

EDWARD J. CALABRESE, PH.D.

CURRICULUM VITAE

August, 2013

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## **I. SUMMARY:**

- Professor of Toxicology at the University of Massachusetts, Amherst since 1976.
- Board Certified in general toxicology by the Academy of Toxicological Sciences since 1982.
- Over 750 publications in peer-reviewed journals.
- Over 600 invited presentations at major conferences and University seminars.
- Author or Co-Author of 26 books.
- Editor or Co-Editor of over 40 monographs and/or conference proceedings.
- Consultant to most environmentally oriented federal agencies.
- Consultant to numerous major U.S. corporations and trade associations.
- Extramural funding since 1976 from all sources exceeds 30 million dollars.
- Founding Editor-in-Chief Human and Ecological Risk Assessment
- Founding Editor-in-Chief Dose-Response Journal
- Honorary Doctor of Science Degree, McMaster University 2013
- Advisory Board for the first graduate training program focused on hormetic mechanisms, Friedrich-Schiller-University, Jena, Germany 2011 to present

## **II. BIOGRAPHICAL SKETCH:**

*Edward J. Calabrese* is a Professor of Toxicology at the University of Massachusetts, School of Public Health and Health Sciences, Amherst. Dr. Calabrese has researched extensively in the area of host factors affecting susceptibility to pollutants, and is the author of over 750 papers in scholarly journals, as well as more than 10 books, including *Principles of Animal Extrapolation*; *Nutrition and Environmental Health*, Vols. I and II; *Ecogenetics*; *Multiple Chemical Interaction*; *Air Toxics and Risk Assessment*; and *Biological Effects of Low Level Exposures to Chemical and Radiation*. Along with Mark Mattson (NIH) he is a co-editor of the recently published book entitled *Hormesis: A Revolution in Biology, Toxicology and Medicine*. He has been a member of the U.S. National Academy of Sciences and NATO Countries Safe Drinking Water committees, and on the Board of Scientific Counselors for the Agency for Toxic Substances and Disease Registry (ATSDR). Dr. Calabrese also serves as Chairman of the Biological Effects of Low Level Exposures (BELLE) and as Director of the Northeast Regional Environmental Public Health Center at the University of Massachusetts. Dr. Calabrese was awarded the 2009 Marie Curie Prize for his body of work on hormesis. He is the recipient of the International Society for Cell Communication and Signaling-Springer award for 2010. He was awarded an Honorary Doctor of Science Degree from McMaster University in 2013.

Over the past 20 years Professor Calabrese has redirected his research to understanding the nature of the dose response in the low dose zone and underlying adaptive explanatory mechanisms. Of particular note is that this research has led to important discoveries which indicate that the most fundamental dose response in toxicology and pharmacology is the hormetic-biphasic dose response relationship. These observations are leading to a major transformation in improving drug discovery, development, and in the efficiency of the clinical trial, as well as the scientific foundations for risk assessment and environmental regulation for radiation and chemicals.

## CURRICULUM VITAE

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### III. ACADEMIC TRAINING

University of Massachusetts at Amherst, MA	1972-1974	Education	Ed.D. 1974 Science Ed.
University of Massachusetts at Amherst, MA	1971-1973	Physiology/ Toxicology (Entomology Department)	Ph.D. 1973
State College at Bridgewater, MA	1969-71	Biology	M.A. 1972
State College at Bridgewater, MA	1964-68	Biology	B.A. 1968

### IV. WORK EXPERIENCE

Graduate Program Director, Environmental Health Sciences Department, December 2003-2004.

Division Chair, Environmental Health Sciences Division, December 2003-2006.

Director - Northeast Regional Environmental Public Health Center,  
October 1985-Present.

Professor - Promoted from Associate Professor, June 1982-Present.

Associate Professor - Promoted from Assistant Professor, June 1980.

Assistant Professor - September 1976 - Environmental Health Sciences Program, Division of Public Health, University of Massachusetts, Amherst, MA. Duties include: teaching introductory and advanced courses in environmental toxicology, directing thesis research.

Assistant Professor - July 1974-August 1976 - Department of Occupational and Environmental Medicine, University of Illinois, School of Public Health, and Assistant Director of the Environmental Health Resource Center. Duties included: the identification and quantification of present and potential environmental health hazards within the state, the development and review of environmental health legislation, standards and regulations, testimony at regulatory and legislative hearings on standards of environmental quality and teaching courses in environmental health.

Environmental Research Director for the Massachusetts Public Interest Research Group - December 1973-June 1974. Duties included: determination of research and educational goals of the organization, direction of student research projects, direction of Water Quality Training Institutes throughout Massachusetts.

Adjunct Professor - Southwest Residence College - University of Massachusetts. January 1974. Taught environmental science courses to undergraduate and graduate students.

Assistant Professor - Fall 1973 - North Adams State College, North Adams, MA. Biology Department - taught Ecology, Evolution, and Introductory Biology.

## **V. GRANTS AND RESEARCH FUNDING**

Principal Investigator. Air Force Office of Scientific Research. Enhancing Biological Performance: Occurrence, Mechanisms and Applications. 2013-2018. (\$1,197,558).

Principal Investigator. ExxonMobil. Hormesis Research. 2007-2013. (\$150,000 per year).

Director. Hormesis Conference general support. Multiple public and private organizations. 2010-2013. (Approximately \$50,000).

Principal Investigator. Air Force Office of Scientific Research. Conference on Adaptive Responses and their Biomedical Applications. 2012. (\$25,544).

Principal Investigator. Air Force Office of Scientific Research. Conference on Adaptive Responses and their Biomedical Applications. 2011. (\$25,580).

Principal Investigator. Lounsbery Foundation. Development of an Integrative Mechanistic Framework. 2010-2012. (\$25,000)

Principal Investigator. Air Force Office of Scientific Research. Chemical/Radiation Hormesis Database, Evaluation of Hormetic Mechanisms & Their Biomedical and Risk Assessment Implications. 2008-2010. (\$299,371).

Director. Hormesis Conference general support. Multiple public and private organizations. 2008-2009. (Approximately \$120,000).

Principal Investigator. Air Force Office of Scientific Research. Chemical/Radiation Hormesis Database, Evaluation of Hormetic Mechanisms & Their Biomedical and Risk Assessment Implications. 2007. (\$84,778).

Principal Investigator. Air Force Office of Scientific Research. Chemical/Radiation Hormesis Database, Evaluation of Hormetic Mechanisms & Their Biomedical and Risk Assessment Implications. 2007. (\$199,845).

Director. Hormesis Conference general support. Multiple public and private organizations. 2007. (Approximately \$150,000).

Director. Hormesis Conference general support. Multiple public and private organizations. 2006. (Approximately \$100,000).

Principal Investigator. Alfred P. Sloan Foundation. Hormesis Center. 2004-2007. (\$45,000).

Principal Investigator. Dow Chemical Co. Distributions for Monte-Carlo Soil Ingestion Risk Assessment. 2004-2007. (\$160,470).

Principal Investigator. Lounsbery Foundation. Workshop to Create a Hormesis Institute/Center. 2005-2007. (\$75,000).

Principal Investigator. ExxonMobil. Hormesis Research. 2006. (\$150,000).

Principal Investigator. Air Force Office of Scientific Research. Chemical/Radiation Hormesis Database, Evaluation of Hormetic Mechanisms & Their Biomedical and Risk Assessment Implications. 2006. (\$214,645).

Principal Investigator. ExxonMobil. BELLE – Chemical Hormesis Database. 2005. (\$150,000).

Principal Investigator. Air Force Office of Scientific Research. Chemical/Radiation Hormesis Database, Evaluation of Hormetic Mechanisms & Their Biomedical and Risk Assessment Implications. 2005. (\$211,026).

Principal Investigator. U.S. Department of Energy. International Conference – Hormesis Implications for Toxicology, Medicine, and Risk Assessment. 2005-2006. (\$5,000).

Principal Investigator. Dow Chemical Co. Distributions for Monte-Carlo Soil Ingestion Risk Assessment. 2004-2006. (\$160,470).

Principal Investigator. Alfred P. Sloan Foundation. Hormesis Center. 2004-2006. (\$45,000).

Principal Investigator. U.S. Department of Energy. Non-Linear Dose Response Relationship in Biology, Toxicology and Medicine. 2004-2005. (\$20,000).

Principal Investigator. General Electric Foundation. BELLE Initiative. 2004. (\$100,000).

Principal Investigator. ExxonMobil. BELLE – Chemical Hormesis Database. 2004. (\$75,000).

Principal Investigator. Air Force Office of Scientific Research. Chemical/Radiation Hormesis Database, Evaluation of Hormetic Mechanisms & Their Biomedical and Risk Assessment Implications. 2004. (\$174,302).

Principal Investigator. U.S. Department of Energy. Non-Linear Dose Response Relationship in Biology, Toxicology and Medicine. 2003-2004. (\$12,500).

Principal Investigator. Florida Power and Light. Assessment of Arsenic Bioavailability in Humans. 2002-2003. (~\$110,000).

Principal Investigator. Air Force. Toxicological Assessment of Hormesis. 2001-2003. (\$450,000).

Principal Investigator. US EPA/American Chemical Council. Soil Ingestion in Construction Workers. 2001-2003. (\$750,000).

Co-Principal Investigator. Health Risks and Fish Consumption from the Pasiac River. 2001-2002. (\$125,000).

Principal Investigator. CA EPA. Single Exposure Carcinogen Database Update and Evaluation. 2002. (\$50,000).

Co-Director. 11th Annual Soil and Groundwater Conference. San Diego, CA. March 2002. (\$100,000).

Co-Director. 18th Annual Soil, Groundwater and Sediment Contamination Conference. University of Massachusetts. October 2001. (\$125,000).

Principal Investigator. Conference on Non-Linear Dose-Response. Multiple sponsors (EPA, NIEHS, AWWARF, Air Force, and other). June 2001. (\$150,000).

Co-Director. International Conference on Contaminated Soil, Sediment, and Groundwater. London. August 2000. (\$300,000).

Co-Principal Investigator. Soil ingestion workshop/assessment. U.S. EPA. June/July 2000. (\$50,000).



Principal Investigator. Soil ingestion in construction workers. U.S. EPA/CMA. October, 1999 (\$650,000).

Principal Investigator. Development of an ionizing radiation hormesis database. Nuclear Regulatory Commission. September 1997 - September 1999 (\$188,000).

Principal Investigator. Biological effects of low level exposures. Three year cooperative agreement. Reviewed once, 1999. Nuclear Regulatory Commission, 1996-1998, 1999-2001. (\$60,000 or \$20,000/year).

Principal Investigator. Assessment of soil ingestion in children. Health Canada. January 1999 (\$6,500).

Principal Investigator. Biological effects of low level exposures (BELLE). From multiple sponsors. 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004. (approx. \$120,000/year from multiple sources).

Co-Principal Investigator. Florida Power and Light. Biological effects of arsenic contaminated soil. January 1998 (\$100,000), March 1999 (\$50,000).

Principal Investigator. ARCO. Assessment of the role of particle size on soil ingestion estimates in children. June 1997 (\$150,000).

Principal Investigator. Health Research Foundation (Japan). Biological effects of low level exposures. September 1997 (\$15,000).

Principal Investigator. U.S. Air Force. Assessment of the societal and scientific implications of hormesis. October 1997 - October 2000 (\$345,000).

Principal Investigator. U.S. EPA. Single exposure carcinogen database. October 1997 – May 1999 (\$75,000).

Principal Investigator. GE Foundation. Biological effects of low level exposures (BELLE). October 1997 (\$15,000).

Co-Principal Investigator. EPA. Assessment of groundwater contamination by MTBE. September 1997 (\$43,000).

Principal Investigator. Exxon. Biological effects of low level exposures. 1996-1999 \$20,000/year. (\$80,000).

Principal Investigator. Dow-Corning. Biological effects of low level exposures. 1996-1999 \$10,000/year. (\$40,000).

Principal Investigator. Canadian Electric Utilities. Biological effects of low level exposures. 1996 (\$10,000).

Co-Director. Bitor-Venezuela. Evaluation of the endocrine disruption potential of surfactants. June 1996 (\$447,000).

Co-Principal Investigator. Massachusetts Department of Environmental Protection. Determination of heavy metal background levels. June 1996 (\$23,000).

Principal Investigator. ARCO. Assessment of the role of particle size on soil ingestion estimates in children. June 1996 (\$150,000).

Principal Investigator. Radiation, Science and Health, Inc. Critical assessment of selected literature on radiation hormesis. December 1996 (\$26,000).

Principal Investigator. Environmental effects of Orimulsion. December 1996 (\$836,000).

Principal Investigator to support BELLE related activities. January 1995. RJReynolds, Inc., \$25,000; Electric Power Research Institute, \$10,000; Dow Corning, \$10,000; and Canadian Electric Utilities, \$10,000.

Principal Investigator. RJReynolds, Inc. The effects of low levels of chemical agents on biological responses. February 1995 (\$25,000).

Principal Investigator to assess soil ingestion in children living in Northwest of the U.S. ARCO. September 1992 - June, 1996 (\$748,000).

Principal Investigator. Louisiana DEQ. Assessment of soil ingestion in children. June 1995 (\$50,000).

Principal Investigator. US EPA. An evaluation of gender differences in susceptibility to toxic substances. June 1995 (\$55,000).

Principal Investigator. US EPA. Single exposure carcinogen database. October 1995 (\$75,000).

Principal Investigator. Health Canada. Develop new methodologies to assess human high risks. November 1994 (\$60,000).

Principal Investigator to direct BELLE activities. EPRI, Dow Corning, Center for Indoor Research, and EPA. October 1994 (\$55,000).

Principal Investigator. Florida Power and Light. Development of a framework to conduct an ecological risk assessment on Tampa Bay. April 1994 (\$140,000).

Principal Investigator. Gillette, Inc. Support of BELLE-related activities. May 1994 (\$3,000).

Principal Investigator. Florida Power and Light. Assess the effects of several types of fuel oil on red blood cells. September 1994 (\$31,000).

Co-Director of a series of conferences on petroleum contaminated soil. Held at the University of Massachusetts, Amherst. 1985, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002. Approximately \$100,000/conference from external co-sponsors.

Co-Director of a series of conferences on soil and groundwater contamination. Held in the greater Los Angeles area. 1989-2002. \$100,000/year.

Principal Investigator on a grant to assess interspecies differences in hepatic peroxisomes proliferation and its role in the development of fish tumors. Department of Defense, U.S.A. April 1988-1993 (\$749,000).

Florida Power and Light. Critical Evaluation of the PM<sub>10</sub> standard. November 1993 (\$20,000).

Principal Investigator to direct BELLE activities: EPRI, Dow Corning, Center for Indoor Research, and others. April 1993 (approx. \$50,000).

Principal Investigator to assess single exposure carcinogens. ATSDR/September 1993 (\$50,000).

Principal Investigator to assess the prevalence of soil pica in children and soil ingestion in children with soil pica. State of Colorado. July 1992 (\$151,000).

Principal Investigator to direct the development of a newsletter on the Biological Effects of Low Level Exposures (BELLE). U.S. EPA. September 1992 (\$60,000).

Director of the Council for Health and Environmental Safety of Soils Funded by EPA, ATSDR and other organizations. 1988 – 1992 (\$150,000/yr.)

Principal Investigator. U.S. EPA. Lead Training Center. March 1992 (\$320,000); October 1993 (\$220,000); October 1994 (\$290,000).

Co-Director of National Conference on Hydrocarbon Contaminated Soils. From multiple agencies/organizations. (\$70,000).

Co-principal Investigator - Development of risk assessment methods for human and ecological risks. Health and Welfare Canada. April 1 1992 (\$75,000).

Co-principal Investigator for Regional Lead Training Center. U.S. EPA. April 1992 (\$250,000).

Principal Investigator to conduct national conference on the Biological Effects of Low Level Exposures to Chemicals and Radiation. NIEHS. April 1992 (\$10,000).

Principal Investigator to support research activities concerning the biological effects of low level exposures (BELLE). Ontario Hydro. January-May 1992 (\$20,000); RJR-Nabisco (\$35,000); EPRI (\$10,000).

Principal Investigator to assess the effects of selected oxidant stressor contaminants on red blood cells. State of Colorado. May 1992 (\$44,000).

Principal Investigator to assess factors assessing the siting of waste sites in the U.S. Waste Management Inc. June 1992 (\$200,000).

Principal Investigator to assess environmental factors affecting stream health. Wyman-Gordon, Co. July 1992 (\$135,000).

Co-Director of the Hydrocarbon Contaminated Soil and Groundwater Conference. Newport Beach, California. 1991 - co-sponsorship \$100,000 (approx.).

Principal Investigator to unrestricted support on predictive toxicology. Proctor and Gamble. June 1991 (\$5,000).

Co-principal Investigator to develop a toxicological based risk communication program for lead in water. U.S. EPA. August 1991 (\$50,000).

Co-Director of the 6th Annual Hydrocarbon Conference. Sept. 1991 (combined sponsorship \$100,000. From multiple agencies, federal, state and private sector).

Principal Investigator of a project to differentiate soil and dust ingestion in children. U.S. EPA. Sept., 1991 (\$50,000).

Principal Investigator to support research activities concerning the biological effects of low level exposures (BELLE). Dow Chemical. November 1991 (\$5,000).

Principal Investigator to support research activities concerning the biological effects of low level exposures. RJR Nabisco, Inc. July 1990 (\$45,000).

Principal Investigator-Evaluation of the health basis for EPA's regulations of SOTs and IOC's in drinking water. American Water Works Association Research Foundation. July 1990 (\$100,000).

Principal Investigator on contract to assess the relative potency of methemoglobin forming agents. EPA. July 1990 (\$28,000).

Principal Investigator-Methemoglobin forming agents: Toxicologic and risk assessment. EPA. August 1990 (\$28,000).

Principal Investigator to support research activities concerning the biological effects of low level exposures. Dow Chemical. November 1990 (\$10,000).

Principal Investigator to support research activities concerning the biological effects of low level exposures. The Electric Power Research Institute. December 1990 (\$10,000).

Co-Director of the Hydrocarbon Contaminated Soil and Groundwater Conference. Newport Beach, California. 1990 - co-sponsorship \$100,000 (approx.).

Principal Investigator of a contract to assess the Public Health risks associated with medical waste. Funded by the Rockefeller Institute of Government, Albany, New York. January 1989 (\$15,000).

Co-Principal Investigator on a grant to assess factors affecting heavy metal tissue distribution in selected fish species. General Electric. July 1989 (\$112,500).

Co-Principal Investigator on a grant to assess public health aspects of soil contaminated with petroleum. U.S. EPA. July 1989 (\$43,000).

Principal Investigator to continue research on how to estimate how much soil children ingest. Gradient Corporation. August 1989 (\$35,000).

Director of a conference on drinking water and health. American Water Works Association Research Foundation. September 1989 (\$10,000).

Principal Investigator of a contract to assess the methodological approaches for establishing an Air Toxic Programs. Rohm and Haas, Inc. Part 1 - January 1987 (\$60,000. Part 2 - January 1988 (\$60,000).

Principal Investigator on a grant to develop an approach for assessing human risk for soil contamination. Hercules Corporation. January 1988 (\$10,000).

Principal Investigator of a contract to assess environmental exposure from the application of lawn care chemical treatment practices. Massachusetts Department of Food and Agriculture. January 1987 - June 1987 \$75,000; July 1987 - June 1988 (\$75,000).

Director on a grant from Proctor and Gamble in the general area of research in animal extrapolation. July 1988 (\$5,000).

Principal Investigator of a grant to assess the amount of soil children consume. Syntex, Corporation. August 1988 (\$25,000).

Principal Investigator of a study to assess the environmental and public health effects of soils contaminated with petroleum products including disposal options. Mass. Depart. of Environ. Engineering. July 1986 - June 1987 (\$108,000).

Director of workshop on risk assessment for aerial spraying of insecticides for control of gypsy moths. U.S.D.A. - Forest Service. January 1986 (\$12,000).

Co-principal Investigator of a grant to assess the effects of acid rain on selected freshwater fish species. Massachusetts Fish & Wildlife Service. May 1986 (\$7,000).

Co-principal Investigator of a contract to assess the environmental and public health implications of disposal options for petroleum contaminated soil. Edison Electric Institute. July 1986 (\$50,000).

Co-principal Investigator to establish an aquatic toxicology research program in the School of Public Health. Funded by the Mass. Department of Fisheries and Wildlife. July 1986 (\$100,000/year).

Principal Investigator of a study to assess the environmental and public health effects of soils contaminated with petroleum products including disposal options. Mass. Depart. of Environ. Engineering. September 1984 - June 1985 (\$71,000). July 1985 - June 1986 (\$76,000).

Director on a grant from Proctor and Gamble in the general area of research in animal extrapolation. August 1986 (\$5,000), an additional \$5,000.00 was received in July 1987.

Principal Investigator of a grant to assess the amount of soil children consume. Syntex, Corporation. August 1986 (\$344,000).

Co-principal Investigator of the 3-year grant to assess the aquatic toxicity of chlorination of waste water treatment plants. Mass. Water Pollution Control Assoc. September 1986 (\$90,000).

Director of EPA sponsored conference on the Environmental and Health effects of Ozone. U.S. EPA. October 1986 (\$10,000).

Principal Investigator of a grant from the University of Illinois - Effects of ozone on mice with low levels of glucose-6-phosphate dehydrogenase in red cells. January 1985 (\$5,000).

Principal Investigator of a study entitled "The Effect of Environmental pH and Modifying Factors on the Reproduction of Rainbow Smelt." Massachusetts Fish and Wildlife Service. January 1985 (\$9,873).

Director of a contract to provide toxicological and risk assessment consultation and research to the Connecticut State Health Department. February 1985 (\$90,000).

Principal Investigator of a study to assess possible reproductive hazards in the semi-conductor industry. Digital Corporation: Phase 1 - July 1984 (\$244,000); Phase 2 - March 1, 1985 (\$194,000).

Director of the Northeast Regional Environmental Health Center, sponsored by the six New England States. Starting October 1985 (goal of \$250,000/year).

Principal Investigator on the assessment of the occurrence of biological factors affecting interindividual variation in response to toxic substances. Hercules Corporation. October 1985 (\$11,000).

Director of a national conference on "Environmental and Public Health Effects of Soils Contaminated with Petroleum Products." Funded by the Massachusetts Department of Environmental Quality Engineering, EPRI, ARCO, Northeast Utilities and other companies. October 1985 (\$50,000).

Director of a contract to assess the public health hazards associated with leaking underground storage tanks. EPRI. October 1985 (\$20,000).

Co-Investigator of a study to assess the possibility of using surrogate parameters in monitoring for the presence of volatile organic contaminants in drinking water. American Water Works Association Research Foundation. October 1984 (\$60,000).

