

Curriculum Vitae

John W. Farrington

Business Address.

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BIOGRAPHICAL SKETCH

Dr. John W. Farrington completed both bachelor's (1966) and master's degrees in chemistry (1968) at Southeastern Massachusetts Technological Institute (then Southeastern Massachusetts University) before taking his doctorate at the Graduate School of Oceanography, University of Rhode Island, in January 1972. He spent the bulk of his distinguished career at the Woods Hole Oceanographic Institution (WHOI) in a succession of positions from postdoctoral investigator to Senior Scientist (equivalent of full professor in WHOI's system) in the Chemistry Department. He held leadership positions as Director of WHOI's Coastal Research Center (1981-1987), Associate Director for Education and Dean of Graduate Studies (1990 to 2002), and then with a change of titles as Vice President for Academic Programs and Dean (2002-2005). Dr. Farrington retired from WHOI in March 2006, and since that time holds the title of Scientist Emeritus at WHOI. From 1988 to 1990, Dr. Farrington was the Michael P. Walsh Professor and Director of the Environmental Sciences Program at UMass Boston.

His professional interests are: biogeochemistry of fossil fuel and anthropogenic compounds in the marine environment; environmental sciences; science-policy interactions, especially as related to environmental issues and diversity issues; leadership in academic, research, educational and non-profit organizations; education in the sciences, both formal and informal, including progress for a diversity of learners; science and religion interactions; organic geochemistry of the marine environment; biochemistry of marine organisms; and petroleum geochemistry. He has published 119 scientific papers and chapters in the scientific literature and more than 30 papers about science-policy interactions and education in marine sciences.

Dr. Farrington is currently President of the Ocean Sciences Section of the American Geophysical Union. He serves as Chair of the Board of Trustees of the New Bedford Oceanarium, which operates as the Ocean Explorium at New Bedford Seaport; a member of the Board of Trustees of the Bermuda Institute of Ocean Sciences; and a member of the Board of Overseers of the Sea Education Association.

PROFESSIONAL INTERESTS

Biogeochemistry of fossil fuel and anthropogenic compounds in the marine environment.
Environmental sciences.
Science-Policy interactions, especially as related to environmental issues and diversity issues.
Leadership in academic, research, educational and non-profit organizations.
Education in the sciences both formal and informal, including progress for a diversity of learners.
Science and religion interactions.
Organic geochemistry of the marine environment.
Biochemistry of marine organisms.
Petroleum geochemistry.

EDUCATION

B.S., Chemistry, Southeastern Massachusetts University, 1966
M.S., Chemistry, Southeastern Massachusetts University, 1968
Ph.D., Oceanography, Graduate School of Oceanography, University of Rhode Island, (FWQA
Predoctoral Fellow) 1972

PROFESSIONAL POSITIONS

Graduate Teaching Assistant, Chemistry Department, Southeastern Massachusetts University
(then SMTI), 1966-1968 - Freshman Chemistry and Sophomore Organic Chemistry.
Biochemical Research Laboratories, the Dow Chemical Company, Midland, Michigan- Summer, 1968
Sea Grant Graduate Research Assistant, Graduate School of Oceanography, University of Rhode
Island, 1968-1969.
FWPCA (predecessor to USEPA) Graduate Fellow, Graduate School of Oceanography,
University of Rhode Island, 1969-1971.
Postdoctoral Investigator, Chemistry Department, Woods Hole Oceanographic Institution, 1971-1972
Assistant Scientist, Chemistry Department, Woods Hole Oceanographic Institution, 1972-1976
Associate Scientist, Chemistry Department, Woods Hole Oceanographic Institution, 1976-1982
Director, Coastal Research Center, Woods Hole Oceanographic Institution, 1981-1987
Senior Scientist, Chemistry Department, Woods Hole Oceanographic Institution, 1982-1988
Adjunct Research Professor, Center for Bio-Organic Studies, University of New Orleans, Louisiana
State University System, 1979-1981.
Adjunct Scientist, Chemistry Department, Woods Hole Oceanographic Institution, 1988-1990.
Michael P. Walsh Professor, and Director, Environmental Sciences Program, University of
Massachusetts-Boston, 1988-1990
Adjunct Professor, Environmental Sciences Program, University of Massachusetts-Boston, 1990-1998.
Associate Director for Education and Dean of Graduate Studies, Senior Scientist, Woods Hole
Oceanographic Institution, 1990- 2002.
Adjunct Professor, Chemistry Department, University of Massachusetts-Dartmouth, 1995.
Senior Lecturer (Part time) Massachusetts Institute of Technology, July 1, 1994 to January 31, 1995.
Vice President for Academic Programs and Dean, Senior Scientist, Woods Hole Oceanographic
Institution, 2002 – 2005.

