

CURRICULUM VITAE

JUDITH S WEIS

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Education:

<u>Institution</u>	<u>City</u>	<u>Dates</u>	<u>Subject</u>
Bronx High School of Science	New York	1954-58	
Cornell University	Ithaca NY	1958-62	Zoology B.A.
Marine Biological Lab.	Woods Hole MA	1961	Marine Ecology
New York University	New York	1962-64	Biology M.S.
New York University	New York	1964-67	Biology Ph.D.

Scholarships and Fellowships

New York State Regents Scholarship	1958-62
Cornell Regents Scholarship	1958-62
National Science Foundation Graduate Fellowship	1962-63
N.S.F. Cooperative Graduate Fellowship	1963-64
N.Y.U. Graduate Faculty Tuition Scholarship	1965-66
N.Y. State College Teaching Fellowship	1966-67
Congressional Science Fellowship, AAAS & ASZ	1983-84

Honors:

Phi Beta Kappa, Phi Kappa Phi, Dean's List, Honors Program, Sigma Xi, N.Y.U. Founder's Day Award, Outstanding Young Women of America, Who's Who in the East, Who's Who of American Women, Supplemental Salary Adjustment Awards, Elected Fellow of AAAS, 1985, Governor's Science Advisory Committee, N.J., President's Council of Cornell Women, Marine Board of the National Research Council 1991, Environmental Award from Accabonac Protection Committee, 1996.

Rutgers Class of 1962 Presidential Public Service Award, 2003-2004,
 Fulbright Senior Specialist - Visit to Indonesia (Hasanuddin University, Makassar, South Sulawesi)
 May 2006

Chancellor's Award for Faculty Community Research 2008

Employment:

<u>Title</u>	<u>Institution</u>	<u>Dates</u>
Lab Assistant	Woods Hole Oceanographic Inst.	Summer 60
Lecturer	Hunter College, NYC	1964-67
Assistant Professor	Rutgers Univ., Newark	1967-71
Associate Professor	Rutgers	1971-76
Professor	Rutgers	1976-

Visiting Scientist	Florida Atlantic Univ.	1975-76
Visiting Scientist	Southampton College NY	Summers '80-99
Congressional Science Fellow	U.S. Senate	1983-84
Associate Dean-Academic Affairs	Rutgers	Jan85 -Jun86
Program Director	National Science Foundation	1988-90
Visiting Scientist	EPA Laboratory, Gulf Breeze FL	1992
Visiting Scientist	EPA Ocean & Coastal Protection	1993

Member of Rutgers Graduate Programs in Biological Sciences, Ecology, Toxicology, Environmental Science

Developer and Coordinator of Science, Technology & Society Program (STS) between Rutgers and NJ Institute of Technology
Curriculum Development for Environmental Science Program

Associate Dean for Academic Affairs: overall responsibility for non-salaried budget and coadjutant hiring, curriculum, space, planning, program evaluations, faculty grievance procedures, acts as Deputy Dean when Dean of Faculty is not available.

Congressional Science Fellow: Legislative Assistant for the Environment and Public Works Committee. Analyzed policy, researched background information and scientific data for decision-making, participated in planning legislation and hearings, met with interested groups, and drafted floor statements. Specific areas: Safe Drinking Water Act, Clean Water Act, acid rain, pesticides, hazardous wastes, toxic substances, biotechnology, ground water.

Program Director, National Science Foundation, Division of Undergraduate Science, Engineering and Mathematics Education: Responsible for undergraduate education efforts in the field of biology and environmental science, including programs for faculty, students, curriculum development, laboratory development, and instrumentation; much program planning and grant administration, coordination with other divisions within NSF, and interaction with scientists in the academic community.

Courses Taught at Rutgers:

General Biology, Animal Ecology & Evolution, Marine Biology, Embryology, Human Sexuality, Environmental Issues, Intro. to Women's Studies, Topics in Science Technology & Society: Toxic Substances. Graduate Courses: Regeneration, Ichthyology, Biology of Pollution, Topics in Marine Ecology.

Service to Rutgers:

Curriculum Committee, Department	1969-70
Delegate Assembly, AAUP	1970-71
Chair, Dept. Seminar Committee	1970-71
Senate ad hoc Committee on the Status of Women	1971-72
Planning Committee, College	1971-72, 76-77

Student Affairs Committee, College	1971-72
Chair, Student Affairs Committee	1972-73
Executive Comm. Zoology Graduate Program	1972-73
Dean's Advisory Committee on Equal Opportunity	1973
Phi Beta Kappa Elections Committee	1973
Director, Graduate Program in Zoology	1973-75
Courses of Study Committee, College	1974-75
Review Committee, College	1977-79
Director, Women's Studies Program	1978-79
College Honors Council	1980-83
Grievance Committee, College	1980-81
Steering Committee, Women in Science Conference	1980-81
Admissions Committee, Graduate School	1980-82
Admissions Committee, Graduate Program	1980-82,93-
Appointments & Promotions Committee, College	1981-82, 2004-05
Chair, Appointments and Promotions Committee	1984-85
Biomedical Research Grants Awards Committee, Univ.	1983
Marine Science Committee, University	1984-87
Search Committee for Director of Marine Science Inst.	1986-87
Secretary, Zoology Section, University	1984-85
Curriculum Committee, College	1986-87
Search Committee for Women's Studies Director	1987-88
University Industrial Hygiene and Toxicology Comm.	1990-91
University Biosafety Committee	1993-
Provost's Committee on Athletics and Recreation	1995-96
Departmental Search Committee s	1996,97,98,02
Advisory Committee for Water Resources Research Inst.	1997-
Advisory Committee to Center for Urban Restoration Ecology (CURE)	2000-
University Senate	2003-2004

Professional Societies:

American Society of Zoologists (ASZ) (SICB), Estuarine Research Federation (ERF), American Inst. of Biological Sciences (AIBS), Association for Women in Science (AWIS), American Fisheries Soc. (AFS), Ecological Society of America (ESA), Society of Environmental Toxicology & Chemistry (SETAC), American Association for the Advancement of Science (AAAS)

Professional Society Activities:

Public Affairs Committee, Amer. Soc. of Zoologists	1980-82,84-90
Chair, Public Affairs Comm. ASZ	1986-88,90-91
Equal Opportunity Committee, ASZ	1983-85
Congressional Fellow Comm. ASZ	1985-90
ASZ Delegate to AIBS Council	1983, 89-
Awards Committee, Amer. Fisheries Soc.	1975-76
Certification Committee, AFS	1980-81

Environmental Concerns Comm., AFS	1982-83
Chair, Equal Opportunity Comm. AFS	1982-83
Public Responsibilities Comm. AIBS	1984-92
Congressional Fellow Comm. AIBS	1984-91
Chair, Congression Fellow Comm., AIBS	1991
Governing Board, AIBS	1986-88,90-92, 1997-99
Chair, Awards Committee, AIBS	1998
AIBS Delegate to Agric. Biotech. Research Advisory Comm.	1988-90
Chair, Technical Review Comm. SETAC Chapter	1985,86
Government Affairs Comm. SETAC	1985-92
Education Committee, SETAC	1986-92
Governing Board, SETAC	1990-1993
Co-chair, Society Relations Comm. SETAC	1991-95
Publications Committee, SETAC	1992-95
Awards Comm. NJ Academy of Sciences	1985
Public Affairs Committee, Ecological Society	1987-93, 94-97
Ad Hoc Committee on Women & Minorities, E.S.A.	1989-92
Committee on Women & Minorities, AIBS	1991-94
Member-at-Large, Biology Section Committee, AAAS	1992-96
Chair-Elect, Chair, and past chair Biology Section AAAS	1998-2001
Chair, Awards Committee AIBS	1998
President-Elect, President, and past President AIBS	2000-2003
Councillor (Board Member) Assoc. for Women in Science (AWIS)	2003-06
Chair, Communications Committee, AIBS	2003
Human Resources Committee, AIBS	2005

Society Meeting Presentations:

NJ Academy of Sciences 1969, 78, 81
 Amer. Soc. of Zoologists 1968,71,78,79 (session chair),80,82,95
 Amer. Assoc. of Anatomists 1969, 77, 78, 81, 82
 Atlantic Estuarine Research Soc. 1976, 81, 82
 Estuarine Research Federation 1983, 85, 87, 89, 91, 93,95,97,99,03
 Soc. of Environ. Toxic. & Chem 1981, 83-01
 Ecological Society of America 1992, 93, 98, 05
 Natl. Assoc. for Science, Technology & Society 1989, 90
 Coastal Society 1992
 Shallow Water Conference 1994-6
 Wetlands Regulatory Workshop 2000

Seminars Presented:

Dept. of Biology, N.Y.U. 1974.
 Dept. of Anatomy, N.Y. Medical College, 1974.
 Dept. of Biological Sciences, Florida Atlantic U. 1976.
 Harbor Branch Foundation, Ft. Pierce, FL 1976.
 New York Ocean Sciences Lab, Montak 1976.
 Chesapeake Biol. Lab, Solomons MD 1977.
 U.S. E.P.A. Narragansett R.I. 1978.

