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U.S. DIRECTORY OF
Marine Scientists
1982

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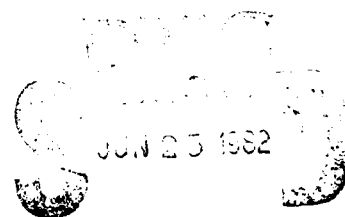
U.S. DIRECTORY OF **Marine Scientists** 1982

Prepared under the Auspices of

The Ocean Sciences Board

Commission on Physical Sciences,
Mathematics, and Resources

National Research Council



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Contents

Preface	vii
How to Use This Directory	ix
I Organizations (in zip code order) with Individuals at Each Organization (alphabetically) and Their Fields of Expertise	1
II Individuals Listed Alphabetically and Their Page Location in Section I	143
III Individuals (alphabetically) by Primary Field of Expertise and Their Page Location in Section I	169
Biology/Biological Oceanography/Fisheries	171
Chemistry/Marine Chemistry	180
Physics/Physical Oceanography	183
Engineering/Ocean Engineering	188
Solid Earth Sciences/Marine Geology-Geophysics	190
Other "Earth" Sciences	194
Other Speciality	194
IV Organizations Listed Alphabetically, Their Page Location in Section I and Their Telephone Number	197
V 1980 Questionnaire	215

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
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Concord, MA 01742

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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.
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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

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Algae and Higher Plants; Marine Macrophytes,
Taxonomy and Systematics, Marine Ecology.
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Sciences.
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RUBER, ERNEST, Professor of Biology.
Zooplankton, Limnology; Crustacea, Taxonomy
and Systematics, Phytoplankton.

University of Massachusetts - Boston
Harbor Campus
Boston, MA 02125

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Bony Fish and Elasmobranchs; Modeling.
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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

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Marine Biology/Physiology; Bony Fish and Elasmobranchs, Marine Mammals.

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

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Phytoplankton; Marine Macrophytes, Marine Biology/Physiology, Biochemistry.

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

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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.
Marine Biology/Physiology; Invertebrates.

Massachusetts Institute of Technology
Department of Civil Engineering
R.M. Parsons Laboratory for
Water Resources and Hydrodynamics
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.

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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.
HOWARTH, ROBERT W, Asst Scientist, Ecosystems
Center.
Marine Ecosystems; Algae and Higher Plants,
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Acoustics; Analytical Chemistry, Electrical
Engineering, Instrumentation Engineering.

BEECK, THOMAS R, Oceanographer.

Phytoplankton; Invertebrates, Zooplankton,
Computer Sciences.

BLUMENTHAL, RICHARD B, Subject Matter
Specialist.

Oceanographic Data Management; Computer
Sciences.

BOEGE, JULIUS R, Oceanographer.

Geomorphology; Geography.

BUNCE, JOHN A, Head, Plans and Operations

Section, Special Projects Branch.
Submersibles; Currents and Circulation,
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CAR, MARTIAL, Oceanographer.

Optics.

- CARROLL, JERRY C, Supervisory Oceanographer.
Geophysics, Geomagnetism; Tides and Waves,
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- CHAPPELL, ALAN C, Mathematician.
Computer Sciences; Modeling, Acoustics,
Geophysics, Geodesy/Gravity.
- CHRISTENSEN, ROBERT E, Supervisory
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Acoustics; Geophysical Exploration.
- COFFEY, CLAUDE I, Director, Inshore Projects
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Environmental Engineering; Geography.
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Modeling; Computer Sciences.
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Geophysics; Numerical Analysis.
- DEPALMA, JOHN R, Marine Biologist.
Marine Fouling Invertebrates.
- DIPIAZZA, NICHOLAS J, Supervisory
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Geophysics.
- DOBLAR, RANDY A, Oceanographer.
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Meteorology, Computer Sciences.
- DUFF, CASPER B, Supervisory Oceanographer.
Civil Engineering; Mining.
- EWING, STEVEN R, Oceanographer.
Acoustics, Geomorphology; Modeling,
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- FINERTY, MARTIN J, JR, Director Plans
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Acoustics; Modeling, Air-Sea Interaction.
- FOX, CHRISTOPHER G, Oceanographer.
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Analysis.
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- GEDDES, WILBURT H, Director, Oceanographic
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- GEIGER, MARK L, Oceanographer.
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- GSELL, WILLIAM L, Oceanographer.
Sedimentology; Mineralogy.
- HALL, ADRON F, Oceanographer.
Marine Mammals; Invertebrates.
- HALLOCK, ZACHARIAH R, Oceanographer.
Currents and Circulation; Theoretical
Dynamics & GFD, Thermodynamics and
Properties, Modeling, Tides and Waves,
Computer Sciences.
- HEBURN, GEORGE W, Research Scientist.
Modeling, Aero-Engineering, Meteorology;
Air-Sea Interaction.
- HEIBEL, ANTHONY D, Oceanographer.
Instrumentation Engineering; Acoustics.
- HIGGS, ROBERT H, Physical Science
Administrator.
Geomagnetism; Structural Geology/Tectonics,
Geophysics, Geophysical Exploration.
- HUDDLELL, HOWARD D, Supervisory Oceanographer.
Coral Reef Ecology; Invertebrates, Currents
and Circulation, Diving Technology,
Sedimentology.
- JOBST, WILLIAM J, Supervisory Oceanographer.
Acoustics; Electrical Engineering.
- KAMMINGA, WILLIAM S, Program Management.
Acoustics; Electrical Engineering.
- KERLING, JEFFREY L, Oceanographer.
Remote Sensing; Currents and Circulation,
Tides and Waves, Ice, Acoustics, Optics,
Air-Sea Interaction.
- KNOOP, GRIFFITH H, Supervisory Oceanographer.
General Physical Oceanography; General
Geophysical Oceanography.
- KORGEN, BENJAMIN J, Oceanographer.
Currents and Circulation; Optics.
- LEONE, GERALD M, Oceanographer.
Geochemistry; Physical Chemistry, Inorganic
Chemistry, Analytical Chemistry,
Microlayer Chemistry, Computer Sciences.
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Seismology; Geophysics.
- LEWIS, MARVIN G, Director, Ocean Projects
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Electronics; Acoustics, Geophysics.
- LORENS, ROBERT B, Oceanographer.
Geochemistry; Analytical Chemistry.
- LOWRIE, ALLEN, Oceanographer.
Structural Geology/Tectonics; Geomorphology,
Sedimentology.
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Acoustics; Modeling, Instrumentation
Engineering.
- MOORE, CARL T, Oceanographer.
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- NELSON, JAMES A
Earth, Environment, Marine Science.
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Meteorology; Geophysics.
- PALUMBO, JOSEPH X, Oceanographer.
Acoustics.
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Air-Sea Interaction; Theoretical Dynamics &
GFD, Modeling, Acoustics.
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Hydrography; Currents and Circulation, Tides
and Waves, Optics, Geodesy/Gravity.
- REYNOLDS, LAWRENCE M, Oceanographer.
Sedimentology.
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Zooplankton; Marine Biology/Physiology,
Organic Chemistry, Acoustics, Computer
Sciences.
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Acoustics; Meteorology.
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Currents and Circulation; Tides and Waves,
Air-Sea Interaction.
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Crustacea; Invertebrates, Bathymetric
Surveys.

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Applied Physics & Oceanography; Currents and
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Currents and Circulation; Tides and Waves.

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Currents and Circulation; Computer Sciences.

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Acoustics; Instrumentation Engineering.

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Molluscs; Crustacea, Invertebrates, Micro
Ecology, Microbiology, Fisheries

Oceanography, Biochemistry, Modeling,

Acoustics, Environmental Engineering,

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Marine Biology/Physiology; Computer Sciences.

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Environmental Engineering; Instrumentation
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Fisheries Biology, Physical Chemistry,
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Engineering, Instrumentation Engineering,
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GANDY, WALTER F, Supervisory Engineer.

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Fisheries Oceanography; Environmental
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Fisheries Oceanography; Fisheries Biology,
Modeling, Currents and Circulation,
Remote Sensing.

SAVASTANO, KENNETH J, Computer Specialist.

Computer Sciences, Remote Sensing; Modeling,
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Electrical Engineering, Instrumentation
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Interaction, Mechanical Engineering,
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Marine Sound Speed Structure; Currents and
Circulation.
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Modeling; Air-Sea Interaction.
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Remote Sensing, Meteorology.
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Acoustics; Modeling.
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Tides and Waves; Theoretical Dynamics & GFD,
Modeling, Currents and Circulation,
Civil Engineering, Naval/Marine
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Sedimentology; Paleontology.
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Acoustics; Modeling.
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Instrumentation Engineering; Geophysics.
- FERER, KENNETH M, Program Manager.
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Sedimentology; Currents and Circulation,
Structural Geology/Tectonics,
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- GALUS, ALBERT J, Project Manager.
Acoustics, Instrumentation Engineering;
Currents and Circulation, Mechanical
Engineering.
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Acoustics.
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Acoustics; Theoretical Dynamics & GFD,
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Oceanography.
Modeling, Instrumentation Engineering,
Limnology; Currents and Circulation.
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Meteorology; Acoustics.
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Instrumentation Engineering; Mechanical
Engineering, Electrical Engineering,
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Sciences.
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Currents and Circulation; Air-Sea
Interaction, Optics.
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Optics; Thermodynamics and Properties.
- HURLBURT, HARLEY E, Oceanographer.
Modeling; Theoretical Dynamics & GFD,
Currents and Circulation, Meteorology,
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- JACOBSON, RANDALL S, Geophysicist.
Seismology; Structural Geology/Tectonics,
Geophysics, Geophysical Exploration.
- KEEN, D JEAN, Oceanographer.
Thermodynamics and Properties; Naval
Applications.
- KETCHUM, ROBERT D, JR, Oceanographer.
Ice, Remote Sensing; Meteorology.
- KINDER, THOMAS H, Oceanographer.
Currents and Circulation.
- KINNEY, WAYNE A, Research Physicist.
Acoustics; Mechanical Engineering.
- LAVIOLETTE, PAUL E, Physical Oceanographer.
Currents and Circulation; Satellite
Application.
- LAVOIE, DENNIS M, Oceanographer.
Microbiology; Micro Ecology.
- LEVENSON, COLEMAN, Oceanographer.
Marine Mammals, Acoustics; Marine
Biology/Physiology, Fisheries Biology.
- LI, HUON, Oceanographer.
Modeling; Air-Sea Interaction.
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Ice; Thermodynamics and Properties.
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Acoustics.
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Acoustics.
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Acoustics; Electrical Engineering.
- MATTHEWS, JAMES E, Geophysicist.
Geophysics; Acoustics.
- MAY, PAUL W, Oceanographer.
Tides and Waves; Air-Sea Interaction.
- MAYNARD, G LAFAYETTE, Supervisory Geophysicist.
Seismology; Instrumentation Engineering,
Geophysics, Geophysical Exploration.
- MAZEIKE, PAUL A, Research Oceanographer.
Currents and Circulation.
- MILBURN, DARRELL A, Mechanical Engineer.
Mechanical Engineering.
- MORRIS, GERALD B, Supervisory Research
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Geophysics; Acoustics.

MOSS, GEORGE J, JR, Head, Sonar & Geophysical Systems Branch.
Instrumentation Engineering; Geophysical Exploration.

PEFFLEY, MONTY B, Oceanographer.
Modeling; Currents and Circulation, Air-Sea Interaction, Computer Sciences.

PERKINS, HENRY T, Oceanographer.
Tides and Waves; Theoretical Dynamics & GFD, Currents and Circulation.

PIACSEK, STEVE A, Branch Head, Environmental Simulation.
Modeling; Theoretical Dynamics & GFD.

POSEY, JOE W, Research Physicist.
Acoustics.

PRESSMAN, ALBERT E, Physical Science Administrator.
Structural Geology/Tectonics, Geomorphology, Geophysics.

RAMSDALE, DAN J, Research Physicist.
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REID, DAVID F, Oceanographer.
Radiochemistry; Geochemistry.

RICHARDSON, MICHAEL D, Oceanographer.
Benthic Ecology; Invertebrates, Taxonomy and Systematics, Sedimentology, Sedimentary Acoustics.

SAUNDERS, KIM D, Oceanographer.
Currents and Circulation; Theoretical Dynamics & GFD.

SMITH, PETER M, Physical Oceanographer.
Air-Sea Interaction; Electromagnetic Scattering From Sea Surface.

SOLOMON, LOUIS P, Assoc Technical Director.
Theoretical Dynamics & GFD, Modeling, Acoustics; Mechanical Engineering, Aero-Engineering.

STANLEY, EVERETT MICHAEL, Program Manager.
Currents and Circulation; Modeling.

STUART, CHARLES E, Head, Data Acquisition.
Electrical Engineering, Instrumentation Engineering, Computer Sciences.

SU, MING-YANG, Oceanographer.
Tides and Waves; Air-Sea Interaction.

SUTHERLAND, ALEXANDER L, Head, Ocean Engineering Branch, Ocean Technology Division.
Mechanical Engineering; Naval/Marine Engineering.

THOMPSON, JAMES D, JR, Oceanographer.
Theoretical Dynamics & GFD, Modeling; Currents and Circulation, Air-Sea Interaction.