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Senior Scientist, Marine Chemistry and Geochemistry Department, Woods Hole Oceanographic Institution, November 28, 2005 – February 28, 2006.

Scientist Emeritus, Marine Chemistry and Geochemistry Department, Woods Hole Oceanographic Institution, March 10, 2006 – present.

Visiting Professor, Science Department, Dixie State College of Utah, St. George, Utah. January to May, 2007. (Taught Introduction to Oceanography).

President (and Sole Proprietor), JW Farrington Associates, Consultant for Ocean Education and Environmental Research, 2007-present.

Expert (Part-time, temporary), Education and Diversity Programs, Office of the Assistant Director for Geosciences, National Science Foundation Arlington, VA March 2, 2009 –present.

HONORS

FWPCA (predecessor to USEPA) Graduate Fellowship, 1969-1971.

Elected to Sigma Xi 1971.

Most Outstanding Paper Published in Organic Geochemistry Award 1979, by the Organic Geochemistry Division of The Geochemical Society. Shared with Cindy Lee and Robert B. Gagosian.

Massachusetts Marine Educators Association Award of Distinction 1997

University of Rhode Island Alumni Association Award for Excellence in Research 1998

United States Geological Survey Ambassador for Science Award, April 2001

“For leadership in promoting science and its use in sound decision-making.”

David B. Stone Award, New England Aquarium, September 2001.

“For distinguished service to the environment and community.”

Bostwick H. Ketchum Award, Woods Hole Oceanographic Institution, October 2003.

“In recognition of achievements in science, education, and policy concerning the input and fate of organic contaminant chemicals in the marine environment.”

National Associate (life appointment) of the U.S. National Academies, November 2003.

“In recognition of extraordinary service to the National Academies in its role as advisor to the Nation in matters of science, engineering, and health.”

John W. Farrington Reference Collection in the Woods Hole Oceanographic Institution Student Center. Established September 24, 2005 by the MIT/WHOI Joint Program Graduate Students and Alumni/ae.

John W. Farrington Chair for Excellence in Education. Established October 14, 2005 by the Trustees and Corporators of Woods Hole Oceanographic Institution.

Graduate School of Oceanography, University of Rhode Island Dean’s List for Outstanding Professional Achievement, October 14, 2006.

Nanquiang Lecture, Xiamen University, Xiamen, China, July, 2007.

Doctor Honoris Causa. The University of Concepcion, Concepcion, Chile on March 31, 2009.

Awarded for “highly commendable and innovative contributions to the development of knowledge in benefit of the University of Concepcion and of the national and regional Higher Education, also contributing significantly to international scientific collaboration, and to the development of understanding and solidarity among nations.”

Samuel P. Stone Alumni Award, 2009 Award in Sciences, College of Arts and Sciences, University of Massachusetts-Dartmouth.