Dept. of Biology, Seton Hall Univ. 1980.
 Marine Science Research Center SUNY Stony Brook 1980.
 Biology Dept., Hofstra Univ. 1981.
 Biology Dept. Ramapo College 1981.
 Biology Dept. CCNY 1982.
 Biology Dept., Ohio Univ., Athens 1982.
 Biology Dept., Rutgers New Brunswick 1982.
 Biology Dept. Rutgers Camden 1983.
 Natl. Oceanic & Atmospheric Admin. Seattle 1983.
 Natl. Bureau of Oceanography, Beijing China 1983.
 Dalian Inst. of Environmental Protection, Dalian China 1983.
 Second Inst. of Oceanography, Hangzhou China 1983.
 South China Sea Inst. of Oceanography Guangzhou China 1983.
 Honors Program Colloquium, Rutgers 1983.
 Chesapeake Biological Lab. Solomons MD 1983.
 U.S. E.P.A. Washington DC 1983.
 Dept. of Biology, Georgetown Univ. 1984.
 Dept. of Biology, George Washington Univ. 1984.
 N.I.H. Graduate Course in Environmental Toxicology 1984-93.
 Dept. of Ecology & Evolution SUNY Stony Brook 1984.
 Women in Science & Engineering EPA Chapter 1984.
 Dept. of Zoology, Rutgers 1984.
 Marine Science Dept., Univ. Connecticut 1984.
 Environmental Biology & Public Policy Prog., George Mason U. 1985
 Dept. of Ecology & Behavioral Biology, U. Minnesota 1985.
 Assoc. of Women in Science, Minneapolis Chapter 1985.
 Biology Dept., York College CUNY 1985.
 Center for Coastal & Environ. Studies, Rutgers, 1986.
 Biology Dept. Fairleigh Dickinson Univ. 1986.
 Environmental Science Program, N.J.I.T. 1987.
 DuPont Corp. Wilmington 1987.
 Toxicology Program Rutgers
 U.S. E.P.A. Region III Phila. 1988.
 Bergen County Wildlife Center 1988
 Council of Botany/Plant Science Chairs, Purdue 1988.
 Natl. Assoc. of Biology Teachers, Chicago 1988.
 Univ. of Kentucky, Biology Dept. 1988, 89.
 ENVIRON Corp Washington DC 1989.
 Cornell University Environmental Toxicology Program 1989.
 U.S. E.P.A. Ecological Research Needs Workshop 1989.
 Dept. of Zoology, Univ. of Wisconsin 1990.
 A.I.B.S. Council 1990.
 Dept. of Bioscience, Drexel Univ. 1990.
 Dept. of Environmental Science, Cook College 1990.
 Dept. of Biology, Univ. of Mississippi 1990.
 Savannah River Ecology Lab 1991.
 SUNY Stony Brook Marine Sciences Research Center 1991.

SUNY College of Environmental Science & Forestry 1991.
 SUNY Buffalo 1991.
 Cornell U. 1991.
 Univ. of Delaware Marine Lab 1991.
 US EPA Gulf Breeze 1992.
 Barnard College, NY, 1992.
 Gulf Coast Research Lab, MS, 1992
 Dauphin Island Marine Lab, AL, 1992
 Biology Dept. George Mason Univ. VA , 1992
 Ecology Program, Rutgers 1993
 US EPA, Washington 1993
 Rider College, 1993
 University of Illinois 1993
 University of Massachusetts, 1995
 Essex County College 1995
 Smithsonian Environmental Research Center 1996
 Haskin Shellfish Lab., Rutgers 1996
 Passaic County College, 1997
 Ecology & Evolution Program, Rutgers New Brunswick 1999
 US EPA, Research Triangle Park, NC 1999
 Biosphere2, (Columbia Univ.) Arizona, 1999
 Wetlands Institute, Stone Harbor NJ 2000
 Connecticut College 2000
 U. California, Davis, Environmental Toxicology Program 2001
 U. California Davis – Bodega Marine Lab 2001
 City College, CUNY 2001
 Delaware Center for Inland Bays 2001
 Operation Wallacea, Hoga Indonesia 2002
 US EPA Pesticides Office 2002
 NOAA Sandy Hook Laboratory 2003
 Wilkes College 2003 (Annual Grace Kimball Memorial speaker)
 JP Morgan-Chase Lincoln/Douglass Debates – Symposium speaker 2003
 NJIT Environmental Science Program 2004
 Sandy Hook Assoc. for Research & Education – Benthic Workshop 2004
 Fairleigh Dickenson Univ. Biology Department 2004
 Meadowlands Environmental Research Inst. May 2005
 Life Sciences Department, Louisiana State Univ. March 2006
 Hasanuddin Univ., Makassar, South Sulawesi, Indonesia May 2006
 Sam Ratulangi Univ. Manado, North Sulawesi, June 2006
 NJIT Dept. of Environmental Science, March 2008
 Columbia Univ. Population Biology Seminar April 2008
 Woods Hole Oceanographic Inst. May 2008
 NOAA Laboratory, Sandy Hook NJ April 2009
 Dept. of Biology, Fairleigh Dickinson University Sept. 2009
 NOAA and EPA Offices in New York City Oct. 2009
 Hudson River Foundation Nov. 2009
 Montclair State University Dec. 2009

Participation in Conferences:

New Alternatives for Women Science Graduate Students. NSF and Univ. of Arizona 1977.
 Symposium on Environmental Pollutants, Univ. of CT and Natl. Research Council. Storrs CT 1977
 Energy and Environmental Stress in Aquatic Ecosystems. Savannah River Ecology Lab, Augusta 1977.
 Pollution & Physiology of Marine Organisms. Belle Baruch Inst & Natl. Marine Fish. Serv., S. Carolina 1977.
 Panel of Women Scientists for Rutgers U. Training inst. for sex desegregation 1978.
 Symposium on early life history of fishes. Int. Council for Exploration of the seas. Woods Hole MA 1979.
 Estuarine Research Federation, Jekyll Is. GA 1979,
 Fifth Aquatic Toxicology Symp. ASTM, 1979 (paper won award).
 Water Conference, Ramapo College 1980
 Pollution & Physiology of Marine Organisms, S. Carolina 1981
 Heavy Metals in the NJ Environment. NJ Acad. Sciences 1982
 Meaningful Measures of Marine Pollutant Effects NOAA, Pensacola FL 1982.
 Fourth Internatl. Ocean Disposal Symp. Plymouth UK 1983.
 AAAS Symp. of Heavy Metals and Aquatic Organisms, Detroit 1983.
 Chair of "Contaminant Burdens and Indicator species health," 2nd Northeast Monitoring Program workshop NOAA 1983.
 Pollution & Physiology of Marine Organisms, Mystic CT 1983
 Workshop of National marine pollution research and monitoring issues, NOAA, Easton MD 1984.
 Fifth Internatl. Ocean Disposal Symp, Corvallis OR 1984.
 Amer. Soc. Zoologists panel on "Political influence and science policy." Baltimore MD 1985.
 Gordon Research Conference on Chemical-biological interactions in estuaries, Plymouth NH. 1986.
 Speaker and session chair.
 EPA Workshop on finfish as indicators of toxic contamination. Airlie, VA 1986.
 Batelle Workshop on Alternate approaches to toxicity testing: utility of non-mammalian organisms. Columbus OH 1986.
 International Organotin Symposium, Halifax NS 1987.
 Discussion Leader, "Environmental Gridlock" Conf. NJ 1988
 EPA Workshop on Ecological Research Needs, Seattle WA 1989
 Natl. Assoc. of State Univ. and Land Grant Colleges, Wash. DC, 1989. Urban impacts on coastal water quality.
 Panel on "Science Literacy," ASZ Boston, MA 1989
 Panel on "Biologists as Activists," ASZ Boston MA 1989
 Panel on "Empowering Women in a Technological World." Technological Literacy Conference. Wash DC Feb 1990.
 Workshop on "Sediment Genotoxicity," U.S. Army Engineer Waterways Experiment Station, Vicksburg Mar. 1990.
 Roundtable on Environmental Internships, Philadelphia Mar. 1990
 International Conference on "Metals in Soils, Waters, Plants and Animals" Orlando FL 1990.
 Conference on Undergraduate Biology Curricula, Butler Univ., Indianapolis IN, July 1990.
 Conf. on Marine and Estuarine Diseases, Pensacola FL, Oct. 1990
 Conference on Environmental Science Programs, Guelph Ontario, Nov. 1990.
 Workshop on Whole Animal Toxicity Testing, Wash. D.C. Nov. 1990

