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U.S. DIRECTORY OF
Marine Scientists
1982

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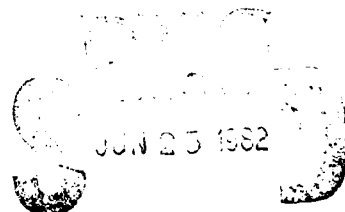
U.S. DIRECTORY OF
Marine Scientists
1982

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The Ocean Sciences Board

Commission on Physical Sciences,
Mathematics, and Resources

National Research Council



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Preface

U.S. Directory of Marine Scientists 1982 Edition

The first U.S. Directory of Marine Scientists was published in 1969 by the National Academy of Sciences. It was prepared under the auspices of the Committee on Oceanography (a predecessor to today's Ocean Sciences Board) and listed 1,357 individuals. The second edition, published in 1975, listed 3,013 individuals. This 1982 edition of the U.S. Directory of Marine Scientists is based on information obtained from questionnaires distributed by the Ocean Sciences Board late in 1980. It contains information on 4,192 individuals.

The 1980 questionnaire (see page 217) obtained information on employment, education, fields of expertise, and demography. It was mailed to more than 600 academic institutions, government agencies, and industries believed to be employing oceanographers and/or marine scientists. The questionnaire was designed to obtain information for this directory and to provide material for comparison with the 1980 Ocean Sciences Board report Doctoral Scientists in Oceanography. The questions are also comparable to those asked by the biennial National Research Council surveys of U.S. doctorate recipients so that comparisons can be made with scientists in other fields.

Because most of the information in this Directory was collected in 1980, individuals are listed at their 1980 addresses. The resultant data tapes will allow addresses to be updated readily in future editions of the Directory, particularly if changes of address are to an institution currently listed in the Directory. Therefore, we ask that individuals who move to an organization that is not listed in the Directory and who continue their career as a marine scientist notify us of their address change. Any organizations that employ marine scientists and are not listed in this edition are invited to contact us for inclusion in the next Directory.

The tabulation and programming of the information on the questionnaire was done by the Data Processing Office of the Office of Science and Engineering Personnel of the National Research Council. Special

credit is due and extended to Mary Compagnucci of the Data Processing Office for the many extra hours she devoted to this task. In addition, thanks are extended to Deborah Lipman who took care of many of the details associated with the development of this Directory while serving as a special assistant to our office.

The data from the 1980 questionnaires are on computer tape in the NRC. The questionnaires themselves are being retained as privileged material in the office of the Ocean Sciences Board. Investigators concerned with manpower trends in the marine sciences who wish to study the data available, at cost, are invited to contact our office.

Richard C. Vetter

How to Use This Directory

To find an individual's address or fields of expertise, locate his or her name and page number in Section II and turn to that page in Section I. The complete mailing address of the individual's organization is presented in Section I at the beginning of an alphabetical listing of individuals within each organization. The organizations are listed in geographical (zip code) order.

Section III lists individuals by their primary field of expertise, and gives a page number for reference to Section I. Areas of specialization are listed in the same order as presented in question 13 of the questionnaire, not alphabetically.

An alphabetical listing and abbreviated addresses of all institutions, organizations, industries, and agencies represented in this Directory is presented in Section IV. The page number next to each institution references the complete mailing address listed in Section I. Additionally, this section lists branches and divisions of organizations consecutively, although they might be geographically different.

Telephone numbers in Section IV are listed in the following manner: for organizations with only one department in the Directory, the department telephone number is listed; for organizations with several departments at the same geographic location, the institution's main telephone number is given; for organizations with several locations, the telephone numbers for each location are given. The telephone number is specific to a department if it is the only department at that location in the Directory, otherwise, the main number is listed.

I

**Organizations (in zip code order) with
Individuals at Each Organization and
Their Fields of Expertise**

PUERTO RICO

Corporation for the Development of
Marine Resources
Fisheries Research Laboratory
P.O. Box 3665
Mayaguez, PR 00708

BOARDMAN, CHARLES W, Fishery Biologist.
Fisheries Biology; Crustacea.
FIGUEROA, JOSE L, Fisheries Statistics Project
Leader.
Fisheries Biology.
WEILER, DEBORAH, Scientific Assoc Coordinator.
Fisheries Biology; Bony Fish and
Elasmobranchs, Taxonomy and Systematics.

University of Puerto Rico
Department of Marine Sciences
Mayaguez Campus
Mayaguez, PR 00708

ALMODOVAR, LUIS R, Professor.
Algae and Higher Plants; Marine Macrophytes.
ALSTON, DALLAS E, Asst Professor.
Invertebrates; Limnology.
BALLANTINE, DAVID L, Asst Professor.
Marine Macrophytes; Algae and Higher Plants,
Marine Biology/Physiology, Taxonomy and
Systematics.
CERAME-VIVAS, MAXIMO J, Professor.
Marine Ecology; Taxonomy and Systematics,
Oil Spill Pollution.
CORREDOR, JORGE E, Asst Professor.
Biochemical Ecology; Micro Ecology,
Microbiology, Phytoplankton,
Biochemistry, Environmental Chemistry.
CUTRESS, CHARLES E, Professor.
Invertebrates; Crustacea, Molluscs, Marine
Biology/Physiology, Taxonomy and
Systematics.
DIAZ-PIFERRER, MANUEL R, Catedratico: Full
Professor.
Marine Macrophytes; Taxonomy and Systematics.
HENSLEY, DANNIE A, Asst Professor.
Bony Fish and Elasmobranchs; Fisheries
Oceanography, Fisheries Biology,
Taxonomy and Systematics, Zooplankton.
HERNANDEZ-AVILA, MANUEL L, Physical
Oceanography, Professor, Director of Dept.
Currents and Circulation; Tides and Waves.
KUBARYK, JOHN, Asst Professor.
Fisheries Biology; Natural Products.
MCGINTY, ANDREW S, Assistant Professor.
Aquaculture.
MERCADO, AURELIO, JR, Instructor.
Geophysical Boundary Layers; Theoretical
Dynamics & GFD.
MORELOCK, JACK, Professor.
Sedimentology; Structural Geology/Tectonics,
Geophysical Exploration, Coastal Zone
Management.

SHAPIRO, DOUGLAS Y, Asst Professor.
Animal Behavior; Bony Fish and Elasmobranchs.
TOSTESON, THOMAS ROBERT, Professor.
Marine Biology/Physiology; Micro Ecology,
Phytoplankton.
WILLIAMS, ERNEST H, Assoc Professor.
Fisheries Biology; Taxonomy and Systematics.
WILLIAMS, LUCY BUNKLEY, Instructor.
Marine Biology/Physiology; Taxonomy and
Systematics.
YOSHIOKA, PAUL M, Asst Professor.
Marine Ecology; Zooplankton.