PROFESSIONAL AFFILIATIONS

- Associate Editor, Organic Geochemistry, 1978-1983.
Editorial Board, Organic Geochemistry, 1983-1987.
Contributing Editor, Environment Magazine, 1984-1992.
Member, Steering Committee, U.S. National Academy of Sciences, Study of Petroleum in the Marine Environment, 1981-1985 (“Oil in the Sea”, 1985 report).
Member, International Environmental Programs Committee, Environmental Studies Board, U.S. National Academy of Sciences, 1981-1982.
Member, Marine Chemistry Working Group, International Council for Exploration of Seas, 1981-1990
Member, Environmental Studies Board, National Academy of Sciences, 1983-1986
Chairman, U.S. National Committee of SCOPE (Scientific Committee on Problems of the Environment, International Council of Scientific Unions), 1983-1986.
Member, GEMSI (Group of Experts on Methods, Standards, and Intercomparisons)-IOC-UNESCO Ad Hoc Group on Use of Marine Organisms in Marine Pollution Monitoring (MARPOLON), 1982-1985.
Member, GEMSI-IOC-UNESCO, 1987-1995.
Chairman, Committee to Review the Outer Continental Shelf Environmental Studies Program, National Research Council, 1986-1992
Member of the Corporation, Bermuda Biological Station for Research (now Bermuda Institute of Ocean Sciences), 1989-present; Trustee, 1992-present. Trustees’ Executive Committee, 2000-2007.
Member, Massachusetts Advisory Committee on Science and Technology, Executive Office of Economic Affairs, 1989-1990.
Member, New England Aquarium Science Advisory Committee, 1989-1992.
Member, Committee on Coastal Oceanography, National Research Council, 1989-1993.
Member and Vice-Chairman, International Mussel Watch Committee, IOC-UNESCO and UNEP, International Mussel Watch Committee, 1986-present.
Advisor to Smithsonian “Ocean Planet Exhibit” 1992-1995.
Member, Treibs Medal Committee, Organic Geochemistry Division, The Geochemical Society, 1995-1998.
Member, Massachusetts Water Resources Agency Outfall Monitoring Task Force, 1995-1997.
Member, Marine Board, National Research Council, 1996-1999.
Member, New Bedford Oceanarium Board of Trustees, 1999-2007.
Member, External Board of Advisors, Center for Marine Science and Technology, University of Massachusetts-Dartmouth, 1998-2007.
Chair, Committee on Risk Assessment for Remediation of PCB Contaminated Sediments, Board on Environmental Studies and Toxicology, National Research Council, 1999-2001.
Member, Science Advisory Committee Review Team, Massachusetts Audubon Society, 2000.
Member, Advisory Committee for the New England Center for Ocean Science Education Excellence, A NSF funded joint activity of New England Aquarium, UMass Boston, and Woods Hole Oceanographic Institution, 2002 – 2007.
Member, Excellence in Geophysical Education Award Committee, American Geophysical Union, 2002-2004.
Member, External Advisory Panel, Centro de Investigación Oceanográfica en el Pacifico Sur-Oriental, Universidad de Concepcion, Chile, 2002-present.

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Member, Board of Overseers, Sea Education Association, Inc. 2005 – present.

Chair, Education and Outreach Committee, Ocean Sciences Section of American Geophysical Union, 2005-2006.

Ocean Sciences Section, American Geophysical Union. President-elect 2006-2008. President, 2008 - present.

Member, Board of Trustees New Bedford Oceanarium (Ocean Explorium at New Bedford Seaport) 1999- present, Vice Chair, May 2008-October, 2008; Chair, October 2008 – present.

Chair, Committee to Review NOAA's Science Education Program, Board of Science Education, National Research Council, May 2008-present.

Member, Graduate School of Oceanography-University of Rhode Island Dean's Advisory Council 2008-present.

PROFESSIONAL SOCIETY MEMBERSHIP

American Association for the Advancement of Science

American Chemical Society

American Geophysical Union

American Society of Limnology and Oceanography

Sigma Xi

The Oceanography Society

The Estuarine and Coastal Research Federation

COURSES TAUGHT

MIT/WHOI Joint Program: (Graduate Level) Marine Organic Geochemistry, Seminar in Marine Chemistry. (1974-1988). Alternate years.

UMASS Boston (Graduate Level) Environmental Geochemistry; Organic Geochemistry; Seminar in Environmental Geochemistry. Spring 1988-Spring 1991.

