

CURRICULUM VITAE

Name: Nicholas Seth Fisher

Present Position: Distinguished Professor
School of Marine and Atmospheric Sciences
State University of New York
Stony Brook, New York 11794-5000

and
Director, Consortium for Inter-Disciplinary Environmental Research
Stony Brook University

Education: Ph.D. Marine Biology, State University of New York, Stony Brook. 1974
B.A. Biology, Brandeis University, Waltham, Massachusetts. 1970
NSF Summer Student Fellow, Marine Biology Program, Humboldt State
College, Arcata, California. 1965

Positions Held:
2011 Visiting Scientist, Harvard University
2006 - present Director, Consortium for Inter-Disciplinary Environmental Research,
Stony Brook University
2005 - present Distinguished Professor, School of Marine and Atmospheric Sciences,
Stony Brook University
1991 - 2005 Professor, School of Marine and Atmospheric Sciences, Stony Brook
University
1998 - 2003 Associate Dean, School of Marine and Atmospheric Sciences, Stony
Brook University
1988 - 1991 Associate Professor, School of Marine and Atmospheric Sciences, Stony
Brook University
1985 - 1987 Oceanographer, Brookhaven National Laboratory, Upton, New York.
1980 - 1985 Research Scientist, International Laboratory of Marine Radioactivity,
International Atomic Energy Agency, Monaco.
1977 - 1980 Senior Research Scientist, Marine Studies Group, Ministry for
Conservation, Melbourne, Australia.
1974 - 1977 Postdoctoral Investigator, Chemistry Department, Woods Hole

1970 - 1974	Oceanographic Institution, Woods Hole, Massachusetts. Teaching and Research Assistant, Division of Biological Sciences, State University of New York, Stony Brook.
1972 - 1973	Guest Student Investigator, Biology Department, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts.

Awards/Distinctions:

1985 -	Appointed as Marine Ecologist, Ecology Institute (Honorary Institute) Oldendorf-Luhe, Germany
2001 - 2007	Elected Chair, Marine Biogeochemistry Committee, International Commission for the Scientific Exploration of the Mediterranean (CIESM)
2004 - 2005	John Simon Guggenheim Memorial Fellowship
2005	Awarded State University of New York Distinguished Professorship
2006	Graduate School Dean's Award for Excellence in Graduate Mentoring
2015	Rothschild Fellow of the Israel Academy of Sciences and Humanities

Member:

1983 - present	American Men and Women in Science
1975 - present	American Society of Limnology and Oceanography
1974 - 1995	American Psychological Society
1996 - present	Society of Environmental Toxicology and Chemistry

External Advisory Activities:

1976	Advisory Panel to New York State Attorney General on PCBs in the environment
1983 - 1985	GESAMP Working Group on the Interchange of Pollutants between the Atmosphere and the Oceans
1984 - present	Editorial Advisory Board, Marine Ecology Progress Series
1988	NSF Ocean Chemistry Review Panel
1989	New York State Sea Grant Review Panel
1990	NOAA National Status & Trends Review Panel
1990	NOAA Coastal Oceans Program Toxic Substances Review Panel
1991	New York Bight and Hudson Estuary Programs Toxic Substances Review Panel
1992 - 2000	International Union of Pure and Applied Chemistry Commission on Environmental Analytical Chemistry
1993 - present	Editorial Board, Marine Environmental Research
1997 - 1998	COASTES Advisory Panel
2003	New Hampshire Sea Grant Review Panel
2003 - present	IAEA Coordinated Research Group on the Bioaccumulation of Radionuclides

2003 - present	Expert Advisor for US Arctic Monitoring and Assessment Program
2005 - present	External Advisory Committee, Center for Environmental Health Sciences, Dartmouth College
2007 - present	Steering Committee, University of Haifa's School of Marine Sciences, Haifa, Israel
2007 - present	GESAMP Member
2013	NSF Ocean Chemistry Review Panel

Advisor for the following doctoral students (and where they first moved to): Zofia Baumann (Stony Brook), Xi Chen (Exxon), Jessica Dutton (Adelphi), Sarah Griscom (Harvard), Sharon Hook (Skidaway Inst. of Oceanography), Byeong-Gweon Lee (USGS, Menlo Park), Cheng-Shiuan Lee (Stony Brook), Teresa Mathews (Inst. Radiological Protection, Cadarache, France), John Reinfelder (MIT), Hudson Roditi (Globe Intl.), Ashaki Rouff (Univ. Illinois), Gillian Stewart (Queens College), Benjamin Twining (Yale), Catherine Vogel (Boston), Cuiyu Wang (Stony Brook), Wen-Xiong Wang (Univ. Science & Technology, Hong Kong)

Advisor for the following MS and Doctorate du Troisieme Cycle students (completed): Donna Ashizawa, Michel Bohé, Douglas Froot, Gary Jones, Anthony Romeo, Maria Stepanova, Jean-Louis Teyssié

Advisor for current doctoral students:, Abigail Tyrell, Xiayan Ye

Advisor for the following postdoctoral investigators: Stephen Baines, Zofia Baumann, Poul Bjerregaard, Christian Gagnon, David Hutchins, Roxanne Karimi, Allison Luengen, Daniel Madigan, Paul Pickhardt, Sayhan Topcuoglu, Wen-Xiong Wang

Research Interests:

biogeochemistry of metals in aquatic systems; contaminant-biota interactions; particle flux in aquatic systems; physiology and ecology of phytoplankton; phytoplankton-herbivore interactions; aquatic radioecology; aquatic pollution management strategies; aquatic toxicology.

Consultant for:

U.S. Environmental Protection Agency; Brookhaven National Laboratory; International Atomic Energy Agency; National Association of Photographic Manufacturers; New York City Office of Management and Budget; Risø National Laboratory, Roskilde, Denmark; National Environmental Law Center; New York State Department of State; Fisher Island Conservancy; Applied Biomathematics; Hong Kong University of Science and Technology; Northeast Utilities; Tetra Tech; US District Court Maine (appointed Special Master of the Court); New York State Attorney General's Office; Electric Power Research Institute

University and departmental service (select activities):

Director, Stony Brook University's Consortium for Inter-Disciplinary Environmental Research (CIDER, 2006-present); Associate Dean, SoMAS (1998-2003) and numerous activities associated with this position; Promotion and Tenure Committee, Senior, rotating chair (2015-

present); Distinguished Professor Evaluation Committee (2013-2016); juror for Stony Brook University Discovery Prize (2016-2018); Faculty Oversight Board of Stony Brook University's Research and Development Park (2007-2015); Research Advisory Committee for Office of the Vice President for Research (2011-2018); Admissions Committee (8 years, chaired for 5 years); Executive Advisory Committee (7 years); Faculty Salary Analysis Task Force (chair); SoMAS Graduate Programs Committee; SoMAS Space Committee; SoMAS Library Committee; SoMAS liaison to University SPD Office; Strategic Planning Committee for Research; Committee for Coordinating Environmental Sciences at Stony Brook University; SoMAS Colloquium coordinator (3 years); Distinguished Visiting Scholar Committee (chair, 4 years); Radiation Safety Officer; Member of Evaluation Team for Stony Brook-Brookhaven National Lab seed grants; Search Committees for Dean of SoMAS, faculty positions for molecular microbiologist (chair), environmental modeler (chair), physical oceanographer, marine ecologist, marine biogeochemist, marine chemists (2 committees), open search; CIDER Search Committee (7 faculty positions)

Convenor/coordinator of workshops

Symposium in honor of Robert R. L. Guillard: Marine Phytoplankton Research: Where We're At and Where We're Going. Conference Co-organizer (with E. Carpenter). Woods Hole. December 1989.

Convenor of workshop on collaborative marine pollution research programs between Marine Sciences Research Center, SUNY Stony Brook and Water Resources Division, US Geological Survey. Menlo Park, CA. March, 1990.

Conference on aquatic problems in eastern Europe. Co-organizer (with J. Schubel). Stony Brook. 1990.

International workshop on establishing research and training programs in the northwest Black Sea. Coordinator and chairman. Monaco, November, 1993.

Coordinator, CIESM Workshop on Bioaccumulation of Metals and Radionuclides in Marine Organisms. Ancona, Italy, October, 2002.