VIRGIN ISLANDS

College of the Virgin Islands
St. Thomas, VI 00801

CANOY, MICHAEL J, Director of Ecological Res
Center - Caribbean Res Institute.
Systems Ecology; Environmental Engineering.
MACLEAN, WILLIAM P, Chairman, Division of
Science and Mathematics.
Chordates; Paleontology.
MCMILLAN, JOSEPH P, Assoc Professor of Biology.
Vertebrate Physiology.
RAGSTER, LAVERNE E, Asst Professor of Marine
Biology.
Algae and Higher Plants; Marine
Biology/Physiology.

Fairleigh Dickinson University
West Indies Laboratory
P.O. Box 4010, Christiansted
St. Croix, VI 00820

DILL, ROBERT F, Professor of Geology and
Director.
Sedimentology; Coral Reef Systems,
Seismology.
HUBBARD, DENNIS K, Asst Professor.
Sedimentology; Tides and Waves, Coastal
Engineering, Coastal Zone Management.
ROGERS, CAROLINE S, Environmental Specialist.
Marine Ecology; Invertebrates, Algae and
Higher Plants, Marine Macrophytes.
SUCHANEK, THOMAS H, Visiting Assistant
Professor.
Molluscs, Invertebrates; Macro Ecology.

MASSACHUSETTS

University of Massachusetts
Graduate Research Center
Amherst, MA 01003

ALLEN, P GEOFFREY, Asst Professor.
Economics; Aquaculture.

- BROMERY, RANDOLPH W, Commonwealth Professor of Geophysics.
Geophysical Exploration; Geodesy/Gravity, Geomagnetism.
- BROWN, LAURIE L, Assoc Professor of Geophysics. Geomagnetism; Geophysics, Geodesy/Gravity, Geophysical Exploration.
- BURGGREN, WARREN WILLIAM, Asst Professor of Zoology.
Bony Fish and Elasmobranchs; Crustacea.
- CANALE-PAROLA, ERCOLE, Professor of Microbiology.
Microbiology; Micro Ecology.
- DOWNING, JERE D, Extension Specialist, Dept of Entomology.
Invertebrates; Limnology, Coastal Zone Management.
- EDMAN, JOHN D, Assoc Professor, Dept of Entomology.
Invertebrates.
- EDWARDS, DALLAS CRAIG, Assoc Professor of Zoology.
Molluscs; Invertebrates.
- FINN, JOHN T, Asst Professor, Dept of Forestry & Wildlife.
Ecosystem Modelling; Computer Sciences.
- GODFREY, PAUL JEFFREY, Assoc Professor Botany.
Algae and Higher Plants, Geomorphology, Meteorology, Coastal Zone Management; Barrier Island Ecology.
- HARRIS, DENTON B, Asst Professor of Civil Engineering.
Corrosion; Civil Engineering.
- HEPLER, PETER K, Professor of Botany.
Cell Physiology (Plant & Animal); Algae and Higher Plants.
- JOHNSON, ERNEST A, Assoc Professor.
Instrumentation Engineering; Bony Fish and Elasmobranchs.
- KYNARD, BOYD E, Adjunct Assoc Professor of Fisheries.
Fisheries Biology; Bony Fish and Elasmobranchs, Fisheries Oceanography.
- LEATHERMAN, STEPHEN P, Director, Nat'l Park Service Cooperative Research Unit.
Geomorphology; Sedimentology.
- LEVIN, ROBERT E, Professor.
Microbiology; Fungi Bacteria and Viruses, Biochemistry.
- LITSKY, WARREN, Commonwealth Professor of Environmental Sciences.
Microbiology; Fungi Bacteria and Viruses, Micro Ecology.
- MAC CONNELL, WILLIAM P, Professor of Forestry.
Forestry; Remote Sensing.
- NAWAR, WASSEF W, Professor.
Organic Chemistry, Analytical Chemistry.
- ORTIZ, JESSE S, Assoc Professor.
Microbiology; Fungi Bacteria and Viruses.
- PELEG, MICHA, Assoc Professor.
Fish Texture, Rheology, Food Engineering; Chemical Engineering.
- ROBERTS, JOHN L, Professor & Acting Chairman, Dept of Zoology.
Bony Fish and Elasmobranchs; Marine Biology/Physiology.
- ROSS, MICHAEL R, Asst Professor of Fisheries Biology.
Fisheries Biology; Bony Fish and Elasmobranchs, Limnology.
- SAWYER, F MILES, Assoc Professor, Dept of Food Science and Nutrition.
Quality Assessment of Food Fish; Biochemistry.
- STOFFOLANO, JOHN G, Professor of Entomology.
Invertebrates; Insects.
- STOREY, DAVID A, Professor, Dept of Food and Resource Econ.
Economics; Coastal Zone Management.
- TATTAR, TERRY A, Assoc Professor, Dept of Plant Pathology.
Algae and Higher Plants; Fungi Bacteria and Viruses.
- WEBB, GREGORY W, Professor of Geology.
Stratigraphy; Structural Geology/Tectonics, Sedimentology, Petroleum Geology.
- WHITNEY, LESTER FRANK, Professor, Food Engineering.
Mechanical Engineering; Bony Fish and Elasmobranchs, Food Process.
- WILCE, ROBERT THAYER, Professor, Dept of Botany.
Algae and Higher Plants, Taxonomy and Systematics; Marine Macrophytes.
- YURETICH, RICHARD F, Asst Professor of Geology.
Geochemistry; Sedimentology, Stratigraphy, Limnology.

Smith College
Clark Science Center
Northampton, MA 01063

- BURK, CARL J, Professor of Biological Sciences.
Taxonomy and Systematics; Algae and Higher Plants.
- CURRAN, H ALLEN, Assoc Professor, Dept of Geology.
Paleontology; Geomorphology, Sedimentology, Stratigraphy.

Groton BioIndustries Dev. Co.
Division of Groton Associates, Inc.
Groton, MA 01450

- WEBBER, HAROLD H, Biologist/Manager.
Aquaculture; Bony Fish and Elasmobranchs, Crustacea, Molluscs, Fisheries Biology, Natural Products, Limnology.

Global Scientific, Inc.
 Suite 206
 801 Main Street
 Concord, MA 01742

HAYES, JOHN G, President.
 Tides and Waves; Satellite Oceanography.

Geo-Atmospherics Corp.
 Box 177
 Lincoln, MA 01773

MOUNT, WAYNE D, President.
 Meteorology; Modeling.