VANWYCKHOUSE, ROGER J, Supervisory Oceanographer.
Bathymetry; Computer Sciences.

WASOWSKI, STAN P, Systems Analyst.
Computer Sciences; Instrumentation Engineering.

WELSH, JAMES P, Head, Polar Oceanography Branch.
Ice; Geochemistry, Geophysics, Sedimentology, Statistical Inference.

WENZEL, ALAN R, Research Physicist.
Acoustics; Theoretical Dynamics & GFD.

WILCOX, CHESTER C, Physical Scientist.
Acoustics; Computer Sciences.

YOUNG, DAVID K, Supervisory Oceanographer.
Marine Benthic Ecology; Molluscs, Geochemistry.

ZALKAN, ROBERT L, Deputy Director, Ocean Science & Technology Lab.
Internal Waves; Tides and Waves, Naval/Marine Engineering, Nuclear Engineering.

ZSOLNAY, ADAM, Oceanographer.
Geochemistry; Algae and Higher Plants, Microbiology, Phytoplankton, Zooplankton, Organic Chemistry, Analytical Chemistry, Computer Sciences.

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Acoustics, Optics; Law.

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Geochemistry; Physical Chemistry, Analytical Chemistry.

HAMILTON, GORDON R, Director, Ocean Science & Technology Division.
Geophysics; Acoustics, Underwater.

KAULUM, KEITH W, Oceanographer.
Naval/Marine Engineering; Mechanical Engineering, Instrumentation Engineering, Environmental Engineering.

KIRK, ROBERT A, Program Director, Physical Oceanography.
Air-Sea Interaction; Meteorology.

TIPPER, RONALD C, Director Oceanic Biology Program.
Molluscs, Benthic Ecology; Marine Biology/Physiology, Microbiology, Zooplankton.

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Taxonomy and Systematics; Bony Fish and Elasmobranchs.

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HUNT, DIANNE R, Wetlands Permit Investigator.
Bony Fish and Elasmobranchs; Marine
Biology/Physiology.
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Coastal Ecology; Coastal Zone Management.

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Invertebrates; Bony Fish and Elasmobranchs,
Crustacea, Molluscs, Chordates,
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Systematics.
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Section.
Molluscs; Invertebrates, Fisheries Biology,
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Fishery Management; Bony Fish and
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Biology, Taxonomy and Systematics,
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COOK, DAVID W, Head, Microbiology Section.
Microbiology; Micro Ecology.
DAWSON, C E, Senior Ichthyologist and Curator.
Taxonomy and Systematics; Bony Fish and
Elasmobranchs.
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Molluscs; Fisheries Biology.
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Algae and Higher Plants; Marine Macrophytes,
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Fisheries Biology; Bony Fish and
Elasmobranchs, Crustacea, Molluscs,
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HAWKINS, WILLIAM E, Electron Microscopist.
Bony Fish and Elasmobranchs; Molluscs.
HEARD, RICHARD W, Assoc Biologist.
Crustacea; Bony Fish and Elasmobranchs,
Molluscs, Invertebrates, Marine
Biology/Physiology, Fisheries Biology,
Taxonomy and Systematics, Zooplankton.
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Bony Fish and Elasmobranchs, Crustacea;
Molluscs, Fisheries Biology,
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LAKSHMI, G J, Physiologist.
Marine Biology/Physiology; Crustacea.
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Fisheries Biology; Fisheries Oceanography.

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Mariculture; Bony Fish and Elasmobranchs,
Crustacea, Molluscs, Invertebrates,
Algae and Higher Plants, Fungi Bacteria
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Systematics, Phytoplankton, Zooplankton,
Parasitology, Toxicology, Limnology.
LYTLE, JULIA, Head, Environmental Chemistry.
Geochemistry, Organic Chemistry, Analytical
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LYTLE, THOMAS F, Head, Analytical Chemistry.
Geochemistry, Organic Chemistry, Analytical
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Marine and Estuarine Benthos; Crustacea,
Molluscs, Invertebrates, Coastal Zone
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Fisheries Biology; Bony Fish and
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OVERSTREET, ROBIN M, Head, Parasitology
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Invertebrates, Fisheries Biology; Taxonomy
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Crustacea; Fisheries Biology, Zooplankton.
RICHARDSON, SALLY L, Assoc Ichthyologist.
Fisheries Oceanography; Taxonomy and
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VENKATARAMIAH, A, Comparative Animal
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Marine Biology/Physiology; Crustacea.
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Toxicology; Microbiology.
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Phytoplankton; Zooplankton.

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Analytical Chemistry; Geochemistry,
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Mechanical Engineering; Electrical
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Geochemistry, Limnology; Invertebrates,
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II

Individuals Listed Alphabetically and Their Index to Section I

A

Aagaard, Knut 136
Abel, Keith H 139
Abel, Robert B 26
Abele, Lawrence G 64
Abramson, Norman J 121
Acheson, James M 21
Ackley, Stephen F 20
Adams, Budd B 39
Adams, Charles E, Jr 89
Adams, Donald D 83
Adams, E Eric 6
Adams, John K 89
Adams, Michael F 125
Adams, Phillip A 112
Adams, Peter B 121
Adelman, William J, Jr 8
Adelseck, Charles G, Jr 104
Adey, Walter H 43
Adish, Mohammad R 91
Agarwal, Santosh Kumar 90
Agrawal, Yogesh Chandra 11
Ahlfeld, Thomas E 38
Ahmed, Saiyed I 136
Ahrenholz, Dean W 59
Ahrens, John P 51
Aitken, Thomas Dallas 29
Akens, John J 11
Albro, Carl S 82
Alden, Raymond W, III 55
Aldrich, David V 93
Alers, Perry B 39
Alevizon, William S 67
Alexander, Steve K 93
Alexander, Vera 140
Alexiou, Arthur G 48
Alkan, David L 8
Alldredge, Alice L 114
Allen, Arthur A 9
Allen, Dennis M 61
Allen, Donald M 70
Allen, John S 128
Allen, P Geoffrey 3
Allen, Robin L 109
Allender, James H 78
Aller, Robert C 87
Allmendinger, Richard W 33
Almeida, Frank P 9
Almodovar, Luis R 3
Alpha, Tau R 117
Alston, Dallas E 3
Alvarino, Angeles 103
Amein, Michael 57
Ames, Jack A 115
Ames, Warren E 138
Amesbury, Steven S 127
Amos, Anthony F 95
Amos, Murray H 133
Amy, Penny S 128
Anawalt, Richard A 50
Anderegg, Robert J 21
Anderhalt, Robert W 82

Andersen, Henry S 41
Andersen, Neil R 42
Anderson, Aubrey L 78
Anderson, Clifford F 82
Anderson, Donald M 11
Anderson, Emory D 9
Anderson, Franz E 20
Anderson, George C 136
Anderson, Gary L 54
Anderson, John B 91
Anderson, John G 108
Anderson, Jack W 138
Anderson, O Roger 29
Anderson, Paul J 139
Anderson, Robert W 132
Anderson, Victor C 105
Andreae, Meinrat O 65
Andreas, Edgar L 20
Andren, Anders W 86
Andrews, Jay D 54
Andrews, James E 126
Andrews, Robert S 41
Angelovic, Joseph W 48
Angino, Ernest E 88
Anthony, Vaughn C 9
Antman, Herbert S 30
Apel, John R 46
Argyle, Ray L 84
Armstrong, David E 86
Armstrong, Reed S 18
Arnone, Robert A 78
Aron, William 133
Arrhenius, Gustaf O 109
Arthur, Robert S 105
Ashley, Gail M 28
Assel, Raymond A 83
Atema, Jelle 8
Atkinson, Gordon 90
Atkinson, Larry P 64
Atkinson, Marlin 126
Attaway, David H 48
Atwater, Tanya M 115
Atwood, Donald K 72
Au, David W K 103
Au, Whitlow W L 123
Aubert, Eugene J 83
Aubrey, David G 11
Austin, Herbert M 54
Austin, James A, Jr 92
Austin, Paul R 35
Austin, Roswell W 105
Avent, Robert M 92
Ayer, Elizabeth A 90
Ayers, Joseph L, Jr 5
Azam, Farooq 105

B

Babcock, Arthur L 101
Babcock, Malin M 140
Bacastow, Robert B 105
Bachman, Richard T 112

Bachman, Steven B 33
Backus, George E 108
Backus, Richard H 11
Bacon, Jerry C 28
Bacon, Michael P 11
Baer, Ledolph 47
Baiardi, John C 32
Baier, Rodger W 42
Bailard, James A 114
Bailey, Carmela A 39
Bailey, Jack E 140
Baker, D James, Jr 136
Baker, Edward T 131
Baker, Susan E 84
Baker, Ted N 29
Bakkala, Richard G 133
Bakun, Andrew 116
Bakus, Gerald J 98
Balazs, George H 124
Baldwin, Wayne J 124
Bales, Susan M Lee 45
Ball, Frederick W 125
Ball, John L, Jr 139
Ballantine, David L 3
Ballard, J Alan 79
Ballard, Robert D 11
Balletto, John H 26
Balsam, William L 32
Bane, Gilbert W 58
Bane, John M 57
Bankston, Donald C 11
Banner, Albert H 124
Banning, Davey L 110
Banse, Karl 136
Barbee, William D 47
Barber, Richard T 59
Barbieri, Richard W 46
Barcelona, Michael J 87
Barger, Lyman E 65
Barger, William R 39
Bargeski, Albert M 38
Barker, Albert J 5
Barlow, John 21
Barnard, J L 43
Barnard, Thomas A, Jr 54
Barnes, Clifford A 136
Barnes, Neal E 117
Barnes, Peter W 117
Barnes, Ross O 137
Barnes, Steven S 95
Barnett, Don G 41
Barnett, Tim P 109
Barrett, Izadore 103
Barrick, Robert C 136
Barrientos, Celso S 49
Barsdate, Robert J 140
Barter, Frederick W, II 76
Bartoo, Norman W 103
Bartram, James F 17
Basco, David Reed 94
Bascom, Willard N 100
Bass, Eugene L 51
Bassin, N Jay 38