Dixie State College of Utah. Geology 2990 Introduction to Oceanography. Two sections of a 3 credit elective course for non-science and science majors, January – May, 2007.

GRADUATE STUDENT ADVISEES

Dr. Susan M. Henrichs (Ph.D. 1980, MIT/WHOI Joint Program).

Dr. Bruce J. Brownawell (Ph.D. 1986, MIT/WHOI Joint Program) Co-Advisor with Professor Philip M. Gschwend, MIT.

Dr. Mark A. McCaffrey (Ph.D. 1990, MIT/WHOI Joint Program) Co-Advisor with Dr. Daniel J. Repeta, WHOI.

Dr. Susan E. McGroddy (Ph.D. Environmental Sciences 1993, UMASS-Boston).

Dr. Elizabeth Kujawinski (Ph. D. 2000 MIT/WHOI Joint Program Co-advisor with Dr. James Moffett, WHOI)

Julia Lee (M.S. Chemistry, 1991, UMASS Boston).

Nandini Venkateshan (M.S. Environmental Sciences 1991, UMASS-Boston).

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Mohamed Pauzi Zakaria (M.S. Environmental Sciences, 1992, UMASS-Boston).

POSTDOCTORAL ADVISEES

Dr. Cindy Lee, Postdoctoral Investigator, WHOI. Co-Advisor, Dr. Robert B. Gagosian, WHOI. 1976-77.

Dr. John K. Volkman (Postdoctoral Scholar, WHOI, Co-Advisor, Dr. Robert B. Gagosian, WHOI), 1980

Dr. Paul Doskey (Postdoctoral Scholar, WHOI), 1982.

Dr. Jay Gooch (Surdna Foundation Postdoctoral Scholar, WHOI, co-advisor with Dr. John J. Stegeman, WHOI), 1987-1989.

Dr. Christopher Reddy, Postdoctoral Scholar and Postdoctoral Investigator, WHOI (co-advisor with Dr. Timothy Eglinton and Dr. John Hayes, WHOI), 1998-2000.

(Other Ph.D. Thesis Committees - 11. Other MS. Thesis Committees- 4.)

UNDERGRADUATE EDUCATION ACTIVITIES

Responsible for all WHOI formal and informal undergraduate and K-12 education programs and activities, 1990-2005.

Advisor to ten undergraduate Summer Student Fellows at WHOI. 1973-1995.

RESEARCH CRUISES:

Eighteen oceanographic cruises, eight as Chief Scientist.

DSRV *Alvin* Dive 658, July, 1976.

Numerous one day coastal cruises.

PUBLICATIONS: JOURNALS, BOOK CHAPTERS, PROCEEDINGS VOLUMES

Farrington, J.W. and D.L. Baker (1969). Effect of temperature on the activity of glyceraldehyde-3-phosphate hydrogenase: a comparison of halibut and rabbit enzymes. J. Fish. Res. Bd. Canada, 26: 2517-2521.

Farrington, J.W. and J.G. Quinn (1971). Fatty acid diagenesis in Recent sediments from Narragansett Bay, Rhode Island. Nature Phys. Sci., 230:66-69.

Farrington, J.W. and J.G. Quinn (1971). Comparison of sampling and extraction techniques for fatty acids in Recent sediments. Geochim. Cosmochim. Acta., 35:735-741.

Farrington, J.W. and J.G. Quinn (1973). Biogeochemistry of fatty acids in Recent sediments from Narragansett Bay. Geochim. Cosmochim. Acta., 36:259-268.

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Farrington, J.W., J.G. Quinn and W. Davis (1973). Fatty acids of Nephtys incisa and Yoldia limitula. J. Fish Res. Bd. Canada. 30:181-185.

Farrington, J.W. and J.G. Quinn (1973). Petroleum hydrocarbons in Narragansett Bay. 1. Survey of hydrocarbons in sediments and clams (Mercenaria mercenaria). Est. Coast. Mar. Sci., 1:71-79.