Principal Investigator of a study to assess the effects of elevated levels of sodium in drinking water on school children. Massachusetts Department of Environmental Quality Engineering. June 1983 (\$10,000).

Developed the concept and proposal for a state-supported Environmental R & D Center. It was funded by the Massachusetts Legislature in July 1983 for up to \$500,000 per year.

Director of a grant from the U.S. EPA to conduct an International Conference on Cardiovascular Disease and Inorganic Constituents in Drinking Water. August 1983 (\$65,000).

Director of a contract from the Massachusetts Department of Environmental Quality Engineering to assess the impact of several plastics manufacturing plants on ambient air quality. September 1982 (\$5,068).

Principal Investigator of a contract to assess government policy with respect to genetic screening in the workplace. U.S. Congress' Office of Technology Assessment. January 1982 (\$7,400).

Principal Investigator of a Biomedical Research Grant from the University of Massachusetts Graduate Research Council to study the development of an animal model to simulate human hereditary blood disorders (i.e., G-6-PD deficiency). April 1982 (\$5,000).

Director of a quarterly newsletter entitled "Health Effects Update" for members of the American Water Works Association. May 1982 (\$20,000/year).

Principal Investigator of a grant to investigate the efficacy of the guinea pig heterologous model to predict the effects of ozone on human erythrocytes with a G-6-PD deficiency. Hoffmann-LaRoche, Inc. June 1982 (\$10,000).

Principal Investigator of a grant to study the effects on blood pressure of a reduction in sodium in drinking water from 120 ppm to 25 ppm. American Water Works Research Foundation. June 1982 (\$29,000).

Principal Investigator on a study designed to evaluate the effect of ascorbic acid supplementation on the body burden of lead. Hoffmann-LaRoche, Inc. July 1982 (\$14,700).

Co-principal Investigator on an unrestricted grant from the State of Massachusetts Department of Environmental Quality Engineering to study the potential of organics in drinking water as pollutants in household air. November 1981 (\$600).

Principal Investigator of a grant to investigate the effects of variable dietary ascorbic acid intake on the toxicity of a proposed toxic ozone intermediate on human subjects (in vitro). Hoffmann-LaRoche, Inc., N.J. December 1981 (\$10,000).

Director of a \$41,000 grant from the U.S. EPA to conduct an International Conference on Cardiovascular Disease and Drinking Water during May 1979.

Principal Investigator on a contract from the U.S. EPA to provide a critical assessment of the epidemiological and toxicological studies concerning the health implications of widespread use of diesel fuel. June 1979 (\$9,500).

Co-principal Investigator on a contract from the U.S. EPA to evaluate the effects of chlorite on the kidney, blood pressure, and blood parameters in adult and neonate rats and mice. December 1979 (\$176,198).

Co-principal Investigator on a grant from the U.S. EPA to conduct a study on the effects of elevated levels of sodium in drinking water on cardiovascular function. March 1978 (\$950,000).

Director of a \$24,000 grant from the U.S. EPA to conduct an International Conference on the Effects of Pollutants on High Risk Groups during June 1978.

Principal Investigator on a grant from the U.S. EPA to conduct a study on the effects of ozone and nitrogen dioxide on mice with low levels of glucose-6-phosphate dehydrogenase in their red cells. June 1978 (\$211,000).

Co-principal Investigator on a grant from the U.S. EPA to conduct a study on the effects of chloramines, chlorite, and copper on pregnant female mice with red cells having low levels of glucose-6-phosphate dehydrogenase. July 1978 (\$95,000).



Co-principal Investigator on a U.S. EPA grant to evaluate the effect of chlorine dioxide disinfection on neonates born during 1946 in a community that temporarily adopted the use of chlorine dioxide for disinfection. 1978 (\$50,000).

Co-principal Investigator of a grant from the Water Research Resources Center at the University of Massachusetts to investigate the effects of elevated levels of sodium in drinking water on the health of community residents. January 1977 (\$4,500).

Co-Principal Investigator. Massachusetts Department of Environmental Protection. Determination of heavy metal background levels. June 1997 (\$30,000).

Co-principal Investigator on a contract from the Environmental Protection Agency to conduct: (1) a study of the incidence of death from circulatory system causes between two communities with markedly different sodium levels in drinking water and (2) an analysis of the difference in drinking water quality with respect to minerals and heavy metals between these two communities. July 1977 (\$10,000).

Co-principal Investigator on a grant from the U.S. EPA to conduct a study on the effects of chlorine dioxide on mice with low levels of glucose-6-phosphate dehydrogenase in their red cells. October 1977 (\$50,000).

Principal Investigator of a grant from the University of Massachusetts Graduate Research Council - Biomedical Effects Section - to continue studies on the effects of ozone on mice with low levels of glucose-6-phosphate dehydrogenase in red cells. December 1976 (\$5,000).

## **VI. CONSULTING ACTIVITY – Partial Listing**

Occupational Health and Safety Administration (OSHA). Advisor and expert witness on litigation proceedings on the area of establishing health risk to workers in different occupations with particular emphasis on chemical coordinating exposure. Consultation has focused on carcinogenic risk from exposure to aromatic amines such as 3,3'-dichlorobenzidine and "MOCA."

Environmental Protection Agency (EPA). (1) Invited as a consultant to advise what EPA's research priorities should be for FY 1981. (2) Selected to critically review the development of several criteria documents for drinking water contaminants (i.e., antimony, copper, cyanide, dichlorobenzidine, nickel, and zinc). (3) Selected for a national committee to evaluate the methodology by which EPA develops health criteria from which national drinking water regulations are established. (4) Selected as a member of the solvent taskforce to assess risk to the general public from drinking water with variable levels of contamination from a variety of common solvents. (5) Invited member of a select committee to advise EPA on developing methodologies for dealing with epigenetic carcinogens. (6) Selected to chair the health effects committee on nationwide public hearings on volatile organic contaminants in drinking water. (7) Selected as a member of an advisory group to help establish methodologies for assessing risk

from carcinogens in drinking water. (8) Selected by EPA to give the principal address on health effects of drinking water pollutants at four nationwide workshops concerning the re-evaluation of the Primary Drinking Water Standards. (9) Selected by EPA to Chair a congressionally mandated study on the comparative health risks of seven different drinking water treatment technologies, (10) consultant Scientific Advisory Board (SAB) on dioxin and environmental exposures.

National Semi-Conductor Co. (Danbury, CT). Provide direction for the development of a new industrial hygiene program. Supervised the developments of risk assessment resulting from occupational exposure to arsenic, arsine, silver, gold, antimony, boron compounds, phophene, hydrofluoric acid, acetic acid, silane, and hydrazine.

North Atlantic Treaty Organization (NATO). Drinking Water and Human Health committee.

Massachusetts State Pesticide Board. Human health effects advisor to an advisory committee of the board. 1977-1981. In September 1981, invited to the State Pesticide Board by the Governor for a 4-year term, but declined invitation.

Ecology and Environment, Inc. (Buffalo, NY). This is an international consulting firm concerned with toxic substance regulation, hazardous wastes, and occupational health. I served on a health advisory board, which provides direction for their industrial hygiene program.

Department of Environmental Quality Engineering (DEQE) for the State of Massachusetts. (1) On matters pertaining to ambient air quality standards and toxic substances in drinking water. (2) Helped to create a 25-hour course on toxicology and risk assessment for DEQE staff. I co-instructed the course. (3) Ad Hoc Committee on sodium in drinking water. (4) Member of a committee to develop a statewide air toxic program.

State of California - Energy Resources Conservation and Development Commission. Provided information on human high-risk groups in a power plant setting.

U.S. Army - Division of Environmental Health and Safety (Fort Dietrick, MD). Provided guidance on the development of a program to establish permissible exposure limits to chemicals employed in various army occupations.

National Sanitation Foundation. Nominated and elected to the NSF Council of Public Health Consultants from 1980 to 1983, specializing in toxicology.

Governor's Hazardous Waste Siting Council. Advise the Massachusetts Legislature and the Governor on the public health considerations in dealing with the proper disposing of hazardous wastes in Massachusetts.

Mitre Corporation. Served on a selected committee to formulate and review methodology for establishing acceptable exposures to toxicants to U.S. Army personnel in combat and training operations.

State of Massachusetts - Department of Public Health and Department of Environmental Quality Engineering Joint Advisory Committee on Environmental Risk Assessment.

National Academy of Sciences. (1) Advised on the development of a possible national study of persons at increased risk to environmental pollutants and (2) Participated as a member of the Safe Drinking Water Committee.

Praeger Scientific Publishers (NY). Reviewer of book proposals in the areas of environmental and occupational health and toxicology.

John Wiley and Sons, Publishers (NY). Reviewer of proposed books in the area of environmental and occupational health and toxicology.

MacMillan Publishing Co. (NY). Reviewer of proposed books in the areas of environmental and occupational health and toxicology.

Sybron Corporation (Rochester, NY). To direct a human risk assessment of exposure to propylene dichloride.

Perkins-Jordan, Co. (Portland, ME). Environmental/industrial engineering company advisor in the area of toxicity of hazardous substances.

Office of Technology and Assessment for the U.S. Congress. I am advising in the area of genetic susceptibility to pollutants.

Pierce, Atwood et al. - a Portland, Maine Law Firm. I am advising with regard to risk assessment for environmental agents.

Canal Electric Co. To advise on the possible health risks of switching from 2.2% sulfur oil to 2.8% sulfur oil for the generation of electricity.

Research Foundation of the American Water Works Association. To develop and conduct courses on toxicology and environmental risk assessment.

Northeast States for Coordinated Air Use Management (NESCAUM). I have been invited to present lectures for NESCAUM staff members on high-risk groups and standard setting during their Air Pollution Health Effects Course. January 1981 (Hartford, CT); March 1982 (Durham, NH).

U.S. Consumer Product Safety Commission and their contractor, JRB Associates. To advise and critically review their studies on consumer products and high risk groups especially children.

Electric Power Research Institute. I have been invited to participate in their nationwide study on the human health effects of inhalable particles from coal-fired power plants.

Gordon A. Enk and Associates, Inc. (Medusa, NY). I was invited to advise in the area of development of toxicological assays to prevent potential human health effects for coal-fired power plants.

Geomet, Inc. (Rockville, MD). I have advised on projects dealing with toxicological hazards in the utility industry.

American Industrial Hygiene Association. Non-Traditional Shiftwork Periods Ad Hoc Committee Membership. July 1982.

Bioassays, Inc. (Woburn, MA). I have advised in the area of developing animal models for predicting the response of humans to ozone and nitrogen dioxide.

Arthur D. Little Company. I have advised on projects dealing with the role of high-risk groups in establishing ambient air standards for mobile source pollutants.

Dynamic Corporation. I advise on a project dealing with assessing the toxicological health hazards associated with the generation of electricity.

Waste Management of Wisconsin, Inc. I advise on the health effects of groundwater contamination by organic substances.

Committee on Human Health Effects and Drinking Water for the American Water Works Association.

Center for Environmental Health and Human Toxicology. Advised on the health effects of formaldehyde.

Massachusetts Railroad Association. To advise on the potential human health risks associated with herbicide spraying.

Harvard University. I advise on the carcinogenic potential of diesel emissions from power generating plants.

State of Florida. I advise the State's Department of Environment on development of a water reuse policy.

City of Los Angeles, Department of Water and Power. I advise concerning risk assessment of carcinogens in drinking water.

State of Connecticut, Preventable Diseases Division. I advise on several areas of health hazards assessment of a wide range of pollutants.

National Institute of Environmental Health Sciences. Selected for the Third Task Force for Research Planning on the Environmental Health Sciences - specialty: Role of host variations, 1984.

American Industrial Health Council. I have advised on the areas of risk assessment and in developing ways to improve scientific communication with the media.

Envirologic Data. I advise in the general area of toxicology and risk assessment.

Academy of Toxicological Sciences. Selected to peer-review the applications of those persons seeking to become board certified in toxicology.

National Science Foundation (NSF). I advise on the area of long-term environmental health research goals with particular emphasis on human high-risk groups and risk assessment.

Council for Environmental Quality (CEQ). I advise on the area of long range planning of EPA research goals as they pertain to pollutant effects on high-risk groups and research methodologies.

U.S. Forestry Service. I advise on the human health risk associated with the aerial spraying of selected pesticides.

U.S. Consumer Product Safety Commission. I was selected based on a national competition to serve as a member of the Consumer Product Safety Commission's Chronic Hazard Advisory Panel on the use of the plasticizer, di(2-ethylhexyl)phthalate (DEHP) in children's products, e.g., pacifier, rubber pants, etc.

Scientific Advisory Panel. Health and Human Services, State of Connecticut.

Media Training. I was one of three toxicologists who participated in an intensive media training program which focused on how to be interviewed by the media on environmental issues. This was sponsored by Chemlawn Inc. February 1985; I had another media training session in November 1985 sponsored by Hoffman-LaRoche, Inc.

Doctor's Data. I was invited to be on the Scientific Board of Directors of this organization. February 1985.

National Academy of Sciences. I was appointed to a special study committee commissioned to assess the health effects of pollutants in commercial aircraft. 1985 to 1986.

World Health Organization. I was invited to participate in development of basic research needs associated with toxic oil syndrome on June 27-28, 1985, in Copenhagen.

Associated Industries of Vermont. I advised on the toxicological basis of the proposed State of Vermont air toxics program.

Gulf and Western, Inc. I advise on the toxicological effects of cadmium and lead contamination of water, air and soil.

State of California - U.S. EPA. I advise on the development of methodologies for establishing a health-based air toxics program.

Rohm and Haas, Inc. I was invited to provide a one-day program on animal extrapolation and risk assessment; also, I was invited to critique their approaches for deriving air quality standards for air toxics.

Southern California Edison. I advise on the environmental and public health implications of soils contaminated with petroleum products.

Monsanto. I was selected to be a member of an expert independent panel of scientists to review toxicology data of pesticide products.

Navy. I advise the Navy on the health effects of contaminants in drinking water.

Syntex Corporation. I advise on the health effects of soil contamination with various organic contaminants.

Tambrands, Inc. I have been invited to become a member of their Institutional Review Committee.

Pacific Power and Light. I have advised in the area of assessing public health implications of PCB contaminated soil.

Digital Equipment Corporation. Assess the health implication of ozone emissions from manufactured equipment.

U.S. Justice Department. Advise on health risk assessment associated with hazardous waste sites.

Department of Defense, U.S. Army. Advise on the extrapolative relevance of alternative animal models for predicting human responses to environmental toxins.

Council for Agricultural Science and Technology. Invited to serve on national committee to assess risk from 2-4D exposure.

Alliance Technologies. Advise in the area of risk assessment and toxicology on a variety of environmental issues.

Roy Weston, Inc. Advise in the area of risk assessment and toxicology.

Colorado Department of Public Health. Advised on the development of risk assessment methodologies to estimate human health risks from possible exposure from the Rocky Mountain Arsenal.

NOITE Corporation. Denver, Colorado. Advise on the potential public health risks associated with drinking water contaminants.

Smith, Kline and Beckman. Advise on the public health risks associated with incineration of medically related waste.

Gelman, Inc. Advise on the public health implications of organic contaminants in groundwater.

GZA Corporation. Advise on the public health risks of petroleum contamination.

Gelman Sciences. Advise on the public health risk of various issues relating to risk assessment procedures to estimate public health hazards for chemical contaminants such as 1,4 dioxane.

State University at Albany - Center for Policy Research. Advise on the issue of medical infectious waste and public health.

World Health Organization (WHO). I advise on the role of genetic factors in affecting the occurrence of occupationally-induced disease.

Woodward-Clyde Consultants, Inc. Advise on the public health risks associated with exposure to toxics from multi-media.

Environ Corp. Advise on the issue of soil ingestion by children.

W.R. Grace. Advise on various risk assessment issues.

Committee on Urban Environmental Protection for the Division of Urban Affairs of the National Association of State Universities and Land Grant Colleges.

Member of the International Joint Commission, Great Lakes Science Advisory Board's Health Committee, 1991-1992.

Florida Power and Light. Advise on various risk assessment areas.

3M Corporation. Advise on environmental and occupational health issues.

National Academy of Sciences. Invited to be a member of the committee assessing the human health effects of the fuel additive MTBE.

State of Colorado. Advised on risks associated with contamination at the Rocky Mountain Arsenal. 1988-present (2002).

Journal Reviewer (examples of):

Ageing Research Reviews  
Archives of Environmental Contamination and Toxicology  
Biogerontology  
BioEssays  
BioMed Central Genomics  
Chemical Research in Toxicology  
Chemosphere  
Drug Safety  
Ecology Letters  
Ecotoxicology  
Ecotoxicology and Environmental Safety  
Environment International  
Environmental and Experimental Botany  
Environmental Health Perspectives  
Environmental Science and Technology  
Experimental Gerontology  
Free Radical Biology and Medicine  
Fresenius Environmental Bulletin  
Food and Chemical Toxicology  
Frontiers in Bioscience  
GLIA  
Hazardous Materials  
HortScience  
Human and Experimental Toxicology  
International Journal of Obesity  
International Journal of Toxicology  
Italian Journal of Zoology  
Journal of Alzheimer's Disease  
Journal of Plant Growth Regulation



Journal of Zhejiang University Biologia Plantarum  
Journal of Zoology  
Molecular Biology Reports  
Pest Management Science  
Rejuvenation Research  
Risk Analysis  
Science  
Science of the Total Environment  
Toxicology Sciences

Journal Editorship:

Guest-Editor – Proceedings of the National Academy of Science  
Advisory Board - Invited member of the Advisory Board of the ICCNS Journal of Cell Communications and Signaling, 2012  
Editor-in-Chief - Dose Response (formerly Non-linearity in Biology, Toxicology and medicine), 2005-present  
Editor-in-Chief – Non-linearity in Biology, Toxicology, and Medicine, 2001-2005  
Editor-in-Chief - Human and Ecological Risk Assessment - 1995-2009  
Editorial Board - Inhalation Toxicology - 1990-1998  
Editorial Board - Soil and Sediment Contamination: An International Journal – 1993-2000  
Editorial Board - Human and Experimental Toxicology - 1995-present  
Editorial Board - Environmental Toxicology and Safety - 1994-1998  
Editorial Board - Biomedical and Environmental Sciences - 1996-1998

Book Editorship:

Guest Editor, Distribution of Artificial Radionuclides in the Abandoned Cattle in the Evacuation Zone of the Fukushima Daiichi Nuclear Power Plant. Proceedings of the National Academy of Sciences. 2012.

Co-Editor, Hormesis: A Revolution in Biology, Toxicology and Medicine. Humana Press Inc., 2010, 213 pages.

Advisory Board, Toxicology Desk Reference, The Toxic Exposure and Medical Monitoring Index, 1996.

Co-Editor, Annual review of Ecotoxicology and Environmental Toxicology & Chemistry, 1996.

Co-Editor, Current Topics in Ecotoxicology and Environmental Chemistry, published by Taylor and Francis, 1995-present.

Editor of the series Environmental Health and Toxicology published by Lewis Publishers, 1990-1993.

Co-Editor of a Monograph Series on Remedial Technologies for Hydrocarbon Contaminated Soils published by Lewis Publishers, 1990-1992

Co-Editor, Soils Contaminated by Petroleum, Environmental and Public Health Effects, John Wiley & Sons, 1988

## **VII. ACADEMIC AND OTHER HONORS**

Honorary Degree, Doctor of Science. School of Nursing and Medical Radiation Sciences Program, McMaster University Canada

Invited member of the Advisory Board of the ICCNS Journal of Cell Communications and Signaling, 2012

Honorary member of the International CCN Society, 2012

Awarded the second International Cell Communication and Signaling-Springer award, Belfast Northern Ireland, 2010.

Awarded the Marie Curie Prize from the World Council of Nuclear Workers at the 8<sup>th</sup> LOWRAD International Conference in Rio de Janeiro, Brazil, 2010.

Selected to present the Third Annual Environmental Toxicology Lectureship at the Institute for Environmental Studies at the University of Illinois, 1991.

Nominated for Teacher of the Year Award - several times

Appointed to the Food and Nutrition Board of the National Research Council, 1988- 1991.

Appointed by the Institute of Medicine to the Food and Nutritional Board, 1988-1990.

Adrian Rondileau Award for outstanding leadership and professional achievement, 1988.

Appointed to the National Academy of Sciences Safe Drinking Water Committee, 1982-1984, 1986.

Appointed to the NATO countries Safe Drinking Water Committee

Appointed to the 11 member Scientific Counselors of the Agency for Toxic Substances and Disease Registry

Phi Delta Phi - a national academic fraternity

Kappa Delta Pi - a national education fraternity requiring the member to be in the upper 1/10 of the graduating class.

William Vinal Zoological Award - awarded to graduating senior biology major with the highest academic average in zoology.

Danforth Fellowship Nomination

Dean's List - 7 semesters

## **VIII. SOCIETIES**

Dose-Response Society

Association for the Advancement of American Sciences (AAAS)

Society for Occupational and Environmental Health (SOEH) - Elected to the Governing Council, 1980-1982.

American College of Toxicology (ACT) - Elected to be a Councilor, 1981-1983

Society of Environmental Toxicology and Chemistry (SETAC)

Society of Risk Analysis (SRA)

Society of Toxicology (SOT)

New England Chapter of the Society of Toxicology - Councilor

International Society for the Regulatory Toxicology and Pharmacology

Council for Health and Environmental Safety of Soil (CHESS) – Selected to Chair, 1987-present  
BELLE, Chairman of the Advisory Committee, 1990-present.

## **IX. UNIVERSITY ASSIGNMENTS**

Animal Care

University-wide Environment Committee

Advisory Board of the Institute of Environmental Studies

Ph.D. Policy and Admissions Committee

Biohazards Regulation and Control Committee

Advisory Board of the Water Research Resource Center

Division of Public Health - Nutrition Department Joint Student Admission Committee

School of Health Sciences - Personnel Committee, 2006-2009, 2011-2013

Search Committee for New Director of the Division of Public Health, 1983

Teaching Evaluation Committee, 1982

By-Laws Committee, 1978-1982

Curriculum Committee, 1978-1981

Academic Affairs Council, 1976-1979

Ph.D. Proposal Committee, 1977-1978

## **X. CERTIFICATION**

Elected to the Board of Directors of the Academy of Toxicological Sciences, 1987-1989

Elected Vice President of the Board of Directors of the Academy of Toxicological Sciences, 1987-1989

Board Certified in General Toxicology by the Academy of Toxicological Sciences, 1982, renewed 1987- 2007, 2012-2017

Elected to the Professional Evaluation Board

## **XI. VISITING PROFESSORSHIP**

Visiting Professor Lecture Program, September 2011. U.S. Food and Drug Administration, White Oaks Campus, Silver Spring, Maryland.

University of Illinois at Champagne-Urbana, April 1989. Toxicology scholar in residence. Invited to present seminar/lecture on toxicology and human risk assessment.