- Bates, Timothy S 131
 Bathen, Karl H 126
 Bauer, Roger A 110
 Bauer, Raymond T 43
 Bauersfeld, Paul E, Jr 62
 Baumgartner, Donald J 129
 Baxter, John L 117
 Baxter, Lincoln, II 11
 Bayer, Robert C 21
 Bayliff, William H 109
 Baylor, Edward R 31
 Beal, M Allan 111
 Bear, Ralph N 39
 Beard, James K 17
 Beardsley, Grant L 71
 Beardsley, Robert C 11
 Beasley, Thomas M 128
 Beaumariage, Donald C 48
 Beckers, Charles V, Jr 16
 Beckert, Heino 88
 Beebe, John H 34
 Beeck, Thomas R 76
 Beers, John Rudolph 105
 Beeton, Alfred M 85
 Behrens, Earl Wm 92
 Behrens, William W, Jr 74
 Behringer, David W 72
 Belin, Charles W, Jr 63
 Belknap, Daniel F 74
 Bell, Charles E, Jr 55
 Bell, Gerald L 83
 Bell, Linda M 74
 Bender, Michael L 17
 Benggio, Bradford L 68
 Benner, David A 41
 Bennett, Joseph E 42
 Bennett, John R 83
 Bennett, Joseph T 25
 Bennett, Richard H 72
 Bennington, John P 87
 Benson, Andrew A 105
 Benson, Norman G 89
 Benson, Richard H 43
 Bentley, Michael D 21
 Bentor, Yaacov K 105
 Berberian, George A 72
 Berg, Carl J, Jr 8
 Berg, Dennis W 51
 Berger, Jonathan 108
 Berggren, William A 11
 Bergin, John M 39
 Bergstedt, Roger A 84
 Berkebile, C Alan 32
 Berkman, Evan F 7
 Berkson, Jonathan M 79
 Berlin, William H 84
 Berman, Alan 39
 Bernard, David R 129
 Bernard, Eddie N 131
 Berner, Leo D, Jr 94
 Bernstein, Robert L 105
 Berrien, Peter L 26
 Berry, Alan D 92
 Berry, Richard J 70
 Berry, Richard W 112
 Berryhill, Henry L, Jr 95
 Berteaux, Henri O 11
 Best, Edgar A 131
 Betzer, Peter R 74
 Beville, Elizabeth M 62
 Beyer, Larry A 117
 Bezdek, Hugo F 72
 Bidleman, Terry F 61
 Bienfang, Paul K 124
 Bieri, Rudolf H 54
 Biggs, Douglas C 94
 Biggs, Robert B 35
 Bindshadler, Robert Alan 46
 Binkowski, Fred P 86
 Birkeland, Charles E 127
 Birkemeier, William A 51
 Bisagni, James J 18
 Biscaye, Pierre E 29
 Bischoff, James L 117
 Bishop, James K B 29
 Bishop, James M 62
 Bishop, Joseph M 37
 Bishop, Paul L 20
 Bittaker, Henry Franklin 65
 Bitterman, David S 11
 Black, Robert E 8
 Blackwelder, Patricia L 68
 Blaha, John P 131
 Blahm, Theodore H 138
 Blair, Carvel H 55
 Blake, Donna W 79
 Blake, Norman J 75
 Blakemore, Richard P 20
 Bland, Edward L, Jr 11
 Blanton, Jackson O 64
 Blasco, Dolores 22
 Blaylock, Jimmie W 138
 Bleck, Rainer 69
 Bledsoe, Lewis J 136
 Bliss, Kenneth A 103
 Blizzard, Marvin A 80
 Bloeser, Bonnie 99
 Blogoslawski, Walter J 25
 Bloom, Gene L 111
 Blott, Alan J 5
 Blumen, Lorna S 52
 Blumenthal, Richard B 76
 Boardman, Charles W 3
 Boardman, Richard S 43
 Bock, Wayne D 70
 Bodammer, Joel E 51
 Bodie, Jeffrey G 116
 Boege, Julius R 76
 Boehlert, George Walter 129
 Boesch, Donald F 88
 Boese, Bruce Leon 129
 Bohlen, Walter F 24
 Bohlke, Eugenia B 35
 Bohlke, James E 35
 Boicourt, William C 49
 Bokuniewicz, Henry J 31
 Bolen, Zane K 90
 Bolsenga, S J 83
 Bolton, Ellis T 36
 Bolz, George R 9
 Bonaventura, Celia J 59
 Bonaventura, Joseph 59
 Bonnell, Ronald D 61
 Bookhout, Cazlyn G 59
 Boon, John D, III 54
 Booth, Beatrice C 136
 Booth, James S 10
 Booth, Newell O 112
 Boothe, Paul N 94
 Boraas, Martin E 86
 Boreman, John G, Jr 9
 Borns, Harold W, Jr 21
 Borrer, Arthur C 20
 Bortone, Stephen A 66
 Boss, Kenneth J 5
 Botbol, Joseph Moses 10
 Bothner, Michael H 10
 Botsford, Louis W 121
 Bottjer, David J 98
 Boucher, Gary W 117
 Bouma, Arnold H 95
 Bourke, Robert H 116
 Boutin, Paul R 11
 Bowen, Larry E 66
 Bowen, Vaughan T 11
 Bowers, James A 85
 Bowin, Carl O 11
 Bowles, Frederick A 79
 Bowles, Francis P 8
 Bowman, Malcolm J 31
 Bowman, Ray E 9
 Bowman, Thomas E 43
 Bowser, Carl J 86
 Boyar, Harold C 9
 Boyce, Robert Eugene 105
 Boyd, Steven H 11
 Boyer, Larry F 25
 Boyle, Edward A 6
 Boyle, Richard J 111
 Bradbury, Margaret G 120
 Bradley, Albert M 11
 Bradley, Keith F 11
 Bradley, Marshall R 88
 Bradner, Hugh 108
 Bradshaw, Alvin 11
 Braham, Howard W 133
 Brandon, Dale E 113
 Brandt, Joanne U 76
 Branscome, Lee E 69
 Brashier, Jerry 88
 Brass, Garrett W 70
 Brauner, John F 28
 Bray, Richard N 101
 Breeding, J Ernest, Jr 67
 Breiwick, Jeffrey M 133
 Brenchley, Gayle A 113
 Brenninkmeyer, Benno M 7
 Brenowitz, A Harry 30
 Breslau, Lloyd R 24

Bressan, David Joseph 39
 Bretherton, Francis P 97
 Bretschneider, Charles L 126
 Brewer, Gary D 99
 Brewer, Peter G 12
 Briggs, John C 75
 Bright, Thomas J 94
 Brill, Richard W 124
 Brinkhuis, Boudewijn H 31
 Brinton, Edward 105
 Briscoe, Melbourne G 12
 Britton, Joseph C 96
 Brocher, Thomas Mark 125
 Brock, David A 96
 Broecker, Wallace S 29
 Broich, William A 128
 Bromery, Randolph W 4
 Brook, Iver M 69
 Brooks, Albert L 23
 Brooks, Arthur S 86
 Brooks, David A 94
 Brooks, Edward M 7
 Brooks, James M 94
 Brothers, Edward B 33
 Browder, Joan A 71
 Browder, Lynn P 67
 Brown, Bradford E 9
 Brown, Carolyn 25
 Brown, Charles L 84
 Brown, Charles L 23
 Brown, David A 100
 Brown, Douglas E 23
 Brown, Donald W 133
 Brown, Edward H, Jr 84
 Brown, Eric S 133
 Brown, James T 60
 Brown, John W 72
 Brown, Louis B 42
 Brown, Laurie L 4
 Brown, Mary F 17
 Brown, Murray L 88
 Brown, Neil L 8
 Brown, Otis B 69
 Brown, Robin F 128
 Brown, William D 123
 Brown, Wendell S 20
 Browning, David G 23
 Bruce, John G 12
 Brucks, John T 78
 Bruland, Kenneth W 122
 Brundage, Walter L 39
 Brunson, Burlie A 79
 Brusher, Harold A 66
 Bryan, Charles F 89
 Bryan, George M 29
 Bryan, Kirk 27
 Bryan, Wilfred B 12
 Bryden, Harry Leonard 12
 Bucca, Paul J 79
 Bucher, William W 26
 Buck, Eugene H 41
 Buck, John D 24
 Bucker, Homer P 112

Buckley, Lawrence J 18
 Buffler, Richard T 92
 Buhl, Peter 29
 Bukry, John David 117
 Bullock, Theodore H 105
 Bullock, Wilbur L 20
 Bunce, Elizabeth T 12
 Bunce, John A 76
 Bunn, Alan R 82
 Burggren, Warren William 4
 Burk, Carl J 4
 Burke, John C 12
 Burke, Thomas E 38
 Burke, William D 81
 Burke, William T 132
 Burnett, Kaye R 55
 Burnett, William C 65
 Burns, Roger G 6
 Burns, Thurston J 9
 Burrell, David C 140
 Burrell, Victor G, Jr 62
 Bureson, Eugene M 54
 Burris, John E 34
 Burroughs, Lawrence D 49
 Bursey, Charles R 34
 Burt, Wayne V 128
 Burton, William D 132
 Busalacchi, Antonio J 65
 Busch, William J 48
 Buskirk, Ruth E 92
 Buss, Leo W 25
 Buth, Donald G 99
 Butler, James H 123
 Butler, James N 6
 Butman, Bradford 10
 Button, Don K 140
 Butzow, John W 21
 Buzas, Martin A 43
 Byrne, Charles J 9
 Byrne, Hugh M 131
 Byrne, John V 37
 Byrne, Robert H 75
 Byrne, Robert J 54

C

Cacchione, David A 117
 Cagle, Ben J 101
 Cagle, Jimmy B 82
 Cahn, Phyllis H 47
 Cailliet, Gregor M 122
 Caillouet, Charles W 93
 Cake, Edwin W, Jr 81
 Calabrese, Anthony 25
 Calaprice, John R 109
 Calder, Dale R 62
 Caldwell, Bruce A 128
 Caldwell, Douglas R 128
 Calkins, Thomas P 109
 Callaway, Richard J 127
 Calvin, Natasha I 140
 Camerlengo, Alejandro L 65

Camfield, Frederick E 51
 Campbell, Charles V 90
 Campbell, John Frisbee 126
 Campbell, Kerry J 113
 Campbell, William H, Jr 44
 Canada, Raymond H, Jr 78
 Canale-Parola, Ercole 4
 Cande, Steven C 29
 Candy, Don W 82
 Cane, Mark A 7
 Cannon, Glenn A 131
 Canoy, Michael J 3
 Capone, Douglas G 31
 Capuzzo, Judith M 12
 Car, Martial 76
 Carder, Kendall L 42
 Carey, Anne E 12
 Carey, Andrew G 128
 Carey, Earl W 39
 Carey, Francis G 12
 Carls, Mark G 140
 Carlson, Christopher T 117
 Carlson, David J 22
 Carlson, Harry Richard 140
 Carlson, Paul R 117
 Carlson, Richard L 94
 Carlson, Richard W 36
 Carlson, Thomas J 132
 Carlucci, Angelo Francis 105
 Carmel, Zeel 105
 Carney, Robert S 42
 Carpenter, Edward J 31
 Carpenter, James H 69
 Carpenter, Rich 60
 Carpenter, Roy 136
 Carr, John F 103
 Carriker,
 Melbourne Romaine 36
 Carroll, Jerry C 77
 Carsey, Frank Davis 46
 Carter, Harry H 31
 Case, Robert M 120
 Casey, John G 19
 Casey, Richard E 91
 Casler, Raymond L 66
 Cassidy, Dennis S 65
 Cassin, Joseph M 30
 Castagna, Michael 55
 Castile, Brett D 112
 Castle, John E 36
 Cater, Jack E 110
 Cathles, Lawrence M, III 34
 Catlos, Bohus 119
 Cavalieri, Donald J 46
 Cebren, Edward J 132
 Cerame-Vivas, Maximo J 3
 Cerlo, Carl F 54
 Cerrato, Robert M 31
 Ceruti, Marion G 123
 Chace, Fenner A, Jr 43
 Chaika, Edward D 79
 Chalmers, Alice G 63
 Chamberlain, Dilworth W 100

- Chamberlain, Stanley G 17
 Chamberlin, J Lockwood 18
 Chambers, James R 37
 Chambers, K Cliff 84
 Chan, Elaine I 37
 Chan, Kwan Ming 101
 Chanesman, Stanley 31
 Chaney, Ronald C 34
 Chang, Ernest S 121
 Chang, William Y B 85
 Chao, Shenn-Yu 68
 Chapman, Robert W 49
 Chapoton, Robert B 59
 Chappell, Alan C 77
 Chapra, Steven C 83
 Charlier, Roger Henri 87
 Charters, Alexander Crane 115
 Chase, Robert R P 42
 Chase, Thomas E 117
 Chave, Alan D 105
 Chave, Keith E 126
 Checkley, David M, Jr 95
 Cheek, Conrad H 39
 Cheek, Randall P 59
 Cheetham, Alan H 43
 Cheeves, George H 133
 Chelton, Dudley Boyd, Jr 102
 Chen, Chen-Tung A 128
 Chen, Davidson T 39
 Chen, Jing-Chang 119
 Chen, Jye 49
 Chen, Leslie H 24
 Cheney, Donald P 5
 Cheng, Lanna 105
 Chenoweth, Jean F 22
 Chenoweth, Stanley B 22
 Cherkis, Norman Z 39
 Chesnutt, Charles B 51
 Chess, James R 121
 Chester, Alexander J 59
 Chew, Frank 72
 Childress, James J 114
 Childs, Jonathan R 117
 Chin, Hong 110
 Chisholm, Malcolm A 119
 Chisholm, Sallie W 6
 Chistensen, Dale H 84
 Chiu, Tsao-Yi 67
 Chow, Tsaihwa J 105
 Chramiec, Mark A 17
 Christensen, Erik R 86
 Christensen, Nikolas I 136
 Christensen, Robert E 77
 Christman, Mary C 37
 Christmas, James Y, Jr 81
 Christy, John H 61
 Chuang, Wen-San 89
 Chun, Norman K N 123
 Chung, Yu-Chia 105
 Church, Thomas M 35
 Churchill, A Coolidge 30
 Churgin, James 38
 Cicerone, Ralph J 105
 Ciereszko, Leon S, Sr 90
 Ciesielski, Paul Frank 63
 Ciesluk, Alfred J 12
 Cifelli, Richard 43
 Cilweck, Blase A 113
 Cimato, James M 38
 Clague, David A 117
 Clancy, Roger M 79
 Clark, David L 86
 Clark, David M 96
 Clark, James R 79
 Clark, Kerry B 67
 Clark, Nathan E 105
 Clark, Robert C, Jr 133
 Clark, Stephen H 9
 Clark, Tony F 56
 Clarke, Allan J 136
 Clarke, Leo C 116
 Clarke, Thomas A 126
 Clausner, Edward 73
 Clay, Clarence S 86
 Clay, Peter R 12
 Clayton, William H 93
 Cleary, William J 58
 Clemente-Colon, Pablo 45
 Clements, Linda Coston 59
 Clifford, Charles H 12
 Cline, Joel D 131
 Clogston, Fred L 115
 Clotworthy, John H 37
 Coachman, Lawrence K 136
 Coan, Atilio L, Jr 103
 Cobb, David A 119
 Coch, Nicholas K 30
 Cochran, J Kirk 12
 Cochran, James R 29
 Cochran, John D 94
 Coddington, Keith 23
 Codispoti, Louis A 22
 Coe, James M 103
 Cofer, William F 91
 Coffee, Glendon L 76
 Coffey, Claude I 77
 Cohen, Curtis R 92
 Cohen, Daniel M 44
 Cohen, Edward B 9
 Cohen, Joel L 6
 Cohen, Philip M 47
 Cohen, Rosalind E 9
 Coher, Edward I 32
 Cok, Anthony E 30
 Cokelet, Edward D 131
 Colby, David R 59
 Cole, Jon S 109
 Cole, Timothy J 50
 Cole, William F 114
 Coleman, Essie M 71
 Coleman, James M 89
 Collard, Sneed B 66
 Collette, Bruce B 44
 Collins, Curtis Allan 42
 Collins, Clayton W, Jr 12
 Collins, J Ian 101
 Collins, Lynn Alan 66
 Colton, John B, Jr 19
 Colwell, Rita R 46
 Comiso, Josefino C 46
 Comp, Gary S 74
 Conklin, Douglas E 121
 Connell, Joseph H 115
 Conner, Joe W 64
 Connors, Donald N 16
 Connors, Peter G 121
 Connors, Thomas J 5
 Conomos, Tasso John 117
 Conser, Ramon J 71
 Cook, David O 16
 Cook, David W 81
 Cook, Steven K 18
 Cook, Thomas M 46
 Cooksey, Keith E 69
 Cooley, Richard A 122
 Cooley, Thomas N 42
 Cooney, Robert T 140
 Cooper, Alan K 118
 Cooper, John W 89
 Cooperman, Arthur I 38
 Copeland, Donald E 8
 Corazza, Luciano 35
 Corbett, Michael D 69
 Corcoran, Eugene F 69
 Cordes, Carroll L 89
 Corell, Robert W 20
 Corliss, Bruce H 12
 Corliss, John B 128
 Corliss, Jane P 82
 Cornillon, Peter C 7
 Cornyn, John J 79
 Corredor, Jorge E 3
 Correll, David L 49
 Corson, David W 8
 Corwin, Gilbert 52
 Corwin, Nathaniel 12
 Costello, Hugh John 23
 Costlow, John D 59
 Coulbourn, William T 105
 Coull, Bruce C 61
 Countryman, Kenneth A 77
 Cowen, Steven J 111
 Cowles, Timothy J 12
 Cowley, Gerald T 61
 Cox, Bruce A 96
 Cox, Charles S 105
 Cox, Doak C 126
 Cox, Gordon F N 20
 Cox, James L 115
 Cox, Michael D 27
 Coyer, James A 113
 Coyle, Arthur J 82
 Craddock, James E 12
 Crane, Richard D 23
 Craudell, George F 123
 Crawford, Harry Michael 110
 Crawford, Richard E 17
 Creager, Joe S 136
 Creaser, Edwin Philip 22