Farrington, J.W. and J. G. Quinn (1973). Petroleum hydrocarbons and fatty acids in wastewater effluents. I. Water Poll. Control Fed., 45: 704-712.

Farrington, J.W., C.S. Giam, G.R. Harvey, P.L. Parker and J.M. Teal (1973). Analytical techniques for selected organic compounds. In: Marine Pollution Monitoring: Strategies for a National Program, E.D. Goldberg, ed., NOAA, U.S. Department of Commerce.

Farrington, J.W., J.M. Teal, J.G. Quinn, T.L. Wade and K.A. Burns (1973). Intercalibration of analyses of recently biosynthesized hydrocarbons and petroleum hydrocarbons in marine lipids. Bull. Envir. Contain. Tox., 10:129-136.

Farrington, J.W. (1974). Some problems associated with the collection of marine samples and analysis of hydrocarbons. In: Proceedings of Conference/Workshop: Marine Environmental Implications of Offshore Drilling Eastern Gulf of Mexico, pp. 269-278.

Farrington, J.W., J.M. Teal, K.A. Burns, J.G. Quinn, T.L. Wade, P.L. Parker and K. Winters (1974). Analyses of hydrocarbons in marine organisms: results of IDOE intercalibration exercises. In: Proceedings International Marine Pollution Monitoring (Petroleum) Symposium and Workshop, May 13-17, 1974. International Oceanographic Commission, the World Meteorological Organization, and the U.S. Department of Commerce. Also, Woods Hole Oceanographic Institution Technical Report No. 7461

Medeiros, G.C. and J.W. Farrington (1974). IDOE-5 intercalibration sample: results of analysis after 16 months storage. In: Proceedings International Marine Pollution Monitoring (Petroleum) Symposium and Workshop, May 13-17, 1974. International Oceanographic Commission, the World Meteorological Organization, and the U.S. Department of Commerce. Also, Woods Hole Oceanographic Institution Technical Report 74-62.

Farrington, J.W. and P.A. Meyers (1975). Hydrocarbons in the marine environment. In: Environmental Chemistry, Chapter 5, Volume 1, G. Eglinton, ed., the Chemical Society, London, U.K.

Farrington, J.W. and G.C. Medeiros (1975). Evaluation of some methods of analyses for petroleum hydrocarbons in marine organisms. In: Proceedings of the 1975 Conference on Prevention and Control of Oil Pollution. American Petroleum Institute, Washington, D.C., pp 115-121.

Farrington, J.W. and B.W. Tripp (1975). A comparison of methods of analysis for hydrocarbons in surface sediments. In: Marine Chemistry in the Coastal Environment., T.M. Church, ed., American Chemical Society Symposium Series No. 18, pp 267-284.

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Spencer, D.W. and J.W. Farrington (1975). Review of marine geochemistry. Reviews Geophys. Space Phys., 13:554-624.

Farrington, J.W. (1975). Oil pollution in the coastal environment. In: Proceedings of Conference on Estuarine Pollution Control and Assessment, Vol. 11, U.S. Environmental Protection Agency, Washington, D.C., pp 385-400.

Farrington, J.W., J.M. Teal and P.L. Parker (1976). Petroleum hydrocarbons, Chapter 1. In: Strategies for Marine Pollution Monitoring, E.D. Goldberg, ed., Wiley Interscience, New York.

Farrington, J.W., J.M. Teal, G.C. Medeiros, K.A. Burns, E.A. Robinson, Jr., J.G. Quinn and T.L. Wade (1976). Intercalibration of gas chromatographic analyses for hydrocarbons in tissues and extracts of marine organisms. Anal.Chem., 48:1711-1715.

Farrington, J.W., S.M. Henrichs and R.F. Anderson (1977). Fatty acids and Pb-210 geochronology of a sediment core from Buzzards Bay, Massachusetts. Geochim. Cosmochim. Acta., 41:289-296.

