von Hippel), Center for Energy and Environmental Studies Report PU/CEES 94, Princeton University, January, 1980.

"Dispute at Indian Point", Bulletin of Atomic Scientists, 36, p. 63, May, 1980.

"Nuclear Reactors: How Safe Are They?", panel discussion sponsored by the Academy Forum of the National Academy of Sciences, Wash., D.C., May 5, 1980.

"Advice and Recommendations Concerning Changes in Reactor Design and Safety Analysis which should be Required in Light of the Accident at Three Mile Island", statement to the Nuclear Regulatory Commission concerning the proposed rulemaking hearing on degraded cores, December 29, 1980.

"The Crisis of Nuclear Energy", Subject No. 367 on William Buckley's Firing Line, P.B.S. Television. Transcript printed by Southern Education Communications Assoc., 928 Woodrow Street, P. O. Box 5966, Columbia, S.C., 1979.

The Effects of Releases to the Atmosphere of Radioactivity from Hypothetical Large-Scale Accidents at the Proposed Gorleben Waste Treatment Facility, report to the Government of lower Saxony, Federal Republic of Germany, as part of the Gorleben International Review, February, 1979.

"Alternatives to the Indian Point Nuclear Reactors", statement before the Environmental Protection Committee of the New York City Council, December 14, 1979. Also before the Committee, "The Impact on New York City of Reactor Accidents at Indian Point", June 11, 1979. Also "Consequences of a Catastrophic Reactor Accident", statement to the New York City Board of Health, August 12, 1976 (with Frank von Hippel).

Reactor Safety Research at the Large Consequence End of the Risk Spectrum, presented to the Experts' Meeting on Reactor Safety Research in the Federal Republic of Germany, Bonn, September 1, 1978.

"Emergency Planning for a Catastrophic Reactor Accident", testimony before the California Energy Resources and Development Commission, Emergency Response and Evacuation Plans Hearings, p. 171, November 4, 1978.

A Study of Some of the Consequences of Hypothetical Reactor Accidents at Barseback, report to the Swedish Energy Comm., Stockholm, DS I 1978:5, 1978.

"Consequences of Catastrophic Accidents at Jamesport", testimony before the N.Y. State Board on Electric Generation Siting and the Environment in the Matter of Long Island Lighting Co. (Jamesport Nuclear Power Station), May, 1977.

"Short-Term Effects of Catastrophic Accidents on Communities Surrounding the Sundesert Nuclear Installation", testimony before the California Energy Resources and Development Commission, December 3, 1976.

"Comments on WASH-1400," Statement to the Subcommittee on Energy and the Environment, Oversight Hearings on Reactor Safety, June 11, 1976, Serial No. 94-61, p. 210.

"Upper Limit Calculations of Deaths from Nuclear Reactors," Bulletin of American Physics Society, 21, III 1976.

### **Articles and presentations related to non-radioactive pollutants and environmental epidemiology**

Callahan CL et al. (2018). "Lifetime exposure to ambient air pollution and methylation of tumor suppressor genes in breast tumors." *Environmental Research* 161: 418-424.

Beyea J. (2018). "Comments on the proposed rule: "Strengthening Transparency in Regulatory Science," Docket ID No. EPA-HQ-OA-2018-0259, sometimes called the "Secret Science" rule. (Available at: <https://www.regulations.gov/document?D=EPA-HQ-OA-2018-0259-6955> Accessed 29 August 2018).

Niehoff N et al. (2017). "Polycyclic aromatic hydrocarbons and postmenopausal breast cancer: An evaluation of effect measure modification by body mass index and weight change." *Environmental Research* 152: 17-25.

Mordukhovich, I., Beyea, J., et al. (2016). " Polymorphisms in DNA repair genes, traffic-related polycyclic aromatic hydrocarbon exposure, and breast cancer incidence." *International Journal of Cancer*.

White, A. J., et al. (2016). "Sources of polycyclic aromatic hydrocarbons are associated with gene-specific promoter methylation in women with breast cancer." *Environmental Research* 145: 93-100.

Mordukhovich, I., Beyea, J., et al. (2016). "Vehicular Traffic-Related Polycyclic Aromatic Hydrocarbon Exposure and Breast Cancer Incidence: The Long Island Breast Cancer Study Project (LIBCSP)." *Environmental health perspectives*.

White, A. J., Teitelbaum, SL., Stellman, SD, Beyea, J., et al. (2014). "Indoor air pollution exposure from use of indoor stoves and fireplaces in association with breast cancer: a case-control study." *Environmental Health* 13(1): 108.

Heinze, G., Ploner, M, Beyea, J. (2013). "Confidence intervals after multiple imputation: combining profile likelihood information from logistic regressions." *Statistics in Medicine* 32(29): 5062-5076.