Crecelius, Eric A 138
 Crerar, David A 27
 Cressey, Roger F 43
 Criminale, William O 136
 Criswell, David Russell 105
 Critchlow, Kenneth R 99
 Croker, Robert A 20
 Cromwell, John E 101
 Cronin, L Eugene 50
 Cronin, William B 49
 Cross, Ford A 59
 Cross, Jeffrey N 100
 Cross, Ralph H, III 110
 Crow, John H 26
 Crow, Michael E 71
 Crowell, Robert B 96
 Crozier, George F 75
 Csanady, Gabriel T 12
 Cubit, John D 75
 Cuffey, Roger J 34
 Culbertson, Charles H 35
 Culver, Stephen J 43
 Cummings, Carol E 87
 Cummings, John A 86
 Cummings, Shailer R, Jr 72
 Cummings, William C 105
 Cummins, Robert, Jr 62
 Cundy, Donald F 24
 Curl, Herbert C, Jr 135
 Curran, H Allen 4
 Curtin, Thomas B 57
 Cushman-Roisin, Benoit 65
 Cutchin, David L 105
 Cutress, Charles E 3
 Cuzon Du Rest, Rene P 38
 Cybulski, John 39
 Czarnecki, Michael F 73
 Czerniak, Martin T 101
 Czlapinski, Richard E 25

D

D'Abramo, Louis R 121
 D'Agostino, Anthony 32
 Dahlberg, Michael L 140
 Dahlen, John M 6
 Dahm, Clifford N 127
 Dailey, Murray D 101
 Dalrymple, Robert A 35
 Dame, Richard F 61
 Damkaer, David M 136
 Damuth, John E 29
 Daniel, Thomas H 119
 Darby, Dennis A 55
 Darcy, George H 71
 Dark, Thomas A 133
 Darley, Walter M 63
 Darrell, Charles G 79
 Darzi, Michael 65
 D'Asaro, Charles N 66
 Davidson, Brad M 102
 Davidson, James Blaine 73

Davidson, Kenneth L 116
 Davies, Thomas A 37
 Davin, Edward M 42
 Davis, Bonnie J 120
 Davis, Curtiss O 121
 Davis, George M 35
 Davis, James A 79
 Davis, Russ E 105
 Davis, Ralph G 93
 Davis, Thomas M 77
 Dawley, Earl M 133
 Dawson, C E 81
 Day, Donald S 78
 Dayton, Paul K 105
 Dean, John Mark 61
 Dean, Jerome P 12
 Dean, Robert C 75
 Dean, Thomas A 115
 Dearborn, John H 21
 Deardorff, Thomas L 81
 Debrule, Paul M 57
 Deck, Bruce L 29
 De Coursey, Patricia J 61
 Defenbaugh, Richard E 88
 De Ferrari, Harry A 70
 Dehlinger, Peter 24
 Delaca, Ted E 105
 Del Balzo, Donald R 39
 DeLeonibus, Pat S 45
 Del Grosso, Vincent A 39
 D'Elia, Christopher F 45
 Delisi, Donald P 130
 Dello Stritto, Frank J 90
 Delnore, Victor E 56
 Del Vecchio, Joseph J, Jr 39
 DeManche, Michael 98
 Demarest, Jeffery Roy 121
 DeMartini, Edward E 115
 DeMaster, David J 57
 DeMaster, Douglas Paul 103
 Demonan, William J 81
 Denham, Charles R 12
 Dennis, Robert E 38
 DePalma, John R 77
 Derecki, Jan A 83
 Deriso, Richard B 131
 Dery, Louise M 9
 Desaubies, Yves J F 12
 Despres-Patanjo, Linda I 9
 de Silva, Donald P 69
 deSzoeki, Roland A 128
 Deubert, Karl H 8
 Deuser, Werner G 12
 DeVane, John C, Jr 62
 DeVries, Douglas A 60
 DeWall, Allan E 51
 deWit, Leray A 99
 DeWitt, Hugh H 22
 de Witt, Wallace, III 38
 Dexter, Barbara L 128
 Dexter, Stephen C 36
 Diachok, Orest I 39
 Diamante, John M 47

Diana, James S 85
 Diaz, Robert J 54
 Diaz-Piferrer, Manuel R 3
 Dick, Henry J B 12
 Dickey, John S, Jr 42
 Dickey, Tommy D 98
 Dicus, Ronald L 39
 Diebold, John B 29
 Dieter, Emma R 140
 Dietz, Robert S 98
 Dill, Charles E 26
 Dill, Jan E 124
 Dill, Robert F 3
 Dilley, John F 34
 Dillon, Thomas M 128
 Dillon, William P 10
 DiMichele, Leonard V 49
 Dingler, John R 118
 Dinter, David A 118
 DiPiazza, Nicholas J 77
 Disser, William C 119
 Ditsworth, George R 129
 Dizon, Andrew E 125
 Dobi, John Steven 26
 Doblar, Randy A 77
 Dobson, Benjamin M 114
 Dodge, Richard E 68
 Doherty, Kenneth William 12
 Dohl, Thomas P 122
 Donaghay, Percy L 128
 Donaldson, Henry A 16
 Donat, John R 113
 Dongiallo, Michael J 38
 Donn, William L 29
 Donnelly, Peter J 9
 Donoghue, Joseph F 43
 Dooley, Austin W 120
 Dooley, James K 30
 Dorigan, Janet V 41
 Dorman, Clive E 112
 Dorr, John A, III 85
 Dorsey, John H 113
 Dortch, Frances Q 136
 Douglas, Robert G 98
 Douth, James A 12
 Dowling, George B 66
 Dowling, John J 24
 Downing, Jere D 4
 Doyle, John P 139
 Doyle, Larry J 75
 Dragovich, Alexander 71
 Drake, Charles L 19
 Dressel, David M 37
 Drucker, Benson 37
 Drummond, Shelby B 82
 Drummond, Scott E, Jr 123
 Duane, David B 48
 Dubach, Harold W 58
 Duce, Robert A 17
 Ducklow, Hugh W 29
 Dudley, Donnie L 59
 Duedall, Iver W 31
 Duennebier, Frederick K 126

Duff, Casper B 77
 Dugan, John P 39
 Dugdale, Richard C 98
 Duncan, Peter 121
 Duncan, Robert A 128
 Dunkle, William M 12
 Dunn, Jean Richard 133
 Dunn, Stanley E 73
 Dunson, William A 34
 Dunstan, William Morgan 55
 DuPaul, William D 54
 Durham, Donald L 79
 Durham, Leonard 87
 Dustan, Phillip 105
 Duxbury, Alyn C 136
 D'Vincent, Susan L 103
 Dyer, Robert S 41
 Dymond, Jack R 128

E

Eadie, Brian J 83
 Eastin, Rene 32
 Eaton, Andrew D 101
 Ebel, Wesley J 133
 Ebeling, Alfred W 114
 Eber, Laurence E 103
 Eberhardt, Robert L 111
 Ebersole, John P 5
 Ebert, Earl E 115
 Echeverria, Tina 121
 Eckelbarger, Kevin J 73
 Eckert, David B 125
 Eckert, James W 51
 Edel, Richard K 17
 Edgar, N Terence 52
 Edge, Billy L 62
 Edgington, David N 86
 Edman, John D 4
 Edmond, John M 6
 Edsall, Carol Cotant 84
 Edsall, Douglas W 50
 Edsall, Thomas A 84
 Edwards, Dallas Craig 4
 Edwards, Norman C, Jr 24
 Edwards, Robert L 9
 Ehrlich, Henry L 32
 Eiseman, Nathaniel J 73
 Eittreim, Stephen L 118
 Eklund, Melvin W 133
 Elder, Robert B 42
 Eldredge, Lucius G 127
 Eldridge, Jacqueline C 102
 Eldridge, Maxwell B 121
 Eldridge, Peter J 62
 Eldridge, Peter M 102
 Eleuterius, Lionel N 81
 Ellers, Fred S 119
 Elliot, Joe O 39
 Ellis, C Howard 96
 Ellis, Jeffrey P 12
 Ellis, Robert H 27

Ellis, Robert J 140
 Ellwood, Brooks B 63
 Elrod, Joseph H 84
 Elsberry, Russell L 116
 Elsner, Robert 140
 Elston, Ralph A 33
 Elvers, Douglas J 88
 Embley, Robert W 47
 Emerick, Christina M 128
 Emmel, Frans J 109
 Enfield, David B 128
 Engel, David W 59
 English, T Saunders 136
 Enright, James T 105
 Epifanio, Charles E 35
 Epp, David 126
 Eppert, Herbert C, Jr 79
 Eppley, Richard W 105
 Eriksen, Charles C 6
 Ernst, John A 45
 Ernst, William D 97
 Erskian, Malcolm G 73
 Escowitz, Edward C 52
 Estes, Ernest L 93
 Estes, Jim A 122
 Estevez, Ernest D 74
 Estoque, Mariano A 69
 Evans, David A 54
 Evans, David L 17
 Evans, Geoffrey T 12
 Evans, Kirk E 79
 Evans, Marlene S 85
 Evans, Richard H 103
 Evans, Robert H, Jr 69
 Evans, William E 110
 Everdale, Fred G 38
 Eversole, Arnold G 62
 Everts, Craig H 51
 Ewald, Jeffrey Louis 25
 Ewing, John I 12
 Ewing, Steven R 77

F

Fable, William A, Jr 66
 Factor, Jan Robert 74
 Fagot, Martin G 79
 Fahay, Michael P 26
 Fahy, William E 61
 Fainstein, Roberto 68
 Fallon, William E 139
 Fan, Pow-foong 126
 Fannaly, Marion T 89
 Fanning, Kent A 75
 Fanse, Vinaykumar R 119
 Farber, Mark I 71
 Farentinos, Robert Chris 97
 Farland, Robert J 48
 Farley, Charles Austin 51
 Farley, Timothy C 123
 Farmanfarmanian, A 27
 Farmer, Franklin H 22

Farr, Winston E 133
 Farrington, John W 12
 Farwell, Robert W 34
 Fast, Arlo W 124
 Fauchald, Kristian 43
 Fausak, Leland E 99
 Faust, Maria A 49
 Fawcett, James A 100
 Fay, Francis H 140
 Fecher, Michael P 23
 Feden, Robert H 39
 Feder, Howard M 140
 Feely, Richard Alan 131
 Feigenbaum, David L 56
 Feldhausen, Peter H 46
 Feldman, Henry R 132
 Feldt, Laurie E 85
 Fell, Jack W 69
 Feller, Robert J 61
 Feng, Sung Y 24
 Fenical, William H 105
 Ferek, Ronald J 65
 Ferer, Kenneth M 79
 Ferguson, Randolph L 59
 Ferrari, Frank D 44
 Festa, John F 72
 Fett, Robert W 117
 Fiadeiro, Manuel E 25
 Fife, William P 93
 Figueroa, Jose L 3
 Filloux, Jean H 105
 Findikakis, Angelos N 119
 Findley, Davis L 76
 Fine, Rana A 69
 Finerty, Martin J, Jr 77
 Fink, L Kenneth, Jr 22
 Fink, Tony 122
 Finkel, Robert C 105
 Finkelstein, Kenneth 51
 Finkl, Charles W 68
 Finkle, Elliott A 48
 Finlon, Francis P 34
 Finn, John T 4
 Finucane, John H 66
 Firing, Eric 126
 Firmage, David H 23
 Fischer, Eugene Charles 50
 Fischer, Joseph 124
 Fischer, Wayne J 97
 Fisher, David E 70
 Fisher, Frederick H 105
 Fisher, John S 63
 Fisher, Leo J 37
 Fisher, Michael A 118
 Fisher, Robert L 105
 Fisher, Thomas 50
 Fitzgerald, Cathleen M 99
 Fitzgerald, William F 24
 Flakes, Curtis M 76
 Flandorfer, Max C 81
 Flatte, Stanley M 122
 Fleer, Alan P 12
 Flegal, Arthur R 122