Lee, C., R.B. Gagosian and J.W. Farrington (1977). Sterol diagenesis in Recent sediments from Buzzards Bay, Massachusetts. Geochim. Cosmochim. Acta., 41:985-992.

Teal, J.M. and J.W. Farrington (1977). A comparison of hydrocarbons in animals and their benthic habitats. Rapp. P-v Reun. Cons. Inst. Explor. Mer., 171:79-83.

Farrington, J.W., N.M. Frew, P.M. Gschwend and B.W. Tripp (1977). Hydrocarbons in cores of northwestern Atlantic coastal and continental margin sediments. Est. Coast. Mar. Sci., 5:793-808.

Farrington, J.W. and B.W. Tripp (1977). Hydrocarbons in Western North Atlantic Surface Sediments. Geochim. Cosmochim. Acta., 41:1627-1641.

Scranton, M.I. and J.W. Farrington (1977). Methane production in the waters off Walvis Bay. J. Geophys. Res., 82:4947-4953.

Hites, R.A., R.E. LaFlamme and J.W. Farrington (1977). Sedimentary polycyclic aromatic hydrocarbons: the historical record. Science. 198:829-831.

Teal, J.M., K.A. Burns and J.W. Farrington (1978). Analyses of aromatic hydrocarbons in intertidal sediments resulting from two spills of No. 2 fuel oil in Buzzards Bay, Massachusetts. J. Fish Res. Bd. Canada, 35:510-520.

Gagosian, R.B. and J.W. Farrington (1978). Sterenes in surface sediments from the southwest African shelf and slope. Geochim. Cosmochim. Acta., 42:1091-1101.

Gagosian, R.B., S.L. Ahmed, J.W. Farrington, R.F. Lee, R.F.C. Mantoura, K.H. Neilson, T.T. Packard and K.L. Reinhart, Jr. (1978). Future research problems in marine organic chemistry. Mar.Chem., 6: 375-382.

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Goldberg, E.D., V.T. Bowen, J.W. Farrington, G.R. Harvey, J.H. Martin, P.L. Parker, R.W. Risebrough, W. Robertson, E. Schneider and E. Gamble (1978). The Mussel Watch. Envir. Conservation. 5:101-125.

Lee, C.L., J.W. Farrington, and R.B. Gagosian (1979). Sterol geochemistry of sediments from the western North Atlantic Ocean and adjacent coastal areas. Geochim. Cosmochim. Acta., 43:35-40.

Henrichs, S.M. and J.W. Farrington (1979). Amino acids in interstitial waters of marine sediments. Nature. 279:319-322.

Gearing, J.N., P.J. Gearing, T.L. Wade, J.G. Quinn, H.B. McCarty, J.W. Farrington and R.F. Lee (1979). The rates of transport and fates of petroleum hydrocarbons in a controlled marine ecosystem and a note on analytical variability. In: Proceedings 1979 Oil Spill Conference, American Petroleum Institute, Washington, D.C., pp 555-564.

Farrington, J.W. (1979). Geochemistry of fossil fuel hydrocarbons in marine sediments: selected aspects. In: Advances in Marine Environmental Research, Proceedings of a Symposium. U.S. EPA, Environmental Research Laboratory, Narragansett, Rhode Island, U.S.A. 02882

Wakeham, S.G. and J.W. Farrington (1980). Hydrocarbons in contemporary aquatic sediments. Chapter 1., In: Contaminants and Sediments, Vol. 1, R.A. Baker, ed., Ann Arbor Science Publishers, Ann Arbor, Michigan.

Farrington, J.W. (1980). An overview of petroleum hydrocarbons in the marine environment. Chapter 1. In: Petroleum in the Marine Environment, Advances in Chemistry Series No. 185, L. Petrakis and F. Weiss, eds., American Chemical Society, Washington, D.C.

Lee, C., R.B. Gagosian and J.W. Farrington (1980). Geochemistry of sterols in sediments from the Black Sea and southwest African shelf and slope. Organic Geochemistry. 2:103-113.