Harvard University, School of Public Health, September 1985, and 1986. Invited to be a guest faculty member in the course "Risk Analysis in Environmental Health." My topic is "Use of Animal and Other Data as Predictors of Human Risks."

University of North Carolina School of Public Health at Chapel Hill. February 12-16, 1984.

## **XII. PUBLICATIONS**

### **2013**

1. Iavicoli, I., Leso, V., Fontana, L., Marinaccio, A., Bergamaschi, A., and Calabrese, E.J. (2013). The effects of Rhodium on the renal function of female Wistar rats. *Ecotoxicology and Environmental Safety* (submitted).
2. Calabrese, E.J., and Dhawan, G. (2013). How radiotherapy was historically used to treat pneumonia: Could it be useful today? *Yale Journal of Biology and Medicine* (submitted).
3. Calabrese, E.J. (2013). Biphasic dose responses in biology, toxicology and medicine: Accounting for their generalizability and quantitative features. *Environmental Pollution* (in press).
4. Cornelius, C., Zanghi, A., Perrotta, R., Graziano, A., Calabrese, E.J., and Calabrese, V. (2013). Stress responses, vitagenes and hormesis as critical determinants in aging and longevity: Mitochondria as a "Chi". *Immun. Aging* (submitted).
5. Calabrese, E.J. (2013). The dose-response: A fundamental concept in toxicology. In: *Principles and Methods of Toxicology, Sixth Edition* (Hayes, AW, editor). (in press).
6. Calabrese, E.J. (2013). The dose response: Comparing hormesis and threshold models. In: *Fundamentals of Ecotoxicology. The Science of Pollutions, 4th Edition*. (in press).
7. Crupi, R., Cornelius, C., Calabrese, V., Perotta, R., D'Agata, V., Graziano, A., Pennisi, G., Milone, P., Zanghi, A., Radak, Z., Calabrese, E.J., and Cuzzocrea, S. (2013). Traumatic brain injury (TBI): Oxidative stress and neuroprotection. *Antioxid. Redox Signal.* (in press).

8. Calabrese, E.J. (2013). The hormetic dose response often describes drug therapies for stroke and traumatic brain injury. In: *Brain Injury and Stroke: Spectrum Effects and Implications*, Chapter 14 (J. Giordano and P. Water, Editors). Potomac Institute Press, Arlington VA. (in press).
9. Calabrese, E.J. (2013). Origin of the linearity-no threshold (LNT) dose response concept. *Archives of Toxicology* DOI:10.1007/s00204-013-1104-7 (in press).
10. Calabrese, E.J. (2013). How the U.S. National Academy of Sciences misled the world community on cancer risk assessment: New findings challenge historical foundations of the linear dose response. *Archives of Toxicology* DOI:10.1007/s00204-013-1105-6 (in press).
11. Calabrese, E.J., and Dhawan, G. (2013). The historical use of radiotherapy in the treatment of sinus infections. *Dose-Response*, (in press).6. Calabrese, E.J. (2013). Low doses of radiation can enhance insect lifespans. *Biogerontology* DOI:10.1007/s10522-013-9426-5 (in press).
12. Calabrese, E.J., and Dhawan, G. (2013). Historical use of X-Rays: Treatment of inner ear infections and prevention of deafness. *Human and Experimental Toxicology*, DOI: 10.1177/0960327113493303 1-12.
13. Calabrese, E.J. (2013). A brief history of hormesis. In: *Hormesis in Healthy Aging* (Rattan S and LeBourg E, Editors). Springer Publishers (in press).
14. Calabrese, E.J. (2013). Hormesis and risk assessment. In: *Hormesis in Healthy Aging* (Rattan S and LeBourg E, Editors). Springer Publishers (in press).
15. Calabrese E.J. (2013). Hormetic mechanisms. *Critical Reviews in Toxicology* 43(7):580-606.
16. Calabrese, E.J. (2013). X-ray treatment of carbuncles and furuncles (boils): An historical assessment. *Hum. Exper. Toxicol.* 32(8):817-827.
17. Calabrese E.J. (2013). Edward J. Calabrese, Ph.D.: Hormesis and the biphasic adaptive stress response – Interview by Craig Gustafson, American Association of Neurological Physicians 2013 Conference. *Integrative Medicine* 12(3):18-22.
18. Calabrese, E.J. (2013). Historical foundations of wound healing and its potential for acceleration: Dose-response consideration. *Wound Rep Regen.*, 21(2):180-193.
19. Calabrese, E.J., and Calabrese, V. (2013). Reduction of arthritic symptoms by low dose radiation therapy (LD-RT) is associated with an anti-inflammatory phenotype. *Int. J. Rad. Biol.*, 89(4):278-286..
20. Calabrese, E.J., and Calabrese, V. (2013). Low dose radiation therapy (LD-RT) is effective in the treatment of arthritis: Animal model findings. *Int. J. Rad. Biol.*, 89(4):287-294.

21. Calabrese, E.J. (2013). Hormesis. In: *Encyclopedia of Environmetrics, Second Edition* (A.-H. El-Shaarawl and W. Piegorsch, Editors). John Wiley & Sons Ltd: Chichester, UK. DOI: 10.1002/9780470057339.vah014.pub2. Published online 1/15/2013.
22. Calabrese, E.J. (2013). Food safety and security and the dose-response. *Food Security*, 5(1):95-102.
23. Calabrese, E.J., Iavicoli, I., and Calabrese, V. (2013). Hormesis: Its impact on medicine and health. *Hum. Exper. Toxicol.*, 32(2):120-152.
24. Calabrese, E.J. (2013). Hormesis: Toxicological foundations and role in aging research. *Exper. Gerontol.* 48:99-102.

## **2012**

1. Stanek EJIII, Bo X, Calabrese EJ. (2012). Equation reliability of soil ingestion estimates in mass-balance soil ingestion studies. *Risk Analysis* 32(3):448-463.
2. Calabrese, E.J. (2012). US Risk assessment policy: A history of deception. A response to Arden Rowell, *Allocating Pollution*, 79 *Univ. Chicago Law Rev* 79:17-24.
3. Calabrese, E.J. (2012). The hormetic dose response. *Mutagenesis*, 27(6):795-795.
4. Calabrese, E.J., Cook, R.R., Hanekamp, J.C. (2012). Linear no threshold (LNT)-the new homeopathy. *Environ. Toxicol. Chem.* 31(12):2723-2723.
5. Calabrese, E.J. (2012). Hormesis: Improving predictions in the low-dose zone. *Experientia Supplementum* 101:551-564.
6. Calabrese, E.J. (2012). Getting the dose-response wrong: A costly environmental problem. *21<sup>st</sup> Century Sci.* (in review).
7. Calabrese, E.J. (2012). NEPA, EPA and risk assessment: Has EPA lost its way? *Reg. Toxicol. Pharmacol.*, 64(2):267-268.
8. Calabrese, E.J, and Dhawan, G. (2012). The role of x-rays in the treatment of gas gangrene: An historical assessment. *Dose-Response* 10(4):626-643.
9. Calabrese, E.J., and Ricci, P.F. (2011). How hormesis will change the risk assessment process. In: Nriagu JO (Editor) *Encyclopedia of Environmental Health*, Volume 3, pp. 95-99. Burlington:Elsevier.

10. Iavicoli, I., Sgambato, A., Fontana, L., Marinaccio, A., Leso, V., Corbi, M., Bergamaschi, A., and Calabrese, E.J. (2012). Effects of sub-acute exposure to Rhodium (as Rh (III) chloride hydrate) on cytokines in female Wistar rats. *Bull. Environ. Contam. Toxicol.*, 89:686-692.
11. Calabrese, E.J. (2012). Guest Editorial: Hormesis. *Gradient Trends Newsletter*, page 6.
12. Nascarella, M.A., and Calabrese, E.J. (2012). A method to evaluate hormesis in nanoparticle dose-responses. *Dose-Response*, 10(3):344-354.
13. Calabrese, E.J. (2012). The United States Environmental Protection Agency's linearity-based risk assessment practices: The new homeopathy. Editorial. *Environ. Toxicol. Chem.*, 9999(12):1.
14. Calabrese, E.J., Stanek III, E.J., and Nascarella, M.A. (2012). A detailed re-assessment supports the conclusion of the Calabrese et al. (2011) paper that hormesis is commonly observed in the Ames assay. Reply to Letter to the Editor. *Mut. Res.*, 747:157.
15. Stanek III, E.J., Calabrese, E.J., and Xu, B. (2012). Meta analysis of mass balance studies of soil ingestion in children. *Risk Analysis* 32(3):433-447.
16. Calabrese, V., Cornelius, C., Dinkova-Kostova, A.T., Iavicoli, I., Di Paola, R., Cuzzocrea, S., Rizzarelli, E., and Calabrese, E.J. (2012). Cellular stress responses, hormetic phytochemicals and vitagenes in aging and longevity. *Biochim. Biophys. Acta.*, 1822(5)SI:753-783.
17. Calabrese, E.J. (2012). Muller's Nobel Prize lecture: When ideology prevailed over science. *Tox. Sci.*, 126(1):1-4.
18. Calabrese, E.J. (2012). Hormesis and the Salk polio vaccine. *Dose-Response* 10(1):91-95.
19. Calabrese, E.J., Iavicoli, I., and Calabrese, V. (2012). Hormesis: why it is important to biogerontologists. *Biogerontology*, 13(3):215-235.
20. Calabrese, E.J., Ives, J.A., and Giordano, J. (2012). Neuroprotective agents commonly display hormesis: Implications for Nano-neuropharmacology. In: *Neurotechnology: Premises, Potential and Problems* (J. Giordano, Editor). CRC Press, Boca Raton, FL. Pp. 69-92.

## **2011**

1. Hanekamp, J.C., Bast, A., Calabrese, E.J. (2011). Nutrition and health – transforming research traditions. *Crit. Rev. Food Sci. Nutr.*, (in press).
2. Calabrese E. (2011). Improving the scientific foundations for estimating health risks from the Fukushima incident. *Proc. Nat. Acad. Sci. USA*, 108(49):19447-19448.

3. Calabrese, V., Cornelius, C., Cuzzocrea, S., Iavicoli, I., Rizzarelli, E., and Calabrese, E.J. (2011). Hormesis: cellular stress response and vitagenes as critical determinants in aging and longevity. *Mol. Aspects Med.*, 32:279-304.
4. Iavicoli, I., and Calabrese, E.J. (2011). Redefining low lead levels. *Environ. Health Perspect.*, 119(5):A202-A202.
5. Calabrese, E.J. (2011). Key studies Used to support cancer risk assessment questioned. *Enviorn. Molecul. Mutag.* 52(8):595-606.
6. Calabrese, E.J., Stanek, E.J., and Nascarella, M. (2011). Evidence for hormesis in mutagenicity dose-response relationships. *Mut Res.* 726(2):91-97.
7. Calabrese, E.J. (2011). Muller's Nobel lecture on dose-response for ionizing radiation: ideology or science? *Arch. Toxicol.*, 85(12):1495-1498.
8. Calabrese, E.J., and Blain, R. (2011). The hormesis database: The occurrence of hormetic dose response in the toxicological literature. *Reg. Toxicol. Pharmacol.*, 61:73-81.
9. Calabrese, E.J. (2011). Toxicology rewrites its history and rethinks its future: Giving equal focus to both harmful and beneficial effects. *Environ. Toxicol. Chem.*, 30(12):2658-2673.
10. Iavicoli, I., Calabrese, E.J., Fontana, L., Marinaccio, A., Alimonti, M., Pino, A., and Bergamaschi, A. (2011). The effects of iridium on the renal function of female Wistar rats. *Ecotoxicol. Environ. Safety*, 74:1795-1799.
11. Calabrese, E.J., and Mattson, M.P. (2011). Hormesis provides a generalized quantitative estimate of biological plasticity. *J. Cell Comm. Signal.*, 5(1):25-38.

## **2010**

1. Calabrese, V., Cornelius, C., Stella, A.M.G., Calabrese, E.J. (2010). Cellular stress responses, mitostress and carnitine insufficiencies as critical determinants in aging and neurodegenerative disorders: role of hormesis and vitagenes. *Nuerochem. Res.*, 35(12-SI):1880-1915.
2. Calabrese, V., Cornelius, C., Dinkova-Kostova, A.T., and Calabrese, E.J. (2010). Vitagenes, cellular stress response, and acetylcarnitine: Relevance to hormesis. *Biofactors*, 35(2):146-160.
3. Calabrese, E.J. (2010). Hormesis: A brief reply to an advocate response. *Environ. Health Perspect.*, 118:A153-A154.
4. Calabrese, E.J., and Jonas, W.B. (2010). Evaluating homeopathic drugs within a biomedical framework. *Hum. Exper. Toxicol.*, 29:545-549.



5. Stanek, E.J., Calabrese, E.J., Barnes, R.M., Danku, J.M.C., Zhou, Y., Kostecki, P.T., and Zillioux, E. (2010). Bioavailability of arsenic in soil: Pilot study results and design considerations. *Human. Exper. Toxicol.*, 29(11):945-960.
6. Ricci, P.F., and Calabrese, E.J. (2010). Hormesis and cancer risks: Issues and resolution. In: *Cancer Risk Assessment. Chemical Carcinogenesis, Hazard Evaluation, and Risk Quantification* (C-H. Hsu and T. Stedeford, Eds), (Chapter7). John Wiley and Sons, Hoboken, NJ pp. 785.
7. Nascarella, M.A., and Calabrese, E.J. (2010). A comparison of multiple methods to evaluate biphasic (hormetic) dose-responses in high-throughput in vitro toxicology screens. In: *Toxicity Pathway-Based Risk Assessment: Preparing for Paradigm Change: A Symposium Summary*. Standing Committee on Risk Analysis Issues and Reviews; National Research Council. The National Academy of Sciences, Washington, DC, p. 111-112 (ISBN: 0-309-15423-5).
8. Jones, A., Stanek, E.J., D. Anderton, and Calabrese E.J. (2010). Knowledge and attitudes Concerning hormesis by toxicologists and risk assessors. *Toxicol. Sci.*, (to be submitted).
9. Calabrese, E.J. (2010). Quantifying biological plasticity. (In press).
10. Nascarella, M.A., and Calabrese, E.J. (2010). The emergence of statistical inference testing in medical and public health oriented journals after 1900. (To be submitted).
11. Calabrese, E.J. (2010). Resveratrol: An assessment of its dose response an introduction. *Hum. Exper. Toxicol.*, 29:977-979.
12. Calabrese, E.J., Mattson, M.P., and Calabrese, V. (2010). Resveratrol commonly displays hormeis: Occurrence and biomedical significance. *Hum. Exper. Toxicol.*, 29(12):980-1015.
13. Calabrese, V., Cornelius, C., Dinkova-Kostova, A.T., Calabrese, E.J., and Mattson, M.P. (2010). Cellular stress responses, the hormesis paradigm, and vitagenes: Novel targets for therapeutic intervention in neurodegenerative disorders. *Antioxidants & Redox Signaling*, 13(11):1763-1811.
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## **1976**

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### **1975**

1. Calabrese, E.J. and Sorenson, A.J. (1975). Potential public health problems from the catalytic activity of atmospheric manganese. *J. Air. Poll. Cont. Assoc.*, 25:81-82.
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### **1974**

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10. Calabrese, E.J. (1974). The evolutionary basis of logotherapy. Ed.D. Dissertation, University of Massachusetts at Amherst, Massachusetts.

### **1973**

1. Calabrese, E.J. (1973). The effects of diet, age and diapause on the respiratory rates of adult male and female black blowflies, *Phormia regina* (Meigen). Ph.D. Dissertation, University of Massachusetts at Amherst, Massachusetts.

### **1972**

1. Calabrese, E.J. (1972). The effects of phosfon on the growth of *Mentha piperita* L. Master's thesis at State College at Bridgewater, Massachusetts.

### **1968**

1. Calabrese, E.J. (1968). The effects of a phosphon on *Mentha piperita* L. in different growth media. Eastern College Science Conference. Yale University, New London, CT. April 20<sup>th</sup>.

## **XIII. PRESENTATIONS AT MAJOR CONFERENCES/INVITED SEMINARS**

### **2013**

1. Calabrese, E.J. (2013). Soil ingestion rates in children and adults: Implications for human health risk assessment. Soils, Sediments, Water and Energy conference, AEHS Foundation. October 22, 2013. (to be presented).

2. Calabrese, E.J. (2013). Low dose radiation therapy induces an anti-inflammatory phenotype: Biomedical implications. Environmental Mutagen Society Inflammation Symposium. September 23, 2013. (to be presented).

3. Calabrese, E.J. (2013). Historical foundations of the linear-non-threshold dose response model. American Association of Physicists in Medicine, 54<sup>th</sup> Annual Meeting. Indianapolis. August 5, 2013.

4. Calabrese, E.J. (2013). Hormesis: Its biomedical foundations and therapeutic implications. American Association of Naturopathic Physicians. Keystone, Colorado. July 10-13, 2013.



5. Calabrese, E.J. (2013). A method to evaluate hormesis in nanoparticle dose-response. 5<sup>th</sup> International Symposium - Nutrition, Oxygen Biology and Medicine. Paris France. June 5-7, 2013.
6. Calabrese, E.J. (2013). Does it or doesn't it? Evidence for the existence of non-monotonic dose response. Webinar. Society of Toxicology Risk Assessment Specialty Section. San Antonio, TX. May 8, 2013.
7. Calabrese, E.J. (2013). Origin of the linearity-no threshold (LNT) dose response concept. Dose-Response 2013: Implications for Toxicology, Medicine, and Risk Assessment. University of Massachusetts, Amherst. April 23, 2013.
8. Calabrese E.J., Calabrese V. (2013). Low dose radiation therapy (LD-RT) is effective in the treatment of arthritis: Animal model findings. Dose-Response 2013: Implications for Toxicology, Medicine, and Risk Assessment. University of Massachusetts, Amherst. April 23, 2013.
9. Calabrese E.J., Dhawan G. (2013). The historical use of radiotherapy in the treatment of sinus infections. Dose-Response 2013: Implications for Toxicology, Medicine, and Risk Assessment. University of Massachusetts, Amherst. April 23, 2013.
10. Calabrese, E.J. (2013). Web interview and presentation. Atoms for Peace, Italy. April 11, 2013.
11. Calabrese, E.J. (2013). Hormesis: Scientific revolution in environmental regulations. Department of International Development, Community and Environment. Clark University, Worcester, MA. April 2, 2013.
12. Calabrese, E.J. (2013). A looming scientific revolution in environmental regulations? Cato Institute. Washington DC. March 21, 2013.

## **2012**

1. Calabrese, E.J. (2012). Chemical and radiation hormesis: Toxicological foundations and biomedical applications. Uniformed Services University, Armed Forces Radiobiology Research Institute. Bethesda, MD. November 30, 2012.
2. Calabrese, E.J. (2012). Hormesis: Toxicological and Risk Assessment Implications. University of Massachusetts, School of Public Health and Health Sciences. Presented to medical students and faculty from Russia, Novgorod State University. Amherst, MA. October 26, 2012.
3. Calabrese, E.J. (2012). The hormesis dose response. University of Louisville, Louisville. KY. October 24, 2012.

4. Calabrese, E.J. (2012). Hormesis: Its biological foundations and therapeutic implications. European Society of Integrative Medicine. Florence, Italy. September 20-21, 2012.
5. Calabrese, E.J. (2012). Hormesis: Its significance for toxicology, risk assessment and medicine. Plymouth Marine Laboratory. Plymouth, UK. July 18, 2012.
6. Calabrese, E.J. (2012). The hormetic dose response. United Kingdom Environmental Mutagen Society, Taliesin Arts Centre, Swansea University. Swansea Wales. July 15-18, 2012.
7. Calabrese, E.J. (2012). How the LNT myth was launched. American Nuclear Society Annual Meeting. Hyatt Regency Hotel. Chicago, IL. June 25, 2012.
8. Calabrese, E.J. (2012). The hormetic dose response. European Food Safety Authority Scientific Colloquium XVII on Low Dose Response in Toxicology and Risk Assessment. Parma, Italy. June 14, 2012 (video presentation).
9. Calabrese, E.J. (2012). Muller's deceptive Nobel Prize lecture and its risk assessment implications. New England Health Physics Society Symposium, Westford, MA. May 24, 2012.
10. Golder, R., and Calabrese, E.J. (2012). Re-evaluation of the LNT. Society of Toxicology Annual Meeting, San Francisco, CA. March 11-15, 2012.
11. Calabrese, E.J. (2012). Hormesis and the Salk polio vaccine. International Conference on Dose-Response 2012, University of Massachusetts. Amherst, MA. April 24-25, 2012.
12. Calabrese, E.J. (2012). Key historical studies serving as the basis for the linear dose response challenged. International Conference on Dose-Response 2012, University of Massachusetts. Amherst, MA. April 24-25, 2012.
13. Calabrese, E.J., and Dhawan, G. (2012). The role of x-rays in the treatment of gas gangrene: A historical assessment. International Conference on Dose-Response 2012, University of Massachusetts. Amherst, MA. April 24-25, 2012.
14. Golden, R., and Calabrese, E.J. (2012). Revisiting assumptions of linearity for radiation-induced cancer: Implications for chemical cancer risk assessment. International Conference on Dose-Response 2012, University of Massachusetts. Amherst, MA. April 24-25, 2012.
15. Sarill, M.A., and Calabrese, E.J. (2012). Biphasic dose responses to phytoestrogens: An evaluation of mechanisms. International Conference on Dose-Response 2012, University of Massachusetts. Amherst, MA. April 24-25, 2012.
16. Calabrese, E.J. (2012). Hormesis: Its significance for toxicology, pharmacology and drug development. Tufts University, Medford/Somerville, MA. April 17, 2012.
17. Calabrese, E.J. (2012). The hormetic dose response. Hormesis Research Training Group at

the Friedrich-Schiller-University, Jena, Germany. Opening Ceremonies February 14, 2012.

18. Calabrese, E.J. (2012). Hormesis: Its significance for toxicology, pharmacology and drug development. Computer Science Department, University of Massachusetts. Amherst, MA. April 10, 2012.

19. Calabrese, E.J. (2012). School of Marine Sciences, University of Massachusetts, Amherst, MA. February 1, 2012.

20. Calabrese, E.J. (2012). Hormesis: a dose response revolution. IMMAG, Georgia Health Sciences University. Augusta, GA, January 23, 2012.

## **2011**

1. Calabrese, E.J. (2011). Hormesis: Its significance for toxicology, pharmacology, and risk assessment. 43<sup>rd</sup> Society of Toxicology of Canada. Montreal, Canada, December 4-6, 2011.