Beyea, J., et al. (2013). "Imputation method for lifetime exposure assessment in air pollution epidemiologic studies." *Environmental Health* 12(1): 62.

Li, Y., Nie, J., Beyea, J. et al. (2013). "Exposure to traffic emissions: Associations with biomarkers of antioxidant status and oxidative damage." *Environ. Res.* 121(0): 31-38.

Beyea, J. (2010). "The smart electricity grid and scientific research." *Science* 328(5981): 979-980.

Beyea, J., et al. (2008). "Airborne emissions from 1961 to 2004 of benzo[a]pyrene from U.S. Vehicles per km of travel based on tunnel studies." *Environ. Sci. Technol.* 42(19): 7315-7320.

Nie, J., Beyea, J., et al. (2007). "Exposure to traffic emissions throughout life and risk of breast cancer: the Western New York Exposures and Breast Cancer (WEB) study." *Cancer Causes Control* 18(9): 947-955.

Beyea, J., et al. (2006). "Validation and calibration of a model used to reconstruct historical exposure to polycyclic aromatic hydrocarbons for use in epidemiologic studies." *Environ. Health Perspect.* 114(7): 1053-1058.

"Traffic Polycyclic Aromatic Hydrocarbons (PAHs), Genetic Susceptibility and Risk of Breast Cancer." (Nie, Beyea, Bonner, Han, Vena, Rogerson, Vito, Muti, Trevisan, Shields, and Freudenheim). 3rd International Congress of Developmental Origins of Health and Disease, November 16-19, 2005, Toronto. Abstract at, *Pediatric Research* 2005 58: 1025.

Shantakumar, S., et al. (2005). "Residential environmental exposures and other characteristics associated with detectable PAH-DNA adducts in peripheral mononuclear cells in a population-based sample of adult females." *J Expo Anal Environ Epidemiol* **advance online publication, 27 April 2005; doi:10.1038/sj.jea.7500426**.

"Environmental exposure to traffic polycyclic aromatic hydrocarbons (PAHs) and risk of breast cancer." (Nie, Beyea, ....., Freudenheim, et al.) American Association for Cancer Research Annual Meeting. Anaheim, April 18, 2005. *Proc Amer Assoc Cancer Res* 2005;46:513 [Abstract #2183]

Gammon, M., et al. (2004). "Polycyclic aromatic hydrocarbon-DNA adducts and breast cancer: a pooled analysis." *Arch Environ Health* 59(12): 640-649.

"Development of a traffic model for predicting airborne PAH exposures since 1960 on Long Island, New York," Beyea, Hatch et al., Report to the National Cancer Institute and the National Institute of Environmental Health Sciences for work completed under USPHS Grant U01-CA/ES-66572.

<http://www.cipi.com/pdf/beyea2005trafficpahmodel.pdf>

Gammon, M. D., et al. (2002). "The Long Island Breast Cancer Study Project: Description of a multi-institutional collaboration to identify environmental risk factors for breast cancer." *Breast Cancer Res. Treat.* 74(3): 235-254.

"Historical reconstruction of exposure to polycyclic aromatic hydrocarbons and model validation: examples from the Long Island Breast Cancer Study Project." (Beyea, Hatch, Stellman, Gammon et al.) Invited paper to be presented at the Joint Conference of the International Society of Exposure Analysis and the International Society for Environmental Epidemiology, Vancouver, August 2002.

"Validation of airborne PAH exposure opportunity estimates for a large-scale epidemiologic study using soil samples collected at subjects' homes." (Stellman, Beyea, Hatch et al.) Meeting of the International Society of Exposure Analysis, poster, Charleston, 2001.

"Spatial distribution of polycyclic aromatic hydrocarbons in 500 residential soils samples collection on Long Island, NY in relation to traffic patterns." (Beyea, Stellman, Hatch et al.) 22nd Annual Meeting of the Society for Environmental Toxicology and Chemistry, poster, Baltimore, Nov. 12-15, 2001.

Beyea, J. and M. Hatch (1999). "Geographic exposure modeling: a valuable extension of GIS for use in environmental epidemiology." *Environ. Health Perspect.* 107, Suppl. 1: 181-190.

Cook, J. and J. Beyea (1998). "Potential Toxic and Carcinogenic Chemical Contaminants in Source-Separated Municipal Solid Waste Composts: Review of Available Data and Priorities for Action,." *Toxi. Environ. Chem.* 67: 27-69.

### **Articles and reports related to urban and community design**

Audubon House: Building the Environmentally Responsible, Energy-Efficient Office, John Wiley & Sons, NY, 1994 (with Shaw, Baumgarten, Lee, Croxton, Childs)

"Audubon House," *Nat. Inst. of Standards and Technology Special Publication 863, Proceedings of the U.S. Green Building Conference*, 1994.