Farrington, J.W., J. Albaiges, K. Burns, B.P. Dunn, P. Eaton, J.L. Laseter, P.L. Parker and S. Wise (1980). Chapter 2. Fossil Fuels. In: Proceedings of the International Mussel Watch Meeting, Barcelona, Spain, December, 1979, National Academy of Sciences, Washington, D.C.

Gagosian, R.B., S.O. Smith, C. Lee, J.W. Farrington and N.M. Frew (1980). Steroid transformations in recent marine sediments. In: Advances in Organic Geochemistry, 1979, A.G. Douglas and J.R. Maxwell, eds., Pergamon Press, pp. 407-419.

Hites, R.A., R.E. LaFlamme, J.G. Windsor, Jr., J.W. Farrington and W.G. Deuser (1980). Polycyclic aromatic hydrocarbons in an anoxic sediment core from the Pettaquamscutt River, Rhode Island, U.S.A. Geochim. Cosmochim. Acta., 44:873-878.

Henrichs, S.M. and J.W. Farrington (1980). Amino acids in interstitial waters of marine sediments: a comparison of results from varied sedimentary environments. In: Advances in Organic Geochemistry, 1979, A.G. Douglas and J.R. Maxwell, eds., Pergamon Press, pp. 435-443.

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Jannasch, H.W., O.C. Zafiriou and J.W. Farrington (1980). A sequencing sediment trap for time-series studies of fragile particles. Limnol. Oceanogr., 25(5):939-943.

Hinga, K.R., R.F. Lee, J.W. Farrington, M.E.Q. Pilson, K. Tjessem and A.C. Davis (1980). Biogeochemistry of benzantracene in an enclosed ecosystem. Environmental Science and Technology, 14:1136-1143.

Wakeham, S.G., J.W. Farrington, R.B. Gagosian, C. Lee, H. DeBaar, G.E. Nigrelli, B.W. Tripp, J.B. Livramento, S.O. Smith and N.M. Frew (1980). Fluxes of organic matter from a sediment trap experiment in the equatorial Atlantic Ocean. Nature. 286:798-800.

Tripp, B.W., J.W. Farrington and J.M. Teal (1981). Unburned coal as a source of hydrocarbons in surface sediments. Marine Pollution Bulletin. 12:122-126.

Farrington, J.W. (1981). Underway measurement of organic matter in seawater: review and prognosis for the future. In: Proceedings, Symposium and Workshop on Water Sampling While Underway, National Academy Press, 1981, pp 65-82.

Farrington, J.W. (1981) Environmental Impacts. In: Report of Workshop in Basic Research in Organic Geochemistry Applied to National Energy Needs, University of South Florida, Department of Marine Science, St. Petersburg, Florida.

Atwood, D.K., J.A. Benjamin and J.W. Farrington (1981). The Mission of the September 1979 Researcher/Pierce IXTOC-I Cruise and the Physical Situation Encountered. In: Proceedings of Symposium on Preliminary Results from the September, 1979 Researcher/Pierce IXTOC-I Cruise. U.S. NOAA, U.S. Department of Commerce, Washington, D.C.

Overton, E.G., L.V. McCarthy, S.W. Mascarella, M.A. Mayberry, S.R. Antoine, J.L. Laseter, and J.W. Farrington (1981). Detailed Chemical Analyses of IXTOC-I Crude Oil and Selected Environmental Samples from the Researcher and Pierce Cruises. In: Proceedings of Symposium on Preliminary Results from the September, 1979 Researcher/Pierce IXTOC-I Cruise. U.S. NOAA, U.S. Department of Commerce, Washington, D.C.

Overton, E.G., J.L. Laseter, W. Mascarella, C. Raschke, I. Nuiry, and J.W. Farrington. Photo-Chemical Oxidation of IXTOC-I Oil. In Proceedings of Symposium on Preliminary Results from the September, 1979 Researcher/Pierce IXTOC-I Cruise. U.S. NOAA, U.S. Department of Commerce, Washington, D.C.