Coordinator, CIESM Workshop on Novel Contaminants and Pathogens Entering Coastal Waters. Neuchatel, Switzerland, May, 2004.

Coordinator, CIESM Workshop on Marine Environmental Problems and Public Health Issues. Geneva, Switzerland, September, 2006.

Coordinator, Workshop on Mercury Exposure and Public Health. New York City, May, 2009.

Co-Coordinator, Workshop on mercury cycling in the Penobscot River and estuary, Maine. Chicago, April, 2010.

Co-Coordinator, Workshop on mercury cycling in the Penobscot River and estuary, Maine. Jackson Hole, WY, May, 2011.

Co-Coordinator, Workshop on mercury cycling in the Penobscot River and estuary, Maine. Gorham, Me, November, 2011.

Co-Coordinator, Workshop on mercury cycling in the Penobscot River and estuary, Maine. Boston, August, 2012.

Co-organizer, Conference on The Accidents at Fukushima Dai-Ichi: exploring the impacts of radiation on the ocean. Tokyo, November, 2012.

Chair activities outside the university

Workshop on "The Ocean Option for Future Waste Management." Woods Hole. January, 1991. Chair, Working Group on "Bioavailability of Chemicals in the Abyssal Ocean."

Review Meeting on "The National Ocean Pollution Plan, the Next Five Years" sponsored by NOAA. Stony Brook. January, 1991. Chair, Working Group on "Toxic Substances."

Review team of EPA's EMAP Program and its relationship to universities; Chair, Toxic Substances Working Group. Stony Brook. April, 1991.

Estuarine Research Federation Conference. Chair, session on Trophic Cycling of Materials in Estuaries. Presented a paper on: Marine colloids and the bioaccumulation and trophic transfer of metals in plankton. San Francisco. November, 1991.

Long Island Sound Monitoring workshop. Chair of toxic contaminants group. Stony Brook, December, 1993.

ASLO 97 Aquatic Sciences Meeting. Co-chair of Special Session on Metal Cycling in Marine and Freshwater Ecosystems. Co-author of the following presentations: "Metal and carbon assimilation in zebra mussels" (with H. Roditi); "Biological trace metal dynamics during a coastal diatom bloom" (with D. Hutchins); "Assimilation of sediment-bound trace metals in mussels: oxic vs. anoxic sediments" (with S. Griscom); "Bioavailability of Cr(III) and Cr(VI) to marine mussels from solute and particulate pathways" (with W. Wang); "Cycling and bioavailability of elements released by viral lysis of a marine phytoplankter" (with C. Gobler et al.). Santa Fe, NM, February, 1997.

Electric Power Research Institute Workshop on metal-biota interactions. Co-chair of group on trophic transfer of metals in aquatic food chains. Berkeley, CA, November 1997.

Society of Environmental Toxicology and Chemistry, 18th Annual Meeting. Co-chair of group on bioavailability of metals. Author/co-author of the following presentations: "Modeling metal bioaccumulation in marine copepods;" "Sublethal toxic response of zooplankton to silver: the

importance of exposure route” (with S. Hook); “Combining toxicant kinetics, population dynamics and trophic interactions” (with S. Ferson et al.); “Assimilation efficiency of Cd, Co, and Ag from ingested sediments” (with S. Griscom and S. Luoma); and “Allometry of trace element bioaccumulation in the mussel *Mytilus edulis*” (with W. Wang). San Francisco, CA, November, 1997.

International Symposium on Marine Pollution. Co-chaired session on "Bioimpacts." Presented paper on: "Implications of trophic transfer studies for developing water and sediment quality criteria." Monaco, October, 1998.

ASLO 2001 Aquatic Sciences Meeting. Co-chair of session on Trace Metal Limitation to Biogeochemistry. Author or co-author of the following presentations: “Biokinetic and bioenergetic constraints on the trace element content of juvenile striped bass,” “Interspecific variability in bioaccumulation of Se by phytoplankton and its ecological implications” (with S. Baines), and “A novel technique for the quantification and localization of trace elements in plankton: synchrotron x-ray fluorescence microprobe.” (with B. Twining et al.). Albuquerque, NM, February, 2001.

Society of Environmental Toxicology and Chemistry, 23rd Annual Meeting. Chair of session on Fate and Effects of Metals: Aquatic Dietary Perspectives. Author or co-author of the following presentations: “Kinetic modeling of metal bioaccumulation in clams: quantifying dietary and dissolved sources”(Fisher, Griscom, Luoma), and “Metal uptake by a benthic clam: relative importance of overlying water, oxic pore water and burrow water” (with Griscom). Salt Lake City, UT, November, 2002.

CIESM 37th Congress. Organized and chaired sessions on Mediterranean Biogeochemistry. Presented a paper on “Metal cycling through plankton communities: a single-cell approach using synchrotron-based x-ray fluorescence.” Barcelona, Spain, June, 2004

CIESM 38th Congress. Organized and chaired sessions on Mediterranean Biogeochemistry. Co-author of papers on “Metal concentrations in Mediterranean fish tissues:exploring biomagnification patterns” (with T. Mathews), “Assessing metal biomagnification and uptake pathways in Mediterranean fish” (with T. Mathews), and “Particle composition and organic carbon flux at Dyfamed: insight from the short-lived natural radionuclides” (with G. Stewart et al.). Istanbul, Turkey, April, 2007.

Workshop on mercury exposure and public health. Organized and chaired the workshop. New York, NY, May, 2009.

Workshop and presentation on mercury exposure and health risks from seafood consumption. Organized the workshop. New York, NY, October 2012.

Designed and taught marine pollution short course (graduate and postdoctoral students), presented at University of Haifa, Israel, January, 2017.

Meetings Attended (since 1982) * denotes invited participant/speaker

*Workshop on the behavior and control of radionuclides in the marine environment (Commission of the European Communities), Brussels. March 1982. Presented a paper on: Future Perspectives in Marine Radioecology.

*Workshop on regional activities in radioecological research (International Union of Radioecologists), Brussels. March 1982. Presented a paper on: Current research activities in the Mediterranean region.

Joint Oceanographic Assembly, Halifax. August 1982. Paper presented on: Biokinetics of transuranic elements in marine plankton.

Study Group meeting on the transfer of Am and Cm in the environment, Monaco. October 1982. Paper presented (with S. Fowler and S. Aston) on: Laboratory studies on the behavior of Am and Cm in the marine environment.

28th Congress of International Commission for the Scientific Exploration of the Mediterranean Sea, Cannes. December 1982. Presented papers on: Biokinetics of americium in marine plankton; and Radioecological research activities in the Mediterranean region.

*Laboratory workshop on behavior of Am in marine and freshwater systems, Mol, Belgium. January 1983. Organized and hosted by Radiobiology Department, Belgian Nuclear Center.

Fourth International Ocean Disposal Symposium, Plymouth, England. April 1983. Presented a paper entitled: The role of biogenic debris in the vertical transport of transuranic wastes in the sea.

*GESAMP Working Group on the Interchange of Pollutants between the Atmosphere and the Oceans. Athens, Greece. November 1983.

*Consultants meeting on key parameters for calculations required for definition of high-level wastes. IAEA, Vienna, Austria. February 1984.

Workshop on the role of microorganisms on the behavior of radionuclides in aquatic and terrestrial systems and their transfer to man. (International Union of Radioecologists), Brussels. April 1984. Presented a paper on: The concentration of radionuclides by marine phytoplankton.

*VIII International Symposium on Chemistry of the Mediterranean. Primosten, Yugoslavia. May 1984. Presented a paper on: Concentration of metals by marine phytoplankton: implications for toxicity and oceanic residence times.

*Gordon Research Conference on Environmental Sciences: Water. New Hampton, New Hampshire. June 1984. Presented a paper on: Metal accumulation by phytoplankton: physiological and geochemical implications.

29th Congress of International Commission for the Scientific Exploration of the Mediterranean Sea. Lucerne, Switzerland. October 1984. Presented papers on: Variations in algal sensitivity to metals; and Accumulation and retention of ^{241}Am and ^{237}Pu in the mussel *Mytilus edulis*.

*Expert Consultation on the Atmospheric Transport of Pollutants into the Mediterranean Region (WMO-coordinated GESAMP activity). Athens. January 1985.