Fleischer, Peter 79
 Fleisher, Robert L 90
 Fleming, Douglas K 136
 Fleming, Eugene R 123
 Fleming, Henry S 39
 Fleming, Richard H 132
 Fleming, Rex J 48
 Fleminger, Abraham 105
 Fletcher, Richard Ian 136
 Flick, George J, Jr 56
 Flick, Reinhard E 105
 Flierl, Glenn R 7
 Flint, R Warren 95
 Flipse, John E 94
 Flittner, Glenn A 49
 Flood, Roger D 29
 Florwick, Donald J 47
 Floyd, Robert W 124
 Fluharty, David L 132
 Foerster, John W 50
 Fofonoff, Nicholas P 12
 Fogarty, Michael J 9
 Foley, Edward W 45
 Folger, David W 10
 Follett, L Frank 124
 Folmar, Leroy C 129
 Folsom, Theodore R 105
 Foo, E-Chien 65
 Foote, Richard Q 10
 Ford, Robert S, Jr 82
 Forde, Evan B 72
 Foreman, Terry J 109
 Forhan, Thomas F 42
 Forman, W Wayne 88
 Fornshell, John A 44
 Forristall, George Z 91
 Fortner, Alan R 62
 Forward, Richard B, Jr 59
 Foster, Harold A 9
 Foster, Maridell A 123
 Foster, Merrill W 87
 Foster, Neal R 84
 Fotheringham, Nick 92
 Fowler, Charles W 133
 Fox, Christopher G 77
 Fox, Denis L 106
 Fox, William W, Jr 71
 Foxworthy, James E 100
 Fralick, Richard A 19
 Franc, Louis J 77
 Franchi, Edward R 39
 Francis, Robert C 133
 Frankenberg, Dirk 57
 Frankignoul, Claude J 7
 Frazer, Jane Z 103
 Frazer, L Neil 126
 Frazier, John M 49
 Freeland, George L 72
 Freeman, David L 28
 Freeman, Robert R 47
 French, Carolyn O 89
 Frew, Nelson M 12
 Frey, Bruce E 128

Frey, Henry R 47
 Friedheim, Robert L 99
 Friedl, William A 124
 Frincke, James M 106
 Frink, Donald W 82
 Frisk, George V 12
 Fritts, David C 130
 Froelich, Alina Szmant 65
 Froelich, Philip N 65
 Frohlich, Cliff 92
 Frolander, Herbert F 128
 Frost, Bruce W 137
 Fry, Edward S 94
 Frydenlund, David D 120
 Fryxell, Greta A 94
 Fu, Lee-Lueng 102
 Fucik, Kenneth W 96
 Fujimoto, Michael M 125
 Fujioka, Jeffrey T 141
 Furuya, Okitsugu 101
 Fye, Paul M 12

G

Gagosian, Robert B 12
 Gaither, William S 35
 Galehouse, Jon S 120
 Gallagher, Scott M 12
 Gallagher, Jane C 28
 Gallagher, John L 36
 Gallucci, Vincent F 136
 Galt, Charles P 101
 Galt, Jerry A 135
 Galus, Albert J 79
 Galvin, Cyril J 53
 Gandy, Walter F 78
 Ganse, Robert A 47
 Garcia, Michael O 126
 Garcia, William J, Jr 119
 Gardiner, Lion F 26
 Gardiner, Stephen L 43
 Gardner, James V 118
 Gardner, Robert R 79
 Gardner, Wilford D 29
 Gardner, Wayne S 83
 Garmany, Jan D 137
 Garrels, Robert M 75
 Garrett, William D 39
 Garrison, Louis E 95
 Garrison, Tom S 112
 Garside, Christopher 22
 Gartner, Stefan 94
 Garvine, Richard W 35
 Garwood, Roland W 116
 Gast, James A 123
 Gastil, Russell Gordon 112
 Gatto, Lawrence W 20
 Gavis, Jerome 49
 Gearing, Juanita N 17
 Gearing, Patrick J 17
 Geddes, Wilburt H 77
 Geelhood, Bruce D 111

Geesey, Gill G 101
 Gehring, Howard B 44
 Gehring, William R 74
 Geibel, John J 117
 Geiger, Mark L 77
 Geisler, John E 69
 Gent, Peter R 97
 Gentry, Roger L 133
 Georgi, Daniel T 12
 Gerard, Robert D 29
 Gerrish, Harold P 69
 Gettleson, David A 74
 Gettrust, Joseph F 126
 Giammona, Charles P 94
 Gibbs, Robert H, Jr 44
 Gibbs, Stephen R 132
 Gibor, Aharon 114
 Gibson, Carl H 104
 Gibson, Charles I 138
 Gibson, Donald T 40
 Gibson, Robert A 73
 Giese, Graham S 16
 Gieskes, Joris M 106
 Gilbert, Thomas R 5
 Gill, Charles D 133
 Gillery, Alison M 68
 Gillespie, David M 63
 Gillikin, John W, Jr 60
 Gilmartin, Malvern 21
 Gilmartin, William G 125
 Gilmore, Richard G 73
 Ginsburg, Robert N 69
 Gitschlag, Gregg R 93
 Given, Robert R 100
 Glass, Billy P 36
 Glenn, Alfred H 88
 Glickman, Perry N 68
 Glimme, Thomas M 120
 Gloersen, Per 46
 Glover, Hilary E 22
 Glover, L K 49
 Glynn, Peter W 75
 Goad, Linda M 85
 Godfrey, Paul Jeffrey 4
 Godin, Raymond H 41
 Goering, John J 140
 Goldberg, Alan M 49
 Goldberg, Arthur S 32
 Goldberg, Edward D 106
 Goldberg, Walter M 73
 Goldman, Gary C 63
 Goldman, Joel L 12
 Goldmintz, Daniel 62
 Goldsborough, Robert G, III 12
 Goldsmith, Roger A 12
 Gombos, Andrew M, Jr 90
 Gondeck, Allan R 67
 Gonor, Jefferson John 129
 Gonzalez, Frank I 131
 Goodell, Horace Grant 53
 Gooding, Reginald M 125
 Goodman, Ralph R 79

Goodrich, David M 31
 Goodyear, Carole D 84
 Gordon, Alan 111
 Gordon, Bernard L 5
 Gordon, Clifford M 39
 Gordon, Julius 35
 Gordon, Louis I 128
 Gordon, Malcolm S 99
 Gore, Robert H 74
 Goreau, Peter David 23
 Gorman, John M 23
 Gorsline, Donn S 98
 Gosselink, James G 89
 Gough, Edward C, Jr 88
 Gould, Edith 25
 Gould, Howard R 90
 Gould, Mark D 16
 Goulet, Julien R, Jr 19
 Grable, Albert E 139
 Grabowski, Walter J 52
 Gracy, Robert C 82
 Grady, John R 66
 Graham, Jeffrey B 106
 Graham, Joseph J 22
 Graham, John W 102
 Graham, Linda E 86
 Graham, William F 48
 Graikoski, John T 25
 Grant, Clarence L 20
 Grant, George C 54
 Grant, John B 96
 Grant, James D 26
 Grant, Richard E 43
 Grant, William D 12
 Grantz, Arthur 118
 Grassle, J Frederick 12
 Grassle, Judith P 8
 Green, Albert W 79
 Green, Arthur W, Jr 10
 Green, Edward J 80
 Green, Karen D 113
 Green, Kenneth E 91
 Green, Theodore 86
 Greenberg, Jonathan J 118
 Greenberg, Michael J 64
 Greenewalt, David 39
 Greenhood, Edward C 123
 Greenough, Joseph W 109
 Greenslate, Jimmie L 110
 Gregg, Michael C 132
 Greig, Richard A 25
 Greisman, Paul 24
 Grice, George D 12
 Griffin, James J 17
 Griffin, John J 109
 Griffin, Lawrence L 93
 Griffin, Owen M 39
 Griffith, Robert W 16
 Griffiths, Robert P 128
 Grigg, Richard W 124
 Griggs, Gary 122
 Grim, Paul J 96
 Griscom, Clement A 17

Griswold, Carolyn A 19
 Groat, Cynthia S 83
 Groman, Robert C 13
 Gronlund, William D 133
 Grose, Peter L 38
 Gross, M Grant 42
 Gross, Paul R 8
 Grosskopf, William G 51
 Grosslein, Marvin D 9
 Grow, John A 10
 Gruber, Samuel H 69
 Gruger, Edward H, Jr 133
 Grussendorf, Mark J 38
 Gsell, William L 77
 Guber, Albert L 34
 Guillard, Robert R L 13
 Gunderson, Donald R 136
 Gunn, John T 130
 Gunnerson, Charles G 97
 Gunter, Gordon 81
 Gust, Giseler R 75
 Guthertz, Elmer J 82
 Guza, Robert T 106

H

Haas, Leonard W 54
 Habib, Daniel 30
 Hachmeister, Lon E 130
 Hackman, Donald J 82
 Hackney, Courtney T 58
 Haderlie, Eugene C 116
 Hadsell, Philip R 38
 Hagood, Randolph W 124
 Haidvogel, Dale B 13
 Haight, Richard E 141
 Hain, James H W 17
 Haines, M Lynn 37
 Hall, Adron F 77
 Hall, Alice S 133
 Hall, James Michael 48
 Hall, John R, III 37
 Hall, Robert E 25
 Hall, Richard W 124
 Hallermeier, Robert J 51
 Halliwell, George R, Jr 128
 Hallock, Zachariah R 77
 Halpern, David 131
 Halunen, A John 114
 Hamer, Sharon T 102
 Hamilton, D Heyward, Jr 42
 Hamilton, Douglas R 38
 Hamilton, Edwin L 112
 Hamilton, Glenn D 78
 Hamilton, Gordon R 80
 Hamilton, Peter 57
 Hamm, Donald P 110
 Hammel, Harold T 106
 Hammer, Richard M 74
 Hammond, Douglas E 98
 Hammond, Stephen R 47
 Hampson, George R 13
 Hampton, Monty A 118
 Han, Gregory C 72
 Han, Maung H 32
 Hancock, Danil R 128
 Hand, Cadet H, Jr 121
 Handley, Lawrence R 88
 Hands, Edward B 51
 Haney, Robert L 116
 Hann, Roy W, Jr 94
 Hannah, Robert P 78
 Hannaham, James H 39
 Hannan, Patrick J 39
 Hansen, Donald V 72
 Hanson, Joyce L 141
 Hanson, Lee H 84
 Hanson, Peter J 59
 Hanson, Roger B 64
 Hanson, Walter E 44
 Haq, Bilal U 13
 Harbison, G Richard 13
 Hard, Carl G 7
 Harden, David Guy 113
 Harding, James L 63
 Hardman, William H 131
 Hardwick, James E 115
 Hardy, John T 138
 Hardy, Larry H 59
 Hare, Cyrus M 51
 Hargis, William J 54
 Hargraves, Paul E 17
 Harleman, Donald R F 6
 Harmon, John B, Jr 123
 Harosi, Ferenc I 8
 Harper, Donald E, Jr 93
 Harper, Douglas E 71
 Harris, Denton B 4
 Harris, D Lee 67
 Harris, Howard S 135
 Harris, Leslie Helene 100
 Harris, Richard L 54
 Harris, W Burleigh 58
 Harrison, Christopher G A 70
 Harrison, Don E 7
 Harrison, Wyman 87
 Hart, C W, Jr 43
 Hartman, Michael C 74
 Hartman, Willard D 25
 Hartman, Wilbur L 84
 Hartt, William H 73
 Hartwell, Allan D 19
 Harvey, George R 72
 Harvey, George W 123
 Harvey, James T 128
 Hascall, Hudson L C 124
 Haseltine, Arthur W 115
 Hassler, William Walton 57
 Hatch, Richard W 84
 Hatcher, Charles O 84
 Hathaway, John C 10
 Hatheway, Darryl J 92
 Haun, Jeffrey E 124
 Haury, Loren R 106
 Haustein, James R 90