2. Calabrese, E.J. (2011). When science fails society: Toxicology's 20<sup>th</sup> century legacy. Joint Meeting of the New England Sections of American Physical Society, American Association of Physics Teachers and the Society of Physics Student, Physics Department, University of Massachusetts, Amherst MA. November 19, 2011.

3. Calabrese, E.J. (2011). How toxicology got the dose response half right. FISH/BSU seminar. Bridgewater State University, Bridgewater, MA. November 18, 2011.

4. Calabrese, E.J. (2011). Hormesis: enhancing biological performance. Department of the Air Force – Photo-Electric-Magnetic-Bio-Stimulation (PEMB) Workshop. San Antonio, TX. October 31-November 1, 2011.

5. Calabrese, E.J. (2011). Harvard School of Public Health, Harvard University, JBL Symposium. Boston, MA. October 29, 2011.

6. Calabrese, E.J. (2011). Hormesis: Its significance for risk assessment and regulatory agencies. Mary Kay O'Connor Process Safety Center. Texas A&M University, College Station, Texas. October 25-26, 2011.

7. Calabrese, E.J. (2011). Hormesis: Its significance for toxicology, pharmacology and risk assessment. University of Connecticut, Advanced Toxicology Seminar. Connecticut. October 12, 2011

8. Calabrese, E.J. (2011). Hormesis: Its significance for food safety. Food Safety versus Food Security – A Global Challenge. Wageningen, The Netherlands. October 4, 2011.

9. Calabrese, E.J. (2011). U-Shaped dose response curves. RIKILT, Wageningen, The

Netherlands. October 3, 2011.

10. Calabrese, E.J. (2011). Hormesis: Its significance for toxicology, pharmacology and risk assessment. Prevention and Intervention: From Molecular Biology to Clinical Perspectives, Halle, Germany. September 16-18, 2011.

11. Calabrese, E.J. (2011). Hormesis; Its significance for toxicology, pharmacology and drug development. FDA Center for Drug Evaluation and Research (CDER), Rockville, MD. September 12, 2011.

12. Calabrese, E.J. (2011). Hormesis: Its significance for toxicology, pharmacology and risk assessment. Colloque ARET, Museaum National d'Histoire Naturelle, Paris, France. June 20-21, 2011.

13. Calabrese, E.J. (2011). Hormesis: Its significance for toxicology, pharmacology and riak assessment. Mary Kay O'Connor Process Safety Center, Texas A & M University, College Station, TX. May 5, 2011.

14. Nascarella, M.A., and Calabrese, E.J. (2011). Characterization of the biphasic antioxidant response of human cells to multi-walled carbon nanotubes. The 10<sup>th</sup> Annual International Conference on Dose-Response 2011: Implications for Toxicology, Medicine, and Risk Assessment. University of Massachusetts, Amherst, MA. April 26-27, 2011.

15. Calabrese, E.J., and Stanek III, E.J. (2011). Hormesis demonstrated for mutagenicity. The 10<sup>th</sup> Annual International Conference on Dose-Response 2011: Implications for Toxicology, Medicine, and Risk Assessment. University of Massachusetts, Amherst, MA. April 26, 2011.

16. Nascarella, M.A., and Calabrese, E.J. (2011). Case study: Quantitative assessment of the biphasic dose-response of polyN-isopropylacrylamide (PNIPAM) nanoparticles. The 10<sup>th</sup> Annual International Conference on Dose-Response 2011: Implications for Toxicology, Medicine, and Risk Assessment. University of Massachusetts, Amherst, MA. April 26, 2011.

17. Stanek III, E.J., and Calabrese, E.J. (2011). Simulation studies to complement observational data: what can we learn? How should they be used? The 10<sup>th</sup> Annual International Conference on Dose-Response 2011: Implications for Toxicology, Medicine, and Risk Assessment. University of Massachusetts, Amherst, MA. April 27, 2011.

18. Calabrese, E.J. (2011). Hormesis: Changing how we think about toxicology, medicine and risk assessment. Endocrine Disruptive Effects of Pesticides from Low Dose Exposure: Evidence for Non-Monotonic Dose Response Curves? The SAFE Consortium. Brussels, Belgium, March 12-17.

19. Calabrese, E.J. (2011). When Science Fails Society: Toxicology's 20<sup>th</sup> Century Legacy. Howard University, Washington, DC. March 30, 2011.

## **2010**

1. Calabrese, E.J. (2010). Hormesis: Its scientific foundations and biomedical implications. L'Oreal, Clichy, France. November 3, 2010.
3. Calabrese, E.J. (2010). Hormesis: A revolution in toxicology, medicine, and risk assessment. Clark University, November 18, 2010.
4. Calabrese, E.J. (2010). 6<sup>th</sup> International Workshop on the CCN Family of Genes. International CCN Society. Belfast, Northern Ireland. October 20, 2010.
5. Calabrese, E.J. (2010). Hormesis: Its scientific foundations and biomedical implications. State University of New York, Albany, New York. October 8, 2010.
6. Calabrese, E.J. (2010). Hormesis: A revolution in toxicology, medicine, and risk assessment. Skidmore College, Skidmore, New York. October 7, 2010.
7. Calabrese, E.J. (2010). Historical blunders: How EPA got the dose response half right. Iona College, New Rochells, New York. September 30, 2010.
8. Calabrese, E.J. (2010). Historical blunders: The road to linearity. McMaster Univeristy, International Scientific Symposium, Ontario, Canada. August 26, 2010.
9. Calabrese, E.J. (2010). Hormesis: Scientific foundations and public health implications. Fermented Beverages and Health: Enhancement of Biological Responses Relevant for Human Health. Madrid, Spain. July 14, 2010.
10. Calabrese, E.J. (2010). Hormesis applications for neurodegenerative diseases. Drug Development for Neurodegenerative Diseases, Boston, MA. May 18, 2010.
11. Calabrese, E.J., Baldwin, L.A., and Leonard, D.A. (2010). The history of chemical hormesis. Presented at the 9<sup>th</sup> Annual International Conference: Dose-Response: Implications for Toxicology, Medicine, and Risk Assessment. University of Massachusetts-Amherst, MA. April 27-28, 2010.
12. Calabrese, E.J., Baldwin, L.A., and Leonard, D.A. (2010). The history of radiation hormesis. Presented at the 9<sup>th</sup> Annual International Conference: Dose-Response: Implications for Toxicology, Medicine, and Risk Assessment. University of Massachusetts-Amherst, MA. April 27-28, 2010.
13. Calabrese, E.J. (2010). Hormesis Update 2010. Presented at the 9<sup>th</sup> Annual International Conference: Dose-Response: Implications for Toxicology, Medicine, and Risk Assessment. University of Massachusetts-Amherst, MA. April 27-28, 2010.
14. Calabrese, E.J., and Nascarella, M.A. (2010). The frequency of hormetic responses in the

Ames Assay. Presented at the 9<sup>th</sup> Annual International Conference: Dose-Response: Implications for Toxicology, Medicine, and Risk Assessment. University of Massachusetts-Amherst, MA. April 27-28, 2010.

15. Mosakowski, T., and Calabrese, E.J. (2010). Hormesis research in the People's Republic of China: Past trends in the academic literature and future directions. Presented at the 9<sup>th</sup> Annual International Conference: Dose-Response: Implications for Toxicology, Medicine, and Risk Assessment. University of Massachusetts-Amherst, MA. April 27-28, 2010.

16. Iavicoli, I., Calabrese, E.J., and Nascarella, M.A. (2010). Exposure to nanoparticles and hormesis. Presented at the 9<sup>th</sup> Annual International Conference: Dose-Response: Implications for Toxicology, Medicine, and Risk Assessment. University of Massachusetts-Amherst, MA. April 27-28, 2010.

17. Nascarella, M.A., and Calabrese, E.J. (2010). A Case Study: the risk of a hormetic response chemotherapy treatment. Society of Risk Analysis – New England Meeting. Camp, Dresser, Mckee, Cambridge, MA. April 1, 2010.

18. Calabrese, E.J. (2010). Hormesis in Toxicology and Pharmacology. Maastricht University. The Netherlands, March 26, 2010.

19. Calabrese, E.J. (2010). The limits of legislation. Koopman International European Commission and Parliament and joint Centre for European Policy Studies. Brussels, March 25, 2010.

20. Calabrese, E.J., and Nascarella, M.A. (2010). Estimating the frequency of hormesis in the Ames assay. Presented at the Society of Toxicology Annual Meeting, Salt Lake City, UT. March 10, 2010.

21. Calabrese, E.J. (2010). Estimating the frequency of hormesis in the Ames Assay. To be presented at the 49<sup>th</sup> Annual Meeting of the Society of Toxicology. Salt Lake City, UT. March 7-11, 2010.

22. Calabrese, E.J. (2010). Hormesis: Why it Transforms Toxicology, Molecular Biology and Clinical Medicine. Brown University, Providence, RI. March 3, 2010.

23. Calabrese, E.J. (2010). Hormesis: Why it transforms toxicology and risk assessment. Presented at Worcester Polytechnic Institute-REACH. February 5, 2010.

24. Calabrese, E.J. (2010). Hormesis is central to pharmacology and toxicology. Northeastern University, Boston MA. January 21, 2010.

## **2009**

1. Calabrese, E.J. (2009). Hormesis: State of the science. Presented at the Society for Risk Analysis Annual Meeting, Baltimore, MD. December 9, 2009.
2. Calabrese, E.J., and Nascarella, M.A. (2009). Hormesis: Scientific foundations and risk assessment implications. Presented at the Society for Risk Analysis Annual Meeting, Baltimore, MD. December 9, 2009.
3. Lewis, S.C., and Calabrese, E.J. (2009). Hormesis: Barriers for regulatory risk assessment. Presented at the Society for Risk Analysis Annual Meeting, Baltimore, MD. December 6-9, 2009.
4. Jones, A.C., Anderton, D.L., Stanek, E.J., and Calabrese, E.J. (2009). Survey Results for the hormesis knowledge and opinion survey administered to risk assessment and toxicology professionals. Presented at the Society for Risk Analysis Annual Meeting, Baltimore, MD. December 6-9, 2009.
5. Calabrese, E.J. (2009). Hormesis Enhances Environmental Toxicology Research and its Applications. Presented at William & Mary, Virginia Institute of Marine Science. Gloucester Point, VA. November 6, 2009.
6. Calabrese, E.J. (2009). Hormesis: Why it should transform toxicology and pharmacology. Northeast Chapter of the Society of Toxicology, Cambridge, MA. October 16, 2009.
7. Calabrese, E.J. (2009). Hormesis is central to biology and medicine. University of Rhode Island, Kingston, RI. October 13, 2009.
8. Calabrese, E.J. (2009). Hormesis is central to biology and medicine. 8<sup>th</sup> LOWRAD International Conference, Rio de Janeiro, Brazil. September 28-30, 2009.
9. Calabrese, E.J. (2009). Hormesis: Scientific foundations and risk assessment implications. ExxonMobil Biomedical Sciences, Inc., Iselin, NJ. September 15, 2009.
10. Calabrese, E.J. (2009). Hormesis: A central concept in biology and carcinogenesis. The University of Vermont, Department of Pathology, Burlington, VT. September 14, 2009.
11. Calabrese, E.J. (2009). Hormesis and Medicine. Boiron. Lyon, France. June 22-23, 2009
12. Nascarella, M., Beck, B., and Calabrese, E.J. (2009). Quantifying Hormetic (Biphasic) Dose-Responses in the Assessment of Nanoparticle Toxicology. International Conference on the Environmental Implications and Applications of Nanotechnology, June 9-11, 2009
13. Calabrese, E.J. (2009). Hormesis: A dose response revolution. New England Chapter of the Health Physics Society annual meeting, Westford, MA. June 4, 2009.

14. Nascarella, M.A., and Calabrese, E.J. (2009). A Comparison of Multiple Methods to Evaluate Biphasic (Hormetic) Dose Responses in High-Throughput In Vitro Toxicology Screens. NRC Symposium on Toxicity Pathway-Based Risk Assessment: Preparing for Paradigm Change. May 11-13, 2009.

15. Calabrese, E.J. (2009). Hormesis: A dose response revolution. Binghamton University, State University of New York. April 17, 2009.

16. Calabrese, E.J. (2009). Challenging the assumptions about toxicological dose response: Scientific, ethical and policy implications of hormesis. Clark University. March 20, 2009.

17. Stanek, E.J. III and Calabrese, E.J. (2009). Meta Analysis of Soil Ingestion Intake for Childhood Risk Assessment, Eastern North American Region Biometrics Meetings, March 16, 2009, San Antonio, Texas.

18. Nascarella, M.A., and Calabrese, E.J. (2009). The relationship between IC50, toxic threshold, and the magnitude of stimulatory response in biphasic (hormetic) dose-responses. Society of Toxicology Annual Meeting, Baltimore, MD. March 15-19, 2009.

19. Jones, A.C., Anderton, D.L., Stanek, E.J., and Calabrese, E.J. (2009). Hormesis knowledge and opinion survey results. Presented at the Society of Toxicology Annual Meeting, Baltimore, MD. March 15-19, 2009.

20. Calabrese, E.J. (2009). Hormesis: What it means for toxicology, the environment and public health. FISH Spring 2009, Biology Department Seminar Hour. Bridgewater State University. February 27, 2009.

21. Calabrese, E.J. (2009). Hormesis: What it means for toxicology, the environment and public health. Plant and Soil Science, University of Massachusetts, Amherst, MA. February 3, 2009.

## **2008**

1. Stanek, E.J. III and Calabrese, E.J. (2008). Exposure Assessment for Children: Soil Ingestion, Indian Statistical Institute Seminar, Oct 31, 2008, ISI Kolkata, India.

2. Nascarella, M.A., and Calabrese, E.J. (2008). Characterizing the quantitative features of hormetic dose-responses in a single high-throughput assay evaluating anticancer agents. To be presented at the Society for Risk Analysis Annual Meeting, Boston, MA. December 8, 2008.

3. Stanek, E., and Calabrese, E.J. (2008). Exposure assessment in children: Soil ingestion. Indian Statistical Institute, Kolkata, India. October 31, 2008.



4. Jones, A.C., Anderton, D.L., Stanek, E.J., and Calabrese, E.J. (2008). Hormesis knowledge and opinion survey results. Presented at the Society of Toxicology Northeast Regional Chapter Fall Meeting, Shrewsbury, MA. October 24, 2008.
5. Nascarella, M.A., and Calabrese, E.J. (2008). Toxic potency and hormesis in dose-response assessment. Presented at the Society of Toxicology Northeast Regional Chapter Fall Meeting, Shrewsbury, MA. October 24, 2008.
6. Calabrese, E.J. (2008). Hormesis: a central concept in biology, the biomedical sciences and toxicology. University of Connecticut, Storrs, CT. October 22, 2008.
7. Waters, D.J., and Calabrese, E.J. (2008). The U-shaped curve: when more is not better. Environmental Mutagen Society. Puerto Rico. October 21, 2008.
8. Calabrese, E.J. (2008). Hormesis: What it means for pharmacology and toxicology. The Boston Area Pharmaceutical Toxicology Group (BAPTG). Novartis Institutes of Biomedical Research, Inc., Cambridge, MA. September 18, 2008.
9. Calabrese, E.J. (2008). Why I think hormesis is the most fundamental dose response relationship in biology. McMasters University, Hamilton, Canada. September 15, 2008.
10. Calabrese, E.J. (2008). Hormesis: Its significant to toxicology, risk assessment and Medicine. North American Congress of Clinical Toxicology, Toronto, Canada. September 14, 2008.
11. Calabrese, E.J. (2008). Hormesis and the pharmaceutical industry. Millennium Pharmaceuticals, Inc, Cambridge, MA. June 16, 2008.
12. Calabrese, E.J. (2008). Separating stimulant and impairing function in hormetic profiles with independent component analysis (ICA). The 7<sup>th</sup> Annual International Conference – Session II: Biomedical. Dose-Response 2008: Implications for Toxicology, Medicine, and Risk Assessment. University of Massachusetts, Amherst, MA. April 29, 2008.
13. Calabrese, E.J. (2008). Hormesis – 2008 – Current Status. The 7<sup>th</sup> Annual International Conference – Session I: Plenary. Dose-Response 2008: Implications for Toxicology, Medicine, and Risk Assessment. University of Massachusetts, Amherst, MA. April 29, 2008.
14. Nascarella, M.A., Stanek, E.J., and Calabrese, E.J. (2008). Evaluating stimulatory cell proliferation in anticancer drug dose-responses. University of Massachusetts School of Public Health and Health Sciences, 11<sup>th</sup> Annual Poster Session. University of Massachusetts, Amherst, MA. March 27, 2008.
15. Nascarella, M.A., Stanek, E.J., and Calabrese, E.J. (2008). The quantitative evaluation of hormesis in anticancer drug dose-response. Society of Toxicology Annual Meeting. Seattle, WA. March 19, 2008.

16. Calabrese, E.J. (2008). Hormesis: The most fundamental dose response model. University of Ottawa Seminar, Ottawa, Canada. February 1, 2008.

17. Calabrese, E.J. (2008). Hormesis: Improving health reducing costs. Health Canada Seminar, Ottawa, Canada. January 31, 2008.

## **2007**

1. Nascarella, M.A., and Calabrese, E.J. (2007). The quantitative characterization of the dose-response relationship of a panel of yeast (*Saccharomyces cerevisiae*) strains to prospective anticancer agents. Society for Risk Analysis Annual Meeting. San Antonio, TX. December 12, 2007.

2. Calabrese, E.J. (2007). Hormesis: The most fundamental dose response model. Department of Kinesiology, University of Massachusetts, Amherst, MA. October 29, 2007.

3. Nascarella, M.A., Stanek, E.J., and Calabrese, E.J. (2007). The quantitative characterization of hormesis in the National Cancer Institute's Yeast Anticancer Drug Screen Data. Society of Toxicology Northeast Regional Chapter, Fall Meeting. Groton, CT. October 26, 2007.

4. Calabrese, E.J. (2007). Hormesis and its relevance for clinical psychology. Harvard Medical School, Newton, MA. March 12, 2007.

## **2006**

1. Calabrese, E.J. (2006). Hormesis: How it may affect toxicology and pharmacology. Sanofi-Aventis U.S. Inc. Bridgewater, MA. November 15, 2006.

2. Calabrese, E.J., and Stanek, E.J. (2006). Arsenic bioavailability in humans. The Gradient Corporation. Cambridge, MA. October 5, 2006.

3. Calabrese, E.J. (2006). Historical foundations of hormesis. University of Kansas Medical Center, Kansas City, KS. October 3, 2006.

4. Calabrese, E.J. (2006). Hormesis scientific foundations. University of Kansas Medical Center, Kansas City, KS. October 3, 2006.

5. Calabrese, E.J. (2006). Hormesis as a vehicle for therapeutic agents. Therapeutic Discovery Conference. Rensselaerville, NY. September 10, 2006.

6. Staudenmayer, J. and Calabrese, E.J. (2006). Hormesis is more common than the threshold model in large NCI yeast database study. International Hormesis Society Conference. University of Massachusetts, Amherst, MA. June 7, 2006.

7. Calabrese, E.J. (2006). Hormesis: scientific foundations. Florence, Italy. April 7, 2006.
8. Calabrese, E.J. (2006). Hormesis: A challenge to the linear dose-response model, and its implications in risk assessment, regulatory policy, and biomedical research. Society of Toxicology 2006 45<sup>th</sup> Annual Meeting & ToxExpo. San Diego, CA. March 8, 2006.
9. Calabrese, E.J. (2006). Hormesis: Toxicological update and potential applications to the air force. Air Force Office of Scientific Research, Arlington, VA. January 31, 2006.
10. Calabrese, E.J. (2006). Experimental data relevant to single dose cancer assessment. 31<sup>st</sup> Annual Winter Toxicology Forum, Washington, DC. January 31, 2006.
11. Calabrese, E.J. (2006). Hormesis: Scientific development and implications for risk assessment. 31<sup>st</sup> Annual Winter Toxicology Forum, Washington, DC. January 31, 2006.
12. Calabrese, E.J. (2006). Hormesis: Common, generalizable and significant. Eli Lilly Research Laboratories, Greenfield, IN. January 11, 2006.

## **2005**

1. Calabrese, E.J. (2005). Hormones is Important for Toxicologists and Risk Assessors: The Case for Hormesis as the Most Fundamental Dose Response Relations. Michigan State University, MI. December 8, 2005.
2. Calabrese, E.J. (2005). Historical Foundations of the Dose Response. Michigan State University, MI. December 8, 2005.
3. Calabrese, E.J. (2005). Soil Ingestion in Children and Adults. RIVM, Utrecht, The Netherlands. November 7, 2005.
4. Calabrese, E.J. (2005). Introduction of the Concept of Hormesis: Implications for Risk Assessment.. Utrecht University, Utrecht, The Netherlands. November 8, 2005.
5. Calabrese, E.J. (2005). Hormesis: Historical Perspectives, and Recent Advances. Health Council of the Netherlands, The Hague, The Netherlands. November 9, 2005.
6. Calabrese, E.J. (2005). Hormesis: Societal Implications. International Policy Network & the Institute of Economic Affairs. London, United Kingdom. November 10, 2005.
7. Calabrese, E.J. (2005). Hormesis and Its Impact on Future Toxicity Testing Strategies. National Research Council, Committee on Toxicity Testing and Assessment of Environmental Agents, Washington, DC. October 20-21, 2005.

8. Calabrese, E.J. (2005). Hormesis Its Impact on Toxicology and Risk Assessment. Yale University, New Haven, CT. October 6, 2005.
9. Calabrese, E.J. (2005). Is There Non-Random Biological Activity Below the NOAEL? Center for Risk Science and Communications. University of Michigan, Ann Arbor, MI. September 16, 2005.
10. Calabrese, E.J. (2005). Hormesis: Challenging the EPA Dose Response Paradigm. Environmental Management Association. Annual Sound Science Seminar, Michigan. September 15, 2005.
11. Calabrese, E.J. (2005). The Emergence of Hormesis in Biology, Toxicology and Medicine. 4<sup>th</sup> International BELLE Conference, University of Massachusetts, Amherst, MA. June 6, 2005.
12. Calabrese, E.J. (2005). Scientific underpinnings of hormesis. European Union. Video Presentation. Italy, May 19, 2005.
13. Calabrese, E.J. (2005). Costing the Earth. BBC Radio interview. April 5, 2005.
14. Calabrese, E.J. (2005). Biomedical and Clinical Implications of Hormesis (Guest Speaker). Annual Meeting Franklin and Hampshire Districts of Massachusetts Medical Society. Sunderland, MA. April 20, 2005
15. Calabrese, E.J. (2005). Hormesis Seminar. US EPA. Research Triangle Park, NC. April 26-27, 2005.
16. Calabrese, E.J. (2005). Soil Ingestion Estimation in Children and Adults: A Dominant Influence in Site-Specific Assessment. Health Canada Environmental and Occupational Toxicology Seminar Series. March 23, 2005.
17. Calabrese, E.J. (2005). Hormesis: The Dose-Response Revolution. Health Canada Environmental and Occupational Toxicology Seminar Series. March 24, 2005.