Tatsch Associates
 120 Thunder Road
 Sudbury, MA 01776

TATSCH, JAMES H, Chief Scientist.
 Structural Geology/Tectonics; Petroleum
 Engineering, Seismology, Geophysics,
 Mineralogy, Geomagnetism, Geophysical
 Exploration.

Northeastern University
 Marine Science Institute
 East Point
 Nahant, MA 01908

AYERS, JOSEPH L, JR, Asst Professor of Biology.
 Neurobiology; Crustacea, Marine
 Biology/Physiology.

GORDON, BERNARD L, Assoc Professor of Earth
 Sciences.
 Bony Fish and Elasmobranchs; Fisheries
 Oceanography.

HOOPER, PETER F, Asst Professor.
 Political Science/Public Admin.

MORSE, M PATRICIA, Professor of Biology.
 Molluscs; Crustacea, Invertebrates, Marine
 Biology/Physiology, Taxonomy and
 Systematics.

RISER, NATHAN W, Professor of Marine Biology.
 Invertebrates; Taxonomy and Systematics.

SHEPARD, ROBERT A, Professor of Chemistry;
 Acting Director.
 Organic Chemistry; Analytical Chemistry.

University of Massachusetts
 Marine Station
 Gloucester, MA 01930

HULTIN, HERBERT O, Professor.
 Food Biochemistry; Biochemistry.

MARTIN, CHRISTOPHER MARTIN, Staff Associate.
 Marine Biology/Physiology; Phytoplankton.

NOAA/NMFS
 Northeast Fisheries Center
 Gloucester Laboratory
 Emerson Avenue
 Gloucester, MA 01930

BLOTT, ALAN J, Chief Fisheries Engineer.
 Fisheries; Mechanical Engineering.

CONNORS, THOMAS J, Mechanical Engineer.
 Mechanical Engineering; Molluscs, Analytical
 Chemistry.

New England Aquarium
 Edgerton Research Laboratory
 Central Wharf
 Boston, MA 02110

BARKER, ALBERT J, Laboratory Manager.
 Marine Biology/Physiology; Algae and Higher
 Plants, Fisheries Oceanography,
 Phytoplankton.

GILBERT, THOMAS R, Assoc Director, Research.
 Analytical Chemistry; Geochemistry.

KAKAREKA, JOSEPH P, Research Associate.
 Analytical Chemistry; Organic Chemistry.

Northeastern University
 Huntington Avenue
 Boston, MA 02115

CHENEY, DONALD P, Asst Professor of Biology.
 Algae and Higher Plants; Marine Macrophytes,
 Taxonomy and Systematics, Marine Ecology.

ROSEN, PETER S, Asst Professor of Earth
 Sciences.
 Sedimentology; Geomorphology.

RUBER, ERNEST, Professor of Biology.
 Zooplankton, Limnology; Crustacea, Taxonomy
 and Systematics, Phytoplankton.

University of Massachusetts - Boston
 Harbor Campus
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EBERSOLE, JOHN P, Asst Professor of Biology.
 Bony Fish and Elasmobranchs; Modeling.

REX, MICHAEL A, Assoc Professor of Biology.
 Deep-Sea Ecology; Molluscs.

SCHMITTER, RUTH E, Asst Professor, Biology.
 Algae and Higher Plants; Marine
 Biology/Physiology.

Harvard University
 Div of Applied Sciences
 Cambridge, MA 02138

BOSS, KENNETH J, Professor of Biology &
 Curator in Malacology.
 Molluscs; Taxonomy and Systematics.

BUTLER, JAMES N, Professor of Applied Chemistry.
Physical Chemistry; Sargassum Community, Geochemistry, Environmental Engineering, Limnology, Marine Pollution & Policy.

MITCHELL, RALPH, Gordon McKay Professor of Applied Biology.
Fungi Bacteria and Viruses, Microbiology; Marine Biology/Physiology, Naval/Marine Engineering, Sanitary Engineering, Environmental Engineering.

Harvard University
Biological Laboratories
16 Divinity Avenue
Cambridge, MA 02138

COHEN, JOEL L, Postdoctoral Research Fellow.
Marine Biology/Physiology; Bony Fish and Elasmobranchs, Marine Mammals.

SEBENS, KENNETH P, Asst Professor.
Marine Ecology (Benthic); Invertebrates.

WHEELER, PATRICIA A, Research Associate.
Phytoplankton; Marine Macrophytes, Marine Biology/Physiology, Biochemistry.

Harvard University
Center for Earth & Planetary Physics
Pierce Hall
Cambridge, MA 02138

MILLER, ROBERT N, Research Associate.
Modeling; Marine Biology/Physiology, Theoretical Dynamics & GFD, Currents and Circulation.

MULLER, PETER K, Research Associate.
Theoretical Dynamics & GFD, Tides and Waves.

ROBINSON, ALLAN R, Chairman, Committee on Oceanography.
Modeling, Currents and Circulation; Theoretical Dynamics & GFD.

SARACHIK, EDWARD S, Research Associate.
Theoretical Dynamics & GFD; Air-Sea Interaction, Meteorology.

Harvard University
Department of Geological Sciences
Cambridge, MA 02138

HOLLAND, HEINRICH DIETER, Professor of Geochemistry.
Geochemistry, Geochemistry.

SIEVER, RAYMOND, Professor of Geology/Chairman, Dept. of Geological Sciences.
Sedimentology; Geochemistry.

Harvard University
Museum of Comparative Zoology
Cambridge, MA 02138

MCCARTHY, JAMES J, Professor of Biological Oceanography.
Phytoplankton; Zooplankton.

TURNER, RUTH D, Professor of Biology; Curator in Malacology.
Molluscs; Taxonomy and Systematics.

WOOLLACOTT, ROBERT M, Professor of Biology.
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Department of Civil Engineering
R.M. Parsons Laboratory for
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Cambridge, MA 02139

ADAMS, E ERIC, Principal Research Engineer.
Civil Engineering; Theoretical Dynamics & GFD, Modeling, Currents and Circulation.

CHISHOLM, SALLIE W, Assoc Professor.
Phytoplankton; Physiological Ecology.

HARLEMAN, DONALD R F, Ford Professor of Engineering.
Environmental Engineering; Modeling, Currents and Circulation, Tides and Waves, Limnology.

MADSEN, OLE S, Assoc Professor.
Civil Engineering; Theoretical Dynamics & GFD, Currents and Circulation, Tides and Waves, Sedimentology.

Massachusetts Institute of Technology
Dept of Earth and Planetary Sciences
Cambridge, MA 02139

BOYLE, EDWARD A, Asst Professor.
Geochemistry; Inorganic Chemistry, Analytical Chemistry.