Chesapeake Research Consortium

Discussant in "The Compleat Crab" Symposium, ASZ San Antonio 1990
 Panel on "Science Policy for Women in Science: Lessons from historical and contemporary case studies." AAAS, Washington 1991.
 Panel Discussion on Scientific Misconduct, AAUP 1991
 Panel on Protecting Long Island's Estuaries, Southampton 1991
 Symposium "Ecology Education for Undergraduates: Current Perspectives and Future Directions" Ecological Soc. of Amer., 1991
 Conference on Environmental Values and the Liberal Arts College, Moorhead, MN, Oct. 1991.
 Coastal Wetland Ecology and Management Symposium, New Orleans LA, 1991
 Conference for Women Graduate Students on "Science Careers in the 1990's." AWIS, N.Y.C. 1991.
 National Conference on the National Institutes for the Environment, Washington D.C. May 1992.
 Sigma Xi University Colloquium on Environmental Research & Education, Raleigh, N.C. Sept. 1992.
 Forest Products Society meeting on "Environmental Considerations in the use of Pressure Treated Wood Products," May 1993.
 Strategic Planning Workshop for Women and Minorities - ESA, June 93.
 "Pellston Workshop" on Sustainable Environmental Management Aug 93
 Science and Management in Marine & Estuarine Shallow Water Environments, US EPA and others March 1994, April 1995
 "Unusual Low Dose Responses" session at Society of Toxicology, March, 1994.
 "Critical Issues in Assessing Ecological Risk" California EPA Jan. 1995
 International Larval Fish Conference, Sydney, Australia, June 1995
 Fisheries and Pollution - Population-level effects of Marine Contamination. Baltimore MD Oct. 1995
 NSF Women and Science Conference, Dec. 1995
 "Endocrine Disruption by Chemicals" EPA Workshop, May 1996
 Atlantic Coast Fishery Managers' Habitat Workshop, June 1996
 Fisheries and Pollution Conference, Bodega Bay, CA Nov. 1996
 European Union, Chemical Toxicology Workshop, Italy, May 1999
 Mercury as a Global Pollutant, Rio de Janeiro, May 1999
 Pellston Workshop on Complex Stressors in Ecosystems SETAC, Sept. 1999
 Wetland Symposium, Univ. of Mississippi May 2000
 National Conference on Science, Policy and The Environment, Washington DC Dec. 2000
 Chair of breakout session on Environmental Indicators
Phragmites: A sheep in wolf's clothing? Cumberland County Coll. NJ Jan. 2002
 Strategic Planning Workshop, USGS Fish Health Research Lab., WV. Feb. 2002
 Workshop on Overwater Structures and Treated Wood. US Fish and Wildlife, Olympia WA 2002
 Our Hudson Home - Liberty Science Center, Jersey City Dec. 2002
 Newark Bay – Raritan Bay – Sandy Hook Workshop 2003
 Workshop on Grass Shrimp as an Estuarine Indicator NOAA May 2003
 Environmental Impacts of Pressure-Treated Wood, Orlando FL Feb. 2004
 6th International Congress on the Biology of Fishes, Manaus Brazil Aug. 2004
 Ecological Society of America Aug 2005
 Invited Speaker – Women Evolving Biological Sciences, U. Washington Oct. 2008
 Invited Keynote Speaker – World Oceans Congress, Manado Indonesia May 2009

External Grants

Effects of methylmercury on development: its interactions with natural environmental factors and other heavy metals.

NOAA Office of Sea Grant, 1977-79

Professional and related services relative to establishment of a statewide listing of bioassay organisms.

NJ Dept. of Environmental Protection 1977-78.

A comprehensive monitoring and assessment program for selected heavy metals and organic contaminants in NJ aquatic fauna.

NJ Dept. of Environmental Protection via NJ Marine Science Consortium 1978-79.

Tolerance to methylmercury in Newark Bay area killifish, Fundulus heteroclitus.

NOAA Office of Sea Grant 1980-83.

Monitoring effects of pollution on regeneration and ecdysis in Cancroid crabs.

NOAA Ocean Pulse Program. 1982

Effects of environmental factors on methylation and release of mercury from Berrys Creek sediments and its uptake by killifish (Fundulus heteroclitus).

NJ Dept. of Environmental Protection 1982-83.

Cadmium tolerance in the killifish Fundulus heteroclitus.

NIH Minority Biomed. Research Support (Assoc. Inv.) 1984-87

Chemical-Biological interactions between fish and treated municipal waste water. (co-P.I.)

NOAA Office of Sea Grant 1986-89.

Effects of diflubenzuron on the fiddler crab, Uca pugnator.

NJ Dept. of Environmental Protection 1986-87

Development of Science, Technology & Society (STS) Courses

NJ Dept. of Higher Education 1986-87 and 87-88.

Development of the STS Faculty at Rutgers Newark and N.J.I.T.

NJ Dept. of Higher Education 1986-87 and 87-88.

Effects of tributyltin (TBT) on the mummichog, Fundulus heteroclitus.

N.J. Marine Sciences Consortium 1987-88.

Effects of heavy metal pollutants on feeding behavior of Fundulus heteroclitus.

NJ Marine Sciences Consortium 1987-88.

Effects of tributyltin on the mummichog, Fundulus heteroclitus.

NIH Minority Biomed. Research Support (Assoc. Inv) 1987-90

A Lectureship on A.I.D.S.

G.T.E. Lectureship on Science, Technology & Values 1988-89

Effects of mercury on burrowing behavior of the fiddler crabs Uca pugnax and U. minax and their effect on the marsh ecosystem.

NJ Marine Sciences Consortium 1988-89.

Effects of mercury on the predator-prey relationship between Fundulus heteroclitus and Palaemonetes pugio.

NJ Marine Science Consortium 1988-89.

Effects of the Arthur Kill oil spill on behavior, regeneration, and molting in fiddler crabs.

NJ Mar. Sci. Consort. 1990-91.

Biological assays of chromium copper arsenate-treated wood and its recycled plastic alternative in marine organisms.

Plastics Recycling Foundation 1990-91

Biological assays of treated wood and its recycled plastic alternative.