"The Minnesota Source-Separated Composting Project," Interim Report (with rest of project team), July 1995.

"A Vision for Composting," in *Proceedings of the 6th Annual Waste Reduction, Prevention, Recycling, and Composting Symposium*, Solid Waste Association of North America, Feb. 27- March 1, 1995.

"The Santa Barbara County Pilot Waste Collection Project," (with rest of project team), April 1994.

"Wet Bag Composting Trial Yields Promising Results", (with Lauren DeChant, Margaret Conditt, and Bruce Jones), *Biocycle*, [72-75](#), April 1993.

"Composting Plus Recycling Equals 70 Percent Diversion", (with Lauren DeChant, Bruce Jones, Margaret Conditt), *Biocycle*, May 1992.

The Power of Composting, The Power of Partnership (with W. Greggs), *Proceedings of the Solid Waste Association of North America*, August 1993.



Wet Bag Composting Report (with M. Conditt, et al), Audubon and Procter & Gamble Report, September 1993.

"The Power of Composting, The Power of Partnership", speeches for the National Recycling Conference, Oct. 1993, GMA/FMI environmental conference, March 1993, the U.S. Conference of Mayors, April 1993, and the Biocycle conference, May 1993.

"Paper Versus Plastic" in The Plastic Waste Primer, The League of Women Voters/Handbook for Citizens, Lyons & Burford, Oct. 1992.

The Audubon Proposal for Solid Waste Management in Jefferson County and the City of Louisville, Kentucky, Dec. 1991. Also Review of Proposed Resource Recovery Agreement Between the City of Louisville and Louisville Energy and Environment.

Solid Solutions for Solid Waste, NAS Guidebook for the Community Solid Waste Management Program, (Beyea, Bolze, Lee, Lathan, Hansell), (draft).

"The Great Paper Versus Plastic Debate", Audubon Activist, p. 5, March/April, 1989.

Plastics vs. Paper: Some Environmental Considerations, Audubon Report, 1989.

"Indoor Air Pollution", Bulletin of Atomic Scientists, 37, p. 63, Feb., 1981.

#### Articles and reports related to energy efficiency

"Green Grocers Mean Energy-Efficient grocers," Store Equipment & Design (with Alys Campaign), April 1995.

"Global Warming", (with Eric Fischer), before the Public Service Commission of Wisconsin, Jan. 13, 1992.

Energy Policy and Global Warming", in Global Climate Change and Life on Earth, Chapman & Hall, New York, 1991.

"The CO2 Diet for a Greenhouse Planet: Assessing Individual Actions for Slowing Global Warming." In Energy Efficiency and the Environment: Forging the Link. American Council for an Energy-Efficient Economy; Washington, DC. (Also: "The CO2 Diet for a Greenhouse Planet: A Citizen's Guide for Slowing Global Warming." National Audubon Society Report). 1991; and "The Audubon Activist Carbon Dioxide Diet", Audubon Activist, p. 8-9, January/February, 1990.) (All with with DeCicco, Cook, and Bolze.)

Confronting Climate Change: Strategies for Energy Research and Development, (Morrison, Beyea, et al), National Research Council, National Academy Press, Washington D.C., Oct. 1990.

"U.S. Appliance Efficiency Standards", (Rollin and Beyea), Energy Policy, 13, p. 425, 1985.

The Audubon Energy Plan, (Beyea et al), 2nd Ed., July 1984 (1st Ed., 1981) [See also, Intro. to Special Issue on Legal Issues Arising From The Audubon Energy Plan 1984, Columbia Journal of Environmental Law, 11, p. 251, 1986].

"Dealing with Uncertainties in Projections of Electricity Consumption", before the Committee on Energy and Natural Resources, U. S. Senate, July 25, 1985.

"Computer Modeling for Energy Policy Analysis", (Medsker, Beyea, and Lyons), Proceedings of the 15th Annual Modeling and Simulation Conference, Pittsburgh, PA, 15, part 3, p. 1111, 1984.

"Comments on Energy Forecasting", material submitted for the record at Hearings before the Subcommittee on Oversight and Investigations of the House Committee on Science and Technology; Committee Print No. 14, June 1-2, 1981.

"Locating and Eliminating Obscure but Major Energy Losses in Residential Housing", (Harrje, Dutt, and Beyea), ASHRAE Transactions, 85, Part II, 1979. (Winner of ASHRAE outstanding paper award.)

"Attic Heat Loss and Conservation Policy", (Dutt, Beyea, and Sinden). ASME Technology and Society Division Paper 78-TS-5, Houston, Texas, 1978.