BURNS, ROGER G, Professor of Mineralogy and Geochemistry.
Geochemistry; Mineralogy.

DAHLEN, JOHN M, Head, Oceanography Division.
Instrumentation Engineering; Civil Engineering, Mechanical Engineering, Aero-Engineering, Naval/Marine Engineering.

EDMOND, JOHN M, Assoc Professor of Marine Geochemistry.
Geochemistry; Analytical Chemistry.

ERIKSEN, CHARLES C, Asst Professor of Physical Oceanography.
Tides and Waves; Theoretical Dynamics & GFD, Modeling, Currents and Circulation.

LAWVER, LAWRENCE A, Research Associate.
Structural Geology/Tectonics.

MCDUFF, RUSSELL E, Postdoctoral Associate.
Physical Chemistry; Geochemistry, Inorganic
Chemistry, Analytical Chemistry,
Environmental Engineering.

MEASURES, CHRISTOPHER I, Postdoctoral
Associate.
Geochemistry; Analytical Chemistry.
PARSONS, BARRY E, Principal Research Scientist.
Geophysics; Geodesy/Gravity.
SCLATER, JOHN G, Professor of Geophysics.
Structural Geology/Tectonics.
SOLOMON, SEAN C, Assoc Professor of Geophysics.
Seismology; Geophysics, Geodesy/Gravity.
SOUTHARD, JOHN BRELSFORD, Assoc Professor of
Geology.
Sedimentology; Geomorphology, Stratigraphy.
WUNSCH, CARL I, Head.
Currents and Circulation, Tides and Waves;
Acoustics, Geophysics, Geodesy/Gravity.

Massachusetts Institute of Technology
School of Engineering
Cambridge, MA 02139

HARRISON, DON E, Assistant Professor
(Visiting).
Currents and Circulation.

Massachusetts Institute of Technology
Dept of Meteorology & Physical
Oceanography
Cambridge, MA 02139

CANE, MARK A, Asst Professor.
Theoretical Dynamics & GFD; Modeling,
Currents and Circulation, Air-Sea
Interaction, Meteorology.
CORNILLON, PETER C, Visiting Asst Professor.
Remote Sensing; Modeling, Currents and
Circulation, Tides and Waves.
FLIERL, GLENN R, Assoc Professor of
Oceanography.
Theoretical Dynamics & GFD; Currents and
Circulation.
FRANKIGNOUL, CLAUDE J, Research Associate.
Modeling; Air-Sea Interaction.
MASCARENHAS, AFFONSO DA S, JR, Research
Assistant.
Air-Sea Interaction; Modeling, Remote
Sensing.
MOLLO-CHRISTENSEN, ERIK, Professor of
Oceanography.
Theoretical Dynamics & GFD; Air-Sea
Interaction.
SMITH, JEROME ANTHONY, Post-Doctoral
Appointment.
Tides and Waves; Theoretical Dynamics & GFD,
Air-Sea Interaction.

U.S. Army Corps of Engineers
Engineering Division
Waltham, MA 02154

HARD, CARL G, Geologist/Oceanographer.
Civil Engineering; Geochemistry, Modeling,
Currents and Circulation, Tides and
Waves, Environmental Engineering,
Geomorphology, Sedimentology, Hydrology,
Geophysical Exploration, Coastal Zone
Management.

Tufts University
Biology Department
Medford, MA 02155

HODGSON, EDWARD S, Professor of Biology.
Marine Biology/Physiology; Bony Fish and
Elasmobranchs.
PECHENIK, JAN A, Asst Professor.
Marine Biology/Physiology; Molluscs,
Zooplankton.

Boston College
Dept. of Geology & Geophysics
Chestnut Hill, MA 02167

BRENNINKMEYER, BENNO M, Assoc Professor.
Sedimentology; Molluscs, Tides and Waves,
Civil Engineering, Coastal Zone
Management, Computer Sciences.
BROOKS, EDWARD M, Professor.
Meteorology; Currents and Circulation, Tides
and Waves, Air-Sea Interaction,
Astronomy, Climatology.

U.S. Navy
Office of Naval Research
Boston Branch Office
666 Summer Street
Bldg 114 Sec D
Boston, MA 02210

STEVENS, RICHARD S, Oceanographer, ONR/EAST.
Structural Geology/Tectonics; Geophysics.
TWITCHELL, PAUL F, Meteorologist.
Air-Sea Interaction, Meteorology; Modeling.
WILLEMS, ROBERT C, Oceanographer, ONR/EAST.
Currents and Circulation; Modeling.

Bolt Beranek and Newman Inc.
50 Moulton Street
Cambridge, MA 02238

BERKMAN, EVAN F, Vice Pres, Underwater
Technologies Division.
Acoustics; Mechanical Engineering.
HEINC, JOHN C, Supervisory Scientist.
Acoustics; Mechanical Engineering.

JACKSON, FRANCIS JOSEPH, Senior Vice President.
Acoustics; Naval Architecture.
KERWIN, EDWARD M, JR, Principal Scientist.
Acoustics; Modeling.
MCELROY, PAUL TUCKER, Senior Scientist.
Acoustics; Mechanical Engineering,
Instrumentation Engineering.
RIBLETT, WILLIAM R, Manager, Marine Systems
Dept.
Acoustics, Naval/Marine Engineering; Naval
Architecture, Environmental Engineering.
WATTERS, BILL G, Principal Scientist.
Acoustics; Electrical Engineering,
Instrumentation Engineering, Geophysics,
Geophysical Exploration, Computer
Sciences.

Battelle Columbus Laboratories
William F. Clapp Laboratories, Inc.
Washington Street
Duxbury, MA 02332

NEFF, JERRY M, Senior Research Scientist.
Marine Biology/Physiology, Marine Toxicology,
Biochemistry; Bony Fish and
Elasmobranchs, Crustacea, Molluscs,
Invertebrates, Geochemistry,
Environmental Engineering.

Massachusetts Maritime Academy
Buzzards Bay, MA 02532

BLACK, ROBERT E, Assistant Professor.
Geography; Coastal Zone Management.
KAN, DAVID L, Professor.
Geochemistry; Fisheries Oceanography,
Currents and Circulation, Sedimentology.
SABO, DENNIS J, Assoc Professor.
Bony Fish and Elasmobranchs, Biochemistry;
Fisheries Biology, Organic Chemistry.

Neil Brown Instrument Systems Inc.
P.O.Box 498
1140 Route 28A
Cataumet, MA 02534

BROWN, NEIL L, President.
Instrumentation Engineering.
LAWSON, KENNETH D, JR, Vice President.
Instrumentation Engineering.
MORRISON, GEOFFREY K, Vice President, Sales.
Instrumentation Engineering.