Symposium on Speciation of Fission and Activation Products in the Environment. CEC and National Radiological Protection Board, U.K. Presented a paper on: Accumulation of ^{113}Sn by a marine diatom. Oxford. April 1985.

Fifth International Conference on Heavy Metals in the Environment. Presented a paper on: Algal growth under multiple toxicant limiting conditions. Athens. September 1985.

NATO Conference on Marine Picoplankton. San Mineato, Italy. October 1985.

*Consultation and laboratory experimentation in the Health Physics Department, Risø National Laboratory. Roskilde, Denmark. October 1985.

*Gordon Research Conference on Environmental Sciences: Water. New Hampton, New Hampshire. June 1986.

*DEPOFEX Workshop on Benthic Biogeochemical Processes. Walpole, Maine. June-July 1986.

Consultation on groundwater contamination, EAWAG (Swiss Federal Institute for Water Resources and Water Pollution Control). Dübendorf, Switzerland. May 1987.

International Symposium on Radioactivity and Oceanography. Société Française d'Énergie Nucléaire. Presented a paper on: Vertical flux of radionuclides in marine systems mediated by biogenic debris. Cherbourg, France. June 1987.

*Gordon Research Conference on Chemical Oceanography. Presented a paper on: Biota-metal interactions. Meriden, New Hampshire. August 1987.

*CHEMRAWN IV (Chemical Research Applied to World Needs). Modern Chemistry and Chemical Technology Applied to the Ocean and its Resources. Participant in panel on the nature of reactions on particle surfaces in seawater. Keystone, Colorado. October 1987.

Conference on Novel Phytoplankton Blooms, SUNY at Stony Brook, New York. Presented a paper on: Preliminary studies on the lipid composition of the "brown tide" alga. Stony Brook, New York. October 1988.

*Consultation with Water Resources Division, US Geological Survey, Menlo Park, California.

Presented a seminar on: Radionuclide accumulation by marine biota. Menlo Park, California. January 1989.

*Consultation with Subseabed Radioactive Waste Disposal Group, Sandia National Laboratory. Albuquerque, New Mexico. January 1989.

Consultation with International Laboratory of Marine Radioactivity. Presented a seminar on: Radionuclide flux and new production in the oceans. Monaco. February 1989.

*New York Bight monitoring workshop, sponsored by US Army Corps of Engineers. Presented a seminar on: Uptake of contaminants by marine organisms. Chair, Chemistry Panel. New York, New York. June 1989.

Consultation with International Laboratory of Marine Radioactivity on future directions of research in marine radioecology. Collaboration on experiments concerning radionuclide interactions with marine plankton. Monaco. August, 1989.

International Conference on Metals in Soils, Waters, Plants, and Animals. Presented (with S. Luoma & J. Reinfelder) papers on: Selenium bioconcentration by two benthic bivalves; and Selenium assimilation in two marine herbivores. Orlando, Florida. May, 1990.

32nd Congress of International Commission for the Scientific Exploration of the Mediterranean Sea. Perpignan, France. October, 1990. Presented paper on: Selenium assimilation in a marine copepod.

Consultation with I.A.E.A. International Laboratory of Marine Radioactivity, Monaco. October, 1990. Presented a seminar on: Colloidal association of metals in seawater and biogeochemical implications.

*Aquatic Toxicity Conference, Workshop on Geochemical Aspects of Metal Bioavailability. Vancouver. November, 1990. Presented a paper on: Trophic transfer of metals in aquatic systems.

*National Research Council working group meeting on wastewater treatment and impacts on coastal waters. Washington, D.C., February, 1991.

*American Society of Limnology and Oceanography Conference, Sante Fe. February 1992. Presented papers on: "The retention of metals in dying phytoplankton;" "Carbon remineralization and metal release rates from copepod fecal pellets and carcasses" (with B.-G. Lee).

*University of Rhode Island, Chemical Oceanography. Presented a talk on "Marine Colloids and the Bioavailability of Metals." March, 1992.

*American Geophysical Union Conference, Montreal. May 1992. Presented a talk on "The

release of metals from decomposing planktonic debris."

*First International Environmental Workshop on Integrated Water and Wastewater Management. Bari, Italy. October, 1992.

33rd Congress of International Commission for the Scientific Exploration of the Mediterranean Sea. Trieste, Italy. October, 1992. Presented paper on: The release of carbon and metals from decomposing phytoplankton.

*IUPAC workshop on trace metal speciation and bioavailability in aquatic systems. Presented paper on trophic transfer of metals in the sea. Plymouth, England, October, 1992.

*National Research Council Marine Board Planning Meeting on understanding, detecting, controlling and preventing eutrophication of coastal waters. Stony Brook, April, 1993.

*Interagency Arctic Research Policy Committee Workshop on Arctic Contamination. Presented paper on bioaccumulation of radionuclides, metals, and organic contaminants in marine food chains. Anchorage, May, 1993.

*University of Bologna. Presented three seminars on metal-plankton interactions in the oceans. Bologna, Italy, July, 1993.

*First International Conference on Transport, Fate and Effects of Silver in the Environment. Presented lecture on "Accumulation of Metals in Aquatic Organisms---Geochemical Implications." Madison, Wisconsin, August, 1993.

*Coastal Summit. Identification of current and future problems in the coastal ocean. Stony Brook, December, 1993.

*Lavaca Bay Conference on mercury contamination in a Texas estuary. Houston, February, 1994.

AGU/ASLO Conference. San Diego, February, 1994.

*Value Engineering Workshop to evaluate NYC DEP plan for Management of Jamaica Bay. New York, New York, June, 1994.

*Value Engineering Workshop to evaluate NYC DEP plan for Management of Paerdegat Basin, New York, New York, July 1994.

*Second International Conference on Transport, Fate and Effects of Silver in the Environment. Presented lecture on "Bioaccumulation of silver in marine bivalve molluscs." Madison, Wisconsin, August, 1994.

*McGill University. Presented seminar on “Recent studies on metal-plankton interactions.” Montreal, October, 1994.

*Office of Naval Research. Workshop on Monitoring of Nuclear Contamination in Arctic Seas. Presented a seminar on “Biological monitoring for radioactive wastes in the Russian Arctic.” Washington, D.C., January, 1995.

34th Congress of International Commission for the Scientific Exploration of the Mediterranean Sea. Malta. March, 1995. Presented paper on: Bioaccumulation and retention of radionuclides in marine bivalves.

*Office of Naval Research. Arctic Nuclear Waste Assessment Program Workshop. Presented seminar and poster on bioindicators of radioactive wastes in the Arctic. Woods Hole, May, 1995.

*Third International Conference on Transport, Fate and Effects of Silver in the Environment. Presented lecture on “A comparison of sediment, water and food as sources of silver for marine bivalve molluscs.” Washington, D. C., August, 1995.

*Office of Naval Research. Arctic Nuclear Waste Assessment Program Workshop on Risk Assessment. Presented a lecture on “Bioconcentration factors and sediment Kds of long-lived radionuclides in the Ob River Estuary and Kara Sea.” Sequim, Washington, October, 1995.

*Brown Tide Summit. Conference on the occurrence, causes and impacts of the “brown tide” in New York coastal waters. Workshop participant in chemical causes of the brown tide. Islip, New York, October, 1995.

*International Atomic Energy Agency. Consultants’ Group Meeting on concentration factors and sediment Kd values of long-lived radionuclides in the Arctic. Monaco, November, 1995.

Ocean Sciences Meeting, American Geophysical Union. Presented 4 papers: “Kinetic determination of trace element bioaccumulation in the mussel *Mytilus edulis*” (with W. Wang); “Modeling metal bioaccumulation in the mussel *Mytilus edulis*”; Assimilation of sediment-bound Cd, Co, Ag in the mussel *Mytilus edulis*” (with S. Griscom); “The biogeochemical fate of phytoplankton Fe: mechanisms and controls” (with D. Hutchins et al.). San Diego, February, 1996.

*Old Dominion University. Presented a seminar on “Looking for patterns in metal-biota interactions in the sea.” Norfolk, VA, April, 1995.

*Office of Naval Research. Arctic Nuclear Waste Assessment Program Conference. Presented two papers: “Biomonitoring of radionuclides in the Kara Sea” and “Transport and fate of anthropogenic radionuclides in the Ob River system.” Snowbird, Utah, May, 1996.