## **2004**

1. Calabrese, E.J. (2004). Hormesis as a biological concept. Amherst College. October 25, 2004.
2. Calabrese, E.J. (2004). Hormesis as a concept in Toxicology. Holy Cross College. Worcester, MA. October 20, 2004.
3. Calabrese, E.J. (2004). Hormesis Roundtable. American Industrial Hygiene Conference and Exposition. Atlanta, GA. May 13, 2004.

4. Calabrese, E.J. (2004). Hormesis and the LNT. MIT. Cambridge, MA. April 1, 2004.
5. Stanek III, E.J., and Calabrese, E.J. (2004). Arsenic bioavailability in humans. Environmental Institute, University of Massachusetts. March 26, 2004.
6. Blain, R.R., and Calabrese, E.J. (2004). Hormesis database. Society of Toxicology 43<sup>rd</sup> Annual Meeting. Baltimore, MD. March 24, 2004.
7. Calabrese, E.J. (2004). Hormesis: Its implications for hazard and risk assessment. Society of Toxicology 43<sup>rd</sup> Annual Meeting. Baltimore, MD. March 22, 2004.
8. Ewald, K.A., and Calabrese, E.J. (2004). Protection against mechanistically distinct hepatotoxicants is associated with acute phase response. Society of Toxicology 43<sup>rd</sup> Annual Meeting. Baltimore, MD. March 22, 2004.
9. Calabrese, E.J. (2004). Hormesis and its implications for State health departments (Video Conference). Marin County Health Department. California. February 27, 2004.
10. Calabrese, E.J. (2004). Hormesis and its implications for aging. National Institute of Aging. Baltimore, MD. February 26, 2004.
11. Calabrese, E.J. (2004). Hormesis and new developments in assessing the dose-response. Johns Hopkins University. Baltimore, MD. February 25, 2004.
12. Calabrese, E.J. (2004). Hormesis and public health. Environmental Media Services. Washington, DC. February 25, 2004.

### **2003**

1. Nascarella, M.A., and Calabrese, E.J. (2003). Stage specific toxicity and the hormetic dose response relationship in the black blowfly. 3<sup>rd</sup> Annual Institute of Environmental and Human Health Toxicology Exposition. Lubbock, TX. April 4, 2003.
2. Calabrese, E.J. (2003). Toxicological Foundations of Hormesis. Canadian Society of Toxicology. Plenary Address. Montreal, Canada. December 2003.
3. Calabrese, E.J. (2003). Hormesis and its role in Toxicology. Society of Toxicology of Canada. Plenary Session. Montreal, Canada. December 8, 2003.
4. Calabrese, E.J. (2003). The dose-response relationship: A new paradigm with broad biomedical implications. University of Massachusetts School of Public Health. Amherst, MA. November 25, 2003.
5. Calabrese, E.J. (2003). Hormesis. Hazard and risk assessment. Texas Tech University (Video Conference). November 7, 2003.

6. Calabrese, E.J. (2003). Hormesis. College of the Holy Cross. Worcester, MA. October 14, 2003.
7. Calabrese, E.J. (2003). Hormesis and risk assessment. The Dow Foundation. Midland, MI. September 17, 2003.
8. Calabrese, E.J., and Baldwin, L.A. (2003). Hormesis at the NTP. Second Non-Linearity Dose Response Relationships in Biology, Toxicology and Medicine Conference. Amherst, MA. June 8, 2003.
9. Calabrese, E.J. (2003). Biomedical implications of hormesis. Second Non-Linearity Dose Response Relationships in Biology, Toxicology and Medicine Conference. Amherst, MA. June 8, 2003.
10. Calabrese, E.J. (2003). Non-Linearity Dose-Response Relationships in Biology, Toxicology and Medicine, International Conference. Amherst, MA. May 28, 2003.
11. Calabrese, E.J. (2003). Bowdoin College, Department of Chemistry. Hormesis: New Concepts in our Understanding of the Dose Response. Brunswick, ME. May 2, 2003.
12. Calabrese, E.J. (2003). Tufts University, Department of Environmental Engineering. Hormesis: Occurrence and Mechanistic Foundations. Medford, MA. April 17, 2003.
13. Calabrese, E.J. (2003). Tufts University Medical School. Medical Implications of Hormesis. Boston, MA. April 17, 2003.
14. Calabrese, E.J. (2003). Society of Environmental Toxicology and Chemistry (SETAC) North Atlantic Chapter, Annual Meeting. Hormesis: Occurrence, Generalizability and Applications to Toxicology and Risk Assessment. Mystic, CT. April 24, 2003.
15. Calabrese, E.J. (2003). Columbia University, School of Education. Hormesis: Conceptual Framework and Application to Environmental Science Curriculum. New York. February 17, 2003.
16. Calabrese, E.J. (2003). Boston University School of Public Health. Biphasic Dose Response Relationships in Biology, Toxicology and Medicine. February 21, 2003.
17. Calabrese, E.J. (2003). Are Human Exposure Limits Too Conservative? Non-Linear Dose Response Relationships and "Hormesis". Aberdeen Proving Grounds. January 14, 2003.

## 2002

1. Nascarella, M.A., and Calabrese, E.J. (2002). A model system to explore the hormesis dose response relationship. Society for Risk Analysis Annual Meeting. New Orleans, LA. December 9, 2002.
2. Nascarella, M.A., Stoffolano, J.G., and Calabrese, E.J. (2002). Hormesis and stage specific toxicity induced by cadmium in an insect model, the queen blowfly, *Phormia regina* Meig. Society for Environmental Toxicology and Chemistry Annual North American Meeting. Salt Lake City, UT. November 19, 2002.
3. Calabrese, E.J. (2002). International Conference on Chemical Mixtures (ICCM). Atlanta, GA. September 11, 2002.
4. Calabrese, E.J. (2002). Toxicological Risk Assessment of DIMP. Colorado Water Quality Control Commission. Denver, CO. December 10, 2002.
5. Calabrese, E.J. (2002). Hormesis and High Risk Groups. UMDNJ – New Jersey Medical School. November 14, 2002.
6. Calabrese, E.J. (2002). The Hormetic or Threshold Model: Which is the Most Common Phenomenon in Toxicology. Cornell University. November 7, 2002.
7. Calabrese, E.J. (2002). Federal-State and Risk Analysis Committee (FSTRAC). (2002). U-Shaped Dose Responses in Toxicology and their Risk Assessment Implications. October 23, 2002.
8. Calabrese, E.J. (2002). ATSDR. The Hormetic Dose-Response Model is More Common Than the Threshold Model in Toxicology. Atlanta, GA. September 11, 2002.
9. Calabrese, E.J. (2002). NCAC-SOT. U-shaped Dose Responses Curves – What, Why and How?. May 16, 2002.
10. Calabrese, E.J. (2002). Toxicological Foundation of Hormesis. Bates College. February 14, 2002.
11. Calabrese, E.J. (2002). Applications of Hormesis in Environmental Science. Bates College. February 15, 2002.
12. Calabrese, E.J. (2002). AMEC Corp. Risk Assessment and Hormesis. February 14, 2002.
13. Calabrese, E.J. (2002). Hormesis as Generalizable Hypothesis. General Electric. February 2, 2002.

14. Calabrese, E.J. (2002). Applications of Hormesis in Toxicology, Risk Assessment and Chemotherapeutics. University of Rhode Island. January 30, (2002).

## **2001**

1. Nascarella, M.A., and Calabrese, E.J. (2001). The development of toxicological bioassay using black blow fly *Phormia regina* (Diptera: Calliphoridae) larvae to evaluate physiological response to low level environmental stress. University of Massachusetts, School of Public Health and Health Sciences 4<sup>th</sup> Annual Poster Session. Amherst, MA. March, 2001.

2. Nascarella, M.A., Stoffolano, J.G., and Calabrese, E.J. (2001). Stage specific and hormetic effects induced by cadmium in the black blowfly. American Public Health Association 129<sup>th</sup> Annual Meeting. Atlanta, GA. October, 2001.

3. Calabrese, E.J. (2001). Hormesis: Current Status. Medical College of New York, Department of Animal Science. November 28, 2002. November , 14 2001, GE S

4. Calabrese, E.J. (2001). U-shaped dose responses in biology, toxicology and medicine: frequency, quantitative features and possible significance. Yale University. October 3, 2001.

5. Calabrese, E.J. (2001). The history of the dose-response relationship: reassessing the foundation of toxicology. Yale University. October 3, 2001.

6. Nascarella, M.A., Stoffolano, J.G., and Calabrese, E.J. (2001). Stage specific toxicity and hormetic effects induced by cadmium in the black blowfly *phormia regina*. *Academic Public Health Caucus*, Poster Presentation. Abstract#:31416.

7. Calabrese, E.J. (2001). Harvard University. Hormesis. September 21, 2001.

8. Calabrese, E.J. (2001). Hormesis: Pharmacological and Toxicological Foundations. University of Rhode Island. June 31, 2001.

## **2000**

1. Calabrese, E.J. (2000). Scientific data on low dose radiation and cancer. Health Benefits of Low Dose Radiation. Radiation, Science, and Health, Inc. Washington, DC. November 15, 2000.

2. Calabrese, E.J. (2000). Radiation Hormesis. BEIR VII Committee meeting. National Academy of Sciences, Washington, DC. September 20, 2000.

3. Calabrese, E.J. (2000). When adults are at greater risk than children. Conference on 10X factors. Hoffman-LaRoche, Nutley, NJ. May 3, 2000.



4. Calabrese, E.J. (2000). Hormesis as a biological phenomenon. Dept. of Entomology, University of Massachusetts, Amherst, MA. March 22.
5. Calabrese, E.J. (2000). The historical foundations of chemical hormesis. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
6. Calabrese, E.J. (2000). The historical foundations of radiation hormesis. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
7. Calabrese, E.J. (2000). Factors contributing to the marginalization of both hypotheses. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
8. Calabrese, E.J. (2000). Establishment of quantitative evaluative criteria for assessing hormesis. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
9. Calabrese, E.J. (2000). Description of the chemical and radiation hormesis database. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
10. Calabrese, E.J. (2000). Why is hormesis not always seen? Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
11. Calabrese, E.J., and Baldwin, L.A. (2000). Apoptosis and biphasic response. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
12. Calabrese, E.J., and Baldwin, L.A. (2000). Cancer and U-shaped curves. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
13. Calabrese, E.J., and Baldwin, L.A. (2000). Alcohol and U-shaped curves. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
14. Calabrese, E.J., and Baldwin, L.A. (2000). The history of chemical hormesis. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
15. Calabrese, E.J., and Baldwin, L.A. (2000). The history of radiation hormesis. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.

16. Calabrese, E.J., and Baldwin, L.A. (2000). Quantitative evaluation method for hormesis. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
17. Calabrese, E.J., and Baldwin, L.A. (2000). Reproductive toxicity & U-shaped curves. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
18. Calabrese, E.J., and Baldwin, L.A. (2000). Adenosine: Biphasic receptor binding via allosteric enhancement. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
19. Calabrese, E.J., and Baldwin, L.A. (2000). Adenosine: Adenosine induces biphasic responses in renal vasculature. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
20. Calabrese, E.J., and Baldwin, L.A. (2000). Adenosine: Apomorphine induced biphasic penile erection: Occurrence and mechanistic basis. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
21. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic response of estrogens: Angiogenesis, bone formation, and immunostimulation. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
22. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic response of estrogens: Human breast cell proliferation, and DNA synthesis in human vascular cells. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
23. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic response of estrogens: Phytoestrogen and clot formation. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
24. Calabrese, E.J., and Baldwin, L.A. (2000). Cadmium induced biphasic responses. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
25. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of amyloid  $\beta$ -peptide. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
26. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic dose-response relationship between peripheral corticosterone and memory. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.

27. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of nitric oxide: Osteoclast differentiation, macrophage synthesis of vitamin D<sub>3</sub>, and vasodilation in the human forearm. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
28. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of nitric oxide: Myocardial contraction, and calcium current in the heart. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
29. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of nitric oxide: Methylene blue and behavior, excitatory amino acids, and neutrophil migration. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
30. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of nitric oxide: Carbon monoxide induces a biphasic release of NO, biphasic effects of neuroleptic drugs on NOS, and NO and sperm function. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
31. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of testosterone: Chondrocytes, and sertoli cell function. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
32. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of testosterone: Prolactin, and prostate cancer cells (LNCaP). Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
33. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of prostaglandins: PGE<sub>2</sub> and verapamil, a calcium channel blocker, and bone formation. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
34. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of nonsteroidal anti-inflammatory drugs (NSAIDS): Prostaglandin production and transport. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
35. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of prostaglandins: neutrophil migration, corticosteroids, and transforming growth factor  $\beta$ . Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
36. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of opiates: Cardiovascular and respiratory effects. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.

37. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of opiates: Cardiovascular and respiratory effects fetal breathing movements (FBM) in the lamb, neutrophil migration, peripheral blood lymphocyte (PBL) natural killer-activity, and corticosterone production. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
38. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of opiates: hCG secretion, HIV growth, and behavioral responses pain/euphoria. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
39. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of opiates: binding to brain receptors. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
40. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic chemotaxis effects of alcohol, alpha-1 proteinase inhibitor (API), FMLP, and mouse nerve growth factor. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
41. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic chemotaxis effects on neutrophils, tumor cells, and fibroblasts. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
42. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of dopamine: Background and biomedical significance, and prolactin secretion. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
43. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of dopamine: artery relaxation. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
44. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of dopamine: Apomorphine on pain, and locomotion. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
45. Calabrese, E.J., and Baldwin, L.A. (2000). Biphasic effects of dopamine agonists on memory. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.
46. Calabrese, E.J., and Baldwin, L.A. (2000). Apoptosis and biphasic response. Poster presentation. Chemical and Radiation Hormesis Scientific Foundations. Amherst, MA. January 19-20.

## **1999**

1. Calabrese, E.J. (1999). Toxicology of DIMP. National Academy of Sciences. Washington, DC. November 22.
2. Calabrese, E.J. (1999). Radiation hormesis: current status. U.S. Nuclear Regulatory Commission. Rockville, MD. March 29.
3. Calabrese, E.J. (1999). Hormesis and adaptation. NIH. Bethesda, MD. April 26.
4. Calabrese, E.J. (1999). Single exposure carcinogen database. U.S. EPA. Washington, DC. June 12.
5. Stanek, E.J., and Calabrese, E.J. (1999). Soil ingestion in children. U.S. EPA. Research Triangle Park, NC. June 14.
6. Calabrese, E.J. (1999). Health effects of DIMP. U.S. National Academy of Science. Washington, DC. November 4.
7. Calabrese, E.J. (1999). Radiation hormesis. NE Radiology Society. Boston, MA. June 18.

## **1998**

1. Calabrese, E.J. (1998). New developments on hormesis. AIHC. Washington, DC. January 13.
2. Calabrese, E.J. (1998). Scientific foundations of hormesis. North Carolina Chapter of the Society of Risk Analysis. Cary, NC. April 27.
3. Calabrese, E.J. (1998). Chair – conference on societal implications of hormesis. Research Triangle Park, NC. October 5-6.
4. Calabrese, E.J. (1998). Historical foundations of chemical hormesis. Conference on societal implications of hormesis. Research Triangle Park, NC. October 5-6.
5. Calabrese, E.J. (1998). Implications of hormesis for risk assessment. 10X uncertainty factor conference. Medical College of New Jersey. Newark, NJ. November 11.
6. Calabrese, E.J. (1998). Non-monotonic dose-response relationships and their risk assessment implications. EPA National Symposium. Cary, NC. April 28.
7. Calabrese, E.J. (1998). Single exposure carcinogens and its implications for state public health risk assessors. National Teleconference Presentations for the ATHO Foundation. May 7.

8. Calabrese, E.J. (1998). U-shaped dose-response relationship. EPA Drinking Water Office-FASTAC. Boston, MA. May 8.
9. Calabrese, E.J. (1998). Hormesis and its risk assessment implications. Pfizer. Groton, CT. May 21.
10. Calabrese, E.J. (1998). Low dose responses to chemical stressor agents. General Electric. Schenectady, NY. July 30.
11. Calabrese, E.J. (1998). Hormesis and the biological effects of low level exposures. Occupational Safety and Health Group. Washington, DC. August 4-5.

### **1997**

1. Calabrese, E.J. (1997). Dose-response relationships and endocrine disruption. Conference on Endocrine Disruption. Research Triangle Park, NC. January 13.
2. Calabrese, E.J. (1997). Single exposure carcinogen data base. NIOSH. Cincinnati, OH. January 23.
3. Calabrese, E.J., Blain, R.B., Leonard, D., and Ewald, K. (1997). Role of neutrophils and acute phase proteins in the hepatotoxic interaction between kepone and carbon tetrachloride. SOT Annual Meeting. Cincinnati, OH. March 10.
4. Calabrese, E.J., and Stanek, E.J. (1997). The amount of particle size of soil ingested by children. SOT Annual Meeting. Cincinnati, OH. March 12.
5. Calabrese, E.J., and Blain, R.B. (1997). Stress effects on carbon tetrachloride toxicity. SOT Annual Meeting. Cincinnati, OH. March.
6. Calabrese, E.J. (1997). Role of hormesis in risk management. DOD conference at NIH, Bethesda, MD. May 15.
7. Calabrese, E.J. (1997). Development of a chemical hormesis database: strengths, limitations, and generalized ability. Toxicology Forum. Aspen, CO. July 7-11.
8. Calabrese, E.J. (1997). Hormesis: Database and underlying mechanisms. Toxicology Forum, Aspen, CO. July 13.
9. Calabrese, E.J. (1997). Development of a chemical hormesis data base: Strengths, limitations, and generalized ability. Toxicology Forum. Aspen, CO. July 11.
10. Calabrese, E.J. (1997). Acute episodes of soil ingestion. Society of Risk Analysis. Washington, DC. December 7.

11. Calabrese, E.J. (1997). Single exposure carcinogens. Society of Risk Analysis. Washington, DC. December 7.

## **1996**

1. Calabrese, E.J. (1996). Adaptive mechanisms and dose-response relationships. Texas\_A&M University. Texas. February, 19.

2. Calabrese, E.J. (1996). Acute exposures to genotoxic carcinogens. University of\_Montreal. Canada. April 10.

3. Calabrese, E.J. (1996). Current issues in risk assessment. Harvard University. Boston, MA. August 5.

4. Calabrese, E.J. (1996). Acute exposures to chemical carcinogens. National Academy of Sciences. Washington, DC. September 17.

5. Calabrese, E.J. (1996). Chemical hormesis. Texas Chemical Industry Association. Houston, TX. September 23.

6. Calabrese, E.J. (1996). Chaired session on genetic factors and environmental exposures. EPA Conference. Durham, NC. September 25.

7. Calabrese, E.J. (1996). Ecogenetics: genetic predisposition to toxic substances. EPA conference on interindividual differences in susceptibility. Durham, NC.

8. Calabrese, E.J. (1996). Single exposure carcinogens. New England Society for Occupational and Environmental Medicine. Boston, MA. December 5.

9. Calabrese, E.J. (1996). Chemical Hormesis. Safety factors in risk assessment. Nutley, NJ. December 6.

## **1995**

1. Calabrese, E.J. (1995). Single exposure carcinogens. Society of Toxicology. Baltimore, MD. March 5-9.

2. Calabrese, E.J. (1995). Retrieval database on single exposure carcinogens. Society of Toxicology. Baltimore, MD. March 5-9.

3. Calabrese, E.J. (1995). Development of annual soil ingestion distributional estimates of 64 children based on daily soil ingestion values. Society of Toxicology. Baltimore, MD. March 5-9.

4. Schmidt, C.W., Leonard, D.A., Baldwin, L.A., Zhao, X.Q., and Calabrese, E.J. (1995). Administration of G2 activating agents modulates carbon tetrachloride induced hepatotoxicity. Society of Toxicology. Baltimore, MD. March 5-9.
5. Johnson, R.B., and Calabrese, E.J. (1995). The effects of repeat dosing and repeat blood withdrawal on carbon tetrachloride toxicity. Society of Toxicology. Baltimore, MD. March 5-9.
6. Calabrese, E.J. (1995). Uncertainty factors: their toxicological bases. Conference on Uncertainty Factors in Risk Assessment. NJ Medical School. Nutley, NJ. April 7.
7. Calabrese, E.J. (1995). Carcinogens that cause cancer with an single dose. Clark\_University. Worcester, MA. April 16.
8. Calabrese, E.J. (1995). Single exposure carcinogens. Risk Science Institute/Brookings Institute. 1 Washington, DC. April 23.
9. Calabrese, E.J. (1995). Soil ingestion in children and adults. Louisiana Department of Environmental Quality. Baton Rouge, LA. June 28.
10. Calabrese, E.J. (1995). Soil ingestion estimates. 10th Annual Soil Contamination Conference. University of Massachusetts. Amherst, MA. October 23.
11. Calabrese, E.J. (1995). Variability in response to toxic substances. Conference on Multiple Chemical Sensitivity. Baltimore, MD. October 30.
12. Calabrese, E.J. (1995). BELLE-An overview and a long-term view. Texas Chemical Industry Institute. Houston, TX. November 7.
13. Calabrese, E.J. (1995). Tissue repair as a toxicological principle. American College of Toxicology. Vienna, VA. November 12.

## **1994**

1. Calabrese, E.J. (1994). Biological effects of low level exposures to chemicals and radiation. Society of Risk Analysis. Baltimore, MD. December 7.
2. Calabrese, E.J. (1994). Chemical mixtures - a primer. US EPA. Raleigh, NC. November 7.
3. Calabrese, E.J. (1994). Current soil ingestion estimates. Louisiana State University. New Orleans, LA. November 2.
4. Calabrese, E.J. (1994). Children and adult soil ingestion. 9th Conference on\_Hydrocarbon Contaminated Soils. Amherst, MA. October 20.