- Haven, Dexter S 54
Hawke, John P 75
Hawkins, James W, Jr 106
Hawkins, William E 81
Hawley, Eugene F 52
Haxby, William F 29
Haxo, Francis T 106
Hay, William W 37
Hayden, Brian P 68
Hayes, Dennis E 29
Hayes, John G 5
Hayes, Murray L 133
Hayes, Stanley P 131
Haynes, Evan B 141
Haynes, Elizabeth D 37
Hays, Earl E 13
Hayward, Thomas L 106
Hazelworth, John B 72
Healy, Michael L 137
Heard, Richard W 81
Heath, G Ross 128
Heaton, Monteith G 113
Heatwole, Charles A 28
Hebard, J Frank 97
Hebenstreit, Gerald T 52
Heburn, George W 77
Hecht, Alan D 42
Heck, Kenneth L 35
Hecker, Barbara 29
Hecker, George M 56
Hecker, Stanley 81
Heckman, Paul J, Jr 111
Hedgecock, Dennis 121
Hedges, John I 137
Heibel, Anthony D 77
Heidersbach, Robert H, Jr 18
Hein, James R 118
Heinbokel, John F 49
Heinc, John C 7
Heinrichs, Donald F 42
Heirtzler, James R 13
Heiser, John B 33
Helfrich, Philip 124
Helle, John H 141
Helsley, Charles E 126
Hemmingsen, Barbara B 112
Hemsley, James M 52
Henderson, John R 103
Hendler, Gordon L 44
Hendricks, Peter J 130
Hendricks, Tareah John 100
Hennegan, Robert M 23
Hennemuth, Richard C 9
Henrichs, Susan M 106
Henriquez, Ted A 67
Henry, Dora P 137
Henry, Frank 115
Henry, Kenneth A 133
Henry, Victor D 133
Henry, Vernon J 64
Hensley, Dannie A 3
Henwood, Terry A 82
Hepler, Peter K 4
Herke, William H 89
Herkelrath, James M 138
Herman-Rosenberg, Yvonne Z 138
Hernandez-Avila, Manuel L 3
Heron, Gayle A 137
Heron, Stephen Duncan, Jr 58
Herr, Frank L 39
Herrick, Samuel F, Jr 103
Herring, James R 80
Herrnkind, William F 64
Herron, Ellen M 29
Herron, Thomas J 26
Hershman, Marc J 132
Hess, Charles Thomas 21
Hess, Frederick R 13
Hess, Gordon R 118
Hess, Kurt W 49
Hesselberg, Robert J 84
Hessler, Robert R 106
Hetrick, Frank M 46
Hettler, William F 59
Hewitt, Roger P 103
Hey, Richard N 126
Heyamoto, Hiromu 133
Hibbits, Jolly 138
Hibler, William D, III 20
Hickey, Barbara M 137
Hicks, Steady D 47
Hida, Thomas S 125
Higashi, Glenn R 125
Higerd, Thomas B 62
Higgins, Robert P 43
Higgs, Robert H 77
High, William L 133
Highsmith, Raymond J 75
Higman, James B 69
Hilde, Thomas W C 94
Hill, Gary W 118
Hill, Robert H 40
Hillson, Charles J 34
Hiltabrand, Robert R 24
Hiltunen, Jarl K 84
Hine, Albert C 75
Hines, Anson H 49
Hines, Mark E 20
Hinman, Kendall G, Jr 79
Hirota, Jed 126
Hirsch, Nina D 121
Hirschberg, David J 31
Hirschhorn, George 133
Hitchcock, Gary L 17
Hitron, John W 74
Hittelman, Allen M 96
Hoag, Stephen H 131
Hobbs, Carl H, III 54
Hobbs, Larry J 133
Hobson, Edmund S 121
Hobson, Richard David 52
Hodgins, Harold O 133
Hodgson, Edward S 7
Hodgson, Robert T 123
Hoese, H Dickson 89
Hoff, James G 16
Hoffman, Eva J 17
Hoffman, George J 113
Hoffman, John F 50
Hoffman, Sarah E 128
Hoffman, Steven Gary 75
Hofman, Robert J 36
Hofmann, Eileen E 65
Hogg, Nelson G 13
Hogg, Randall Gregory 74
Holbrook, James R 131
Holcombe, Troy L 94
Holden, Robert B 120
Holland, Benjamin F 60
Holland, Clifford R 79
Holland, Heinrich Dieter 6
Holland, Jan P 34
Holland, William R 97
Holley, Hillman J 78
Hollister, Charles D 13
Hollman, Rudolph 79
Holloway, Greg 137
Holman, Robert A 128
Holmes, Charles W 95
Holmes, Mark L 132
Holmes, William N 114
Holm-Hansen, Osmund 106
Holstrom, Marshall V 113
Holt, Deane E 42
Holt, Gloria Joan 95
Holt, Rennie S 103
Holyer, Ronald J 79
Honjo, Susumu 13
Honnorez, Jose J 70
Honnorez-Guerstein, B Melba 70
Hood, Donald W 137
Hood, Mary A 66
Hooper, Irving R 59
Hooper, Peter F 5
Hoopes, John A 119
Hopkins, Thomas L 75
Hopkins, Thomas S 75
Hopkinson, Charles S 63
Horai, Ki-iti 29
Horn, Michael H 112
Hosier, Paul E 58
Hoskin, Charles M 73
Hoss, Donald E 59
Houbbrick, Richard S 43
Hough, John C 114
Houghton, Richard A 8
Houghton, Robert W 29
Houk, James L 115
Houtz, Robert E 29
Howard, Bruce M 120
Howard, James D 64
Howard, Walter W 66
Howarth, Robert W 8
Howell, Gary L 67
Howey, Terry W 102
Howse, Harold D 81
Hsu, Shih-Ang 89
Hsueh, Ya 65

Hu, Ju-Shey 101
 Huang, James C 17
 Huang, Joseph C K 83
 Huang, Norden E 55
 Huang, Ter-Chien 17
 Hubbard, Dennis K 3
 Huber, Bruce A 29
 Huber, Calvin O 86
 Hubertz, Jon M 52
 Hubiak, Frank 76
 Huddell, Howard D 77
 Hudson, James H 68
 Huggett, Robert J 54
 Hughes, Frank W 136
 Hughes, John R 133
 Hughes, Kent H 38
 Hughes, Steve E 133
 Huguenin, John Edward 11
 Hugus, George D 67
 Huish, Melvin T 57
 Hulbert, Matthew H 23
 Hulburt, Edward M 13
 Hull, Arthur N 132
 Hull, Wesley V 47
 Hulmes, Leita J 52
 Hulsemann, Jobst 103
 Hulsemann, Kuni 103
 Hultin, Herbert O 5
 Humes, Arthur G 8
 Humm, Harold J 75
 Humphreys, David H 23
 Humphries, Edythe M 50
 Hunkins, Kenneth L 29
 Hunt, Carlton D 17
 Hunt, Dianne R 81
 Hunt, George L, Jr 113
 Hunt, John M 13
 Hunt, Mary M 13
 Hunter, Charles J 133
 Hunter, John R 103
 Hunter, Ralph E 118
 Hunter, William P 56
 Huntley, Mark E 109
 Huntsman, Gene R 59
 Hurd, Lawrence E 36
 Hurlburt, Harley E 79
 Hurley, Robert J 122
 Hurme, Arthur K 52
 Husby, David M 116
 Hussong, Donald M 126
 Huyer, Adriana 128
 Hyer, Paul V 54
 Hymes, William H 41

I

Ianniello, John Peter 23
 Ibara, Richard M 16
 Ichiye, Takashi 94
 Ikawa, Miyoshi 20
 Inderbitzen, Anton L 42
 Ingham, Merton C 18

Ingle, James C 120
 Ingraham, W James, Jr 133
 Inman, Douglas L 106
 Innerfeld, Hank 26
 Innis, David B 102
 Inoue, Shinya 8
 Irish, James D 20
 Ito, Emi 36
 Iturriaga, Rodolfo H 98
 Iversen, Edwin S 69
 Iverson, Richard L 65
 Ivester, M Susan 76
 Ivey, Larry E 67

J

Jackson, Darrell R 132
 Jackson, Frederick C 46
 Jackson, Francis Joseph 8
 Jackson, George A 106
 Jackson, Terry D 103
 Jackson, William B 93
 Jacobs, Stanley S 29
 Jacobson, Randall S 79
 Jadamec, Joseph Richard 24
 Jaenicke, Herbert W 141
 James, Richard W 39
 Jannasch, Holger W 13
 Janowitz, Gerald S 57
 Jarrard, Richard D 29
 Jearld, Ambrose, Jr 9
 Jeck, Richard K 40
 Jeffrey, Lela M 94
 Jeffrey, Norris B 37
 Jeffries, H Perry 17
 Jelesnianski, Chester P 49
 Jenkins, Williams J 13
 Jenner, Charles E 57
 Jennings, Joe C, Jr 128
 Jennings, Jacqueline G 103
 Jensen, Alvin L 133
 Jensen, Henry W 10
 Jepsen, Peter D 113
 Jessee, William N 102
 Jewett, Stephen C 140
 Jobst, William J 77
 Johansen, Kjell A 85
 Johns, Thomas G 91
 Johnson, Andrew, Jr 78
 Johnson, Allyn G 66
 Johnson, Charles L 130
 Johnson, Clarence S 111
 Johnson, David A 13
 Johnson, Donald R 56
 Johnson, Ernest A 4
 Johnson, G David 62
 Johnson, Herbert A 40
 Johnson, Harrel B 60
 Johnson, Harlan Paul 137
 Johnson, John C 34
 Johnson, Jeffrey R 99
 Johnson, John W 94

Johnson, Kenneth S 115
 Johnson, Martin W 106
 Johnson, Phyllis T 51
 Johnson, Ronald E 56
 Johnson, Richard G 120
 Johnson, Rex V, II 137
 Johnson, W Barnes 89
 Johnston, James B 89
 Jolley, David E 76
 Jones, Albert C 71
 Jones, Benjamin F 134
 Jones, Burton H 98
 Jones, Carol J 113
 Jones, Douglas F 139
 Jones, Everett N 24
 Jones, Galen E 20
 Jones, Gilbert F 98
 Jones, John Claiborne 54
 Jones, James I 81
 Jones, Linda L 134
 Jones, Meredith L 43
 Jones, Mark M 40
 Jones, Maxine M 13
 Jones, Ronald D 128
 Jones, Robert S 73
 Jones, Warren T 91
 Jordan, Arthur K 40
 Jordan, Robert R 36
 Jordan, Thomas H 108
 Jorgenson,
 Sherrell Carpenter 84
 Joseph, James 109
 Joseph, Jeanne D 62
 Josselyn, Michael N 120
 Jossi, Jack W 18
 Jow, Tom 117
 Joyce, Terrence M 13
 Judd, John H 85
 Jude, David J 85
 Judge, Charles W 52
 Judy, Mayo H 59
 Jumars, Peter A 53
 Jung, Glenn H 116
 Jurkovich, Jerry E 134
 Justus, John R 41

K

Kaczorowski, Raymond T 86
 Kaczynski, Wlodzimierz M 132
 Kadane, James 124
 Kaiser, Jack A C 40
 Kajimura, Hiroshi 134
 Kakareka, Joseph P 5
 Kallio, Peter E 13
 Kalmijn, J Adrianus 13
 Kamer, Gary L 125
 Kamminga, William S 77
 Kamykowski, Daniel 57
 Kan, David L 8
 Kanenaka, Brian K 125
 Kang, Yong Q 126