*Fourth International Conference on Transport, Fate and Effects of Silver in the Environment. Presented seminars on “Kinetic modeling of metal accumulation in mussels” and “Assimilation of metals by the zebra mussel, *Dreissena polymorpha*.” Madison, Wisconsin, August, 1996.

*International Symposium on Radionuclides in the Oceans. Presented a seminar on “Application of radiotracers for studying trace element accumulation in mussels.” Cherbourg, France, October, 1996.

*Value Engineering Workshop Implementation Meeting for Jamaica Bay Comprehensive Watershed Management Plan. New York, NY, October, 1996.

Society of Environmental Toxicology and Chemistry, 17th Annual Meeting. Presented three papers on “Kinetic determinations of trace element accumulation in the mussel *Mytilus edulis*” (with Wang and Luoma); “PCB cycling in marine plankton” (with Ashizawa and Brownawell); “Bioavailability of trace contaminants ²⁴¹Am, ⁵⁷Co, ¹³⁷Cs to a benthic bivalve from pore waters and sediments” (with Gagnon and Stupakoff). Washington, D.C., November, 1996.

*Participated as member of Advisory panel of COASTES program at Academy of Natural Sciences Benedict Estuarine Research Center, St. Leonard, MD, February, 1997.

*Fifth International Conference on Transport, Fate and Effects of Silver in the Environment. Presented lectures on “Silver accumulation and toxicity in marine and freshwater zooplankton;” “Using silver to trace sewage input into the Adriatic Sea” (with S. Fonda Umani). Hamilton, Ontario, Canada, September, 1997.

*Participated as member of Advisory panel of COASTES program at Academy of Natural Sciences Benedict Estuarine Research Center, St. Leonard, MD, March, 1998.

35th Congress of International Commission for the Scientific Exploration of the Mediterranean Sea. Presented paper on: “Modeling the bioaccumulation of trace metals in marine herbivores.” Dubrovnik, Croatia. June, 1998.

Fifty Years of Ocean Discovery. National Academy of Sciences and National Science Foundation. Presented a poster on: “MSRC: 30 years of innovative coastal research.” Washington, D.C., October, 1998.

Society of Environmental Toxicology and Chemistry, 19th Annual Meeting. Author/co-author of the following presentations: “Modeling and measuring metal accumulation in marine copepods,” “Bioavailability of metals from sediments to a deposit-feeding polychaete” (with W.-X. Wang); “Influence of exposure route on sublethal toxicity of silver and selenium to zooplankton” (with S. Hook). Charlotte, NC, November, 1998.

*City University of Hong Kong. Presented a seminar on “Modeling and measuring metal bioaccumulation in marine invertebrates.” Hong Kong, January, 1999.

*Hong Kong University of Science and Technology. Presented a seminar on “Looking for patterns in the biogeochemistry of metals in the oceans.” Hong Kong, January, 1999.

ASLO 99 Aquatic Sciences Meeting. Author/co-author of the following presentations: “Modeling and measuring metal accumulation in marine copepods;” “Gut redox conditions and the assimilation of sediment-bound metals in two marine bivalves” (with S. Griscom); “Interactions of zebra mussels (*Dreissena polymorpha*) with high molecular weight colloidal trace elements and carbon” (with H. Roditi); “Uptake of dissolved selenium by phytoplankton: is organic selenium readily incorporated and do uptake rates differ among taxa?” (with S. Baines). Santa Fe, NM, February, 1999.

*University of Delaware. Presented a seminar on “Looking for patterns in metal-biota interactions in the oceans.” Lewes, DE, April, 1999.

*Hudson River Foundation. Presented a seminar on “Looking for patterns in metal-biota interactions in the oceans.” New York, NY, May, 1999.

*Hudson River Monitoring Workshop. Millbrook, NY, July, 1999.

*Dartmouth College. Presented a seminar on “Looking for patterns in metal-biota interactions in the oceans.” Hanover, NH, October, 1999.

Society of Environmental Toxicology and Chemistry, 20th Annual Meeting. Co-author of the following presentations: “Reassessing metal bioavailability in contaminated sediments: influence of AVS (porewater) vs dietary uptake” (with B.-G. Lee et al.); “Reproductive toxicity of silver and mercury to zooplankton: the importance of exposure route” (with S. Hook). Philadelphia, PA, November, 1999.

*Electric Power Research Institute. Presented a seminar on “Uptake of metals and dissolved organic carbon by zebra mussels.” Palo Alto, CA, April, 2000.

*International Atomic Energy Agency. Consultants Group meeting on sediment Kds and bioconcentration factors for radionuclides in the marine environment. Monaco, April, 2000.

ASLO 2000 Aquatic Sciences Meeting. Author of the following presentations: “Uptake of dissolved organic carbon and trace metals by zebra mussels,” and “Field-testing a metal bioaccumulation model for zebra mussels.” Copenhagen, June, 2000.

*Alfred-Wegener Institute for Polar and Marine Research. Presented a seminar on “Looking for patterns in metal-biota interactions in the oceans.” Bremerhaven, Germany, June, 2000.

CALFED Science Conference. Presented seminars on “Assimilation of selenium from food by striped bass larvae” and “Bioaccumulation of selenium by phytoplankton” (with S. Baines). Sacramento, CA, October, 2000.

Institute of Ecosystem Studies. Presented a seminar on “Zebra mussel-trace metal interactions.” Millbrook, NY, October, 2000.

*International Atomic Energy Agency. Consultants Group meeting on sediment Kds and bioconcentration factors for radionuclides in the marine environment. Vienna, November, 2000.

Society of Environmental Toxicology and Chemistry, 21st Annual Meeting. Author or co-author of the following presentations: “Modeling metal uptake in zebra mussels: the importance of diet,” “Sublethal toxicity of metals to marine copepods following dietary exposure: a consistent pattern emerges” (with S. Hook), and “Trophic transfer of metals to estuarine zooplankton via grazing on protozoa” (with B. Twining). Nashville, TN, November, 2000.

*Site Visit Review Team for NSERC research proposal. Dalhousie University, Halifax, January, 2001.

*EPRI/EPA Workshop to review the Biotic Ligand Model. Presented a talk on “Relating metal toxicity to bioaccumulation and uptake pathways in aquatic animals.” Washington, D.C., January, 2001.

*Working Group for the establishment of a research agenda for a new Hudson River institute. West Point, NY, February, 2001.

*Low level radioactive municipal solid waste conference. Presented a seminar on “Basic radiation concepts.” Stony Brook, NY, April, 2001.

* Rutgers University. Presented a seminar on “Some recent studies on the trophic transfer of metals in marine ecosystems.” New Brunswick, NJ, October, 2001.

Society of Environmental Toxicology and Chemistry, 22nd Annual Meeting. Author or co-author of the following presentations: “Influence of colloids on metal-biota interactions in marine systems,” “Bioaccumulation and trophic transfer of thallium in Great Lakes plankton communities” (with B. Twining and M. Twiss), “Reproductive toxicity of metals to marine copepods following dietary exposure” (with S. Hook), and “Quantification of trace metals in natural plankton using a synchrotron x-ray fluorescence microprobe” (with B. Twining et al.). Baltimore, MD, November, 2001.

Marine Environment Laboratory, International Atomic Energy Agency, Monaco. Presented a seminar on “A review of recent modeling efforts examining metal bioaccumulation in marine animals.” Monaco, November, 2001.

*CIESM Science Council Chairs Retreat. Istanbul, January, 2002.

*JGOFS Workshop on the Mesopelagic Zone. Presented a talk on “Mechanisms regulating

elemental cycling and decomposition of planktonic debris.” San Antonio, March, 2002.

*CIESM Workshop on establishing a bioindicator program for contaminants in the Mediterranean. Presented a talk on “Considerations for a mussel-based monitoring program for radioactive contaminants in the Mediterranean Sea.” Marseille, April, 2002.