Hatch, W.L., D.W. Allen, P.D. Brady, A.C. Davis, and J.W. Farrington (1981). PCBs in clams (Mercenaria mercenaria) and oysters (Crassostrea virginica) from the New Bedford Harbor, Massachusetts. Pesticide Monitoring Journal. 15:123-127.

Honjo, S., D.W. Spencer, and J.W. Farrington (1982). Deep advective transport of lithogenic particles in Panama Basin. Science, 216:516-518.

Farrington, J.W., A.C. Davis, N.M. Frew, and K.S. Rabin (1982). No. 2 fuel oil compounds in Mytilus edulis: Retention and release after an oil spill. Marine Biology. 66:15-26.

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- Farrington, J.W., B.W. Tripp, J.M. Teal, G. Mille, K. Tjessem, A.C. Davis, J.B. Livramento, N.A. Hayward and N.M. Frew (1982). Biogeochemistry of aromatic hydrocarbons in the benthos of microcosms. Toxicology and Environmental Chemistry, 5:331-346.
- Volkman, J.K., J.W. Farrington, R.B. Gagosian, and S.G. Wakeham (1983). Lipid composition of coastal marine sediments from the Peru upwelling region. In: Advances in Organic Geochemistry, 1981, M. Bjoroy, et al., eds. John Wiley and Sons, London, pp 228-240.
- Wakeham, S.G., J.W. Farrington, and J.K. Volkman (1983). Fatty acids, wax esters, triglycerides, and glyceryl ethers associated with particles collected in sediment traps in the Peru upwelling. In: Advances in Organic Geochemistry, 1982, M. Bjoroy, et al., eds., John Wiley and Sons, London, pp 185-197.
- DeBaar, H.J.W., J.W. Farrington, and S.G. Wakeham (1983). Vertical flux of fatty acids in the North Atlantic Ocean. J. Marine Research. 41:19-41.
- Staresinic, N., J.W. Farrington, R.B. Gagosian, C.H. Clifford and E.M. Hulburt (1983). Downward transport of particulate matter in the Peru coastal upwelling: role of the anchoveta, *Engraulis ringens*. In: NATO Advanced Research Institute on Coastal Upwelling and Its Sediment Record, E. Suess and J. Thiede, eds., pp 225-240.
- Lee, C., S.G. Wakeham, and J.W. Farrington (1983). Variations in the composition of particulate organic matter in a time series sediment trap. Marine Chemistry. 13:181-194.
- Farrington, J.W., E.D. Goldberg, R.W. Risebrough, J.H. Martin, and V.T. Bowen (1983). U.S. "Mussel Watch" 1976-1978. An overview of the trace metal, DDE, PCB, hydrocarbon and artificial radionuclide data. Environmental Science and Technology. 17:490-496.
- Farrington, J.W., J.H. Vandermeulen, and D.G. Good (eds.) (1983). Proceedings of the Conference on Pollution in the North Atlantic Ocean. Canadian Journal of Fisheries and Aquatic Sciences. 40: Supplement 2, 362 pp.
- Galloway, W.B., J.L. Lake, D.K. Phelps, P.F. Rogerson, V.T. Bowen, J.W. Farrington, E.D. Goldberg, J.L. Laseter, G.C. Lawler, J.H. Martin, and R.W. Risebrough (1983). The Mussel Watch: Intercomparison of trace level constituent determinations. Environmental Toxicology and Chemistry., 2:395-410.
- Henrichs, S., and J.W. Farrington (1984). Peru upwelling region sediments near 15°S-I. Remineralization and accumulation of organic matter. Limnology and Oceanography, 29 (1):1-19.
- Henrichs, S.M., J.W. Farrington, and C. Lee (1984). Peru upwelling region sediments near 15°S-II. Dissolved free and total hydrolyzable amino acids. Limnology and Oceanography, 29 (1):20-34.
- Wakeham, S.G., R.B. Gagosian, J.W. Farrington, and E.A. Canuel (1984). Sterenes in suspended particulate matter in the eastern tropical North Pacific. Nature, 308:840-843.

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