University of Massachusetts
Cranberry Exp. Station
East Watcham, MA 02538

DEUBERT, KARL H, Chemist.
Pesticide Chemistry; Analytical Chemistry.

Marine Biological Laboratory
Woods Hole, MA 02543

ADELMAN, WILLIAM J, JR, Chief, Laboratory of
Biophysics, NIH.
Invertebrates, Physical Chemistry, Modeling,
Environmental Engineering, Computer
Sciences.
ALKAN, DAVID L, Res. Med. Officer, Section
Chief, NIH.
Molluscs; Neurophysiology.
ATEMA, JELLE, Assoc Professor of Biology,
Boston Univ.
Marine Biology/Physiology; Bony Fish and
Elasmobranchs, Crustacea, Molluscs,
Pollution, Marine.
BERG, CARL J, JR, Assoc Scientist.
Molluscs; Marine Biology/Physiology.
BOWLES, FRANCIS P, Field Research Coordinator,
Ecosystems Center.
Ecology/Anthropology, Ecology/Anthropology;
Taxonomy and Systematics.
COPELAND, DONALD E, Professor Emeritus.
Bony Fish and Elasmobranchs; Crustacea,
Invertebrates, Marine Biology/Physiology.
CORSON, DAVID W, Research Associate.
Vision Physiology.
GRASSLE, JUDITH P, Investigator.
Invertebrates; Molluscs, Marine
Biology/Physiology, Taxonomy and
Systematics, Population Genetics,
Biochemistry, Benthic Community Ecology.
GROSS, PAUL R, President and Director.
Invertebrates, Marine Biology/Physiology;
Molluscs, Microbiology, Biochemistry.
HAROSI, FERENC I, Assoc Scientist.
Bony Fish and Elasmobranchs, Marine
Biology/Physiology, Electrical
Engineering, Biomedical Engineering;
Optics, Instrumentation Engineering.
HOUGHTON, RICHARD A, Research Associate,
Ecosystems Center.
Ecology.
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- WAHLEN, BRUCE E, Statistician (Biology).
Statistics; Marine Mammals.
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Currents and Circulation; Air-Sea Interaction.
- AUSTIN, ROSWELL W, Research Engineer.
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Microbiology; Biochemistry.
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Physical Properties of Sediment and Rock, Geophysics, Sedimentology.
- BRINTON, EDWARD, Research Biologist.
Zooplankton; Crustacea.
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Marine Biology/Physiology; Bony Fish and Elasmobranchs.
- CARLUCCI, ANGELO FRANCIS, Research Microbiologist.
Marine Biology/Physiology; Fungi Bacteria and Viruses.
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Tides and Waves; Currents and Circulation, Shore Processes.
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Geomagnetism; Seismology, Geophysics, Geophysical Exploration.
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Marine Insects; Invertebrates.
- CHOW, TSAIHWA J, Research Oceanographer.
Geochemistry, Analytical Chemistry.
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Geochemistry, Radiochemistry; Modeling, Currents and Circulation.
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Atmospheric Chemistry; Analytical Chemistry.
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Air-Sea Interaction; Currents and Circulation.
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Micro Ecology, Microbiology; Invertebrates.
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Natural Products; Algae and Higher Plants.
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Geochemistry; Radiochemistry.
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Marine Biology/Physiology; Bony Fish and Elasmobranchs.
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Petrology-Geochemistry; Structural Geology/Tectonics.
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Marine Biology/Physiology; Algae and Higher Plants, Phytoplankton, Photo Biology.
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Marine Macrophytes; Algae and Higher Plants.
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Economics; Marine Policy.
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Currents and Circulation; Air-Sea Interaction, Geochemistry, Thermodynamics and Properties, Ice.
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Marine Community Ecology; Fisheries Biology.
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Stratigraphy; Sedimentology, Paleontology.
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Phytoplankton; Algae and Higher Plants, Marine Macrophytes, Micro Ecology, Microbiology, Biochemistry, Analytical Chemistry, Limnology, Marine Pollution.
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Atmospheric Chemistry; Air-Sea Interaction.
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Currents and Circulation.
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Biochemistry; Marine Biology/Physiology.
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Phytoplankton; Fisheries Oceanography.
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Marine Biology/Physiology, Bioluminescence and Neurobiology; Bony Fish and Elasmobranchs, Crustacea, Invertebrates, Phytoplankton, Zooplankton, Optics, Mechanical Engineering.
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Chordates.
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Geochemistry; Analytical Chemistry, Air-Sea Interaction.
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Currents and Circulation; Modeling, Air-Sea Interaction.
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Organic Chemistry; Biochemistry, Geochemistry, Physical Chemistry, Analytical Chemistry, Radiochemistry.
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Geochemistry; Analytical Chemistry, Radiochemistry, Currents and Circulation, Air-Sea Interaction.
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Currents and Circulation.
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Sedimentology; Structural Geology/Tectonics, Stratigraphy.
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Fungi Bacteria and Viruses; Microbiology.
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Rockville, MD 20850
 (301) 443-8906
NSTL Station, MS 39529 78
 (601) 688-3333
Boulder, CO 80303 97
 (303) 479-6562
Alaska Field Office 140
 Juneau, AK 99802
 (907) 586-7221
Northeast Office 31
 Stony Brook, NY 11794
 (516) 751-7002
Pacific Office 135
 Seattle, WA 98115
 (206) 442-1964
- ...National Sea Grant College Program 48
 Rockville, MD 20852
 (301) 443-8923
 ...Special Research Programs Office 48
 Rockville, MD 20852
 (301) 443-8415
- U.S. DEPARTMENT OF ENERGY 41
 Office of Health & Environmental Research
 Division of Ecology
 Washington, DC 20545
 (301) 353-4208
- U.S. DEPARTMENT OF HEALTH & HUMAN SERVICES
 .National Institute of
 Environmental Health Sciences 64
 St. Augustine, FL 32084
 (904) 471-0684
 .Public Health Service
 Alcohol, Drug Abuse & Mental
 Health Administration 49
 Rockville, MD 20852
- U.S. DEPARTMENT OF THE INTERIOR
 .Bureau of Land Management 38
 Washington, DC 20240
 (202) 343-5717
 ..New Orleans Outer Continental
 Shelf Office 88
 New Orleans, LA 70130
 (504) 589-6541
 .Fish & Wildlife Service
 ..Coastal Ecosystem Activity 63
 Atlanta, GA 30303
 (404) 221-6343
 ..Great Lakes Fishery Laboratory 84
 Ann Arbor, MI 48105
 (313) 994-3331
 ..National Coastal Ecosystems Team 89
 Slidell, LA 70458
 (504) 255-6511
 ..Office of Biological Services 38
 Washington, DC 20240
- U.S. DEPARTMENT OF STATE 41
 Office of Marine Science & Tech. Affairs
 Washington, DC 20520
 (202) 632-0853
- U.S. ENVIRONMENTAL PROTECTION AGENCY
 .Environmental Res Lab, Sabine Island 67
 Gulf Breeze, FL 32561
 (904) 932-5311
 .Environmental Research Lab, Corvallis 127
 Corvallis, OR 97330
 (503) 757-4601
 ..Marine Division 129
 Newport, OR 97365
 (503) 867-4031
 .Environmental Sciences Research Laboratory
 Meteorology and Assessment Division 58
 Research Triangle Park, NC 27711
 (919) 541-2613
 .Office of Radiation Programs 41
 Washington, DC 20460
 (703) 557-8217
 .Office of Research and Development 41
 Washington, DC 20460
 (202) 343-4126
- U.S. GEOLOGICAL SURVEY
 .Corpus Christi, TX 78411 95
 (512) 888-3294
 .Seattle, WA 98105 132
 (206) 442-1995
 .Atlantic-Gulf of Mexico Geology Branch 10
 Woods Hole, MA 02543
 (617) 548-8700
 .Fisher Island Station 68
 Miami Beach, FL 33139
 (305) 672-1784
 .Office of Marine Geology 52
 Reston, VA 22092
 (703) 860-7241
 .Pacific/Arctic Branch of Marine Geology 117
 Menlo Park, CA 94025
 (415) 323-8111
- U.S. HOUSE OF REPRESENTATIVES 41
 House Committee on Science & Technology
 Washington, DC 20515
 (202) 225-8117
- U.S. MARINE MAMMAL COMMISSION 36
 Washington, DC 20006
 (202) 653-6238