NOAA Sea Grant 1990-91
 A Workshop in Undergraduate Environmental Science Education.
 Educational Foundation of America, Shell Oil Foundation, and EPA, 1991.
 Impacts of CCA Pressure-treated wood structures in estuaries.
 US Geological Survey, Water Resources Prog. 1991-92, 92-93
 Effects of CCA wood structures in estuaries. NOAA Sea Grant 1992-3
 Coastal Environment and Pressure-Treated Wood.
 PADI Fndn. 1993-4
 Effects of CCA wood on estuarine benthos
 NJ Sea Grant 1994
 Benthic Impacts of wood treated with chromated copper arsenate (CCA) in Estuaries.
 NOAA National Estuarine Research Reserves System, 1994-95
 Bioavailability and benthic effects of chemicals leached from pressure-treated wood in estuaries.
 U.S.D.A. 1994-96 (co- P.I.)
 Impacts of CCA Pressure-treated wood structures in Chesapeake Bay.
 MD and VA Sea Grant Toxics Program, 1995-97
 Trophic transfer of contaminants from organisms attached to chromated copper arsenate treated wood to their consumers: a field study.
 NOAA Sea Grant (NJ Sea Grant Program) 1996-97
 Effects of CCA wood docks and boating activity on shellfish in NJ waters.
 NJ Department of Environmental Protection 1996-97.
 Fish as a model system for behavioral teratology.
 NIH Minority Biomedical Research Support Program 1995-99
 Pollution and predator/prey interactions in estuaries.
 USGS Water Resources Research Program 1996-99
 Wetland plants' roles in uptake and transport of heavy metals and remediation.
 NSF 1998-2001
 ROA Supplement to the above grant 2000
 Meadowlands Environmental Research Institute.
 Hackensack Meadowlands Development Commission. 1998-2003 P.I. N Adams.
 Habitat and nutritional value of the invasive marsh plant Phragmites australis for estuarine animals, as compared with that of Spartina alterniflora.
 USGS Water Resources Research Program 1999-2000
 Effects of CCA treated wood walkways on salt marshes.
 Delaware Center for Inland Bays 2001
 Saltmarsh Biocomplexity Incubation Grant (co-I) NSF 2001-2002. M Levandowsky, PI.
 Eight Day Swamp: Assessment of metal contamination and benthic biodiversity. P. Weis, PI
 MERI 2001-2003
 Diet and Reproductive Health of White Perch in the Meadowlands. MERI 2002-2004
 Fish use of intertidal areas in the Wakatobi Marine Park, Indonesia Operation Wallacea 2002
 Behaviour of different fiddler crab species in Wakatobi Marine Park. Operation Wallacea 2002
 Effects of trophic transfer of contaminants in young-of-the-year bluefish. NOAA 2003-2005
 Effects of extremely high levels of gill parasites on killifish. Meadowlands Env. Research Inst. 2005-2006
 Trophic transfer of contaminants and mechanisms of behavioral effects on juvenile bluefish from the Hackensack River. MERI 2006-2007
 Behavior of blue crabs in contaminated environments. MERI 2007-08

Soil Metals and Plant Communities at Liberty State Park, NJ Dept. Environmental Protection
2007-2008

Wetlands and Water Quality Assessment – MERI 2007-2008

Growth of Blue Crabs in the Hackensack Meadowlands – MERI 2008-2009

RUF AIR Professorship: Advancing Women in Science at Rutgers-Newark. Newark component of
NSF Advance Grant to Rutgers University 2009-2011

Behavior of fiddler crabs in the Meadowlands MERI 2009-2010

Review Panels:

Panel for NSF Graduate Fellowships	1976,77, 03,05,06
Chair, Panel for NSF Graduate Fellowships	1978,79,82
EPA Environmental Biology Grant Review Panel	1984-90
EPA Water Ecology Centers Program Review Panel	1991
NOAA Sea Grant Site Visit Review for Mass.	1986
EPA Distinguished Visiting Scientist review panel	1987,88
EPA EMAP Ecological Indicators Award review panel	1993
EPA Peer Reviewer for Ecological Risk Assessment	1990
EPA Peer Reviewer for Gulf Breeze Laboratory	1990
NSF Faculty Enhancement Program	1991
NSF Instrumentation and Laboratory Improvement	1992
NIH Minority Biomedical Res. Support, TN State	1992
EPA Science Advisory Board Committee to review papers or Scientific & Tech. Achievement Awards	1993-2002
EPA SAB Subcommittee on Sediment Toxicity	1993
Advisory Committee to Superfund Project of Minority Health Professions, Assoc. Toxic Substances Disease Registry	1992-98
1993-NASA Panel- Grad. Student Fellowships on Global Change	1993
EPA Peer Review for EMAP/ University Partnership Agreement	1994
NOAA Peer Review of Coastal Ocean Program Proposals.	1994
NOAA Sea Grant Review Panel for Nonindigenous Species	1997
NRC/Ford Foundation Predoct. Minority Fellowships	1996,97
Endocrine Disruptors Screening and Testing Advisory Committee to EPA	1996-98
Workshop on developing Biological Field Station, U. Mississippi	1997
National Sea Grant Review Panel, NOAA	1998-2009
National Review Panel- Project on Economic Evaluation of Ocean Sector	1999-2000
AAAS/Canon Graduate Fellowships for Research in National Parks	1999
EPA “Star” Graduate Fellowship Review Panel	2000-07
EPA Reviewer for Alabama Center for Estuarine Studies	2004
EPA SAB Committee on Aquatic Life Criteria	2005
EPA Air Quality Criteria Development for Pb – Ecological Effects	2005
EPA SAB Committee: Review of “State of the Environment 2007”	2007
NIH SCORE Research Review	2008
EPA SAB Committee Review of “State of the Environment 2011”	2009-
Pew Trust Review of Aquaculture Indicators	2009
Fulbright Senior Specialists Fellowship Review Panel	2009

Reviewing:

Manuscripts for Estuaries	1978,79,93,94,96, 97, 09
Manuscripts for Florida Scientist	1978
Ms. for <u>Biological Monitoring of Marine Pollutants</u>	1980
Ms. for Marine Ecology Progress Series	1983, 2004, 2009
Ms for Marine Pollution Bulletin	2005, 2008
Ms. for Arch. Environ. Contam. Toxicol.	1983,86,87,88,89,92,94,97
Ms. for ASTM Aquatic Toxicology Symposium	1985
Ms. for U.S. Office of Technology Assessment	1985,86,87
Ms. for Journal of Crustacean Biology	1986,93,94,97,98
Ms. for <u>Marine Pollution and Physiology</u>	1986
Ms. for J. Experimental Zoology	1987,88,89,02
INFORM Report on Toxic Pollution in the Hudson River	1987
Ms for Ecological Applications	2001
Ms. for BioScience	1988,89,04,06
Ms. for Environmental Toxicology & Chemistry	1988,92,94,96,97,98,99,02,03,04,05
Ms. for Neurotoxicology and Teratology	1990,93
Ms. for Marine Biology	1990, 97,02, 07
Ms for Environmental Research	1994,95,98,01
Ms for Comparative Biochem. & Physiology	1997, 04, 08
Ms for J. Exper. Marine Biol. Ecol.	1997,98,99,00,02
Ms for J. Fish Biol.	1998, 04,05
Ms for Marine Environmental Research	1991,98,06
Ms for Marine Ecology Progress Series	2008
Ms for The Environmental Professional	1991
Ms for Critical Reviews in Toxicology	1992
Ms for Science, Technology & Human Values	1992
Ms for Environmental Health Perspectives	1994, 95,2000,05,08
Ms for Estuarine, Coastal Shelf Science	1997,04, 09
Ms for Science of the Total Environment	2002,2004
Ms for Amer. Soc. Testing and Materials	1998
Ms for J. Toxicology and Environmental Health	2000
Ms for Environmental Biology of Fishes	2000, 2002,04, 05
Ms for Transactions of the American Fisheries Society	2000, 2001,2004
Ms for Restoration Ecology	2000
Ms for Wetland Ecology and Management	2002
Ms for Pharmacology Biochemistry and Behavior	2001
Ms for Environ. Sci. Tech.	2001, 03, 04, 05
Ms for Water, Air and Soil Pollution	2002
Ms for J. of Soil and Water Conservation	2005
Ms for Aquatic Toxicology	2002,03,04,05,06
Ms for Environmental Management	2003, 05
Ms for New Zealand J. of Marine & Freshwater Res.	2003
Ms for Proc. Nat. Acad. Sci.	2003
Ms for Comparative Biochem. Physiol.	2003,06
Ms for J. Shellfish Res.	2004