ASLO 2002 Aquatic Sciences Meeting. Author or co-author of the following presentations: “Utilization of natural dissolved organic carbon by the zebra mussel, *Dreissena polymorpha*” (Fisher, Baines, Cole), “Bioaccumulation, redox cycling, and trophic transfer of thallium by great lakes plankton communities” (with Twining and Twiss), “Kinetic modeling of metal accumulation in the clam, *Macoma balthica*: quantifying food and dissolved sources” (with Griscom and Luoma), “Trace element concentrations and stoichiometries in planktonic protists measured with an X-ray fluorescence microprobe” (with Baines et al.), “Prediction of trace metal bioavailability in fresh waters based on complexation characteristics to dissolved organic matter” (with Mylon et al.), and “Uptake and trophic transfer of polonium in marine plankton” (with Stewart). Victoria, British Columbia, Canada, June, 2002.

*SETAC Technical Workshop On the Role of Dietary Exposures in the Evaluation of Risk of Metals to Aquatic Animals. Fairmont Hot Springs, British Columbia, Canada, July, 2002.

International Conference on Radioactivity in the Environment. Presented a seminar on “Advantages and problems in the application of radiotracers for determining the bioaccumulation of contaminants in aquatic organisms. Monaco, September, 2002.

*CIESM Workshop on Bioaccumulation of Metals and Radionuclides in Marine Organisms, Coordinator. Ancona, Italy, October, 2002

*Dartmouth College. Presented two lectures on marine pollution and invited seminar on “New approaches to understanding metal-plankton interactions in aquatic systems.” Hanover, NH, November, 2002.

*International Atomic Energy Agency. Consultants Group meeting on sediment Kds and bioconcentration factors for radionuclides in the marine environment. Vienna, December, 2002.

*CIESM Chairs retreat. Majorca, Spain, December, 2002.

*EPA Metals Assessment Workshop. Washington, D.C., December, 2002.

ASLO 2003 Aquatic Sciences Meeting. Co-author of the following presentations: “Opening the ‘black box’: elemental stoichiometries of autotrophic and heterotrophic protists in the Southern Ocean” (with Twining et al.), “Direct uptake of dissolved organic selenium by riverine phytoplankton inferred from selenite:C uptake ratios and Se:C in suspended particles” (with Baines et al.), “Radioactive polonium, lead and thorium as tracers of organic carbon flux in the surface ocean” (with Stewart et al.). Salt Lake City, February, 2003.

*Dartmouth College. Presented two lectures on “Marine pollution: transport, bioaccumulation, and effects of contaminants.” Hanover, NH, October, 2003.

*Brookhaven National Laboratory. Presented a talk on “Influence of colloids on metal-biota interactions in marine systems.” Upton, NY, November 2003.

*CIESM Science Council Chairs retreat. Chania, Crete, Greece, November, 2003.

*IAEA Coordinated Research Program on Nuclear Applications to Determine Bioaccumulation Parameters and Processes used for Establishing Coastal Zone Monitoring and Management Criteria. Presented a talk on “Integrating bioaccumulation data and modeling for understanding radionuclide concentrations in aquatic animal tissues.” Monaco, December, 2003.

*CIESM Science Council Chairs retreat. Monaco, February, 2004.

*CIESM Workshop on Novel Contaminants and Pathogens Entering Coastal Waters, Coordinator. Presented a paper on “Medical radioisotopes entering the marine environment.” Neuchatel, Switzerland, May, 2004

*EAWAG. Presented a seminar on “New approaches to thinking about metal-biota interactions in marine systems.” Zurich, Switzerland, May, 2004.

*CIESM 37th Congress. Organized and chaired sessions on Mediterranean Biogeochemistry. Presented a paper on “Metal cycling through plankton communities: a single-cell approach using synchrotron-based x-ray fluorescence.” Barcelona, Spain, June, 2004.

*DOD, DOE, EPA Strategic Environmental Research and Development Program Workshop on Contaminated Sediments. Co-presented a paper on “Fate and transport of sediment-associated contaminants” (with R.M. Dickhut). Charlottesville, VA, August, 2004.

*Conference on Future Applications of ²³⁴Th in Aquatic Ecosystems. Woods Hole, MA, August, 2004.

*CIESM Science Council Chairs Retreat. La Rochelle, France, September, 2004.

*Conference on Classic and Emerging Environmental Contaminants: from Lakes to Oceans. Chaired session on novel organic contaminants. Dubendorf, Switzerland, January, 2005.

*Station Zoologique. Presented seminar on “New approaches to studying metal-biota interactions in the sea.” Villefranche, France, March, 2005.

*University of the Aegean. Presented three seminars on “Trace metal geochemistry in the oceans,” “Bioaccumulation of metals in marine organisms.” “Toxicity of metals to marine organisms.” Mytilene, Greece, April, 2005.

*IAEA Coordinated Research Program on Nuclear Applications to Determine Bioaccumulation Parameters and Processes used for Establishing Coastal Zone Monitoring and Management Criteria. Presented a talk on “Radiotracer studies of mercury and methylmercury bioaccumulation in aquatic food chains.” Monaco, May, 2005.

The Oceanography Society, International Ocean Research Conference. Presented a seminar on “Exploring stoichiometric responses of Southern Ocean plankton to iron fertilization using synchrotron-based x-ray fluorescence microscopy.” Paris, France, June, 2005

ASLO 2005 Aquatic Sciences Meeting. Presented a seminar on “How plankton affect carbon to thorium ratios in sinking particles.” Santiago de Compostela, Spain, June, 2005.

*Hudson River Foundation Long Range Planning Workshop on Chemical Contaminants. New York, July, 2005.

*CIESM Workshop on Production and Fate of Dissolved Organic Matter in the Mediterranean Sea.. Presented a talk on “Dying plankton as a source of dissolved organic matter.” Cambados, Spain, September, 2005.

*External Advisory Committee review of Dartmouth College’s Center for Environmental Health Sciences. Hanover, NH, November, 2005.

Society of Environmental Toxicology and Chemistry, 26th Annual Meeting. Presented “Accumulation of inorganic and organic mercury in phytoplankton and the subsequent trophic transfer to crustaceans” (with P. Pickhardt). Baltimore, MD, November, 2005.

8th International Conference on Mercury as a Global Pollutant. Presented “Uptake of mercury to freshwater phytoplankton and the successive trophic transfer to crustacean grazers” (with P. Pickhardt). Madison, WI, August, 2006.

*CIESM Science Council Chairs retreat. Beaulieu, France, September, 2006.

*CIESM Workshop on Marine Environmental Problems and Public Health Issues, Coordinator. Geneva, Switzerland, September, 2006.

*External Advisory Committee review of Dartmouth College’s Center for Environmental Health Sciences. Presented seminar on “Metal contamination in the oceans.” Hanover, NH, October, 2006.

Society of Environmental Toxicology and Chemistry, 27th Annual Meeting. Presented “A new technique to measure metals in individual planktonic cells,” and “Examining metal biomagnification in Mediterranean fish: a field test of a bioaccumulation model using laboratory uptake kinetics data” (with T. Mathews), and “Does temperature affect the bioaccumulation of metals by marine organisms? A case study involving the bioindicator mussel *Mytilus edulis*”

(with S. Baines). Montreal, November, 2006.

*Fate and Bioavailability of Mercury in Aquatic Ecosystems and Effects on Human Exposure. Presented a seminar on “Bioaccumulation and trophic transfer of inorganic and methylmercury in aquatic organisms.” Durham, NH, November, 2006.

SERDP & ESTCP's Partners in Environmental Technology Technical Symposium & Workshop. Presented papers on “Assessing metal biomagnification and uptake pathways in marine fish” and “An integrated field and laboratory study of the bioavailability of metal contaminants in sediments.” Washington, D.C., November, 2006.

*CIESM Science Council Chairs retreat. Beaulieu, France, January, 2007.

*CIDER: A new environmental initiative for Stony Brook University. Medical School of Stony Brook University. February, 2007.

*CIESM 38th Congress. Organized and chaired sessions on Mediterranean Biogeochemistry. Co-author of papers on “Metal concentrations in Mediterranean fish tissues: exploring biomagnification patterns” (with T. Mathews), “Assessing metal biomagnification and uptake pathways in Mediterranean fish” (with T. Mathews), and “Particle composition and organic carbon flux at Dyfamed: insight from the short-lived natural radionuclides” (with G. Stewart et al.). Istanbul, Turkey, April, 2007.

Society of Environmental Toxicology and Chemistry, 28th Annual Meeting. Presented “Dominance of dietary intake of metals in marine elasmobranch and teleost fish,” and “Intraspecific differences in metal bioaccumulation in the Atlantic silverside (*Menidia menidia*): inferences regarding the effects of key biological processes” (with J. Dutton), and “Explaining the bioaccumulation of sediment-bound metals to benthic deposit-feeding animals” (with Z. Turek). Milwaukee, November, 2007.