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

.Langley Research Center 56
Hampton, VA 23665
(804) 827-1110

.Laboratory for Atmospheric Sciences
Oceans & Ice Branch 46
Greenbelt, MD 20771
(301) 344-6481

.Wallops Flight Center
Applied Science Directorate 55
Wallops Island, VA 23337
(804) 824-3411

.Oceanic Processes Branch 42
Washington, DC 20546
(202) 753-8576

NATIONAL SCIENCE FOUNDATION

.Division of Ocean Sciences 42
Washington, DC 20550
(202) 357-9498

.Division of Polar Programs 42
Washington, DC 20550
(202) 655-4000

U.S. NAVY

.Civil Engineering Laboratory 114
Port Hueneme, CA 93043
(805) 982-4528

.David Taylor Naval Ship R&D Center 45
Bethesda, MD 20084
(301) 227-1628

..Environmental Protection Division 50
Annapolis, MD 21402
(301) 267-2536

.Fleet Numerical Oceanography Center 116
Monterey, CA 93940
(408) 646-2141

.Naval Academy
Oceanography Dept. 50
Annapolis, MD 21402
(301) 267-3561

.Naval Coastal Systems Center
Environmental Sciences Division 66
Panama City, FL 32407
(904) 234-4201

.Naval Intelligence Support Center
Naval Intelligence Command 40
Washington, DC 20390
(202) 545-6700

.Naval Ocean Res & Dev Activity 78
NSTL Station, MS 39529
(601) 688-4357

.Naval Ocean Systems Center
..Arctic Submarine Laboratory 111
San Diego, CA 92152
(714) 225-7275

..Hawaii Laboratory 123
Kailua, HI 96734
(808) 254-4311

..Marine Sciences and Technology
Directorate 111
San Diego, CA 92152
(714) 225-6315

...Biosciences Department 111
San Diego, CA 92152
(714) 225-7811

...Environmental Sciences Dept. 112
San Diego, CA 92152

.Naval Oceanographic Office
NSTL Station 76
Bay St. Louis, MS 39522
(601) 688-4010

.Naval Oceanography Command, London 28
New York, NY 09510

.Naval Polar Oceanography Center 41
Washington, DC 20390
(202) 763-5972

.Naval Postgraduate School 116

..Naval Environmental Prediction
Research Facility 117
Monterey, CA 93940
(408) 646-2673

.Naval Research Laboratory 39
Washington, DC 20375
(202) 767-3301

..Underwater Sound Reference Detachment 67
Orlando, FL 32856
(305) 859-5120

.Office of Naval Research 28
..New York, NY 09510

..Pasadena, CA 91106 101
(213) 795-5971

..Boston Branch Office 7
Boston, MA 02210
(617) 542-6000

..Ocean Science & Technology
Detachment Liaison Office 53
Arlington, VA 22217
(703) 696-4530

..Ocean Science & Technology Detachment 80
NSTL Station, MS 39529
(601) 688-4740

.Naval Underwater Systems Center
..New London Laboratory 23
New London, CT 06320
(203) 447-4344

..Newport Laboratory 16
Newport, RI 02840
(401) 841-4572

214 ORGANIZATIONS

.Office of the Chief of Naval Operations 39
Washington, DC 20350
(202) 695-3667

UNION COLLEGE 32
Dept. of Geology
Schenectady, NY 12308
(518) 370-6000

VASSAR COLLEGE 33
Dept. of Geology and Geography
Poughkeepsie, NY 12601
(914) 452-7000

COLLEGE OF THE VIRGIN ISLANDS 3
St. Thomas, VI 00801
(809) 774-1252

UNIVERSITY OF VIRGINIA 53
Dept. of Environmental Sciences
Charlottesville, VA 22903
(804) 924-7761

VISTA COLLEGE 120
Berkeley, CA 94704
(415) 841-8431

WALLA WALLA COLLEGE
.Department of Biological Sciences 139
College Place, WA 99324
(509) 527-2615
.Walla Walla College Marine Station 137
Anacortes, WA 98221
(206) 293-2326

WASHINGTON STATE UNIVERSITY 138
Geology Department
Pullman, WA 99164
(509) 335-3564

UNIVERSITY OF WASHINGTON
.Applied Physics Laboratory 132
.Institute for Marine Studies 132
.Department of Zoology 132
Seattle, WA 98105
(206) 543-2100
.College of Fisheries 136
.Geography Department 136
.NROTC Unit 136
.Department of Oceanography 136
Seattle, WA 98195
(206) 543-2100
.Friday Harbor Laboratories 138
Friday Harbor, WA 98250
(206) 543-1484

THE UNIVERSITY OF WEST FLORIDA 66
Dept. of Biology
Pensacola, FL 32504
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WESTERN ELECTRIC CO. 56
Greensboro, NC 27420