Ms for Ecological Restoration	2004
Ms for Ecotox & Environmental Safety	2004,05,06,07
Ms for J. Aquatic Animal Health	2004
Ms for Environment International	2004
Ms for Chemosphere	2005,06
Ms for Environmental Pollution	2005
Ms for J. Environ. Qual.	2005
Ms for Estuaries and Coasts	2007
Ms for North Amer. J. Aquaculture	2007
Ms for Oikos	2008
Ms for Marine Ecology	2009
Book, <u>Biosphere</u> , for Rutgers Univ. Press	1990
Book, <u>Biogeochemical Cycles</u> , for Acad. Press	1990
Book, <u>Modern Biology</u> , for Holt Rinehart & Winston	1996
Chapter in book, <u>Biogeochemistry and Environmental Change</u> for American Chemical Society	1991
Grants for NOAA Sea Grant	1978,80,85,86,99
Grants for NSF Applied Biology	1980
Grants for NSF Biotic Systems & Resources	1982,86,87,88
Grant for NSF Ecological Physiology	1994,95,04
Grants for NSF Ecology	2000,02,03
Grant for NSF Behavior	2005, 06
Grants for NSF/EPA Water & Watersheds	1997
Grants for NSF Polar Programs	2005, 06
Grant for NSF Hydrology	2006
Grant for NSF International Programs	2009
Grants for AWIS Educational Foundation	1983-
Grants for Grad. Women in Science	2002
Grants for US Geological Survey	1985-86,94
Grants for US Dept. of Energy	1985,88
Grants for CUNY Research Foundation	1986,96,99,00
Grant for Great Lakes Research Consortium	1991
Grants for EPA EPSCoR Program	1993
Grant for Hudson River Foundation	1994, 99, 05
Grant for Wisconsin Sea Grant	1994,95
Grant for Natl. Environ. Res. Council, UK	1996
Grant for NOAA Fisheries S-K Program	1996
Grant for Maryland Sea Grant	1997
Grant for NC Sea Grant	2000
Grant for Long Island Sound program	2000
Grant for NOAA Coastal Ocean Program	2000
Grant from Natl. Res.Council Collaboration on Basic Science & Engin.	2000
Grant for NOAA ECOHAB Program	2001
Grant for Educational Foundation of America	2001
Grants from CALFED	2002
Grants for Coastal Response Research Center UNH	2004
Grant for NSF	2004,2005, 2009

Grant for US Civilian Research and Development Foundation	2005
Grant for Amherst College Faculty Research Program	2006
Grant for NSERC – Canada National Science & Engineering Research Council	2008
EPA Document on release of genetically engineered organisms	1989
EPA documents on algal toxicity testing	1986,89
EPA Risk Assessment for Land Application of Pulp and Paper Mill Sludge	1991
EPA Criteria for Utilization of Municipal Waste Combustion Residues in Concrete Medium Marine Applications	1992
EPA Aquatic Life Criteria for Acrolein	2008
Proposals for symposia for AAAS Meeting,	1996,97,98,99
EPA Graduate Fellowships	1996
Great Lakes Ballast Technology Demonstration Proj.	1996
EPA Biocriteria for Estuaries	1998
Proctor and Gamble	1982
National Wildlife Federation re marine pollution	1982
SUNY Stony Brook re sex equity	1984
EPA Office of Policy, Planning & Evaluation	1984-85
Evaluator, Biology Dept. Millersville U. PA	1985
Environmental Defense Fund re tributyltin paint	1986
Environmental Defense Fund re pesticides in groundwater	1988
NY Academy of Sciences - NY Bight Initiative	1987
Evaluator, Biology Dept. West. Connecticut State Univ.	1988
Evaluator, Biology Program, Southern Illinois Univ.	1989
Natl Resources Defense Council - sewage effluent toxicity	1990
Evaluator, Envir. Science Prog. U. Maine, Machias	1991
Science Advisory Committee to NYC DEP re Pelham landfill	1991-93
Evaluator, Envir. Science Prog. Mid Tennessee State U.	1992, 1997
Evaluator, Savannah River Ecology Lab, U. Georgia	1992
Evaluator, Biology Dept., Slippery Rock State U. PA	1992
Evaluator, Environmental Studies Prog., U.N.C. Asheville	1995
Site visitor, NSF Educational Programs, Northern AZ Univ.	1995
Reviewer of California Sea Grant Program	1998
Biosphere2 - Columbia University	1999
South Florida Water Management District on Everglades Restoration Plan	1999
Reviewer of Virginia Sea Grant Program	1999
Reviewer of Ohio Sea Grant Program	2000
Battelle, for their Endocrine Disruptor screening program	2001
Reviewer of Puerto Rico Sea Grant Program	2001
The VSA Group, Env. Consultants	2003
Reviewer of Univ. New Hampshire Sea Grant Prog.	2003
Reviewer of Hawaii Sea Grant Program	2003
Reviewer of Texas Sea Grant Program	2004
Reviewer of Florida Sea Grant Program	2005
Reviewer of Puerto Rico Sea Grant Program	2006
Review Committee for Canada DFO Aquaculture Chemicals Document	2009

Meeting Organization:

The N.Y. Bight and its estuarine ecosystems: state of health. AAAS Meeting, N.Y.C. 1984
 Pollution Tolerance: who, what, where, when, and how. AAAS Meeting, N.Y.C. 1984
 Annual Meeting Co-Chair, SETAC Hudson-Delaware Chapter
 Hazardous Wastes, Environmental Effects & Management 1985
 New Perspectives in Water Quality, 1986
 Pollution and Physiology of Marine Organisms, S.C. Planned and chaired session on "Relevance of physiological effects data to setting of Water Quality Criteria," 1985
 Organizer of Panel Discussion at A.S.Z. on "Research Funding in the Age of Gramm-Rudman" Nashville TN, 1986.
 Organizer of Panel Discussion at A.S.Z. on "Animal Use Issues and Zoological Research" New Orleans LA, 1987.
 Planning Committee for Conference "The Biotechnology Explosion: Controversies for the Future." NJ, 1988.
 Organizer of Panel Discussion at ASZ on "Biologists and the Media" San Antonio TX, 1990.
 Workshop Organizer - "Undergraduate Environmental Science Programs." AIBS Meeting, San Antonio 1991
 Pollution, Habitat and Marine Conservation Biology - Soc. for Conservation Biology, 1997, Victoria B.C.
 Alien Invasions!: Impacts and control of non-indigenous species - AAAS 1999
 Exotic/Invasive Wetland Species. Estuarine Research Federation, 1999
 The Art and Science of Wetland Restoration AAAS Washington DC 2000
 Evolution: Understanding Life on Earth AIBS Washington DC 2002
 Sea Grant Activities in Ecosystem Based Management – International Marine Conservation Conference, Fairfax VA 2009
 Sea Grant Focus on Sustainable Coastal Ecosystems: Restoration Coastal & Estuarine Research Federation. Nov. 2009 Portland OR

Editing:

Associate Editor, Transactions Amer. Fisheries Society 1979-81
 Book Review Editor, BioScience 1984-95
 Editorial Board, Bulletin of Environmental Contamination and Toxicology 1991-97
 Editorial Board, Fish and Fisheries Res. (on-line) 1996
 Associate Editor, Bull. Environ. Contam. Toxicol 1997-
 Guest Editor, Northeastern Naturalist 1999
 Editorial Board, BioScience 2003-
 Ecology Editor, Ecology of Earth (on line) 2006-
 Assoc. Editor, Journal of Marine Biology 2008-

Theses Written Under my Direction:

Teratogenic effects of the insecticides DDT, carbaryl, malathion and parathion on developing medaka eggs (*Oryzias latipes*). Howard Mark Solomon 1977 Ph.D.
 Environmental effects on growth and fin regeneration in Poeciliid fishes. Edmund John Zimmerer 1980 Ph.D.
 The life history and ecology of the eastern mudminnow (*Umbra pygmaea*) with notes on ecological and zoogeographic relationships to the central mudminnow (*Umbra limi*).
 Frank Michael Panek 1981 Ph.D.
 Comparative embryonic methylmercury susceptibility and reproductive biology in two populations