SERDP & ESTCP's Partners in Environmental Technology Technical Symposium & Workshop. Presented “Bioaccumulation of Cd, Cr, As and Pb in deposit-feeding polychaetes” and “*Fundulus heteroclitus*: a model organism for metal exposure and biotransfer from sediments in intertidal habitats” (with C. Chen). Washington, D.C., December, 2007.

*University of the Algarve. Presented seminars on “Modeling metal bioaccumulation in marine animals” and “Looking for patterns in metal-biota interactions in marine systems.” Faro, Portugal, January, 2008.

ASLO 2008. Ocean Sciences Meeting. Presented a seminar on “Accumulation and cycling of trace metals by heterotrophic marine bacteria.” (with C. Vogel). Orlando, FL, March, 2008.

*North San Francisco Bay Selenium TMDL First Technical Review Committee. Lafayette, CA, May 2008.

*SERDP & ESTCP Workshop on Research and Development Needs for Understanding and Assessing the Bioavailability of Contaminants in Soils and Sediments. Presented “Bioaccumulation of metals in sediment-dwelling animals.” Annapolis, August, 2008.

Society of Environmental Toxicology and Chemistry, 29th Annual Meeting. Presented “Assessing the bioaccumulation of metals in killifish (*Fundulus heteroclitus*), a bioindicator organism.” (with J. Dutton). Tampa, November, 2008.

*SERDP & ESTCP's Partners in Environmental Technology Technical Symposium & Workshop. Presented “Factors affecting metal bioaccumulation in marine organisms,” and “Geochemical and physiological influences on metal accumulation in deposit-feeding polychaetes.” Washington, D.C., December, 2008.

ASLO 2009. Ocean Sciences Meeting. Presentations on “Effects of organic matter on methylmercury accumulation by phytoplankton” (with A. Luengen and B. Bergamaschi), and “Bioavailability of metals released from lysed and unlysed marine bacterial cells” (with C. Vogel), and “Interspecific differences in silicification of resident diatom species cause inter-regional differences in Si and C export” (with S. Baines et al.), and “Can Fe:C ratios in food affect copepod productivity?” (with X. Chen and S. Baines). Nice, France, January, 2009.

*SETAC Workshop on Ecological Assessment of Selenium in the Aquatic Environment. Pensacola, FL, February 2009.

*North San Francisco Bay Selenium TMDL Second Technical Review Committee. Lafayette, CA, April, 2009.

Workshop on Mercury Exposure and Public Health. Meeting organizer. New York, NY, May, 2009.

Workshop on remediation of contaminated sediments, meeting co-organizer. Bangor, Maine, June 2009.

*External Advisory Committee review of Dartmouth College’s Center for Environmental Health Sciences. Hanover, NH, October, 2009.

*Dartmouth College. Presented a lecture on “New perspectives on metal biogeochemistry in the sea.” Hanover, NH, October, 2009.

Society of Environmental Toxicology and Chemistry, 30th Annual Meeting. Presented “The influence of salinity on the uptake of As, Cd, Cr, Hg and MeHg into an estuarine fish from the dissolved phase,” “The role of dissolved organic matter on the uptake of As, Cd, Cr, Hg, and MeHg into the killifish (*Fundulus heteroclitus*) from the dissolved phase” (with J. Dutton), and “Dissolved organic matter reduces the bioaccumulation of methylmercury by phytoplankton” (with A. Luengen). New Orleans, November, 2009.

*SERDP & ESTCP's Partners in Environmental Technology Technical Symposium & Workshop. Presented “Geochemical and biological factors influencing metal accumulation in benthic animals,” and “The role of organic carbon in controlling metal bioavailability and trophic transfer in intertidal food webs” (with C. Chen). Washington, D.C., December, 2009.

*US Army Corps of Engineers. Presented a seminar on “Patterns of metal-biota interactions in the ocean.” Vicksburg, Mississippi, April, 2010.

CIESM 39th Congress. Presented a paper: “Dietary sources dominate metal uptake in marine fish.” Venice, Italy, May 2010.

*Coastal and Marine Mercury Ecosystem Research Collaborative. Workshop hosted by Dartmouth Toxic Metals Research Program. Portsmouth, NH, September, 2010.

*Dartmouth College School of Medicine. Presented a lecture on “Modeling metal bioaccumulation in marine organisms, and related stuff.” Hanover, NH, October, 2010.

*Grand Rounds, Stony Brook University Medical School. Presented a lecture on “Medical masquerade: one man’s experience with methylmercury poisoning.” Stony Brook, NY, November, 2010.

ASLO 2011. Presented “Pumping iron produces fatty phytoplankton,” “A vicious cycle: a non-homeostatic regulation of iron by a marine copepod” (with X. Chen), and “Relating sedimentary metal phase speciation to its bioavailability” (with Z. Baumann). San Juan, Puerto Rico, February, 2011.

IAEA International Symposium on Isotopes in Hydrology, Marine Ecosystems, and Climate Change Studies. Presented “Application of radiotracer methodology for understanding the influence of geochemical fractionation on metal bioavailability in estuarine sediments.” Monaco, March, 2011.

US Geological Survey, Water Resources Division. Presented a seminar on “Recent developments on the bioavailability of sediment-bound metals for benthic invertebrates.” Menlo Park, CA, June, 2011.

*Natural History Museum, London. Presented a seminar on “Patterns of metal-biota interactions in the sea.” London, July, 2011.

*Interdisciplinary Progress in Environmental Science and Management. Presented keynote speech on “Interdisciplinary approaches for addressing marine contamination issues.” Newcastle-upon-Tyne, UK, July, 2011.

10th International Conference on Mercury as a Global Pollutant. Presented a seminar on “Dissolved organic matter, regardless of origin, limits algal accumulation of methylmercury”

(with A. Luengen), and “Trends in mercury concentrations in US commercial fish, a research synthesis” (with R. Karimi). Halifax, Nova Scotia, July 2011.

*External Advisory Committee review of Dartmouth College’s Center for Environmental Health Sciences. Hanover, NH, October, 2011.

*University of Wisconsin, Milwaukee. Presented a seminar on “Finding patterns of metal-biota interactions in the sea.” Milwaukee, November, 2011.

Society of Environmental Toxicology and Chemistry, 32nd Annual Meeting. Presented “Geochemical and biological factors allow better understanding of sedimentary As, Cd and Cr uptake in a deposit-feeding polychaete *Nereis succinea*” (with Z. Baumann). Boston, November, 2011.

*Harvard University School of Public Health. Presented a seminar on “The application of a model to assess the bioaccumulation of metals in aquatic animals and their trophic transfer in aquatic ecosystems.” Boston, December 2011.

*Workshop on Fukushima radioactivity in the Pacific. Presented a paper on “Fukushima-derived radionuclides in Pacific biota.” Salt Lake City, February, 2012.

ASLO 2012. Presented “Bioaccumulation by zooplankton and micronektonic fish of Fukushima released cesium and silver radioisotopes in Japanese coastal waters” (with Z. Baumann); “Impacts of the Fukushima Dai-ichi nuclear power plants on the ocean” (with K. Buesseler); “Trends in community structure of zooplankton and micronekton from waters nearby Fukushima and their relation to bioaccumulated cesium radionuclide” (with J. Nishikawa). Salt Lake City, February, 2012.

*NOAA Headquarters. Presented “Fukushima-derived radionuclides in Pacific biota.” Silver Spring, MD, March, 2012.

*Radiological Protection and Nuclear Safety Institute. Presented “Accumulation of Fukushima-derived radionuclides in plankton and fish in the Pacific.” Cadarache, France, July, 2012.

*Bigelow Laboratory for Ocean Sciences. Presented “Hot tuna! Fukushima radioactivity and Pacific biota.” Boothbay Harbor, Maine, July, 2012.

International Conference on Heavy Metals in the Environment. Presented “Radioactive cesium from Fukushima Japan detected in bluefin tuna off California: Implications for public health and for tracking migration.” Rome, Italy, September, 2012.