5. Calabrese, E.J. (1994). BELLE as a concept. American College of Toxicology. Williamsburg, VA. October 26.
6. Calabrese, E.J. (1994). How to derive daily estimates of soil ingestion. U.S. EPA\_Exposure Assessment Group. Washington, DC. June 1.
7. Calabrese, E.J. (1994). Recent developments in soil ingestion. International Association\_for Lead and Zinc Industries. Chapel Hill, NC. May 26.
8. Calabrese, E.J. (1994). Biological effects of low level exposures (BELLE). American Occupational Health Conference. Chicago, IL. April 21.
9. Calabrese, E.J. (1994). Discussion of the key risk assessment issues. Symposium on Synthetic Vitreous Fibers: Scientific and Public Policy Issues. ISRTP. Arlington, VA. March 2-3.
10. Calabrese, E.J., and Mehendale, H.M. (1994). Cellular repair processes-the role of tissue repair as an adaptive strategy: why low doses are often non-toxic and why high doses can be fatal. Society of Toxicology 33rd Annual Meeting. Dallas, TX. March 1994.
11. Calabrese, E.J. (1994). Discussion of the key public policy issues and discussion of issues identified and recommendations made. Symposium on Synthetic Vitreous Fibers: Scientific and Public Policy Issues. ISRTP. Arlington, VA. March 2-3.
12. Calabrese, E.J. (1994). Chair session on unusual dose-response curves and implications for risk assessment. Society of Toxicology. Dallas, TX. March 17.
13. Calabrese, E.J. (1994). Cellular repair processes--the role of tissue repair as an adaptive strategy: why low doses are often non-toxic and why high doses can be fatal. Society of Toxicology Annual Meeting, Poster Discussion Session: Unusual Dose-Response Relationships: Mechanisms and Implications for Risk Assessment. Dallas, TX. March 17.
14. Calabrese, E.J. (1994). Session Chair. Unusual shaped dose-response curves. Society of Toxicology Annual Meeting, Poster Discussion Session: Unusual Dose-Response Relationships: Mechanisms and Implications for Risk Assessment. Dallas, TX. March 17.
15. Calabrese, E.J. (1994). A single exposure to certain chemical carcinogens can cause cancer: documentation, limitations and implications for risk assessment. US EPA\_Environmental Criteria and Assessment Office Seminar. Cincinnati, OH. March 30.
16. Calabrese, E.J. (1994). Single exposure carcinogens. Massachusetts Attorney's General. Boston, MA. January 13.

## **1993**

1. Calabrese, E.J. (1993). The use of in vitro studies in the pursuit of improved animal extrapolation. World Congress on Alternative and Animal Use in the Life Sciences. Baltimore, MD. November, 14-19.
2. Calabrese, E.J. (1993). Soil ingestion estimates. ERM Corporation. Cambridge, MA. September 27.
3. Calabrese, E.J. (1993). How valid are EPA's soil ingestion estimates. 8th Annual Soil Contamination Conference. Amherst, MA. September 23.
4. Calabrese, E.J. (1993). Soil ingestion studies reviewed. Amer. Indust. Health Council. Amherst, MA. September 22.
5. Calabrese, E.J. (1993). G<sub>2</sub> hepatocytes in CCl<sub>4</sub> toxicity. Annual Society of Toxicology. New Orleans, LA.
6. Calabrese, E.J. (1993). Hepatic ODC activity in fish models. Annual Society of Toxicology. New Orleans, LA.
7. Calabrese, E.J. (1993). Supercarcinogens. National Center for Toxicological Research (NCTR). Jefferson, Arkansas. September 16.
8. Calabrese, E.J. (1993). Lead as a mitogen: Effects on CCl<sub>4</sub> hepatotoxicity. NCTR. Jefferson, Arkansas. September 16.
9. Calabrese, E.J. (1993). G<sub>2</sub> hepatocytes: A new hepatic cellular triage system in response to toxic agents. NCTR. Jefferson, Arkansas. September 16.
10. Calabrese, E.J. Single exposure carcinogens. (1993). New Jersey Medical School. Newark, NJ. March 3.
11. Calabrese, E.J. (1993). Toxicological Risk Assessment of DIMP. Colorado Water Quality Control Commission. Denver, CO. March, 1993.

## **1992**

1. Calabrese, E.J., Leonard, D.A., Baldwin, L.A., Kostecki, P.T. (1992). Ornithine decarboxylase (ODC) activity in the liver of individual medaka (*Oryzias Latipes*). SETAC 13th Annual Meeting. Cincinnati, OH. November 8-12.
2. Calabrese, E.J., Leonard, D.A., and Baldwin, L.A., (1992). Activated G-2 hepatocytes: A cellular triage system effective against hepatotoxins. SETAC 13th Annual Meeting. Cincinnati, OH. November 8-12.

3. Bell, C.E., Baldwin, L.A., KostECKI, P.T., and Calabrese, E.J. (1992). Comparative response of rainbow trout and rat to the liver mitogen, lead. SETAC 13th Annual Meeting. Cincinnati, OH. November 8-12.
4. Calabrese, E.J., Leonard, D.A., and Baldwin, L.A. (1992). Potentiation of CCl<sub>4</sub>-induced hepatotoxicity by blood drawing. Presented at the SETAC 13th Annual Meeting, November 8-12, Cincinnati, OH.
5. Calabrese, E.J., Leonard, D.A. and Baldwin, L.A. (1992). Hepatic ornithine decarboxylase (ODC) activity in individual medaka (*Oryzias latipes*). Annual meeting of the American College of Toxicology, San Francisco, CA. October, 1992.
6. Calabrese, E.J., Leonard, D.A. and Baldwin, L.A. (1992). Reduction in CCl<sub>4</sub>-induced hepatotoxicity by prior treatment with diatomaceous earth. Annual meeting of the American College of Toxicology, San Francisco, CA. October, 1992.
7. Calabrese, E.J., Leonard, D.A. and Baldwin, L.A. (1992). Reduction in hepatotoxicity by repeated injections of DMN at doses exceeding the MTD. Annual meeting of the American College of Toxicology, San Francisco, CA. October, 1992.
8. Calabrese, Leonard, D.A. and Baldwin, L.A. (1992). Activated G2 hepatocytes: A cellular triage system effective against hepatotoxins. Annual meeting of the American College of Toxicology, San Francisco, CA. October, 1992.
9. Calabrese, E.J. (1992). Animal Extrapolation: Future issues. Pfizer, Inc. Groton, CT. September 3, 1992.
10. Calabrese, E.J. (1992). Chairperson and introductory comments to session on ecological risk assessment. Seventh Annual Hydrocarbon Contaminated Soil Conference, University of Massachusetts, Amherst, MA.
11. Calabrese, E.J. (1992). Uncertainty factors in ecological risk assessment. Seventh Annual Hydrocarbon Contaminated Soil Conference, University of Massachusetts, Amherst, MA.
12. Calabrese, E.J. (1992). Effects of peroxisome proliferators on trout and Medaka. U.S. Army Research and Development Lab Annual Research Symposium. Frederick, MD. April 23, 1992.
13. Calabrese, E.J. (1992). Single exposure carcinogens. Joint EPA, NIEHS Seminar, Research Triangle Park, NC. April 14, 1992.
14. Calabrese, E.J. (1992). The interdependence of some uncertainty factors: Implications for risk assessment. Conference on New Issues in Occupational Health, Duke University. April 13, 1992.

15. Calabrese, E.J. (1992). Soil ingestion. Health and Welfare Canada. Toronto, Canada. March 24, 1992.
16. Calabrese, E.J. (1992). Differentiating soil vs dust ingestion. Third Annual Hydrocarbon Conference. Long Beach, CA. March 12, 1992.
17. Calabrese, E.J. (1992). Can a single exposure to a chemical carcinogen cause cancer. 3M Corporation, Minneapolis, MN. January 20, 1992.
18. Calabrese, E.J. (1992). Soil Ingestion in Children. 3M Corporation. Minneapolis, MN. January 20, 1992.
19. Calabrese, E.J. (1992). Multiple chemical sensitivities. 3M Corporation. Minneapolis, MN. January 20, 1992.
20. Calabrese, E.J. (1992). Current lead ingestion estimates. Presented at ENSOR Corp., Boston, MA. January 15, 1992.
21. Calabrese, E.J. (1992). What do we know about soil ingestion? Ensor Corp., Cambridge, MA. January 10, 1992.

## **1991**

1. Calabrese, E.J. and KostECKI, P. (1991). Soil contaminant research priorities for the 1990's. Department of Engineering, University of Massachusetts. November 23, 1991.
2. Stewart, J.H., Hosmer, D.W., and Calabrese, E.J. (1991). Estimation and use of the TD50 with the median effect equation in cancer quantitative risk assessment. Society for Risk Analysis. McLean VA. November 16, 1991.
3. Stewart, J.H., Hosmer, D.W., and Calabrese, E.J. (1991). The median effect equation; its biological plausibility as a model for cancer quantitative risk assessment. Society for Risk Analysis. McLean VA. November 16, 1991.
4. Calabrese, E.J. (1991). A single dose carcinogens. Health Effects Institute. Cambridge, MA. Oct., 30, 1991.
5. Calabrese, E.J. (1991). Single doses of carcinogens and cancer risk. Presented at U.S. EPA. Duluth, MN. October 24, 1991.
6. Calabrese, E.J. (1991). The effects of peroxisome proliferators and mitogens on fish. U.S. EPA. Duluth, MN. October 23, 1991.

7. Calabrese, E.J., and Stanek, E.J. (1991). Workshop on estimating how much soil children ingest. Presented at the 6th Annual Hydrocarbon Conference. Amherst, MA. September 24, 1991.
8. Calabrese, E.J. (1991). Soil ingestion estimates: An update presented to the International Lead and Zinc Research Institute. Research Triangle Park, NC. September 9, 1991.
9. Calabrese, E.J. (1991). A large number of carcinogens can cause cancer with a single dose. ATSDR Guest Seminar. September 6, 1991.
10. Calabrese, E.J. (1991). How reliable are soil ingestion estimates? ATSDR Guest Seminar. September 6, 1991.
11. Calabrese, E.J., and Kostecky, P.T. (1991). An update on activities of the council for health and environmental safety of soil (CHESS). ATSDR Guest Seminar. September 6, 1991.
12. Calabrese, E.J. (1991). Risk communication and public skepticism. U.S. Forest Service, sponsored Malathion Workshop. Arlington, VA. August 27, 1991.
13. Calabrese, E.J. (1991). Pharmacodynamics/pharmacokinetics of malathion: A discussion of risk assessment models and animal data extrapolation including physiologically-based models in evaluation of malathion human toxicity. U.S. Forest Service sponsored Malathion Workshop. Arlington, VA. August 26, 1991.
14. Bell, C.E., Kostecky, P.T., and Calabrese, E.J. (1991). Role of risk assessment in state regulatory programs for contaminated soils. Risk-based standards workshop. U.S. Department of Energy. Baltimore, MD. July 9-10, 1991.
15. Calabrese, E.J. and Stanek, E.J. (1991). Qualitative and quantitative evidence of soil ingestion. Presented at the 15th annual army environmental R & D Symposium. Williamsbury, VA. June 25, 1991.
16. Calabrese, E.J. (1991). The role pharmacokinetics in facilitating interspecies extrapolation. 7th International Symposium on Radiopharmaceutics. Boston, MA. June 6, 1991.
17. Calabrese, E.J. (1991). Current issues in risk assessment. Presented at the WHO sponsored course on Toxicology and Risk Assessment. Ottawa, Canada. May 22, 1991.
18. Calabrese, E.J. (1991). Single exposure carcinogens. Guest seminar for Health and Welfare Canada. Ottawa, Canada. May 22, 1991.
19. Donohue, M., Baldwin, L., Kostecky, P. and Calabrese, E.J. (1991). The effects of peroxisome proliferators on primary trout hepatocytes. Conference of the American Association on Cancer Research, Houston, Texas. May, 1991.

20. Scarano, L., Baldwin, L., KostECKI, P., and Calabrese, E.J. (1991). Interactions of peroxisome proliferators in rat. American Association on Cancer Research. Houston, Texas. May, 1991.
21. Calabrese, E.J. (1991). Short term exposures to potent carcinogens. Invited presentation to the Committee on Toxicology, National Academy of Sciences, Washington, DC. May 15, 1991.
22. Donahue, M. and Calabrese, E.J. (1991). Peroxisome proliferation in trout. Proceedings of the conference on Regulating Drinking Water in the 1990's. University of Massachusetts, Amherst. April 4, 1990.
23. Calabrese, E.J. (1991). Uncertainty factors in risk assessment. Presented at Conference on Regulating Drinking Water in the 1990's. University of Massachusetts, Amherst. April 3, 1991.
24. Gilbert, C.E. and Calabrese, E.J. (1991). Public health risks from SOCs in drinking water. Presented at the Conference on Drinking Water in the 1990's. University of Massachusetts, Amherst. April 3, 1991.
25. Wysynski, A. and Calabrese, E.J. (1991). Peroxisome proliferators and public health concerns. Presented at the Conference on Regulating Drinking Water in the 1990's. University of Massachusetts. April 3, 1991.
26. Witko, J. and Calabrese, E.J. (1991). Regulating compliances and SOCs. Proceedings of the conference on Regulating Drinking Water in the 1990's. University of Massachusetts, Amherst. April 3, 1991.
27. Wysynski, A., Baldwin, L. KostECKI, P. and Calabrese, E.J. (1991). Peroxisomal proliferators: Omega-3 fatty acids, clofibrate and DEHP: the interactive potential. Society of Toxicology. Dallas, February 27, 1991.
28. Calabrese, E.J. (1991). Chemical carcinogens causing cancer with a single exposure. Implications for risk assessment. University of Oklahoma, School of Public Health. Oklahoma City, Oklahoma. February 27, 1991.
29. Gilbert, C. and Calabrese, E.J. (1991). Hyperbilirubinemia. A new animal model. Society of Toxicology. Dallas, TX. February, 26, 1991.
30. Kenyon, E. and Calabrese, E.J. (1991). Interspecies differences in enterohepatic circulation. Society of Toxicology. Dallas, TX. February, 26.
31. Langlois, C. and Calabrese, E.J. (1991). The interaction of copper, nitrite and chlorite on red blood cells. Presented at the Chemical Oxidation: Technology for the 1990's Conference. Nashville, TN. February 23, 1991.

32. Calabrese, E.J. (1991). New challenges for risk assessment: What to do about carcinogens causing cancer with a single dose. University of Michigan, School of Public Health. Ann Arbor, MI. February 21, 1991.

## **1990**

1. Wysynski, A., Baldwin, L., Leonard, D., and Calabrese, E. (1990). The interaction of omega-3 fatty acids with peroxisome proliferators in the rat model. Presented at the New England SOT Regional meeting. Boston, MA. December, 1990.

2. Kostecki, P. and Calabrese, E.J. (1990). The relevance of CHESS to the oil industry. Presented at an API sponsored meeting in Cleveland, OH. November 20, 1990.

3. Bell, C.E., P.T. Kostecki and E.J. Calabrese. (1990). UST Cleanup: Concepts, Problems and Alternatives. Paul Smiths College. Paul Smiths, NY. November 13, 1990.

4. Scarano, L., Baldwin, L., Calabrese, E.J. and Kostecki, P. (1990). Lack of peroxisomal proliferation in Japanese Medaka exposed to DEHP or 2,4-D. Presented at the Society for Environmental Toxicology and Chemistry. Washington, DC. November, 12, 1990.

5. Yang, J., Calabrese, E.J., Kostecki, P. and Baldwin, L. (1990). Effect of rodent hepatic peroxisomal proliferation on Rainbow Trout. Presented at the Society for Environmental Toxicology and Chemistry. Washington, DC. November 12, 1990.

6. Calabrese, E.J. (1990). Estimating soil ingestion in children: methodological issues. National Conference on Minority Issues in Environmental Health. Atlanta, GA.

7. Gilbert, C. and Calabrese, E.J. (1990). Development of a neonatal hyperbilirubinemia rat model for toxicity studies. Presented at the Conference Similarities and Differences Between Children and Adults: Implications for Risk Assessment. Hunt Valley, MN. November 7, 1990.

8. Gilbert, C. and Calabrese, E.J. (1990). The development of methemoglobin reductase in the neonatal rat. Presented at the Conference on Similarities and Differences Between Children and Adults: Implications for Risk Assessment. Hunt Valley, MN. November 7, 1990.

9. Kostecki, P., and Calabrese, E.J. (1990). CHESS: An Review of Program. Presented at the 5th Annual Hydrocarbon Contaminated Soil Conference. University of Massachusetts, Amherst. September 26, 1990.

10. Bell, C., Kostecki, P., and Calabrese, E.J. (1990). Survey of State Approaches for Soil Cleanup Levels. Presented at the 5th Annual Hydrocarbon Contaminated Soil Conference. University of Massachusetts, Amherst. September 26, 1990.

11. Calabrese, E.J., and Stanek, E.J. (1990). Methodological Advances in Estimating Soil Ingestion. EPA sponsored conference on Lead Exposures to Children. Research Triangle Park, NC. September 24, 1990.
12. Gilbert, C.E., and Calabrese, E.J., (1990). Educating Youth on the Dangers of Childhood Lead Poisoning. Environmental Health Risk Education for Youth: Curricula Concepts, Strategies and Resources. Interagency Task Force on Environmental Cancer and Lung Disease. September 12-14, 1990. Arlington, VA.
13. Gilbert, C.E., Jones, T., Calabrese, E.J., and Winder, A. (1990). Environmental Curricula Concerning Waste Management. Environmental Health Risk Education for Youth: Curricula Concepts, Strategies and Resources. Interagency Task Force on Environmental Cancer and Lung Disease. September 12-14, 1990. Arlington, VA.
14. Langlois, C., Leonard, D., and Calabrese, E.J. (1990). Interactions of multiple methemoglobin-forming agents. New England SOT Regional Meeting, Boston. June 1, 1990.
15. Gilbert, C., and Calabrese, E.J. (1990). Development of a neonatal hyperbilirubinemia model. Maine Biological Symposium, Mt. Dessert Island. May 30, 1990.
16. Stewart, J., and Calabrese. (1990). The median effect principle in toxicology and risk assessment. Maine Biological Symposium, Mt. Dessert Island. May 30, 1990.
17. Calabrese, E.J. (1990). A toxicological appraisal drinking water disinfectants and implications for risk assessment. National Conference on Drinking Water and Health, Amherst, MA. April 30, 1990-May 2, 1990.
18. Gilbert, C., and Calabrese, E.J. (1990). MTBE-a critical evaluation of its toxicological data base. National Conference on Drinking Water and Health, Amherst, MA. April 30, 1990-May 2, 1990.
19. Langlois, C., Leonard, D., and Calabrese, E.J. (1990). The effects of multiple exposure of the drinking water oxidants, chlorite, nitrite and copper on red blood cells. National Conference on Drinking Water and Health, Amherst, MA. April 30, 1990-May 2, 1990.
20. Stewart, J., and Calabrese, E.J. (1990). The application of the median effect principle for assessing risk to drinking water contaminants. National Conference on Drinking Water and Health, Amherst, MA. April 30, 1990-May 2, 1990.
21. Calabrese, E.J. (1990). Acute toxicities and cancer risks: the problem of single exposures. Presented at the U.S. Environmental Protection Agency, Washington, DC. April 11, 1990.
22. Calabrese, E.J. (1990). A single exposure to a carcinogen can cause cancer. Presented at the Center for Environmental Toxicology, Michigan State University, East Lansing, MI. April 3, 1990.



23. Calabrese, E.J. (1990). Single exposures and cancer risks. Presented to the participants of the EPA sponsored workshop on Acute Toxicities. Washington, DC. March 12, 1990.
24. Bell, C., Kostecki, P. and Calabrese, E.J. (1990). Petroleum contaminated soils survey: clean-up levels for western states. Presented at conference on Hydrocarbon Contaminated Soils and Groundwater. Newport Beach, CA. February 19-22, 1990.
25. Kostecki, P. and Calabrese, E.J. (1990). Council for Health and Environmental Safety of Soils-CHESS. Presented at conference on Hydrocarbon Contaminated Soils and Groundwater. Newport Beach, CA. February 19-22, 1990.
26. Edmisten, G., Calabrese, E.J. and Harris, P. (1990). Health risks associated with the remediation of contaminated soils. Presented at conference on Hydrocarbon Contaminated Soils and Groundwater. Newport Beach, CA. February 19-22, 1990.
27. Calabrese, E. (1990). Methodological approaches for assessing soil ingestion. Presented at conference on Hydrocarbon Contaminated Soils and Groundwater. Newport Beach, CA. February 19-22, 1990.
28. Calabrese, E.J. (1990). Methodological approaches to assessing chemical interactions of toxicological significance. Presented at the Aberdeen Proving Ground, Maryland, Department of Defense. June 24, 1990.
29. Calabrese, E.J. (1990). Soil ingestion in children. Environ Corp., Princeton, NJ. January 26, 1990.

## **1989**

1. Calabrese, E.J. (1989). Interspecies variations in enterohepatic recirculation of PCBs and the implications for cancer risk. General Electric Sponsored Research Seminar. Arlington, VA. November 29, 1989.
2. Kostecki, E.J. (1989). CHESS: Its role in assessing soil cleanup levels. Dept. of Defense Environ. Conference. Williamsburg, VA. (November 16, 1989).
3. Calabrese, E.J. (1989). Can a single exposure to a carcinogen cause cancer. Presented at the Chemical Defense Research Conference. Aberdeen, MD. November 14, 1989.
4. Bell, C., Kostecki, P. and Calabrese, E.J. (1989). Survey of state regulatory programs for soil clean-up. EPA sponsored conference on state regulatory programs for underground storage tanks. Albuquerque, New Mexico. November 11, 1989.

5. Calabrese, E.J. (1989). The health effects of DIMP. Colorado Department of Health. Denver, CO. November 8, 1989.
6. Calabrese, E.J. (1989). One exposure study and chemical carcinogenesis. Seminar, Department of Environmental Engineering, University of Massachusetts, Amherst, MA. October 13, 1989.
7. Ochs, J., Calabrese, E.J. et al. (1989). The joint exposure of two peroxisome proliferation agents on hepatic fatty acid oxidase activity in mice. Presented at New England Regional Chapter of the Society of toxicology. Sturbridge, MA. October 20, 1989.
8. Scarano, G., Calabrese, E.J. et al. (1989). The capacity of Rainbow Trout to display hepatic peroxisome proliferation. Presented at New England Regional Chapter of the Society of toxicology. Sturbridge, MA. October 20, 1989.
9. Nolan, K. and Calabrese, E.J. (1989). The effect of vitamin C on intestinal, cecal, and urinary B-glucuronidase activity in the rodent. Presented at New England Regional Chapter of the Society of toxicology. Sturbridge, MA. October 20, 1989.
10. Calabrese, E.J. and Sonich-Mullin C. (1989). Genetic factors and susceptibility to occupational illness. Presented at WHO Conference, Drefeld Federal Republic of Germany. October 17-20, 1989.
11. Calabrese, E.J. et al. (1989). Results of a pilot study to estimate soil ingestion in adults. In: National Conference on Petroleum Contaminated Soils Conference. University of Massachusetts, Amherst, MA. September 25-29, 1989.
12. Stanek, E.J., Calabrese, E.J. et al. (1989). Improved estimates of soil ingestion in children. In: National Conference on Petroleum Contaminated Soils Conference. University of Massachusetts, Amherst, MA. September 25-29, 1989.
13. Bell, C., Kostecki, P. and Calabrese, E.J. (1989). National survey of regulatory approaches to remediation of petroleum contaminated soils. In: National Conference on Petroleum Contaminated Soils Conference. University of Massachusetts, Amherst, MA. September 25-29, 1989.
14. Gilbert, C. and Calabrese, E.J. (1989). Methodological approaches for selecting indicator compounds for home heat fuel number 2. In: National Conference on Petroleum Contaminated Soils Conference. University of Massachusetts, Amherst, MA. September 25-29, 1989.
15. Calabrese, E.J. (1989). Toxicological Risk Assessment of DIMP. Colorado Water Quality Control Commission. Denver, CO. September, 1989.
16. Calabrese, E.J. (1989). Peroxisome proliferation in fish. Annual Aquatic Toxicology Research meeting. Department of Defense. Ft. Detrick, Maryland. August, 9, 1989.