"Critical Significance of Attics and Basements in the Energy Balance of Twin Rivers Townhouses", (Beyea et al), Energy and Buildings, Vol. I (1977), p. 261. Also Chapter 3 of Saving Energy in the Home, Ballinger, 1978.

"The Two-Resistance Model for Attic Heat Flow: Implications for Conservation Policy", (Woteki, Dutt, Beyea), Energy--The Intl. Journal, 3, 657, 1978.

"Comments on the Proposed FTC Trade Regulation Rule on Labeling and Advertising of Thermal Insulation", (Beyea and Dutt), before the Federal Trade Commission, 1978.

Articles, reports and speeches related to watershed and river protection

"Long-Term Threats to Canada's James Bay from Hydroelectric Development", Information North, Arctic Institute of North America, Alberta, Canada, Sept. 1990.

Long-Term Threats to Canada's James Bay From Human Development, (Rosenthal and Beyea), Audubon EPAD Report #29, July, 1989.

"The New York Connection to Hydro-Quebec's James Bay Project", speech given for the NYC Bar Association/The Americas Society Debate, January 1992.

National Audubon Society's Direct Testimony Before the Vermont Public Service Board on the Environmental Impacts of the Proposed Contract with Hydro-Quebec on Vermont Wildlife, (with Susan Drennan), December, 1989.

"The Citizens' Acid Rain Monitoring Network", (Bolze and Beyea), Environmental Science & Technology, 23(6), June, 1989.

"Citizens' Acid Rain Monitoring Network", (Bolze, Martyr, and Beyea), presented at a National Workshop on "The Role of Citizen Volunteers in Environmental Monitoring", held at the University of Rhode Island, May, 1988.

Threats to Wildlife and the Platte River, (Safina, Rosenbluth, Pustmueller, Strom, Klataske, Lee, and Beyea), Audubon EPAD Report #33, March, 1989.

**Articles and reports on resolving scientific uncertainties through partnership**

"Guidelines to Sustain Biodiversity in Northeastern Pennsylvania Forests", (with T.S. Fredericksen, W. Hoffman, B.N. Johnson, and M.B. Lester), A Partnership Project with the Procter & Gamble Co., Poster at Mid-Atlantic Highlands Assessment Conference, Davis, WVA. October, 1995.

"The Power of Composting; The Power of Partnership," in Proceedings of the International Symposium on "The Science of Composting." 30 May - 2 June, 1995, Bologna, Italy.

"On the Importance of Thinking Like an Ecosystem," in Almanac for the Environment, Grosset/Putnam, NY, 1994.

"Beyond the Politics of Blame", EPRI Journal, July/August 1993 (reprinted in Agricultural Engineering).

Bringing Environmental Damage Costs into the Electricity Marketplace: Gains to be Expected and Pitfalls to be Avoided, presented at the National Conference on Environmental Externalities, Wyoming, Oct. 1990.

"Linking Energy Consumption with GNP", Review of Beyond Oil, Chemical & Engineering News, 64, p. 25-26, Dec. 1, 1986.

#### **Articles and reports related to biomass and forest research:**

Managing White-tailed Deer in Forest Habitat From an Ecosystem Perspective: Pennsylvania Case Study. (Latham, Beyea, Benner, Dunn, Fajvan, Freed, Grund, Horsley, Rhoads and Shissler) Report by the Deer Management Forum for Audubon Pennsylvania and Pennsylvania Habitat Alliance, Harrisburg. xix + 340 pp., 2005 (Accessible at [http://pa.audubon.org/deer\\_forum\\_report\\_main.htm](http://pa.audubon.org/deer_forum_report_main.htm) )

"Use of meta-analysis to assign bird species to assemblages indicative of responsiveness to logging intensity in northeastern, hardwood forests." (Beyea, Hartley, Burger), 10th Annual Conference of the Wildlife Society, Burlington, 2003.

"Bird Relationships to Habitat Characteristics Created by Timber Harvesting in Pennsylvania," B. Ross, M. Morrison, W. Hoffman, T.S. Fredericksen, R.J. Sawicki, E. Ross, M.B. Lester, J. Beyea, B.N. Johnson, Journal of the Pennsylvania Academy of Sciences, 74: 71-84, 2001

"The Impact of Logging on Wildlife: A Study in Northeastern Pennsylvania," TS Fredericksen, BD Ross, W Hoffman, E. Ross, M.L. Morrison, J. Beyea, MB Lester, BN Johnson, Journal of Forestry, 98(4): 4-10, 2000.

"Bioenergy in the United States: Progress and Possibilities," (with J Cook), Biomass and Bioenergy, 18. 2000.

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