- of mummichog (*Fundulus heteroclitus*). Margarete Ann Heber 1981 M.S.
- Differences in regeneration rate and response to methylmercury in fiddler crabs, *Uca pugnax*, from a polluted vs non-polluted environment. Patrick F. Callahan 1982 M.S.
- Effects of polluted water and methylmercury on fin regeneration and swimming stamina of killifish (*Fundulus heteroclitus*): A comparison of two populations. Mark S. Renna 1982 M.S.
- Factors and mechanisms affecting the toxicity of methylmercury to the killifish, *Fundulus heteroclitus*. Swati Vaidya Toppin 1985 Ph.D.
- Differences in tolerance to mercury between two populations of grass shrimp, *Palaemonetes pugio*. Mark L. Kraus 1986 Ph.D.
- Effects of mercury on fertilization success of sperm and eggs of two populations of killifish, *Fundulus heteroclitus*. Abu T. Khan 1987 Ph.D.
- The relative effects of tidal currents, seston, and bottom sediments on individual growth of *Mercenaria mercenaria*, an infaunal suspension-feeding bivalve mollusc. Raymond E. Grizzle 1988 Ph.D.
- Biological versus physical control of stream fish communities: deterministic or stochastic regulation. Richard Cerri 1991, Ph.D.
- Effects of mercury and naphthalene on behavior, regeneration, and molting in fiddler crabs, *Uca pugnax*, from polluted and unpolluted environments. Judith Grebel 1995 Ph.D.
- Effects of leachates from pressure-treated wood in freshwater environments. William Romeo 1995 MS (NJIT)
- Mercury teratogenesis and uptake in mummichog (*Fundulus heteroclitus*) embryos. David Alan Harpell 1996 MS (NJIT)
- Population genetics of *Fundulus heteroclitus* in the NY/NJ estuaries. Nicolay Mugue 1996, Ph.D.
- Size-structure and population of *Palaemonetes pugio* and interactions with *Fundulus heteroclitus* in two NJ estuaries. Celine Santiago 1996 MS (NJIT)
- Behavioral development and neurobehavioral effects of methylmercury on larval mummichogs, *Fundulus heteroclitus* from polluted and reference environments. Tong Zhou 1997, Ph.D.
- Growth of *Palaemonetes pugio* from a polluted vs clean estuary. Suruchi Bhan 1997 MS (NJIT)
- Predatory behavior in mummichogs, *Fundulus heteroclitus*, from a polluted vs clean environment. Graeme Smith, 1998, Ph.D.
- Effect of cadmium on prey capture ability of the grass shrimp, *Palaemonetes pugio*. Catherine Davis, 1999 MS.
- Benthic Communities in *Spartina alterniflora* and *Phragmites australis*-dominated salt marshes. Catherine E. Yuhas 2001 MS (NJIT)
- Lethal and sublethal effects of the toxic dinoflagellate, *Alexandrium fundyense* on three species of larval fish. Jennifer C. Samson 2002, Ph.D.
- Development of thyroid abnormalities in *Fundulus heteroclitus* from a polluted environment and the relationship of thyroid to behavioral abnormalities. Mary Anne Carletta 2002, Ph.D.
- An Analysis of epifaunal communities associated with the marsh grasses *Phragmites australis* and *Spartina alterniflora*. Tish Robertson 2004, Ph.D.
- Nekton Use of *Spartina alterniflora* and *Phragmites australis* in the Hackensack Meadowlands. Craig A. Woolcott 2005 MS
- Parasite communities and effects on the mummichog (*Fundulus heteroclitus*) physiology, anatomy and behavior. Celine Santiago Bass 2007 PhD
- Behavioral ecology and population biology in populations of fiddler crabs *Uca pugnax* (Smith) on the New Jersey Coast. Lauren Bergey 2007 PhD

Variation among mangrove forests as fish habitat: The role of prop-root epibionts, edge effects, and behavior in neotropical mangroves. James MacDonald 2008 Ph.D.

Behavioral ecology and population genetics in two populations of blue crab, *Callinectes sapidus* Rathbun, in New Jersey. Jessica Reichmuth 2009 PhD.

Postdoctoral Associates

Tong Zhou 1997-98, Lisamarie Windham 1998-2000, Ildiko Pechmann 2007-08

On Ph.D. committees of:

Richard Graham, Dawn Hassinger, Peter Takvorian, Steven Zipko, Stephen Brown, Betty Borowsky (CUNY), Doris Bull Kraus, Joseph DePari, Joseph Kinneary, Carolyn Bentivegna, Chen Mien Chen, Gary Buchanan, Ann Schmitz, Jennifer Stauber (U. Tasmania), Sam Yu (NJIT), Margy Wintermyer, Amy Blankenship, Susan Adair, Dale Haroski Matey, Jacques Khoury (CUNY), Beth Ravit, Greg Sakowicz, Josh Stout, Frank Gallagher, Kristine Kuruiwa (CUNY), David Seebaugh (CUNY), Richard Piola (Univ. of South Wales, Australia)

Participation in Science Outreach:

Science Fairs:

Livingston H.S. 1973-75, Summit H.S. 1979, St. Elizabeth's College 1979, NY Academy of Sciences 1980; Chair of Biology Workshop, Women in Science Conference, Rutgers 1981; Wayne Hills H.S. 1982, Futures Unlimited 1981, 82

Outreach/Public Service:

Talks on population and resources to Zero Population Growth and to National Organization for Women, 1972.

Submitted testimony to Congress - Research Modernization Act, 1981

Advisor to Essex County, and towns of Maplewood, West Orange, and Caldwell on gypsy moth control and pesticide use, 1981, 82

Testified at EPA hearings on ocean dumping of acid wastes, 1982

Appeared on "Pro or Con" Cable TV Debate on use of carbaryl for gypsy moth control, 1982.

Testified at EPA hearings on water quality standards, 1983

Essex County Task Force on integrated past management, 1983

Testified at NJ hearings on Pesticide Reform Bill, 1984

Speech on Environmental Policy at National Women's Day Celebration, East Hampton NY, 1984, 88

Member of Drinking Water Quality Institute, State of NJ 1984-87

Chair of Subcommittee on Water Testing

Testified at NJ Dept. of Environmental Protection hearings on pesticide regulations, 1985.

NJ DEP Review Committee for Salem Nuclear Generating Station 1986

NJ DEP Review Committee for Oyster Creek Generating Station 1987

Board of Directors, Group for the South Fork 1985-

Executive Committee, NJ Chapter Sierra Club 1986-89

National Coastal Committee, Sierra Club 1989-

Testified at Corps of Engineers hearings on dredging for home port, 1986

Testified at NY State Senate hearings on tributyltin antifouling paints, 1987.

Testified at US Senate Appropriations Comm. Subcomm. on Commerce, Justice, State and Judiciary on appropriation for NOAA, 1987

Testified at US House Merchant Marine & Fisheries Comm. Hearings on tributyltin antifouling paint, 1987

Toxics Work Group for NOAA Marine Pollution Program, 1987-88

Science & Tech. Advisory Comm. NY-NJ Harbor Estuary 1988-

Speech on "Life in the Harbor" to Accabonac Protection Comm. 1989, 90

Submitted testimony to N.J. D.E.P. on Salem Nuclear Power Plant, 1990.