17. Calabrese, E.J. (1989). Toxicological Risk Assessment of DIMP. Colorado Water Quality Control Commission. Denver, CO. July, 1989.
18. Calabrese, E.J. (1989). The role of toxicology in assessing risks for naturally occurring toxins in the food supply. Food and Nutrition Board of the National Academy of Sciences. Falmouth, MA. July, 23, 1989.
19. Bell, C., Kostecki, P. and Calabrese, E.J. (1989). State approaches for the clean-up of petroleum contaminated soil. Maine Biological Science Conference, Portland, Maine. June 3, 1987.
20. Calabrese, E.J., and Kostecki, P. (1989). Biomarkers for toxicology studies in fish. Procter and Gamble, Cincinnati. June 12, 1989.
21. Kostecki, P., and Calabrese, P. (1989). International approaches for assessing health risks from contaminated soils. National Public Health Association Conference, San Antonio, Texas. June 21, 1989.
22. Calabrese, E.J. (1989). Peroxisomes proliferation, carcinogenesis, and implications for risk assessment. Annual Conference on Aquatic Toxicology, ASTM, Atlanta, Georgia. April 18, 1989.
23. Calabrese, E.J. (1989). Single exposures to chemical carcinogens can cause cancer. Agency for Toxic Substances and Disease Registry, Atlanta, Georgia. April, 1989.
24. Calabrese, E.J. (1989). Assessing cancer risk when a single exposure to a carcinogen causes cancer. Amer-Indus. Health Council, Washington, DC. April, 1989.
25. Calabrese, E.J. (1989). Predicting toxicological responses from multiple chemical exposures. University of Illinois, Champaign/Urbana, Illinois. April 5, 1989.
26. Calabrese, E.J. (1989). Less than lifetime exposure to carcinogens and risk assessment methodologies. Dartmouth Medical School, Hanover, NH.
27. Calabrese, E.J. (1989). Public health concerns of medical waste disposal. Sponsored by the Rockefeller Institute of Government. New York, NY. March 9, 1989.
28. Calabrese, E.J. (1989). Genetic susceptibility to occupationally-induced disease. Regional chapter of the American Industrial Hygiene Association (Conn. and NY). Stanford, CT. February 14, 1989.
29. Kostecki, E.J., and Calabrese, E.J. (1989). Leaking underground storage tanks and public health concerns. Annual New England Water Pollution Control Assoc., Boston, MA. (Jan. 23, 1989).

30. Calabrese, E.J. (1989). The role of genetic screening in the prevention of occupationally-induced disease. Johns Hopkins University, Baltimore, Maryland. January 9, 1989.

## **1988**

1. Bell, C.E., Calabrese, E.J., Kostecki, P.T. (1988). State of research and regulatory approach of state agencies for cleanup of petroleum contaminated soils. Presented at the First Annual Real Estate Site Assessment Conference, Resource Education Institute. Sturbridge, Massachusetts. December 1988.

2. Kenyon, E., and Calabrese, E.J. (1988). Inter-species differences in gastrointestinal B-glucuronidase activity. New England Mutagen Society, Kingston, Rhode Island. October 1988.

3. Kostecki, P., and Calabrese, E.J. (1988). Peroxisome proliferation in fish. New England Mutagen Society. Kingston, Rhode Island. October 1988.

4. Yang, J., Calabrese, E.J., and Kostecki, P. (1988). Peroxisome proliferation in the rainbow trout. New England Chapter of the Society of Toxicology. Boston, Massachusetts. October 1988.

5. Bell, C.E., Kostecki, P. and Calabrese, E.J. (1988). National survey of state approaches for regulating petroleum contaminated soil. Third Conference on Environmental and Public Health Effects of Soils Contaminated with Petroleum. Amherst, MA. September 19-21, 1988.

6. Calabrese, E.J. (1988). Determining the health hazard associated with complex mixtures such as petroleum products. Third Conference on Environmental and Public Health Effects of Soils Contaminated with Petroleum. Amherst, MA. September 19-21, 1988.

7. Calabrese, E.J. et al. (1988). Soil ingestion in children. Third Conference on Environmental and Public Health Effects of Soils Contaminated with Petroleum. Amherst, MA. September 19-21, 1988.

8. Kostecki, P. and Calabrese, E.J. (1988). Council for the Health and Environmental Safety of Soils (CHESS). Third Conference on Environmental and Public Health Effects of Soils Contaminated with Petroleum. Amherst, MA. September 19-21, 1988.

9. Calabrese, E.J. (1988). Soil ingestion and implications for risk assessment. Annual Risk Assessment Conference sponsored by the Center for Energy and Environmental Management. Alexandria, Virginia.

10. Calabrese, E.J. (1988). Peroxisome proliferation in fish. U.S. Army Biomedical Corp. Annual Meeting. Fort Detrick, MD. August 23, 1988.
11. Calabrese, E.J. (1988). Air toxic - a new methodology. Chemical Manufacturers Association sponsored conference on Community Exposures. Boston, MA. August 17, 1988.
12. Calabrese, E.J. (1988). The problem of soil ingestion by children. Annual EPA Risk Assessment Conference. Philadelphia, PA. June 27, 1988.
13. Calabrese, E.J. (1988). Exposure quantification: soil ingestion. Future Technologies Conference. Clark Univ./WPI. Worcester, MA. June 15, 1988.
14. Calabrese, E.J. (1988). Recent epidemiological evidence of soil ingestion by children. Univ. Michigan, Ann Arbor, MI. June 13, 1988.
15. Calabrese, E.J. (1988). Soil ingestion by children. American Industrial Health Assoc. Washington, DC. June 9, 1988.
16. Calabrese, E.J. (1988). Principles of animal extrapolation and their application. Amer. Chem. Society. Short Course on Toxicology. Clearwater, Florida. June 3, 1988.
17. Calabrese, E.J. (1988). Estimating Soil Ingestion in Children. Agency for Toxic Substances and Disease Prevention. Atlanta, Georgia. June 2, 1988.
18. Coler, R., KostECKI, P. and Calabrese, E.J. (1988). Assessment of the effect of chlorination practices on selected aquatic communities. Northeast Regional Environ. Conference. Amherst, MA. May 28, 1988.
19. KostECKI, P., Calabrese, E.J. and Coler, R. (1988). The aquatic toxicology program of the Massachusetts Fisheries and Wildlife Department. Regional Environ. Conference. Amherst, MA. May 28, 1988.
20. Calabrese, E.J. (1988). Municipal solid waste disposal - Introductory Remarks. Conference sponsored by the Northeast Regional Environmental Public Health Center. April 19, 1988. Amherst, MA.
21. Calabrese, E.J. (1988). Estimating soil ingestion in children. EPA Special Colloquium. Washington, DC. March 23, 1988.
22. Calabrese, E.J. (1988). Sodium: A Changing Public Health Perspective? Annual Meeting of the American R. Water Association. Reno, NV. March 19, 1988.
23. KostECKI, P.K. and Calabrese, E.J. (1988). Developing a consistent approach for assessing public health risks from contaminated soil. American Conference of Governmental Industrial Hygienist sponsored conference, at Arlington, VA. March 1, 1988.

24. Gilbert, C.E. and Calabrese, E.J. (1988). Regional approaches for risk management. National Conference of the Mosquito Control Association. Denver, CO. February 23, 1988.

25. Calabrese, E.J. (1988). Soil ingestion in children: Methodological approaches. Mobil Oil Company. Princeton, NJ. January 7, 1988.

### **1987**

1. Calabrese, E.J. (1987). Recent advances in animal extrapolation. Presented at the Agency for Toxic Substances and Disease Registry. Atlanta, GA. December 4, 1987.

2. Calabrese, E.J. (1987). Estimates of soil ingestion in children: A proposed methodology. U.S. Public Health Service Conference. Hyannis, MA. December 1, 1987.

3. Calabrese, E.J. et al. (1987). Reproductive health outcome study at a DEC facility. National Conference on Semi-Conductor Health. Cincinnati, OH. Oct. 21, 1987.

4. Calabrese, E.J. (1987). A model air toxins program. Rohm & Haas, Inc. Phil. Oct. 15, 1987.

5. Calabrese, E.J. (1987). Introductory and chairman remarks on session on inhalation toxicology at conference on Animal Extrapolation. Duke University, N.C. Oct. 9, 1987.

6. Calabrese, E.J. (1987). Report on the health assessment of drinking treatment technologies. Environmental Scientific Advisory Board (SAB), Washington, D.C. Oct. 8, 1987.

7. Calabrese, E.J. (1987). Reproductive hazards in the semi-conductor industry. National Safety Council Annual Meeting, Chicago. (Oct. 5, 1987).

8. Kostecki, P., Horton, H.M. and Calabrese, E.J. (1987). Comparison of models to protect health effects from soil contamination. Second Conference on Environmental and Public Health Effects of Petroleum Contaminated Soils. Amherst, MA. September 30, 1987.

9. Calabrese, E.J. (1987). Epidemiologic study to estimate soil ingestion in children. Second Conference on Environmental and Public Health Effects of Petroleum Contaminated Soils. Amherst, MA. September 29, 1987.

10. Calabrese, E.J. (1987). Predictive Toxicology. American Chemical Society Meeting. Cincinnati. June 18.

11. Calabrese, E.J. (1987). The toxicologist and risk communication. Conference on Environmental Risk Communication. Amherst, Massachusetts. June 9.

12. Yang, J. and Calabrese, E.J. (1987). Studies on the in vitro capacity of ethanol to enhance sodium nitrite and 1-naphthol-induced oxidant stress in human and sheep erythrocytes. Biomedical Science Conference, Bowdoin College, Maine. June 4.
13. Tilli, F. and Calabrese, E.J. (1987). The effect of ethanol on the response of normal human erythrocytes to 12 oxidant stressors. Biomedical Science Conference. Bowdoin College, Maine. June 4.
14. Kenyon, E.M., Young, J., and Calabrese, E.J. (1987). Inhibition of B-glucuronidase in human urine by ascorbic acid. Biomedical Science Conference. Bowdoin College, Maine. June 3.
15. Kenyon, E.M. and Calabrese, E.J. (1987). B-glucuronidation activity in the small intestine of mice, rats and rabbits. Biomedical Science Conference. Bowdoin College, Maine. June 3.
16. Calabrese, E.J. (1987). Public health concerns and high technology. Conference on Technology and Public Health, Worcester, Massachusetts. May 28.
17. Calabrese, E.J. (1987). Conference Summary on Ozone Toxicology. Ozone Risk Communication Conference. Amherst, Massachusetts. April 22.
18. Fleischer, E. and Calabrese, E.J. (1987). Soil Venting and Public Health Risks. Soil Remediation/Technology Conference. Sturbridge, Massachusetts. April 6.
19. Kostecki, P.T. and Calabrese, E.J. (1987). Petroleum Contamination of Soils - State of the art for environmental and public health assessment. Soil Remediation/Technology Conference. Sturbridge, Massachusetts. April 6.
20. Calabrese, E.J. (1987). Toxicology and Drinking Water Regulations. N.E. AWWA Meeting. Windsor Locks, Connecticut. March 19.
21. Calabrese, E.J. (1987). Principles of Animal Extrapolation U.S.D.A. Toxicology and Risk Assessment Conference. Atlanta Georgia. February 11.
22. Calabrese, E.J. (1987). Asbestos in Play Sand? Introductory remarks to conference. Conference on Asbestos in Play Sand. Northeast Regional Environmental Public Health Center, University of Massachusetts, Amherst. February 10.
23. Calabrese, E.J., Pastides, H. and Hosmer, D. (1987). Health surveillance assessment in the semi conductor industry. Windsor Locks, Connecticut. January 23.
24. Calabrese, E.J. (1987). Health concerns from groundwater contaminants. Third National Drinking Water Conference. Philadelphia, Pennsylvania. January 13, 1987.

## **1986**

1. Calabrese, E.J. (1986). Predictive Toxicology. U.S. Army, Fort Detrick, Maryland. December 14, 1986.
2. Calabrese, E.J. (1986). Advances in animal extrapolation. Regional Meeting of the Halogenated Solvents Industry Alliance Atlanta, Georgia. December 10, 1986.
3. Kostecki, P. and Calabrese, E.J. (1986). A review of formal and informal soil standards within the U.S. Amer. Soc. of Agronomy. 78th Annual Meeting, New Orleans, Louisiana. December 4, 1986.
4. Calabrese, E.J. (1986). Regional approaches for addressing environmental health concerns. U.S. Public Health Service Region 1, Annual Conference. Hyannis, Massachusetts. December 3, 1986.
5. Calabrese, E.J. (1986). Chemical interactions in environmental health. American College of Toxicology Annual Meeting. November 17, 1986. Philadelphia, Pennsylvania.
6. Calabrese, E.J. (1986). Chairman - Session on Drug/Chemical Interactions. American College of Toxicology Annual Meeting. November, 17, 1986.
7. Calabrese, E.J. (1986). Predictive toxicology; principles and applications. Amer. Chem. Soc. Ann. Meeting. November 14, 1986, Florida.
8. Kostecki, P.T., Calabrese, E.J. and Garnick, E. (1986). A national census of how petroleum contamination is being assessed. Soc. Environ. Chem. and Tox. November 5, 1986. Washington, D.C.
9. Calabrese, E.J. (1986). Principles of animal extrapolation and their application for pesticide risk assessment. Soc. Environ. Chem. and Tox. November 5, 1986, Washington, DC.
10. Kostecki, P.T. and Calabrese, E.J. (1986). The importance of environmental factors on the reproductive success of smelt (*Osmerus mordax*). Soc. Environ. Chem. Tox. November 4, 1986, Washington, D.C.
11. Calabrese, E.J. (1986). The effect of vitamin C supplementation of the body burden of heavy metals. Third International Conference on Vitamin C. October 6, 1986. New York.
12. Calabrese, E.J. (1986). Inhibitor of urinary B-glucuronidase activity in human subjects by vitamin C supplementation. Third International Conference on Vitamin C. October 6, 1986. New York.



13. Calabrese, E.J. (1986). The toxicological basis for establishing National Primary Drinking Water Standards. Conference on the Safe Drinking Water Act. September, 23, 1986. Amherst, Massachusetts.
14. Calabrese, E.J. (1986). Regional approaches for environmental public health policy. Annual meeting of the New England Interstate Water Commission, Kennebunkport, Maine. September 9, 1986.
15. Calabrese, E.J. (1986). Assessing the effects of toxic substances. The Samuel Johnson Memorial Lecture. Connecticut Agricultural Research Station. August 6, 1986. New Haven, Connecticut.
16. Calabrese, E.J. (1986). Inhibition of B-glucuronidase activity and susceptibility to cancer. Proctor and Gamble. June 30, 1986. Cincinnati, Ohio.
17. Calabrese, E.J. (1986). Role of academia in reducing exposure to toxic substances. National Environmental Health Association. June 16, 1986. Hartford, Connecticut.
18. Calabrese, E.J. (1986). Regional approaches for assessing environmental contamination. New England Laboratory Directors Quarterly Meeting. June 3, 1986. Ogunquit, Maine.
19. Calabrese, E.J., and McCarthy, M.E. (1986). The occurrence of trace-metal induced hormesis. 20th Annual Conference on Trace Substances in Environmental Health June 2-5, 1986. University of Missouri, Columbia.
20. Calabrese, E.J., and KostECKI, P. (1986). Approaches for assessing the public health significance of soil contaminated with toxic agent. 20th Annual Conference on Trace Substances in Environmental Health. June 2-5, 1986. University of Missouri, Columbia.
21. Calabrese, E.J. and McCarthy, M.E. (1986). The occurrence of trace-metal induced hormesis. Presented at the Maine Biological and Medical Sciences Symposium. May 29, 1986, Portland, Maine.
22. Byrne, K., KostECKI, P.T., and Calabrese, E.J. (1986). The importance of environmental factors on reproductive success of smelt. Presented at the Maine Biological and Medical Sciences Symposium. May 29, 1986, Portland, Maine.
23. KostECKI, P., Calabrese, E.J., and Garnick, E. (1986). A national survey of regulatory approaches for addressing soil contaminated with petroleum products. Presented at the Maine Biological and Medical Science Symposium. May 28, 1986. Portland, Maine.
24. Calabrese, E.J. (1986). Animal extrapolation and the problem of human interindividual variation. Presented to the New England Mutagenesis Society. May 16, 1986. Amherst, Massachusetts.

25. Calabrese, E.J. (1986). Age and susceptibility to pollutant induced toxicity. National Academy of Science. May 15, 1986. Washington, D.C.
26. Calabrese, E.J. (1986). Predicting human health risks from exposure to contaminated soil. Presented at the EPA-sponsored Conference. May 8, 1986, Andover, Massachusetts.
27. Calabrese, E.J. (1986). Animal extrapolation and its regulatory implications. Presented to the Air Pollution Control Association. April 22, 1986, Providence, Rhode Island.
28. Calabrese, E.J. (1986). Principles of inter-, intra-species extrapolation. Presented to the Society of Risk Analysis. April 9, 1986, Washington, D.C.
29. Calabrese, E.J. (1986). The effects of toxic substances on males and females. Annual Digital Equipment Corporation Conference. April, 1986. Merrimack, New Hampshire.
30. Calabrese, E.J. (1986). Risk assessment methodologies: Strengths and limitations. Annual Digital Equipment Corporation Conference. April, 1986. Merrimack, New Hampshire.
31. Canada, A.T., Chow, C.K., and Calabrese, E.J. (1986). Effect of O<sub>3</sub> on serum concentrations of vitamins A, C and E in mature female rabbits. Presented to the Annual Meeting of the Society of Toxicology. March 1986, New Orleans, Louisiana.
32. Calabrese, E.J. (1986). How relevant is the rat? presented to the American Industrial Hygiene Association. Meridan, Connecticut.
33. Calabrese, E.J. (1986). Interspecies differences in xenobiotic metabolism. Presented to the American Pharmaceutical Association. March 18, 1986, San Francisco, California.
34. Calabrese, E.J. (1986). New approaches for animal extrapolation. Presented to the Electric Power Research Institute. March 17, 1986, Palo Alto, California.
35. Calabrese, E.J. (1986). Regional strategies for assessing risk from environmental toxins. Presented to the State of Connecticut's Department of Environmental Analysis. January 11, 1986, New Haven, Connecticut.
36. Calabrese, E.J. (1986). Animal extrapolation and the challenge of human heterogeneity. Presented to an FDA-sponsored conference. January 6, 1986, Bethesda, Maryland.

## **1985**

1. Calabrese, E.J. (1985). Regional approaches for addressing environmental problems. Presented to the CDC Annual Region 1 Conference. December 1985, Hyannis, Massachusetts.

2. Kostecki, P.T. and Calabrese, E.J. (1985). Environmental and public health effects of petroleum contaminated soils. Presented at the Annual Meeting of the American College of Toxicology. November 1985, Amherst, Massachusetts.
3. Kostecki, P.T. and Calabrese, E.J. (1985). Problems associated with petroleum contaminated soils. Presented at the Annual Meeting of the Society of Environmental Toxicology and Chemistry. November 1985, St. Louis, Missouri.
4. Kostecki, P.T. and Calabrese, E.J. (1985). Environmental and public health effects of petroleum contaminated soils: Towards a better understanding. Presented at the Annual Meeting of the American Public Health Association. November 1985, Washington, D.C.
5. Calabrese, E.J. (1985). New approaches to risk assessment and risk communication. Presented at Dow Chemical Company. November 1985, Midland, Michigan.
6. Calabrese, E.J. (1985). Issues in animal extrapolation: How relevant is the rat? Presented to the Regional Council. November 1985, Philadelphia, Pennsylvania.
7. Calabrese, E.J. (1985). Uncertainty factors and interindividual variation. Presented to the Society of Environmental Toxicology and Chemistry. October 5, 1985, Alexandria, Virginia.
8. Calabrese, E.J., Kostecki, P.T., and Leonard, D.A. (1985). Public health implications of soils contaminated with petroleum products. Presented at the Conference on Environmental and Public Health Effects of Petroleum Contaminated Soils. October 1985, Amherst, Massachusetts.
9. Kostecki, P.T. and Calabrese, E.J. (1985). Regulatory policies for petroleum contaminated soils -- how states have traditionally dealt with the problem. Presented at the Conference on Environmental and Public Health Effects of Petroleum Contaminated Soils. October 1985, Amherst, Massachusetts.
10. Calabrese, E.J., McCarthy, M., and Kenyon, E. (1985). The occurrence of chemical hormesis. Presented at a national conference on Radiation Hormesis. August 14, 1985, Oakland, California.
11. Kostecki, P.T. and Calabrese, E.J. (1985). Emerging environmental problems -- contaminating soils. Presented to the Edison Electric Institute's Utilities Solid Waste Action Group. August 1985, Boston, Massachusetts.
12. Canada, A.T., Calabrese, E.J. and Leonard, D.A. (1985). Age-related differences in pentobarbital sleeping time following oxidant stress. Presented at the First International Congress of Biomedical Gerontology, American Aging Association. July 10-11, 1985.
13. Calabrese, E.J. (1985). New approaches for animal extrapolation. Presented at Proctor and Gamble. June 12, 1985, Cincinnati, Ohio.