WESTERN WASHINGTON UNIVERSITY 137
Bellingham, WA 98225
(206) 676-3000

WESTINGHOUSE ELECTRIC CORP. 50
Oceanic Div.
Annapolis, MD 21404
(301) 765-5785

COLLEGE OF WILLIAM AND MARY
.Virginia Institute of Marine Science 54
Gloucester Point, VA 23062
(804) 642-2111
..Eastern Shore Laboratory 55
Wachapreague, VA 23480
(804) 787-3280

UNIVERSITY OF WISCONSIN
.Marine Studies Center 86
.Oceanography & Limnology Grad Program 86
Madison, WI 53706
(608) 262-1234

UNIVERSITY OF WISCONSIN - GREEN BAY 86
College of Environmental Sciences
Green Bay, WI 54302
(414) 465-2121

UNIVERSITY OF WISCONSIN - MILWAUKEE 86
Center for Great Lakes Studies
Milwaukee, WI 53211
(414) 963-1122

UNIVERSITY OF WISCONSIN - WHITEWATER 86
Biology Dept.
Whitewater, WI 53190
(414) 472-1234

WOODS HOLE ENGINEERING ASSOC., INC. 11
Woods Hole, MA 02543

WOODS HOLE OCEANOGRAPHIC INSTITUTION 11
Woods Hole, MA 02543
(617) 548-1400

WOODWARD-CLYDE CONSULTANTS
.Houston Office 92
Houston, TX 77055
(713) 688-9111
.Environmental Systems Division 110
San Diego, CA 92110
(714) 225-9381

WRIGHT STATE UNIVERSITY 83
Chemistry Dept.
Dayton, OH 45431
(513) 873-2310

YALE UNIVERSITY
.Dept. of Biology 25
.Dept. of Geology and Geophysics 25
New Haven, CT 06511
(203) 436-4771

V

1980 Questionnaire

1980 SURVEY OF U.S. OCEAN SCIENTISTS

Conducted by the
Ocean Sciences Board of the National Research Council
2101 Constitution Ave., N.W., Washington, D.C. 20418

Dear Colleague

The Ocean Sciences Board has recently completed a preliminary study of oceanography manpower. During this study, we encountered a number of basic questions whose answers would help illuminate trends in supply and utilization and provide a clearer understanding of the makeup of our profession. We are now conducting a survey of the status and characteristics of U.S. ocean scientists so that we can provide both current and trend information on this population. Our primary objective is to obtain information for the next edition of the U.S. *Directory of Marine Scientists*. The questions below that

will be used for this purpose are marked with an asterisk. Our second objective is to obtain information on the sources, rates of production, and characteristics of scientists in the several ocean science subfields. The latter set of questions will be used solely to obtain statistical information for study and analysis. All questionnaires will be kept privileged and maintained by the National Research Council.

Please return your questionnaire via your laboratory coordinator. Thanks for your cooperation, patience, and assistance.

Richard C. Vetter
Executive Secretary

PERSONAL DATA (Print or type)

(A) *1. Name in Full: _____
(Last) (First) (Middle Initial)

(B) *2. Title of Professional Position: _____

*3. Organization: _____

Note: Leave blank if questionnaire will be returned via your group coordinator

*4. Business Address: _____
(Number) (Street or P.O. Box)

(C) _____
(11-16) (City) (State) (Zip Code)

(17-26) 5. Office Telephone Number: () _____
(area code)

(27-32) 6. Birth date: _____
(Month) (Day) (Year)

(33) 7. Sex: 1 ___ Male 2 ___ Female

(34) 8. Citizenship: 1 ___ USA 2 ___ Other

9. Racial or ethnic group: (Check one)

- (35) 1 American Indian or Alaskan Native
2 Asian or Pacific Islander
3 Black, not of Hispanic origin
4 White, not of Hispanic origin
5 Puerto Rican
6 Mexican-American
7 Other Hispanic

EDUCATION

10. List your collegiate and graduate degrees, *excluding honorary degrees*. Use the following numbers to indicate major field of degree in the table below and in 20-B, if appropriate.

- | | | |
|----------------------|----------------------------|-----------------------|
| 1 Math/Computer Sci. | 4 Oceanography/Marine Sci. | 7 Biological Sciences |
| 2 Physics/Astronomy | 5 Earth & Env. Sci. | 8 Social Sciences |
| 3 Chemistry | 6 Engineering | 9 Other _____ |

Level of Degree	Year Granted	Major Field	Institution (Name, City, & State)	
Bachelor's				
Master's				
Professional				
Doctorate				

(J)

(11-20) (11) (12-13) (14) (15-20)

(21) Thesis/Dissertation Title: _____
(1-2)

11. Considering the substance and content of the program which led to your *highest earned degree* cited above (first if more than one), rather than the title of the degree or the department awarding it, please indicate the field of that degree. (Check one)

- | | | | |
|---------|---|--|---|
| | OCEANOGRAPHY PROGRAM in | OTHER SCIENCE PROGRAM in | NON-SCIENCE PROGRAM in |
| (22-23) | 11 <input type="checkbox"/> Biological Oceanography | 31 <input type="checkbox"/> Biology | 51 <input type="checkbox"/> Arts & Humanities |
| | 12 <input type="checkbox"/> Physical Oceanography | 32 <input type="checkbox"/> Physics/Math | 52 <input type="checkbox"/> Law |
| | 13 <input type="checkbox"/> Chemical Oceanography | 33 <input type="checkbox"/> Chemistry | 53 <input type="checkbox"/> Medicine |
| | 14 <input type="checkbox"/> Marine Geology/Geophysics | 34 <input type="checkbox"/> Geology/Geophysics | 54 <input type="checkbox"/> Business |
| | 15 <input type="checkbox"/> Ocean Engineering | 35 <input type="checkbox"/> Engineering | 55 <input type="checkbox"/> Social Sciences |
| | 16 <input type="checkbox"/> Ocean Social Sciences | 36 <input type="checkbox"/> Social Sciences | 56 <input type="checkbox"/> Other _____ |
| | 17 <input type="checkbox"/> Other _____ | 37 <input type="checkbox"/> Other _____ | |

PRESENT EXPERTISE

(K) *12. Basic Field of Scientific/Technical Expertise

Write the number "1" next to the *one* basic field that best defines your basic area of expertise.

Write "2" next to the field(s) that represent *secondary* areas of expertise.

- | | |
|---|--|
| 01 ___ Biology | 04 ___ Engineering |
| 02 ___ Chemistry | 05 ___ Earth, Environmental, and Marine Sciences |
| 03 ___ Physics/Math | 06 ___ Social Sciences |
| 07 ___ Other Basic or Interdisciplinary Field _____ | |

*13. Areas of Specialization

Write the number "1" next to the area (numbers 10 through 92) that you consider to be your *primary* specialization.