Water Quality 2000 -Panel on Preserving Aquatic Ecosystems, Water Pollution Control Federation 1991

Speech on "Pollution of the Oceans" to Warren County Convocation for Gifted and Talented Students, 1991

EPA Scientific & Technical Committee for Hudson River PCBs Site Reassessment 1991

Science Advisory Committee for Congressman Herbert Klein 1994

Submitted comments on Hackensack Meadowlands Special Area Management Plan 1995

Technical advisory committee for Passaic River watershed, NJDEP. 1998-

Advisory Committee to Liberty Science Center for exhibit on Hudson River 2003-2006

Marine Leadership Committee, World Wildlife Fund 2004-2009

NY/NJ Harbor Consortium (NY Academy of Sciences) 2003-2008

Panel on Global Warming for NJ PIRG 2009

Co-Chair, NY/NJ Harbor Estuary Program Science & Tech Advisory Committee 2009-

Miscellaneous Service to Academia and Govt.:

Evaluated promotion materials for Univ. of Oklahoma 1982

Evaluated promotion materials for Univ. of Maryland 1984

Evaluated promotion materials for St. John's Univ. 1984

Evaluated promotion materials for Univ. of Manitoba 1984

Evaluated promotion materials for Univ. of Georgia 1989, 1995, 96

Evaluated promotion materials for Purdue University 1990

Evaluated promotion materials for Virginia Tech. 1996

Evaluated promotion materials for U. Southwestern LA 1997, 99

Evaluated promotion materials for U. Maryland 1998

Evaluated promotion materials for U. Mississippi 1999

Evaluated promotion materials for U. Connecticut 2000

Evaluated promotion materials for Seton Hall Univ. 2000

Evaluated promotion materials for Colorado State Univ. 2000

Evaluated promotion materials for CUNY 2003

Evaluated promotion materials for Univ. of West Virginia 2006

Evaluated promotion materials for Smithsonian Environmental Research Center 2008

Member, Delegation of Estuarine scientists visiting the People's Republic of China, 1983

Member, site visit team to EPA Laboratory, Gulf Breeze FL, 1983

Advisor in Student Science Training Prog. Long Island U 1985-88

Environmental Policy Working Group -Natl. Assoc. State Univ & Land Grant Colleges (NASULGC), 1987, 1990

NJ Coastal Water Quality Panel, 1987

National Research Council Marine Board Committee on Ballast Water Management to prevent introduction of non-indigenous species 1994

Advisory Board for NYU Cave Biology Research Group 2000-

Leader, Delegation of American Biologists visiting South Africa 2002

Participating Scientist in Operation Wallacea	2002
Technical Advisory Committee for Florida Interdisciplinary Center for Environmentally Sound Solutions (FICESS)	2003-2004
National Research Council Water Science and Technology Board committee on Advancing Desalination Technologies	2006-2007

Book:

Weis, J.S. and C.A. Butler 2009. Salt Marshes: A Natural and Unnatural History. Rutgers University Press

Refereed Publications:

- Weis, J.S. and A. Perlmutter 1967. A technique for microinjecting materials into the eggs of fishes. *Trans. Amer. Fish. Soc.* 96: 57-60.
- Weis J.S. 1968. Analysis of the development of the nervous system of the zebrafish, Brachydanio rerio. I. The normal morphology and development of the spinal cord and ganglia. *J. Embryol. Exper. Morphol.* 19:109-120.
- Weis J.S. 1968. Analysis of the development of the nervous system of the zebrafish, Brachydanio rerio. II. The effect of nerve growth factor and its antiserum on the development of the spinal cord and ganglia. *J. Embryol Exp. Morph.* 19:121-135.
- Weis, J.S. 1967. Experimental studies in nerve growth factor in teleost fishes. *Amer. Zool.* 7: 761-762.
- Weis, J.S. 1968. The occurrence of nerve growth factor in teleost fishes. *Experientia* 24: 736-737.
- Weis, J.S. 1968. Taxonomic correlation of the position of spinal ganglia in teleost fishes. *J Fish Res Bd Can.* 25:1739-1740.
- Weis, J.S. 1968. Fauna associated with pelagic Sargassum in the Gulf Stream. *Amer. Midland Nat.* 80: 554-556.
- Weis, J.S. 1969. The effects of nerve growth factor on the spinal ganglia of Ambystoma maculatum. *J. Exper. Zool.* 170:481-488.
- Weis, J.S. 1970. The effect of nerve growth factor antiserum on Ambystoma. *Experientia* 26: 155-156.
- Weis, J.S. and P. Weis 1970. The effect of nerve growth factor on limb regeneration in Ambystoma. *J. Exper. Zool.* 174:73-78.
- Weis, J.S. and E. Kalmar 1970. The transition from neural crest to spinal ganglia in Ambystoma. *Bull. NJ Acad. Sci* 15:36-37.
- Weis, J.S, P. Weis and R. Graham 1970. Species difference in limb regeneration in Ambystoma. *Copeia* 1979 #2:383-384.
- Weis, J.S. 1972. The effects of nerve growth factor in bullfrog tadpoles (Rana catesbeiana) after limb amputation. *J. Exper. Zool.* 180: 385-392.
- Weis, J.S. 1972. The effect of nerve growth factor on tail regeneration in the goldfish (Carrassius auratus). *Growth* 36: 151-161.
- Weis, J.S. and P. Weis 1972. Behavioral changes in the goldfish, Carrassius auratus, produced by treatment with nerve growth factor. *Physiology and Behavior* 9: 367-372.
- Weis, J.S. 1972. The population crisis and women's liberation. *Biology and Human Affairs* 37: 42-

- 44.
- Weis, J.S. and L. Bleier 1973. The effect of hydrocortisone on limb regeneration in the bullfrog tadpole, Rana catesbeiana. J. Embryol. Exper. Morphol. 29: 65-71.
- Weis, J.S. and P. Weis 1973. Nerve growth factor vs insulin. Science 180: 1301.
- Weis, P. and J.S. Weis 1974. DDT causes changes in activity and schooling behavior in goldfish. Environ. Res. 7:68-74.
- Weis, P. and J.S. Weis 1974. Cardiac malformations induced by insecticides in embryos of the killifish, Fundulus heteroclitus. Teratology 10: 263-268.
- Weis, P. and J.S. Weis 1974. Schooling behavior of Menidia in the presence of the insecticide Sevin (carbaryl). Marine Biol. 28: 261-263.
- Weis, J.S. and P. Weis 1975. Retardation of fin regeneration in Fundulus by several insecticides. Trans. Amer. Fish. Soc. 104: 135-137.
- Weis, J.S. 1975. The effect of DDT on tail regeneration in Rana pipiens and R. catesbeiana tadpoles. Copeia 1975: 765-767.
- Weis, J.S. and P. Weis 1976. Optical malformations induced by insecticides in embryos of the silversides, Menidia menidia. Fish. Bull. 74: 208-211.
- Weis, J.S. and L.H. Mantel 1976. DDT as an accelerator of regeneration and molting in fiddler crabs. Estuar. Coast. Mar. Sci. 4: 461-466.
- Weis, P. and J.S. Weis 1976. The effects of heavy metals on fin regeneration in Fundulus heteroclitus. Bull. Envir. Contam. Toxicol. 16: 197-202.
- Weis, J.S. 1976. The effects of environmental factors on limb regeneration and molting in fiddler crabs Biol. Bull. 150: 152-162.
- Weis, J.S. 1976. The effects of mercury, cadmium, and lead salts on limb regeneration in the fiddler crab, Uca pugilator. Fish. Bull. 74: 464-467.
- Weis, P. and J.S. Weis 1976. Abnormal locomotion associated with skeletal malformations in the sheepshead minnow, Cyprinodon variegatus, exposed to malathion. Environ. Res. 12:196-200.
- Weis, J.S. 1976. Regeneration in the fiddler crab, Uca pugilator, after multiple autotomy followed by injury or reamputation of some limb buds. J. Exper. Zool. 197: 21-30.
- Weis, J.S. and P. Weis 1976. The vertical distribution of pea crabs (Pinnotheres maculatus) in mussels (Mytilus edulis) from Montauk, New York. Veliger 19: 79-81.
- Weis, J.S. and P. Weis 1977. The effects of heavy metals on embryonic development of the killifish, Fundulus heteroclitus. J. Fish Biol. 11: 49-54.
- Weis, J.S. 1977. Limb regeneration in fiddler crabs: species differences and effects of methylmercury. Biol. Bull. 152: 263-274.
- Weis, J.S. 1977. Regeneration of limbs autotomized at different times in the fiddler crab, Uca pugilator. Can. J. Zool. 55: 656-660.
- Weis, P. and J.S. Weis 1977. Methylmercury teratogenesis in the killifish, Fundulus heteroclitus. Teratology 16: 317-326.
- Weis, P. and J.S. Weis 1978. Methylmercury inhibition of fin regeneration in fishes and its interaction with salinity and cadmium. Estuar. Coast. Mar. Sci. 6: 327-334.
- Weis, J.S. and P. Weis 1978. Behavior of coral reef fishes in a tidal environment. Florida Scientist 41: 53-56.
- Weis, J.S. 1978. Interactions of methylmercury, cadmium, and salinity on regeneration in the fiddler crabs Uca pugilator, Uca pugnax and Uca minax. Mar. Biol. 49: 119-124.
- Solomon, H.M. and J.S. Weis 1979. Abnormal circulatory development in medaka caused by the insecticides carbaryl, malathion, and parathion. Teratology 19: 51-62.