- Kanwisher, John W 13
Kaplan, Eugene H 31
Kappenman, Russell F 134
Kapraun, Donald F 58
Kariq, Daniel E 33
Karinen, John F 141
Karl, David M 126
Karlin, Robert 128
Karlson, Ronald H 36
Karpen, Joseph 57
Karson, Jeffrey A 13
Kasschau, Margaret R 92
Kastendiek, Jon 98
Kastner, Miriam 106
Kato, Susumu 121
Kator, Howard I 54
Katz, Barry J 92
Katz, Bernard S 26
Katz, Charles N 131
Katz, Eli J 29
Kaufman, Raymond 53
Kaul, Pushkar N 90
Kaulum, Keith W 80
Kaye, George T 112
Keach, Donald L 99
Kean, William F 86
Keating, Barbara H 126
Keefe, Scott G 60
Keeling, Charles D 106
Keen, D Jean 79
Keene, Donald F 100
Keir, Robin S 13
Keller, Gerta 118
Keller, George H 128
Kelley, Edward J 41
Kelley, James C 120
Kelley, John J 140
Kelly, Dennis L 112
Kelly, Francis J, Jr 94
Kelly, Mahlon G 53
Kemmerer, Andrew J 78
Kemp, William M 51
Kendall, Arthur W, Jr 134
Kendall, David R 63
Kendall, Paul C 54
Kendall, T Robert 112
Kennedy, Michael P 106
Kennedy, Victor S 51
Kennett, James P 17
Kenworthy, W Judson 59
Kenyon, Kern E 106
Keppner, Edwin J 66
Kerby, Jerome H 57
Kerling, Jeffrey L 77
Kern, Frederick G 51
Kerwin, Edward M, Jr 8
Kessler, Doyle W 139
Ketchen, H Gregory 23
Ketchum, Robert D, Jr 79
Keyes, Mark C 134
Khalid, Rashid A 89
Kieckhefer, Robert M 106
Kiefer, Dale A 98
Kier, Porter M 43
Kilgen, Ronald H 88
Killingley, John S 106
Kimbrell, Carol A 104
Kinder, Thomas H 79
King, Everett Louis, Jr 84
King, Kathleen M 113
Kingsford, Laura 101
Kinney, Wayne A 79
Kinsey, Donald W 63
Kirby-Smith, William W 59
Kirk, Robert A 80
Kirkwood, James B 63
Kirlin, Ward G 49
Kitaigorodskii, Sergi 49
Kitaigorodskii, Sergei Alexandrovich 50
Kitchens, Wiley M 89
Kitting, Christopher L 95
Kjerfve, Bjorn 61
Klawe, Witold L 109
Klein, Martin 19
Klemas, V 35
Kleppel, Gary S 101
Klima, Edward F 93
Klinck, John M, II 65
Klinkhammer, Gary P 17
Klitgord, Kim D 10
Klump, Jeffrey V 36
Klussmann, Wallace G 95
Knapp, Leslie W 44
Knauer, George A 122
Knauss, John A 17
Knebel, Harley J 11
Kneib, Ronald Thomas 63
Knight, Margaret D 106
Knobl, George M, Jr 37
Knoop, Griffith H 77
Knowles, Charles E 57
Knowlton, Nancy 25
Knox, Robert A 108
Knutson, Paul L 52
Koblinsky, Chester J 106
Kobori, Hiromi 98
Koczan, Julius A 26
Koehler, Richard L 13
Koelsch, Donald E 13
Kofoed, John W 72
Kohler, Martha H 119
Kohler, Werner E 56
Kohlmeyer, Jan J 61
Kohn, Alan J 132
Kohout, Francis A 11
Koi, Dennis B 93
Kolf, Richard C 48
Kollmeyer, Ronald C 23
Kolpack, Ronald L 98
Komar, Paul D 128
Koons, Charles B 91
Kooyman, Gerald L 106
Kopenski, Ronald P 135
Korgen, Benjamin J 77
Kormanik, Gregg A 95
Kornfield, Irving L 21
Kornicker, Louis S 43
Koski, K V 141
Koski, Randolph A 118
Kovacs, Austin 20
Kowalski, Tadeusz 18
Kozloff, Patrick 134
Kraeuter, John N 55
Kramer, Donald E 139
Krantz, George E 51
Kravitz, Joseph H 97
Krebs, Charles T 45
Kreiss, William T 130
Kremer, James N 98
Kremer, Patricia M 98
Krezoski, John R 85
Kritz, Mark A 35
Kroenke, Loren W 126
Krom, Michael D 25
Kronse, Jay S 22
Kroopnick, Peter M 126
Krygier, Earl E 128
Ku, Teh-lung 98
Kubaryk, John 3
Kuenzler, Edward J 56
Kulm, LaVerne D 128
Kundu, Pijush K 68
Kuo, Albert Y 54
Kuo, Chin Y 56
Kuo, John T 28
Kuris, Armand M 114
Kurkowski, Jerome J 38
Kutkuhn, Joseph H 84
Kuzirian, Alan M 8
Kuzmak, George T 68
Kvenvolden, Keith A 118
Kynard, Boyd E 4
- L
- Laake, Jeffrey L 109
Labrecque, John L 29
Laevastu, Taivo 134
LaFond, Eugene C 110
LaFond, Katherine G 110
Lai, Ronald J 36
Laird, Chae E 74
Laist, David W 36
Lakshmi, G J 81
Lakshmi, Vijai 90
Lal, Devendra 109
LaLanne, Jack J 134
LaLumiere, Leon P, Jr 40
Lambert, Douglas N 72
Lambert, Richard B, Jr 53
Lambert, William E 102
Lamontagne, Robert A 40
Lancaster, William J, Jr 119
Lancelot, Yves P 106
Land, Ralph J 47
Landau, Joseph V 32
Landis, Robert C 47

- Landrum, Betty J 44
 Landry, Andre M, Jr 93
 Landry, Michael R 137
 Lane, James S 38
 Lange, Anne M T 10
 Lange, R Edward 106
 Langseth, Marcus G 29
 Langton, Richard W 22
 Lanier, James A 27
 Lanier, Roger F 47
 Lapennas, Patricia P 31
 Lapin, Sheri G 92
 Laroche, Joanne L 81
 LaRock, Paul A 65
 Larsen, Jimmy C 131
 Larsen, Lawrence H 137
 Larsen, Peter F 22
 Larson, Ralph J 120
 Larson, Roger L 17
 Lasca, Norman P 86
 Lasker, Howard R 33
 Lasker, Reuben 104
 Latimer, John P 53
 Laurence, Geoffrey Cameron 19
 Laurs, R Michael 104
 Lavelle, John W 131
 Lavenberg, Robert J 98
 LaViolette, Paul E 79
 Lavoie, Dennis M 79
 Lawler, Adrian R 81
 Lawrence, David R 61
 Lawrence, James R 29
 Laws, Edward A 126
 Lawson, Kenneth D, Jr 8
 Lawver, Lawrence A 6
 Lazanoff, Sheldon M 116
 Lea, Robert N 115
 Leahy, Robert F 35
 Leaman, Kevin D 69
 Leatherman, Stephen P 4
 Leatherwood, James S 67
 LeBlanc, Joseph U 93
 Ledbetter, Michael T 63
 Lederhendler, Izja I 8
 Lee, Besie 113
 Lee, Cheng-Sheng 124
 Lee, Cindy 13
 Lee, Choung M 45
 Lee, Dennis W 71
 Lee, Henry, II 129
 Lee, Homa J 118
 Lee, Owen S 112
 Lee, Richard F 64
 Lee, Richard K 113
 Lee, Soon-Ho 64
 Lee, Thomas F 19
 Lee, Welton L 119
 Lee, Wen Y 95
 Leet, William S 121
 Leetmaa, Ants 72
 Lefcourt, Paul 67
 Legeckis, Richard 45
 Lehman, Richard L 37
 Leibovitz, Louis 33
 Leinen, Margaret S 17
 Leipper, Dale F 116
 Lemaire, Ivor P 111
 Le Mehaute, Bernard J 70
 Leming, Thomas D 78
 Lenarz, William H 121
 Lennon, Gerard P 34
 Leonard, David E 21
 Leonard, Martin S 119
 Leone, Gerald M 77
 Lepor, Meyer 111
 Lepple, Frederick K 40
 Lerman, Abraham 87
 Leschine, Thomas Michael 13
 Lessios, Harilaos A 75
 Lester, Colleen J 102
 Lester, William C 102
 Letourneau, Nelson J 77
 Levenson, Coleman 79
 Levi, Eldon J 66
 Levi, Shaul 128
 Levin, Robert E 4
 Levine, Edward R 16
 Levine, Murray D 128
 Lewin, Ralph A 106
 Lewis, Brian T R 137
 Lewis, Cynthia Lucille 106
 Lewis, James K 93
 Lewis, Marvin G 77
 Lewis, Philip L 81
 Lewis, Rhett 10
 Lewis, Robert M 59
 Li, Huon 79
 Li, Yi-Sheng 119
 Li, Yuan-Hui 29
 Libby, David A 22
 Lichy, David E 52
 Liddle, Larry B 32
 Lidz, Barbara H 68
 Light, Melvin 24
 Lin, Kwei 85
 Linder, Elek 111
 Lindquist, David G 58
 Lindsay, Stephen A 141
 Lindstedt, Dianne M 89
 Lindstedt-Siva, K June 100
 Lingle, George E 124
 Linick, Timothy W 109
 Lipka, Douglas A 41
 Lipps, Jere H 123
 Lipton, Douglas W 37
 Liscom, Kenneth L 134
 Lissauer, Ivan M 24
 Lissner, Andrew Louis 113
 List, E John 102
 Litsky, Warren 4
 Little, Thomas E 50
 Little, William S, Jr 13
 Liu, Cho-Teng 137
 Liu, Kon-Kee 102
 Liu, Paul C 83
 Liu, Wingyuen Timothy 102
 Livingston, Hugh D 13
 Livingston, Patricia A 134
 Livingston, Robert J 64
 Lo, Nancy C H 104
 Locke, Gerhard E 92
 Lockerman, Robert C 38
 Lockwood, Millington 47
 Loder, Theodore C, III 20
 Loeb, George I 40
 Loeblich, Laurel A 93
 Loesch, Joseph G 54
 Loftin, Horace G 66
 Lohanick, Alan W 79
 Lohmann, George P 13
 London, Mark D 26
 Long, Clifford W 134
 Long, Robert B 72
 Long, Steven R 55
 Longwell, Arlene Crosby 25
 Lonsdale, Peter F 106
 Lopez, Allyn M 71
 Lopez, Glenn R 31
 Lord, Gary E 132
 Lorens, Robert B 77
 Lorenzen, Carl J 137
 Loret, John H 30
 Losee, Ellen A 25
 Losee, Jon R 111
 Losey, George S, Jr 124
 LoSurdo, Antonio 69
 Lott, Dempsey E, III 13
 Lott, Daniel F 66
 Lou, Jack Y K 94
 Loud, John F 13
 Lough, R Gregory 10
 Loughlin, Thomas R 37
 Loughridge, Michael S 96
 Love, Cuthbert M 110
 Love, Richard H 79
 Lovett, Jack R 112
 Lovorn, F Thomas 110
 Low, Loh-Lee 134
 Low, Robert A, Jr 62
 Lowenstein, Carl D 109
 Lowrie, Allen 77
 Lozarro, Carlos J 35
 Lu, Richard S 92
 Luallin, Terry A 111
 Lucas, R David 130
 Lucy, Jon A 54
 Ludwick, John C 56
 Ludwig, William J 29
 Luepke, Gretchen 118
 Luer, Carl A 74
 Lugmair, Guenter W 106
 Lukas, Karen J 33
 Lukens, Robert J 54
 Luker, L Dwight 67
 Lund, Steve P 98
 Lund, William A 24
 Lupton, John E 106
 Lutowski, Richard N 119
 Lutton, Thomas Channing 45

Lutz, Peter L 69
 Lutz, Richard A 22
 Lux, Fred E 10
 Luyten, James R 13
 Lynch, Daniel R 19
 Lynch, Maurice P 54
 Lynch, Peter R 35
 Lynch, Richard V, III 40
 Lynn, Ronald J 104
 Lyons, William Berry 20
 Lytle, Julia 81
 Lytle, Thomas F 81