*New York Academy of Medicine. Presented talk on “Medical masquerade: a case study of mercury exposure from seafood consumption.” New York, NY, October, 2012.

*European Commission DG Maritime Affairs and Fisheries . Workshop on Risk from contamination of marine environment in Pacific after Fukushima. Presented "Analysis and risk assessment of Pacific sea life." Brussels, Belgium, October, 2012.

*OECD Headquarters, Nuclear Energy Agency. Presented seminar on: “Hot tuna! Fukushima radioactivity and Pacific biota.” Paris, France, October, 2012.

*Conference on The accidents at Fukushima Dai-Ichi; exploring the impacts of radiation on the ocean. Presented seminar on “Fukushima radioactivity and Pacific biota.” Tokyo, Japan, November, 2012.

School of Marine and Atmospheric Sciences, Stony Brook University. Presented seminar on “Fukushima-derived radioactivity in Pacific biota-- risks, research opportunities, and nature being amazing.” Stony Brook, March, 2013.

American Chemical Society, 254th National Meeting. Presented a seminar on “Radioactive tuna--risks and research opportunities.” New Orleans, April, 2013.

*Kocaeli University. Presented seminars on: “Biological uptake of radioactive wastes from Fukushima Japan in the Pacific Ocean: implications for health risks and new research opportunities” and “Fukushima nuclear wastes in Pacific biota: a need for interdisciplinary research teams and approaches taken by an American university.” Izmit, Turkey, May, 2013.

*Marine Biological Laboratory. Presented a seminar on “Fukushima-derived radioactivity in Pacific biota-- risks, research opportunities, and nature being amazing.” Woods Hole, May, 2013.

*Canadian Chemistry Conference. Presented seminar: “Cellular distributions of metals in algae enable predictions of metal behavior in aquatic food chains.” Quebec City, May, 2013.

*Aquarium of the Pacific. Presented seminar: “Impacts of radioactivity on marine life after Fukushima.” Long Beach, CA, June 2013.

International Conference on Mercury as a Global Pollutant. Presented “Contrasting food web factor and body size relationships with Hg and Se concentrations in marine biota”; “The U.S. seafood Hg database: a model for global mercury monitoring” (with Karimi et al.); and “The speciation of shark and mercury in commercially prepared shark fin soup” (with Hammerschmidt et al.). Edinburgh, Scotland, July/August, 2013.

*Humanities Institute at Stony Brook. Presented seminar: “Fukushima radioactivity in the Pacific and risks to marine life and humans.” Stony Brook, September, 2013.

*Living World Lecture. Presented seminar: “Fukushima’s effects, Pacific Ocean ecology, and public health.” Stony Brook, October, 2013.

CIESM 40th Congress. Presented “Fukushima radioactivity in tuna: implications for public health and tracing migrations.” Marseille, October, 2013.

*Harvard University, Atmospheric Chemistry. Presented seminar “Fukushima-derived radioactivity in Pacific biota—risks, research opportunities, and nature being amazing.” Cambridge, MA, November, 2013.

*European Commission. Kd workshop. Presented seminar: “Calculating partition coefficients of metals and radionuclides for marine particles.” Oslo, Norway, May, 2014..

*Committee on Radiation Protection and Public Health, OECD Headquarters, Nuclear Energy Agency. Presented seminar on: “Continued studies of Fukushima-derived radionuclides in Pacific fish: implications for wildlife and public health.” Paris, May, 2014.

American Public Health Association 142nd Annual Meeting. Presented a film entitled: “Choosing wisely: recognizing and preventing overexposure to mercury in fish.” New Orleans, November, 2014.

American Geophysical Union. Presented seminar: “Methyl mercury uptake by diverse marine phytoplankton and trophic transfer to zooplankton” (with C-S. Lee). San Francisco, December, 2014.

*European Commission. Conference on environmental radioactivity. Presented a seminar on “¹³⁷Cs assimilation and retention in three marine benthic organisms.” Madrid, January, 2015.

*European Commission. Presented seminar on kds of long-lived radionuclides in marine sediments. IAEA Laboratory, Monaco, April, 2015.

*Presentation of a series of invited seminars to Istanbul University, Cekmece Nuclear Center, and Kocaeli University (Turkey) on environmental radioactivity and on methylmercury bioaccumulation in marine organisms. April, 2015.

New York State Dietetic Association Annual Meeting. Presentation of the film “Choosing wisely: recognizing and preventing overexposure to mercury in fish” and related seminar. Albany, NY, May, 2015.

European Commission, STAR Final Dissemination Event. Presented seminar “New research into marine radioecology off the Fukushima coastline” and “Sediments as a source of Fukushima cesium for marine fauna in coastal Japan.” Aix-en-Provence, June, 2015.

*Rothschild Fellow of Israel Academy of Sciences. Presented a series of seminars on: “Mercury and methylmercury bioaccumulation in marine organisms” at Tel Aviv University; “Modeling metal bioaccumulation in marine organisms” at Kinneret Limnological Laboratory; “Long-lived radionuclides from the Fukushima nuclear power plant in Japan and consequences for Pacific

ecosystems and seafood consumers” at Haifa University and at Hebrew University in Jerusalem; “Metal-plankton interactions and their biogeochemical implications” at Conference on Environmental Science and Policy - Challenges in the South Eastern Mediterranean (Haifa, Israel). November, 2015.

ASLO Ocean Sciences Meeting. Presented: “Methylmercury bioaccumulation, transformation, and trophic transfer in marine plankton assemblages” (with C.-S. Lee); and “Are sediments a source of Fukushima radiocesium for marine fauna in coastal Japan?” (with C. Wang). New Orleans, February, 2016.

*Syracuse University. Presented seminar on: “Mercury in marine fish, with particular attention to bluefin tuna.” Syracuse, NY, March, 2016.

*Dartmouth College. Presented a seminar on “Mercury bioaccumulation in marine organisms.” Hanover, NH, May, 2016.

*IAEA Laboratory of Marine Radioactivity. Presented a seminar on “Mercury bioaccumulation in marine organisms.” Monaco, June, 2016.

*Prince Albert Foundation. Presented a seminar on “Mercury bioaccumulation in marine organisms.” Monaco, June, 2016.

*Brookhaven National Laboratory. Presented a seminar on “Long-lived radionuclides from the Fukushima nuclear power plant in Japan, and consequences for Pacific ecosystems and seafood consumers.” Upton, NY, September, 2016.

Society of Environmental Toxicology and Chemistry, 37th Annual Meeting. Presented seminars on: “Environmental radioactivity and public anxiety;” “Sources of radioactive cesium to marine biota off Fukushima” (with Z. Baumann); and “Are sediments a source of Fukushima radiocesium for marine fauna in coastal Japan?” (with C. Wang). Orlando, November, 2016.

SUNY Graduate Research Conference. Presented: “Declining mercury concentrations in bluefin tuna.” (with C.S. Lee). Saratoga Springs, NY, March, 2017.

*University of Vienna. Presented seminars on: “Methylmercury bioaccumulation, transformation, and trophic transfer in marine organisms” and “Bioaccumulation of metals in marine organisms.” Vienna, Austria. June, 2017.

*Swiss Federal Institute of Technology (ETH). Presented seminars on: “Methylmercury bioaccumulation, transformation, and trophic transfer in marine organisms” and “Long-lived radionuclides from the Fukushima nuclear power plant in Japan and consequences for Pacific ecosystems and seafood consumers.” Zurich, Switzerland. June, 2017.

International Conference on Mercury as a Global Pollutant. Presented seminars on: “Declining

mercury concentrations in bluefin tuna,” “Elemental mercury production in seawater by coastal bacterial assemblages” (with C.S. Lee), “Systematic review of trends in fish tissue mercury concentrations” (with T. Grieb et al.), “Links between mercury content and sustainability of fisheries: ecological explanations and implications” (with R. Karimi et al.), and “Impacts of methylmercury on early life stages of a marine forage fish” (with X. Ye). Providence, July, 2017.

Goldschmidt Geochemistry Conference. Presented seminars on: “Declining mercury concentrations in Atlantic bluefin tuna”, “Temporal patterns of Cs-137 contamination in marine fish, seawater, and sediments off Fukushima, Japan” (with C. Wang), and “Elemental mercury production in seawater by coastal bacterial assemblages” (with C.-S. Lee). Paris, August, 2017.