- Weis, P. and J.S. Weis 1979. Congenital abnormalities in estuarine fishes experimentally induced by environmental contaminants. In: Animals as Monitors of Environmental Pollutants. Proc. Symp. on Pathobiology of Environmental Pollutants, 1977. Natl. Acad. Sci. Washington DC pp 94-107.
- Weis, J.S. and P. Weis 1979. Effects of mercury and cadmium compounds on regeneration in estuarine fishes and crabs. In: Marine Pollution: Functional Responses. Ed. W.B. Vernberg, A. Calabrese, F. Thurberg & F.J. Vernberg. Acad. Press NY pp 151-169.
- Weis J.S. 1980. The effect of zinc on regeneration in the fiddler crab, Uca pugnator, and its interactions temperature, salinity and food intake on the excretion of Zn^{65} in small marine fishes. Biol. Bull. 121:378.
- Weis P. and J.S. Weis 1980. The effect of zinc on fin regeneration in the mummichog, Fundulus heteroclitus, and its interaction with methylmercury. Fish. Bull. 78:163-166.
- Lee, P.H. and J.S. Weis 1980. Effects of magnetic fields on regeneration in fiddler crabs. Biol. Bull. 159: 681-691.
- Weis, J.S., P. Weis and J. Ricci 1981. Effects of cadmium, zinc, salinity and temperature on the teratogenicity of methylmercury to the killifish Fundulus heteroclitus. Second Internat. Symp. on Early Life History of Fishes. Rapp. P-v Reun. Cons. Int. Explor. Mer 178: 64-70.
- Weis, J.S. and P. Weis 1981. Interactions of heavy metals affecting growth and development of estuarine animals. In: Water Conference, Ramapo College. L. Ciaccio & A. Cristini eds. pp 220-235.
- Weis, J.S., P. Weis, M. Heber and S. Vaidya 1981. Methylmercury tolerance of killifish (Fundulus heteroclitus) embryos from a polluted vs nonpolluted environment. Mar. Biol. 65:283-287
- Weis, J.S., P. Weis and M. Heber 1982. Variation in response to methylmercury by killifish (Fundulus heteroclitus) embryos. In: Aquatic Toxicology and Hazard Assessment: Fifth Conference. ASTM STP 766. J.G. Pearson, R. Foster and W.E. Bishop eds. Amer. Soc. for Testing and Materials pp 109-119.
- Weis, P. and J.S. Weis 1982. Toxicity of methylmercury, mercuric chloride, and lead in killifish (Fundulus heteroclitus) from Southampton, New York. Environ. Res. 28: 364-374.
- Weis, P. and J.S. Weis 1982. Toxicity of the PCBs Aroclor 1254 and 1242 to embryos and larvae of the mummichog, Fundulus heteroclitus. Bull. Environ. Contam. Toxicol. 28: 298-304.
- Weis J.S. 1982. Studies on limb regeneration in the anomurans Pagurus longicarpus and Emerita talpoida. J. Crust. Biol. 2: 227-231.
- Weis J.S., P. Weis, M. Heber and S. Vaidya 1982. Investigations into mechanisms of methylmercury tolerance in killifish (Fundulus heteroclitus) embryos. In: Physiological Mechanisms of Marine Pollutant Toxicity. ed. W. Vernberg, A. Calabrese, F. Thurberg & F.J. Vernberg. Acad. Press N.Y. pp 311-330.
- Weis J.S. and P. Weis 1983. Intraspecific differences in susceptibility to toxicants due to short term or chronic pre-exposure. In: Aquatic Toxicology ed. J. Nriagu. Advances in Environmental Science & Technology, John Wiley, NY pp 190-205.
- Bush C.P. and J.S. Weis 1983. Effects of salinity on fertilization success in two populations of killifish, Fundulus heteroclitus. Biol. Bull. 164: 406-417.
- Callahan, P. and J.S. Weis 1983. Methylmercury effects on regeneration and ecdysis in fiddler crabs (Uca pugnator, U. pugnax) after short-term and chronic pre-exposure. Arch. Environ. Contam. Toxicol. 12: 707-714.
- Weis P. and J.S. Weis 1983. Effects of embryonic pre-exposure to methylmercury, Hg^{2+} and Cu^{2+} on larval tolerance in Fundulus heteroclitus. Bull. Environ. Contam. Toxicol. 31: 530-534.
- Weis J.S. and P. Weis 1984. A rapid change in methylmercury tolerance in a population of killifish,

- Fundulus heteroclitus, from a golf course pond. Mar. Envir. Res. 13:231-245.
- Weis J.S., P. Weis, M. Renna and S. Vaidya 1985. Search for a physiological component of methylmercury tolerance in the mummichog, Fundulus heteroclitus. In: Marine Pollution and Physiology: Recent Advances. Ed. F.J.Vernberg, F. Thurberg, A. Calabrese and W.B. Vernberg. Univ. S. Carolina Press, Columbia. pp 309-326.
- Weis, J.S. 1985. Cadmium acclimation and limb regeneration in the fiddler crab, Uca pugilator: Sex differences. Mar. Environ. Res. 16: 199-214.
- Weis, J.S. and P. Weis 1985. Acclimation to cadmium by Fundulus heteroclitus as demonstrated by fin regeneration and cadmium accumulation. Mar. Env. Res. 17: 269-271. (full version below)
- Weis P. and J.S. Weis 1986. Cadmium acclimation and hormesis in Fundulus heteroclitus during fin regeneration. Environ. Res. 39: 356-363.
- Weis P., J.S. Weis and J. Bogden 1986. Effects of environmental factors on release of mercury from Berry's Creek sediments and uptake by killifish, Fundulus heteroclitus. Environ. Poll. 40: 303-315.
- Weis, J.S., N. Donellon and F. Barnwell 1986. Regeneration of tubercles on the limbs of Uca pugilator and effects of mercury and cadmium on their growth. J. Crust. Biol. 6: 648-651.
- Weis, J.S. and J. Kim 1986. Specificity of acquired cadmium tolerance in the fiddler crab Uca pugilator. Bull. Environ. Contam. Toxicol. 37: 362-368.
- Weis J.S., M. Renna S. Vaidya and P. Weis 1987. Mercury tolerance in killifish: A stage-specific phenomenon. In: Oceanic Processes in Marine Pollution vol. 1. Biological Processes and Wastes in the Ocean. ed. J. Capuzzo and D. Kester. Krieger Pub. Co. Malabar, FL pp 31-36.
- Klerks P. and J.S. Weis 1987. Genetic adaptation to heavy metals in aquatic organisms: a review. Envir. Poll. 45: 173-206.
- Weis J.S. and P. Weis 1987. Pollutants as developmental toxicants in aquatic organisms. Environ. Health Persp. 71: 77-86.
- Weis J.S., J. Gottlieb and J. Kwiatkowski 1987. Tributyltin retards regeneration and produces deformities of limbs in the fiddler crab, Uca pugilator. Arch. Envir. Contam. Toxicol. 16: 321-326.
- Weis, J.S. and A. Ma 1987. Effects of the pesticide diflubenzuron on larval horseshoe crabs, Limulus polyphemus. Bull. Environ. Contam. Toxicol. 39: 224-228.
- Toppin, S.V., M. Heber, J.S. Weis and P. Weis 1987. Changes in reproductive biology and life history in Fundulus heteroclitus in a polluted environment. In: Pollution Physiology of Estuarine Organisms. Ed. W. Vernberg, A. Calabrese, F. Thurberg and F.J. Vernberg. Univ. S. Carolina Press, Columbia. pp 171-184.
- Khan, A.T. and J.S. Weis 1987. Effects of methylmercury on sperm and egg viability of two populations of killifish, Fundulus heteroclitus. Arch. Environ. Contam. Toxicol. 16: 499-505.
- Weis, J.S. and J. Perlmuter 1987. Burrowing behavior by the fiddler crab, Uca pugilator: inhibition by the insecticide diflubenzuron. Mar. Ecol. Prog. Ser. 38: 109-113.
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