Write "2" next to *secondary* specialities.

Biology/Biological Oceanography/Fisheries

- | | | |
|------------------------------------|-----------------------------------|---------------------------------|
| 10 ___ Bony Fish and Elasmobranchs | 16 ___ Algae and Higher Plants | 22 ___ Fisheries Oceanography |
| 11 ___ Crustacea | 17 ___ Fungi Bacteria and Viruses | 23 ___ Fisheries Biology |
| 12 ___ Molluscs | 18 ___ Marine Macrophytes | 24 ___ Taxonomy and Systematics |
| 13 ___ Other Invertebrates | 19 ___ Marine Biology/Physiology | 25 ___ Phytoplankton |
| 14 ___ Marine Mammals | 20 ___ Micro Ecology | 26 ___ Zooplankton |
| 15 ___ Other Chordates | 21 ___ Microbiology | 27 ___ Other _____ |

Chemistry/Marine Chemistry

- 30 ___ Biochemistry
- 31 ___ Geochemistry
- 32 ___ Physical Chemistry

- 33 ___ Organic
- 34 ___ Inorganic
- 35 ___ Analytical

- 36 ___ Radiochemistry
- 37 ___ Natural Products
- 38 ___ Other _____

Physics/Physical Oceanography

- 40 ___ Theoretical Dynamics & GFD
- 41 ___ Thermodynamics & Properties
- 42 ___ Modeling
- 43 ___ Currents & Circulation

- 44 ___ Tides and Waves
- 45 ___ Ice
- 46 ___ Acoustics

- 47 ___ Optics
- 48 ___ Air-sea Interaction
- 49 ___ Other _____

Engineering/Ocean Engineering

- 51 ___ Civil
- 52 ___ Mechanical
- 53 ___ Chemical
- 54 ___ Electrical
- 55 ___ Petroleum

- 56 ___ Mining
- 57 ___ Naval Architecture
- 58 ___ Aero-Engineering
- 59 ___ Naval/Marine
- 60 ___ Instrumentation

- 61 ___ Sanitary
- 62 ___ Environmental
- 63 ___ Industrial
- 64 ___ Other _____

Solid Earth Sciences/Marine Geology-Geophysics

- 67 ___ Structural Geology/Tectonics
- 68 ___ Geomorphology
- 69 ___ Seismology
- 70 ___ Geography
- 71 ___ Geophysics

- 72 ___ Sedimentology
- 73 ___ Mineralogy
- 74 ___ Geodesy/Gravity
- 75 ___ Hydrology
- 76 ___ Paleontology

- 77 ___ Stratigraphy
- 78 ___ Geomagnetism
- 79 ___ Geophysical Exploration
- 80 ___ Other _____

Other "Earth" Sciences

- 83 ___ Limnology (including *biological* limnology)

- 84 ___ Meteorology

- 85 ___ Other _____

Other Speciality

- 87 ___ Law
- 88 ___ Economics

- 89 ___ Coastal Zone Management
- 90 ___ Sociology

- 91 ___ Computer Sciences

- 92 ___ Other _____

14. Recent Publication

List a significant oceanography/marine science paper or other publication you have authored or co-authored in the past five years. Please give complete reference.

Title _____

Author(s) _____

99 Journal _____
(1-2)

Date _____

PROFESSIONAL EXPERIENCE

15. Type of Current Employment Activity

Indicate approximate *percentage* of time you devote to each general type of work. Do not assign identical percentages (e.g., 50-50) so that *primary* type of work can be identified.

- 11 ___ %Basic Research
- 13 ___ %Applied Research
- 14 ___ %Development
- 15 ___ %Operations
- 17 ___ %Surveys
- 21 ___ %Teaching/Education
- 23 ___ %Administration
- 25 ___ %Management
- 31 ___ %Consulting
- 35 ___ %Policy
- 41 ___ %Other _____
100% (Specify)

16. Environment of Activity and/or Interest (Indicate percent)

A) General Marine Environment (Sum to 100%)

53 _____ %Estuarine

54 _____ %Coastal

55 _____ %Open Ocean

56 _____ %Great Lakes
100%

B) Geographic Region (Sum to 100%)

61 _____ %Polar

62 _____ %Mid Latitude

63 _____ %Tropical
100%

17. Please check one. Do you consider yourself

(11) 1 An oceanographer?

2 A scientist in another field working in oceanography? Or 3 A non-scientist working in oceanography?

18. What percent of your professional working time are you engaged in oceanographic activity? (We regard oceanographic research and development, survey and operations, teaching, consulting, and administration as oceanographic activities).

(12) Check one: 1 More than 75% 2 50-75% 3 Less than 50%

19. Check the single society that best represents your professional interest.

(13-14) 11 ASLO

12 MTS

13 AGU

21 GSA

22 Other "geol/
geophysics" society

31 AMS

32 APS

32 Other "physics" society

41 ACS

42 Other "chemical" society

51 A "biological" society

61 An "engineering" society

71 A "social science" society

91 Other field society

Please write in "other" checked above _____

20. An important characteristic of oceanography is the manner and extent to which scientists trained in and/or working in other fields become oceanographers.

A) How long after you obtained your highest degree (the first, if more than one, as noted in question 10) did you begin working in oceanography?

(15) 1 Less than one year 2 One to three years 3 More than three years

B) Before entering the field of oceanography, did you work in another science field?

(16-17) 4 Yes 5 No If yes, what field? _____ (Please specify by field number from question 10)

If yes, how long:

(18) 6 Less than one year 7 One to three years 8 More than three years

21. Approximately what percent of your working professional oceanographic career have you been employed:

(19-20) _____ %By an academic/non-profit institution

(21-22) _____ %By a government agency

(23-24) _____ %In private industry

(25-26) _____ %As a private consultant

(27-28) _____ %Other _____

100%

22. How long do you plan to stay in the field of oceanography? (Check one)

(29) 1 For the rest of my professional career

2 Five more years or longer

3 Less than five more years

23. A significant characteristic of oceanography is the extent to which scientists without Ph.D.'s, but with equivalent experience, are contributing to the field. A Ph.D. equivalent is considered a person who:

1) shows significant evidence of research productivity (e.g., several senior-authored papers published in a scientific journal, or,

2) has participated in a recognized administrative, educational, or operational oceanographic activity for more than five years at levels of professional responsibility and achievement equivalent to an assistant professor, head of a laboratory or major department, or a government employee with a GS 14 rating or higher.

If you do not have a Ph.D., are you a Ph.D. equivalent?

(30) 1 Yes 2 No