*OECD Headquarters, Nuclear Energy Agency. Presented seminar on: “Evaluating temporal trends in Cs radioactivity in water, sediments, and biota off Fukushima.” Paris, August, 2017.

*University of Connecticut, Department of Marine Sciences. Presented a seminar on “Fukushima radioactivity in the Pacific—facts and public anxiety.” Avery Point, CT, October, 2017.

PUBLICATIONS (underlined names were mentored students at time research was conducted)

Fisher, N.S. Effects of chlorinated hydrocarbon pollutants on growth of marine phytoplankton in culture. Ph.D. Thesis, State University of New York at Stony Brook, 1974; University Microfilms (Ann Arbor, Michigan), Publ. No. 74-27824, 195 pp; Dissertation Abstracts 35:2917-B (1974).

Mosser, J.L., **N.S. Fisher**, T.-C. Teng, and C.F. Wurster. 1972. Polychlorinated biphenyls: toxicity to certain phytoplankters. *Science* 175: 191-192.

Mosser, J.L., **N.S. Fisher**, and C.F. Wurster. 1972. Polychlorinated biphenyls and DDT alter species composition in mixed cultures of algae. *Science* 176: 533-535.

Fisher, N.S., L.B. Graham, E.J. Carpenter, and C.F. Wurster. 1973. Geographic differences in phytoplankton sensitivity to PCBs. *Nature* 241: 548-549.

Fisher, N.S., and C.F. Wurster. 1973. Individual and combined effects of temperature and polychlorinated biphenyls on the growth of three species of phytoplankton. *Environmental Pollution* 5: 205-212.

Fisher, N.S., E.J. Carpenter, C.C. Remsen, and C.F. Wurster. 1974. Effects of PCB on interspecific competition in natural and gnotobiotic phytoplankton communities in continuous and batch cultures. *Microbial Ecology* 1: 39-50.

Fisher, N.S., and C.F. Wurster. 1974. Impact of pollutants on plankton communities. *Environmental Conservation* 1: 189-190.

Fisher, N.S. 1975. Chlorinated hydrocarbon pollutants and photosynthesis of marine phytoplankton: a reassessment. *Science* 189: 463-464.

Powers, C.D., R.G. Rowland, R.A. Michaels, **N.S. Fisher**, and C.F. Wurster. 1975. The toxicity of DDE to a marine dinoflagellate. *Environmental Pollution* 9: 253-262.

Fisher, N.S., R.R.L. Guillard, and C.F. Wurster. 1976. Effects of a chlorinated hydrocarbon pollutant on the growth kinetics of a marine diatom. In: Modeling Biochemical Processes in Aquatic Ecosystems, R.P. Canale (Ed.), Ann Arbor Science Publishers, Ann Arbor, pp. 305-317.

Fisher, N.S. 1976. North Sea phytoplankton. *Nature* 259: 160.

Bankston, D.C., and **N.S. Fisher**. 1977. Atomic emission spectrometer/spectrograph for the determination of barium in microamounts of diatom ash. *Analytical Chemistry* 49: 1017-1023.

Fisher, N.S. 1977. On the differential sensitivity of estuarine and open-ocean diatoms to exotic chemical stress. *American Naturalist* 111: 871-895.

Schwarzenbach, R.P., and **N.S. Fisher**. 1978. Rapid determination of the molecular weight distribution of total cellular fatty acids using chemical ionization mass spectrometry. *Journal of Lipid Research* 19: 12-17.

Fisher, N.S., and R.P. Schwarzenbach. 1978. Fatty acid dynamics in *Thalassiosira pseudonana* (Bacillariophyceae): implications for physiological ecology. *Journal of Phycology* 14: 143-150.

Pechenik, J.A., and **N.S. Fisher**. 1979. Feeding, assimilation, and growth of mud snail larvae, *Nassarius obsoletus* (Say), on three different algal diets. *Journal of Experimental Marine Biology and Ecology* 38: 57-80.

Fisher, N.S. 1979. On habitat predictability and algal pre-adaptation to novel chemicals - comments. *American Naturalist* 113: 946-947.

Bankston, D.C., **N.S. Fisher**, R.R.L. Guillard, and V.T. Bowen. 1979. Application of dc plasma optical emission spectrometry to studies of element incorporation by marine phytoplankton. *EML Environmental Quarterly* 1509-1531.

Fisher, N.S., B.L. Olson, and V.T. Bowen. 1980. Plutonium uptake by marine phytoplankton in culture. *Limnology and Oceanography* 25: 823-839.

Fisher, N.S., and D. Frood. 1980. Heavy metals and marine diatoms: influence of dissolved organic compounds on toxicity and selection for metal tolerance among four species. *Marine Biology* 59: 85-93.

Fisher, N.S., G.J. Jones, and D.M. Nelson. 1981. Effects of copper and zinc on growth, morphology, and metabolism of *Asterionella japonica* (Cleve). *Journal of Experimental Marine Biology and Ecology* 51: 37-56.

Fisher, N.S., and G.J. Jones. 1981. Heavy metals and marine phytoplankton: correlation of toxicity and sulfhydryl-binding. *Journal of Phycology* 17: 108-111.

Fisher, N.S. 1981. On the selection for heavy metal tolerance in diatoms from the Derwent Estuary, Tasmania. *Australian Journal of Marine and Freshwater Research* 32: 555-561.

Fisher, N.S. 1981. Sensitivity of phytoplankton to pollutants. In: Marine Botany: An Australasian Perspective, M. Clayton and R. King (Eds.), Longman Cheshire, Melbourne, pp. 285-290.

Butler, E.C.V., J.D. Smith, and **N.S. Fisher**. 1981. Influence of phytoplankton on iodine speciation in seawater. *Limnology and Oceanography* 26: 382-386.

Romeo, A.J., and **N.S. Fisher**. 1982. Intraspecific comparisons of nitrate uptake in three marine diatoms. *Journal of Phycology* 18: 220-225.

Fisher, N.S., and J.G. Fabris. 1982. Complexation of Cu, Zn and Cd by metabolites excreted from marine diatoms. *Marine Chemistry* 11: 245-255.

McConville, M.J., **N.S. Fisher**, and A.E. Clarke. 1982. Relationship between evolutionary age and hydroxyproline-containing macromolecules in unicellular algae. *Phytochemistry* 21: 2243-2248.

Fisher, N.S. 1982. Bioaccumulation of technetium by marine phytoplankton. *Environmental Science and Technology* 16: 579-581.

Fisher, N.S., and R.A. Cowdell. 1982. Growth of marine planktonic diatoms on inorganic and organic nitrogen. *Marine Biology* 72: 147-155.

Gillan, F.T., **N.S. Fisher**, and R.B. Johns. 1983. The effects of copper and zinc on the fatty acids and carotenoids in the marine diatom *Asterionella japonica*. *Botanica Marina* 26: 255-257.

Fisher, N.S., K.A. Burns, R.D. Cherry, and M. Heyraud. 1983. Accumulation and cellular distribution of ^{241}Am , ^{210}Po , and ^{210}Pb in two marine algae. *Marine Ecology Progress Series* 11: 233-237.

Fisher, N.S., P. Bjerregaard, and S.W. Fowler. 1983. Interactions of marine plankton with transuranic elements. I. Biokinetics of neptunium, plutonium, americium, and californium in phytoplankton. *Limnology and Oceanography* 28: 432-447.

Fisher, N.S., P. Bjerregaard, L. Huynh-Ngoc, and G.R. Harvey. 1983. Interactions of marine plankton with transuranic elements. II. Influence of dissolved organic compounds on americium and plutonium accumulation in a diatom. *Marine Chemistry* 13: 45-56.

Fisher, N.S., P. Bjerregaard, and S.W. Fowler. 1983. Interactions of marine plankton with transuranic elements. III. Biokinetics of americium in euphausiids. *Marine Biology* 75: 261-268.

Fisher, N.S., and S.W. Fowler. 1983. Radioecological research activities (particularly marine-related) in the Mediterranean region and nearby countries. *Rapp. Comm. Int. Mer. Medit.* 28: 189-203.

Fisher, N.S., P. Bjerregaard, and S.W. Fowler. 1983. Biokinetics of americium in marine plankton. *Rapp. Comm. Int. Mer. Medit.* 28: 247-251.

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