14. Gilbert, C. and Calabrese, E.J. (1985). The health effects of insecticides with particular emphasis on animal extrapolation. Presented at Northeast Regional Meeting of Commissioners of Agriculture. June 12, 1985, Portland, Maine.
15. Calabrese, E.J. (1985). Health effects and risk assessment. Presented at the Northeastern States Agent Training on Groundwater Protection. June 10, 1985, Chicopee, Massachusetts.
16. Gilbert, C.E. and Calabrese, E.J. (1985). Animal extrapolation: Principles and problems. Presented at the AAAS Annual Conference. May 30, 1985, Los Angeles, California.
17. Calabrese, E.J. and Gilbert C.E. (1985). The effect of pollutants in drinking water on human health. Presented at the University of Connecticut May 15, 1985, Storrs, Connecticut.
18. Calabrese, E.J. (1985). Approaches to risk assessment in environmental health. Presented at the State of Connecticut Science Advisory Board. May 13, 1985, Wallingford, Connecticut.
19. Calabrese, E.J. (1985). The removal of chloroform from the water to air during the showering process. Presented at the Specialty Conference on Drinking Water and Indoor Air Contamination. April 25, 1985, University of Pittsburgh, Pittsburgh, Pennsylvania.
20. Calabrese, E.J. (1985). The application of risk assessment analysis to water pollution and groundwater contamination problems. Presented at the 8th Annual Technical Program of the Water Pollution Control Association of Pennsylvania. March 25, 1985, Philadelphia, Pennsylvania.
21. Gilbert, C.E. and Calabrese, E.J. (1985). Impacts of toxic pollutants on human receptors. Presented at the 8th Annual Technical Program of the Water Pollution Control Association of Pennsylvania. March 24, 1985, Philadelphia, Pennsylvania.
22. Calabrese, E.J. (1985). The effects of ozone on human high risk groups. Presented at the Conference on Ozone Toxicity. March 7, 1985, Department of Environmental Protection, State of Maine.
23. Canada, A.T. and Calabrese, E.J. (1985). Ozone-induced inhibition of theophylline metabolism: Effect of age and sex. Presented at the Society of Toxicology Annual Meeting. March 1985, San Diego, California.
24. Stoddard, A.M. and Calabrese, E.J. (1985). The use of hair lead level as a predictor for blood lead level. Presented to the Biostatistical Society. March 1985, Raleigh, North Carolina.
25. Calabrese, E.J. (1985). Principles of animal extrapolation. Lecture in a Toxicology Course for the USDA. February 12, 1985, Albuquerque, New Mexico.

## **1984**

1. Calabrese, E.J. (1984). Vitamin E and air pollution. Presented at Hoffmann-LaRoche. December 1984, Nutley, New Jersey.
2. Calabrese, E.J. (1984). Inorganic constituents in drinking water and CVD. Presented at the 5th Annual Meeting of the American College of Toxicology. November 29, 1984, Washington, D.C.
3. Calabrese, E.J. (1984). Approaches to animal extrapolation with particular emphasis on differential susceptibility and sex differences. Presented to the National Academy of Sciences Board on Toxicology. November 28, 1984, Washington, D.C.
4. Calabrese, E.J. (1984). Allometry -- a useful technique in interspecies extrapolation of animal data. Presented at the 5th Annual Meeting of the American College of Toxicology. November 27, 1984, Washington, D.C.
5. Sorensen, A.A. and Calabrese, E.J. (1984). The use of schools of public health in solving state health problems: A case study of EDB standards in New England. Presented at the Annual Meeting of the American Public Health Association. November 13, 1984, Anaheim, California.
6. Calabrese, E.J. (1984). The effects of nutritional supplementation on pollutant toxicity. Presented at Hoffmann-LaRoche. October 17, 1984, New Jersey.
7. Calabrese, E.J. (1984). Pharmacology and Toxicology: Approaches to Animal Extrapolation. Presented at the University of Connecticut Seminar Series. September 28, 1984.
8. Gilbert, C. and Calabrese, E.J. (1984). Predictive toxicology. Lecture in American Chemical Society's Course. August 30, 1984, Philadelphia, Pennsylvania.
9. Calabrese, E.J. (1984). Environmental and occupational toxicology -- General principles. Presented at the Conference Understanding Toxicology and Chemical Risk Assessment. July 26, 1984, Portland, Maine.
10. Calabrese, E.J. (1984). Establishing of human risk using animal studies. Presented at the Conference Understanding Toxicology and Chemical Risk Assessment. July 26, 1984, Portland, Maine.
11. Calabrese, E.J. (1984). The influence of genetic status on susceptibility to environmental pollutants -- An overview. Published in abstract booklet of the Conference on Medical Screening and Biological Monitoring for the Effects of Exposure in the Workplace. July 11, 1984, Cincinnati, Ohio.

12. DiNardi, S.R. and Calabrese, E.J. (1984). Monitoring for chloroform in a highly humid atmosphere. Presented at the Annual Industrial Hygiene Association Conference. May 19, 1984, Detroit, Michigan.
13. Calabrese, E.J. (1984). Are rats relevant? Address to the Plenary Session of the Annual Industrial Hygiene Association Conference. May 16, 1984, Detroit, Michigan.
14. Calabrese, E.J. and Tuthill, R.W. (1984). The effects of elevated levels of sodium in drinking water on blood pressure in children - Part 1. Presented at the International Conference on Inorganics on Drinking Water and Cardiovascular Disease. May 1-3, 1984, Amherst, Massachusetts.
15. Tuthill, R.W. and Calabrese, E.J. (1984). The effects of elevated levels of sodium in drinking water on blood pressure in children - Part 2. Presented at the International Conference on inorganics in Drinking Water and Cardiovascular Disease. May 1-3, 1984, Amherst, Massachusetts.
16. Calabrese, E.J. (1984). Making quantitative risk assessments for carcinogens more biologically relevant. Presented at Exxon, Inc. April 1984, New Jersey.
17. Calabrese, E.J. (1984). The environmental gender gap: Sex-related differences in response to pollutants. March 1984, University of North Carolina, Chapel Hill, North Carolina.
18. DiNardi, S.R. and Calabrese, E.J. (1984). The stripping of chloroform from shower water into air during the showering process. Presented at the International Conference on Health and Environment. February 1984, Dallas, Texas.

## **1983**

1. Calabrese, E.J. 1983. Gastrointestinal and dermal absorption: Interspecies differences. Presented at the EPA Conference on Safer Chemicals Through Molecular Design. September, Washington, D.C.
2. Burden, H.H., Calabrese, E.J., and Stoddard, M.A. 1983. Lead in drinking water: Contribution for solder joints in residential plumbing systems. Presented at the American Public Health Association. October, Dallas, Texas.
3. Calabrese, E.J. 1983. Suitability of animal models for predictive toxicology: Theoretical and practical considerations. Presented at the EPA Conference on Safer Chemicals Through Molecular Design. September, Washington, D.C.
4. Calabrese, E.J. 1983. Genetic monitoring in the workplace. Presented at the 5th Annual New England Occupational Health Conference. Boston, Massachusetts.

5. Calabrese, E.J. 1983. Toxicokinetics and risk assessment. Presented at the Electric Power Research Institute Conference on Toxicokinetics.

## **1982**

1. Calabrese, E.J., Moore, G.S., and McCarthy, M. 1982. The effect of ascorbic acid on copper acetate and sodium nitrite induced red cell oxidative stress. Presented at the Annual Conference of Clinical Ecologists. October 1982, Baniff, Canada.

2. Calabrese, E.J., Moore, G.S., and Williams, P. 1982. The effect of proposed ozone intermediates (in vitro) on normal and G-6-PD deficient erythrocytes in humans and in sheep. Presented at the 1982 Annual Meeting of the Society of Toxicology. Boston, Massachusetts.

3. Calabrese, E.J., Moore, G.S., and McCarthy, M. 1982. The effect of ascorbic acid on copper and nitrite-induced oxidative changes in erythrocytes: Interspecies differences. Presented at the 1982 Annual Meeting of the Society of Toxicology. Boston, Massachusetts.

4. Moore, G.S. and Calabrese, E.J. 1982. The effects of low-level ozone exposure upon the course of *P. berghei* infection in female A/J strain mice. Presented at the 1982 Annual Meeting of the Society of Toxicology. Boston, Massachusetts.

5. Calabrese, E.J. and Tuthill, R.W. 1982. The effect of an experimental reduction of sodium in drinking water on blood pressure distribution patterns of elementary students. Presented at the Annual Meeting of the Society of Toxicology. Boston, Massachusetts.

6. Calabrese, E.J., Moore, G.S., and Grunwald, E. 1982. The effect of ozone on rabbit erythrocytes (in vitro). Presented at the International Ozone Symposium. March 15, Pinehurst, North Carolina.

7. Calabrese, E.J. 1982. The biomedical basis for the present EPA primary drinking water standards. Presented at the American Water Works Association. May 16, 1982, Miami, Florida.

8. Calabrese, E.J. 1982. The effect of elevated levels of sodium in drinking water on sensitive populations. Presented at an Invited "Brainstorming" Session of the Environmental Health Center. April 24, 1982, Dallas, Texas.

9. Calabrese, E.J. 1982. The effects of ozone on sensitive population subgroups. Presented at an Invited "Brainstorming" Session of the Environmental Health Center. April 24, 1982, Dallas, Texas.

10. Calabrese, E.J. 1982. The effects of ozone on red blood cells. Presented at an Invited Seminar of the Department of Pharmacology, University of Massachusetts Medical Center. Worcester, Massachusetts.
11. Calabrese, E.J. and Canada, A.T. 1982. The role of high risk groups in the development of novel work schedule TLVs. Presented at the Annual Conference of the American Industrial Hygiene Association. Cincinnati, Ohio.
12. Calabrese, E.J., Moore, G.S., Grunwald, E., and Labato, F. 1982. The effect of ozone on red blood cell survival. Presented at the Annual Conference of Clinical Ecologists. October 1982, Baniff, Canada.

### **1981**

1. Calabrese, E.J. and Tuthill, R.W. 1981. The influence of elevated levels of sodium on blood pressure to young children and adolescents. Presented at the Salt and Hypertension Conference. Monell Chemical Senses Center. Philadelphia, Pennsylvania.
2. Calabrese, E.J., Moore, G.S., and Tuthill, R.W. 1981. The effects of chlorine dioxide and chloramines on rodent models. Presented at the EPA-sponsored Conference on Alternatives to Chlorination. Cincinnati, Ohio.
3. Tuthill, R.W., Moore, G.S., Calabrese, E.J., and Guisti, R. 1981. Epidemiological investigations on the effects of chlorine dioxide on birth outcomes. Presented at the EPA-sponsored Conference on Alternatives to Chlorination, Cincinnati, Ohio.
4. Calabrese, E.J. 1981. The role of epidemiological studies on the derivation of drinking water standards for metals. Presented at the Second Annual Conference on Environmental Epidemiology. University of Pittsburgh.
5. Calabrese, E.J. 1981. An expanded operational concept of high risk groups and its role in standard setting. Presented at the West Coast Chapter of AAAS Annual Meeting. June 15, 1981, Eugene, Oregon.
6. Calabrese, E.J. 1981. The influence of nutritional status on pollutant toxicology and carcinogenicity. Presented at the Invited Seminar of Hoffmann-LaRoche, Inc. November 2, Nutley, New Jersey.
7. Brown, H., Rowan, C., and Calabrese, E.J. 1981. The health effects of trichloroethylene. Presented at the Water Quality Conference, National Academy of Engineers. Washington, D.C.



8. Calabrese, E.J. and Tuthill, R.W. 1981. Human health issues regarding elevated levels of sodium in drinking water. Presented at the Specialty Conference on Road Salt and Water Supply. Sponsored by the Massachusetts Department of Environmental Quality Engineering and the Audubon Society. Holyoke, Massachusetts.

## **1980**

1. Calabrese, E.J., Tuthill, R.W., Sieger, T., and Klar, J. 1980. Community drinking water - A contribution to increased blood pressure. Presented at the AAAS Annual Conference. San Francisco, California.

2. Calabrese, E.J. and Tuthill, R.W. 1980. Effects of sodium in drinking water on blood pressure. Presented at the National Academy of Sciences Summer Residence in Falmouth, Massachusetts to the NATO Countries' Safe Drinking Water Committee.

3. Calabrese, E.J. and Tuthill, R.W., Sieger, T., and Klar, J. 1980. Comparison of drinking water constituents in geographically adjacent communities with markedly different blood pressure levels. Presented at the AAAS Annual Conference. San Francisco, California.

4. Calabrese, E.J. 1980. Special sensitivities of the young to pollutant toxicity. Presented at the 10th World Assembly of the World Organization for Preschool Education. July 29, Quebec, Canada.

5. Calabrese, E.J. 1980. Diesel exhaust and human health effects. Presented at the International Association of Machinists Symposium for Railroad Workers. July 30, Toronto, Canada.

6. Moore, G.S. and Calabrese, E.J. 1980. Epidemiologic and laboratory animal studies on chlorite toxicity. Presented at the Second International Congress on Toxicology. July 1980, Brussels.

7. Calabrese, E.J. and Moore, G.S. 1980. Erythrocyte G-6-PD deficiency and enhanced susceptibility to environmental oxidant stressors: An animal model. Presented at the Second International Congress on Toxicology. July 1980, Brussels.

8. Moore, G.S. and Calabrese, E.J. 1980. The effect of in vivo ozone exposure to Dorset sheep, an animal model with low levels of erythrocyte G-6-PD activity. Presented at the Second International Congress on Toxicology. July 1980, Brussels.

9. Rowan, C. and Calabrese, E.J. 1980. The effects of elevated levels of sodium in drinking water on the retention of sodium by products cooked in such water. Presented at Trace substances in the Environment. June 1980, Columbia, Missouri.

10. Tuthill, R.W. and Calabrese, E.J. 1980. Experimental reduction in sodium levels in drinking water and blood pressure changes in children. Presented at the Annual Meeting of the Society for Epidemiologic Research. June 1980, Minneapolis, Minnesota.

11. Calabrese, E.J. 1980. The role of high risk groups in the development of human health criteria for drinking water standards. Presented at an International Conference sponsored by the U.S. EPA on the Use, Development, and Value of Water Quality criteria and Standards. June 23-25, Washington, D.C.

12. Kane, G. and Calabrese, E.J. 1980. The influence of highway de-icing operations on the sodium levels of the Connecticut River. Presented at the Specialty Symposium entitled, The Connecticut River: Stewardship. March 7, 1980.

### **1979**

1. Calabrese, E.J. and Moore, G.S. 1979. The health effects of diesel fuel exhaust on human populations. Presented at the International Symposium on Diesel Fuel Exhaust. Cincinnati, Ohio.

2. Gilbert, C., Tuthill, R.W., Calabrese, E.J., and Peters, H.A. 1979. The relationship of household lead characteristics and childhood lead intoxication. Presented at the Annual American Public Health Association Meeting. Los Angeles, California.

3. Calabrese, E.J. 1979. The relationship of sodium in the diet and drinking water to development of hypertension in animal models and humans. Presented at the EPA-sponsored International Conference on Drinking Water Factors and Cardiovascular Disease. October 1979, Amherst, MA.

4. Calabrese, E.J. 1979. The influence of drinking water factors on blood pressure in children. Presented at the EPA-sponsored International Conference on Drinking water factors and Cardiovascular Disease. October 1979, Amherst, MA.

5. Moore, G.S. and Calabrese, E.J. 1979. The effects of copper and chlorite on normal and G-6-PD deficient human erythrocytes. Presented at the EPA-sponsored International Conference on Drinking Water Factors and Cardiovascular Disease. October 1979, Amherst, MA.

6. Calabrese, E.J. and Tuthill, R.W. 1979. Drinking water as a factor in increased blood pressure among elementary and high school students. Presented at the American Water Works Association Conference. June 1979, San Francisco, California.

7. Tuthill, R.W. and Calabrese, E.J. 1979. Research methodology for determining the influence of drinking water factors on blood pressure distribution patterns in human population studies. Presented at the Society of Epidemiology Research-Annual Meeting. June 1979, New Haven, Connecticut.
8. Calabrese, E.J. 1979. High risk groups in occupational medicine. Presented at the Annual Conference of the Occupational Safety and Health Administration - Region I. June 1979, Hyannis, Massachusetts.
9. DiNardi, S.R. and Calabrese, E.J. 1979. The university campus as an occupational health field training site. Presented at the American Industrial Hygiene Association Conference. May 1979, Chicago, Illinois.
10. Tuthill, R.W. and Calabrese, E.J. 1979. The effects of elevated levels of sodium in drinking water on elementary school children. Presented at the AAAS Conference. January 1979, Houston, Texas.
11. Gilbert, C., Peters, H.A., Calabrese, E.J., and Tuthill, R.W. 1979. Estimating health risks from lead toxicity according to source of exposure: A case-control study. Presented at the AAAS Conference. January 1979, Houston, Texas.

## **1978**

1. Calabrese, E.J., Moore, G.S., and Brown, R. 1978. The effects of environmental oxidant stressors on individuals with a G-6-PD deficiency with particular reference to an animal model. Presented at the Conference on Pollutants and High Risk groups. June 5 and 6, 1978, Amherst, MA.
2. Tuthill, R.W. and Calabrese, E.J. 1978. Age as a function in the development of sodium related hypertension. Presented at the Conference on Pollutants and High Risk Groups. June 5 and 6, 1978, Amherst, MA.
3. Calabrese, E.J. 1978. Pollutants and high risk groups. Presented at the XIX International Congress on Occupational Health. September 27, 1978, Dubrovnik, Yugoslavia
4. Calabrese, E.J. 1978. The effects of nutritional status on pesticide toxicity. Presented at the Annual Conference of the Society of Occupational and Environmental health. December, Washington, D.C.

## **1977**

1. Riddiough, C., Musselman, R., and Calabrese, E.J. 1977. EPA's radium-226 drinking water standard: A re-evaluation. Presented at the AAAS Conference. February 1977, Denver, Colorado.

2. Calabrese, E.J. and Tuthill, R.W. 1977. Elevated blood pressure levels and community drinking water characteristics. Presented at the AAAS Conference. February 1978, Washington, DC.

3. Calabrese, E.J. and Tuthill, R.W. 1977. Elevated sodium levels in community drinking water and increased blood pressure in high school students. Presented at the American Public Health Association Conference. November 1977, Washington, DC.

## **1968**

1. Calabrese, E.J. 1968. The effects of phosphon on the growth of Mentha Piperita L. in different growth media. Presented at the Eastern States Science Conference. Yale University.

## **XIV. BOOKS**

1. Ricci, P.F., and Calabrese, E.J. (2010). *Cancer Risk Assessment. Chemical Carcinogenesis, Hazard Evaluation, and Risk Quantification* (C-H. Hsu and T. Stedeford, Eds). John Wiley and Sons, Hoboken, NJ pp. 785.

2. Mattson, M.P., and Calabrese, E.J. (2010). *A Revolution in Biology, Toxicology and Medicine*. Humana Press. Pp. 213 (in press).

3. Calabrese, E.J., and Baldwin, L.A. (1998). *Chemical Hormesis: Concept, Scientific Foundation and Risk Assessment Implications*. Texas Institute for Advanced Chemical Technology (TIACT). Texas A&M University. College Station, TX. pp. 700.

4. Bonazountas, M., Hendrick, R., Calabrese, E., and Kostecki P. (eds.). (1997). *SESOIL: Theoretical Basis and Application to Risk Assessment*. Amherst Sci. Publ. Amherst, MA. pp. 620.

5. Calabrese, E.J. (1996). *Gender Differences in Susceptibility to Toxic Substances*. US EPA. Washington, DC.

6. Calabrese, E.J., and Baldwin, L.A. (1993). *How to Conduct an Ecological Risk Assessment*. Lewis Publishers.

7. Calabrese, E.J., and Kostecki, P.T. (editors). (1992). *Principles of Assessing and Remediating Hydrocarbon Contaminated Soils*. pp. 700.

8. Kostecki, P. and Calabrese, E.J. (1992). *Contaminated Soils Remediation: Current references for 1990*. Assoc. Environ. Health of Soils. pp.1-113.

9. Calabrese, E.J., and Kostecki, P.T. (1992). *Risk Assessment and Environmental Fate Methodologies*. Lewis Publishers, Chelsea, MI. pp. 150.
10. Calabrese, E.J. (1991). *Principles of Animal Extrapolation: Predicting Human Responses from Animal Studies*. Lewis Publishers, Inc., Chelsea, MI.
11. Calabrese, E.J. and Kenyon, E. (1991). *Air Toxics and Risk Assessment*. Lewis Publishers pp. 650.
12. Calabrese, E.J. (1991). *Multiple Chemical Interactions*. Lewis Publishers. Chelsea, MI. pp. 704.
13. Calabrese, E.J., and Kostecki, P.T. (editors). (1991). *A Critical Evaluation of Environmental Fate and Risk Assessment Model/Approaches for Petroleum Contaminated Soils*. Lewis Publishers, Chelsea, MI. pp. 250.
14. Calabrese, E.J. (1991). *Interaction of Alcohols with Chemicals and Drugs*. Lewis Publishers, Chelsea, MI. pp. 85.
15. Calabrese, E.J. (co-author). (1990). *Comparative Health Effects Assessment of Drinking Water Treatment Technologies*. Government Printing Office, Washington, D.C. approx. 600 pages. (Lewis Publishers).
16. Jones, T., Calabrese, E.J., Gilbert, C. and Winder, A. (1990). *Environmental Curricula Concerning Waste Management*. Lewis Publishers.
17. Fleischer, E., Kostecki, P.T., and Calabrese, E.J. et al. (1988). *Remedial Technologies for Leaking Underground Storage Tanks*. Lewis Publishers, Chelsea, MI. pp. 216.
18. Fleischer, E., Kostecki, P., Calabrese, E.J. et al. (1987). *Remedial Activities and Public Health Risks for Soil Contamination*. Lewis Publishers.
19. Ram, N., Calabrese, E.J., and Christman, R., editors. (1986). *Organic Carcinogens in Drinking Water*. John Wiley and Sons, New York. pp. 465.
20. Calabrese, E.J. (1986). *Age and Susceptibility to Toxic Substances*. John Wiley and Sons, Inc., New York. 370 pp.
21. Calabrese, E.J. (1985). *Toxic Susceptibilities: Male and Female Differences*. John Wiley and Sons, Inc., New York. 350 pp.
22. Calabrese, E.J. and Dorsey, M. (1984). *Healthy Living in an Unhealthy World*. Simon and Schuster, New York. (Paperback, 1985). (Translated into Spanish in 1987.)

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## **XV. CONFERENCE PROCEEDINGS - EDITORSHIP**

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36. An EPA-sponsored international conference on The Effects of Pollutants on Human High Risk Groups. Published within Environmental Health Perspectives. 29:1-77, 1979.



## **XVI. NEWSPAPER COLUMNIST**

I wrote a bimonthly column for the *Amherst Record* on general topics in environmental health from May 1982-1985. On occasion, I write a guest column for other newspapers including the *Hartford Courant*.

## **XVII. NEWSLETTER**

1. Health Effects Section Writer - for the 4500 members of the American Water Works Association, 1982/1983.
2. Biological Effects of Low Level Exposures (BELLE) Newsletter. A publication of the Northeast Regional Environmental Public Health Center, University of Massachusetts, School of Public Health. 11,000 circulation; 1992 - 2010.
3. Council for Health and Environmental Safety of Soils – CHESS Newsletter. Published by the International Society of Regulatory Toxicology and Pharmacology. 1989-1993.