M

Ma, Allan K 110
 Ma, Chen Mean 92
 Mac Connell, William P 4
 Macdonald, Keith B 110
 Macdonald, Kenneth C 114
 Macdougall, J Douglas 106
 MacDowell, Gordon P 41
 Macfarlane, Ian C 100
 MacFarlane, R Bruce 121
 MacGregor, John S 104
 MacIntyre, Ferren 17
 Macintyre, Ian G 43
 MacIsaac, Jane J 98
 Mack, Eugene J 33
 Mackenzie, Fred T 87
 Mackenzie, Jane Morales 111
 Mackenzie, Kenneth V 111
 Mackett, David J 104
 Macklin, Stewart Allen 131
 MacLead, William D, Jr 134
 MacLean, Sharon A 51
 MacLean, William P 3
 Mac Michael, J 84
 MacNichol, Edward F, Jr 9
 Madin, Laurence P 13
 Madsen, Ole S 6
 Magaard, Lorenz C 127
 Magnuson, Allen H 56
 Magnuson, John Joseph 86
 Mahadevan, Selvakumaran 74
 Mahnken, Conrad V W 134
 Major, Charles W 21
 Major, Peter F 36
 Major, Richard L 134
 Makemson, John C 73
 Malahoff, Alexander 47
 Malay, Jonathan T 24
 Malfait, Bruce T 42
 Mallette, Michael 68
 Malloy, Richard J 114
 Malouf, Robert E 31
 Maltais, John A 13
 Mammeriekx, Jacqueline 106
 Mandke, Jayant S 91
 Manen, Carol-Ann 140
 Mangarella, Peter A 110
 Manheim, Frank T 11
 Mann, Don R 13
 Mann, Roger 13
 Mann, Walter C 71
 Manning, Raymond B 43
 Manny, Bruce A 84
 Manooch, Charles S, III 59
 Mantyla, Arnold W 106
 Manzi, John J 62
 Manzo, Stephen H 72
 Marak, Robert R 19
 Marciniak, Robert D 34
 Marcus, Jeffry H 73
 Marcus, Nancy H 13
 Maresca, Joseph W, Jr 117
 Margolis, Stanley V 127
 Mariscal, Richard N 64
 Markey, Dennis J 139
 Markowitz, Hal 120
 Marks, Colin H 46
 Markus, John A 113
 Marlow, Michael S 118
 Marmorino, George O 65
 Marquet, William M 13
 Marquette, Willman M 134
 Marr, James C 101
 Marra, John 29
 Marsh, James A, Jr 127
 Marshall, Harold G 56
 Marshall, Michael D 60
 Marshall, Nelson 17
 Marshall, Samuel Wilson 79
 Marszalek, Donald S 70
 Martens, Christopher S 57
 Martin, Christopher Martin 5
 Martin, Douglas W 124
 Martin, Elizabeth A 95
 Martin, F Douglas 46
 Martin, John H 122
 Martin, Michael 115
 Martin, Philip E 73
 Martin, Robert L 79
 Martin, Seelye 137
 Martin, Stephen William 124
 Martineau, Donald P 47
 Marum, James P 28
 Mascarenhas, Affonso Da S, Jr 7
 Mason, Curtis 52
 Masters, Patricia M 109
 Mate, Bruce R 129
 Mathemeier, Paul F 89
 Mathews, Thomas D 62
 Mathieson, Arthur C 20
 Mathisen, Ole A 136
 Matisoff, Gerald 83
 Matsui, Tetsuo 106
 Matsumoto, Walter M 125
 Matte, Albert 26
 Matthews, Geoffrey A 93
 Matthews, Gene M 134
 Matthews, James E 79
 Matthews, Robley K 19
 Mattie, Michael G 52
 Maul, George A 72
 Maurer, Don L 36
 Maurer, Raymond O 19
 Maxwell, Arthur E 96
 Maxwell, William D 123
 May, L Nelson, Jr 90
 May, Marian E 40
 May, Paul W 79
 May, Robert A 123
 May, Steven D 118
 Mayer, Garry F 31
 Mayer, Harold M 86
 Mayer, Larry Alan 17
 Mayer, Lawrence M 22
 Maynard, G Lafayette 79
 Maynard, Nancy Gray 97
 Maynard, Sherwood D 127
 Mayo, Barbara S 16
 Mayo, Charles A 16
 Mayo, Ralph K 10
 Mazeike, Paul A 79
 McAlice, Bernard J 22
 McAlister, Vicki L 13
 McAlister, W Bruce 134
 McAllister, Robert D 115
 McAllister, Raymond F 73
 McBee, James T 81
 McBride, Jack 139
 McBride, Margaret Mary 10
 McCaffrey, Richard J 17
 McCain, Bruce B 134
 McCall, Jerry C 78
 McCall, Peter L 83
 McCammon, Helen M 42
 McCann, Dennis P 52
 McCarthy, Francis D 100
 McCarthy, James J 6
 McCartney, Michael S 13
 McCaughran, Donald A 131
 McClain, Ernest P 45
 McClain, James S 107
 McCleave, James D 21
 McClellan, David B 71
 McClellan, Hugh A 76
 McClellan, Patrick H 118
 McClelland, Joseph J, Jr 23
 McCloy, James M 93
 McClure, William O 98
 McConaghy, David C 134
 McConaughta, John R 56
 McConnell, Oliver J 64
 McConnell, Robert J 138
 McConnell, Steven O 132
 McCormick, Charles L 32
 McCosker, John E 119
 McCoy, Edward G 60
 McCoy, Floyd W 29
 McCreary, Julian P 68
 McCulloch, David S 118
 McCulloch, Thane H 132
 McCullough, James R 14
 McDaniel, Suzanne T 34
 McDuff, Russell E 7

- McElroy, Paul Tucker 8
 McGinty, Andrew S 3
 McGoldrick, Lawrence F 42
 McGowan, John A 107
 McGrail, David W 94
 McGrath, Dennis G 26
 McGrath, James R 40
 McGregor, Bonnie A 68
 McGregor, Ian R 131
 McHendrie, A Graig 118
 McHugh, John Laurence 31
 McIlwain, Thomas D 81
 McIntyre, Andrew 29
 McIver, Donald B 91
 McKellar, Henry N, Jr 61
 McKenzie, James H 132
 McKindra, Clayton D 45
 McKinney, Thomas F 26
 McKisic, James Michael 53
 McLain, Douglas R 116
 McLeish, William L 72
 McLellan, Hugh J 48
 McMahan, Elizabeth A 57
 McManus, Dean A 137
 McMaster, Robert L 17
 McMillan, Jane A 104
 McMillan, John G 42
 McMillan, Joseph P 3
 McMurtry, Gary M 126
 McNulty, John K 27
 McPhaden, Michael J 97
 McPhee, Miles G 20
 McRoy, C Peter 140
 McSheehy, Donald I 124
 McTamany, James E 52
 McWilliams, James C 97
 Mead, James G 44
 Meadows, Guy A 85
 Means, Jay C 46
 Mearns, Alan J 135
 Measures, Christopher I 7
 Medwin, Herman 116
 Meehan, James M 37
 Mehta, Ashish J 67
 Mello, Mark J 16
 Melson, William Gerald 43
 Melville, Wallace Kendall 108
 Melvin, Donald W 20
 Mendelssohn, Roy 125
 Menez, Ernani G 44
 Menzel, David W 64
 Menzel, R Winston 65
 Menzies, Robert A 68
 Mercado, Aurelio, Jr 3
 Merrell, Theodore R, Jr 141
 Merrifield, Roger 77
 Merrill, John T 69
 Merrill, Ronald T 137
 Merriner, John V 59
 Mertens, Lawrence E 68
 Mesecar, Roderick S 129
 Metcalf, Theodore G 20
 Metzger, Dan R 96
 Meyer, Edward R 47
 Meyer, Judith L 63
 Meyer, Marvin C 21
 Meyers, Gary A 107
 Meyers, Herbert 97
 Meyers, Philip A 85
 Meylan, Maurice A 76
 Michel, Harding B 69
 Michel, Robert L 107
 Michelena, Eduardo D 78
 Middleton, Arthur L 76
 Middleton, Foster H 18
 Midgley, James S 47
 Mied, Richard P 40
 Mielke, James E 41
 Milburn, Darrell A 79
 Milburn, Hugh B 131
 Miles, Edward L 132
 Miles, John W 108
 Millard, Robert C 14
 Miller, Alan C 101
 Miller, Charles B 129
 Miller, David 63
 Miller, Forrest R 109
 Miller, George C 71
 Miller, Gerard R 87
 Miller, Gerald S 83
 Miller, H Carl 52
 Miller, Henry J 26
 Miller, Jack C 102
 Miller, John M 58
 Miller, James R 28
 Miller, James W 74
 Miller, Martin C 57
 Miller, Marc L 132
 Miller, Richard L 35
 Miller, Robert N 6
 Miller, Robert V 134
 Miller, Sandra Marie 102
 Miller, Stephen P 114
 Millero, Frank J 69
 Millett, Kellie M 86
 Milliken, Dean M 74
 Millikin, Mark R 62
 Milliman, John D 14
 Minello, Thomas J 93
 Minton, R Vernon 75
 Misitano, David A 134
 Mitchell, Ralph 6
 Mitchum, Robert M, Jr 91
 Mitsui, Akira 69
 Mitton, Jeffry B 9
 Miziolek, Andrzej W 107
 Mlodzinska, Zofia J 14
 Moberly, Ralph 126
 Mobley, Curtis Dale 131
 Moffatt, Ronald E 38
 Moffeld, Harold O 131
 Moles, Adam D 141
 Molinari, Robert L 72
 Molinelli, Eugene J 53
 Moll, Russell A 85
 Mollo-Christensen, Erik 7
 Molnia, Bruce F 118
 Monan, Gerald E 134
 Monastero, Francis C 17
 Monteferrante, Frank J 90
 Montgomery, David H 115
 Montgomery, Gail E 88
 Montgomery, John R 73
 Mooers, Christopher N K 116
 Mooney, Kenneth A 44
 Moore, Casey 122
 Moore, Carl T 77
 Moore, David G 109
 Moore, Donald R 70
 Moore, Gregory F 107
 Moore, George W 118
 Moore, J Robert 96
 Moore, Jon T 63
 Moore, Kenneth Alan 54
 Moore, Patrick W B 124
 Moore, Robert D 107
 Moore, Richard K 88
 Moore, Theodore C, Jr 17
 Moore, Williard S 61
 Mopper, Kenneth 36
 Morales-Alamo, Reinaldo 54
 Morelock, Jack 3
 Morgan, Charles L 110
 Morgan, James J 102
 Morgan, Mark D 95
 Morgan, Raymond P, II 50
 Morgan, William Jason 27
 Moring, John R 21
 Morita, Richard Y 128
 Morley, Joseph J 29
 Morris, Frederick W, IV 68
 Morris, Gerald B 79
 Morris, Ian 20
 Morris, Thomas L, Jr 10
 Morris, William D 40
 Morrison, Geoffrey K 8
 Morrison, John M 94
 Morrison, Robert E 41
 Morse, Daniel E 114
 Morse, John W 69
 Morse, M Patricia 5
 Morse, Robert W 14
 Mortimer, Clifford H 86
 Morton, Robert W 16
 Moser, H Geoffrey 104
 Moser, Michael 122
 Moss, George J, Jr 80
 Moss, Sanford A 16
 Mottl, Michael J 14
 Mount, Wayne D 5
 Mountain, David G 44
 Mourad, A George 82
 Mueller, George 140
 Mueller, James L 116
 Muench, Robin D 130
 Muhlia, Arturo F 109
 Mukherji, Prithviraj 17
 Muller, Peter K 6
 Mullin, Michael M 107

Mullins, Henry T 122
 Mumme, Kenneth I 21
 Munday, John C, Jr 54
 Munden, Fentress H 60
 Mundy, Phillip R 56
 Munier, Robert S C 73
 Munk, Walter H 108
 Murai, Suetō 134
 Murawski, Steven A 10
 Murchelano, Robert A 51
 Murphy, Donald L 24
 Murphy, Douglas W 124
 Murphy, Edward L 34
 Murphy, Lynda S 22
 Murphy, Richard C 100
 Murray, John J 44
 Murray, James W 137
 Murray, Susan 22
 Murray, Steven Nelsen 112
 Murray, Stephen P 89
 Murray, Thomas J 54
 Muscatine, Leonard 99
 Musialowski, Frank R 11
 Myers, J P 121
 Myhre, Richard J 131
 Myrberg, Arthur A, Jr 69
 Myren, Richard T 141
 Myrick, Albert C, Jr 104

N

Nachtigall, Paul Eugene 124
 Nafpaktitis, Basil G 98
 Nagle, Roland E 117
 Naidu, Sathy A 140
 Naiman, Robert J 14
 Nakamura, Alex I 131
 Nakamura, Eugene L 66
 Nakatsu, Tetsuo 107
 Nalepa, Thomas F 83
 Namias, Jerome 107
 Nardin, Thomas R 98
 Nash, Gregory J 114
 Natland, James H 107
 Naughton, Steven P 66
 Nawar, Wassef W 4
 Neal, Victor T 129
 Nealson, Kenneth H 107
 Neary, Joseph T 9
 Nebert, David L 140
 Needell, Gerald J 14
 Neff, Jerry M 8
 Neill, William H 95
 Nelsen, Terry A 72
 Nelson, Craig S 116
 Nelson, Douglas D 61
 Nelson, David M 129
 Nelson, Donald R 101
 Nelson, James A 77
 Nelson, Keith B 122
 Nelson, Martin O 134
 Nelson, Russell E, Jr 134

Nelson, Stephen G 127
 Nelson, Walter R 82
 Neshyba, Steve 129
 Nester, Robert Douglas 76
 Nester, Robert T 84
 Neubert, Jerome A 112
 Neumann, A Conrad 57
 Neushul, Michael 115
 Neve, Richard A 140
 Nevenzel, Judd C 107
 New, Linda L 124
 Newell, Roger I E 51
 Newell, Steven Y 63
 Newlin, Kimrey D 71
 Newman, Fred C 53
 Newman, Martin W 51
 Newman, William A 107
 Newton, Frederick C, III 102
 Newton, John L 103
 Nichols, Frederic H 118
 Nichols, Jean Ann 110
 Nichols, Maynard M 54
 Nichols, William J 45
 Nicholson, Bruce L 21
 Nicholson, William R 59
 Nichy, Fred E 10
 Nicinski, Steven A 123
 Niebauer, Henry J 140
 Niedoroda, Alan W 92
 Niedzwecki, John M 94
 Nierenberg, William A 107
 Niesen, Thomas M 120
 Niggol, Karl 134
 Nigrelli, Gale E 14
 Niiler, Pearn P 129
 Nikituk, Paul M 26
 Nishimoto, Robert N 104
 Nishimoto, Robert T 125
 Nishiyama, Tsuneo 140
 Nittrouer, Charles A 57
 Nixon, David Edward 66
 Nixon, Scott W 17
 Noakes, John E 63
 Noble, Vincent E 40
 Norden, Carroll R 86
 Normark, William R 118
 Norris, Dean R 68
 Norris, James N 43
 Norris, Kenneth S 122
 Northrop, John 112
 Norton, Stephen A 21
 Nortrup, David A 84
 Notarbartolo di Sciara, Giuseppe 110
 Novak, Alexander J 84
 Nowak, Richard T 14
 Nowell, Arthur R Mack 137
 Nowlin, Worth D, Jr 94
 Noyes, George S 32
 Nunnallee, Edmund P, Jr 134
 Nybakken, James W 122
 Nyqvist, David 97

O

O'Brien, Francis X 16
 O'Brien, James J 65
 O'Brien, Thomas F 14
 Ochi, Michel K 67
 O'Clair, Charles E 141
 O'Connell, Charles P 104
 O'Connor, Daniel V 84
 O'Connor, James C P 53
 O'Connor, Joel S 31
 O'Connor, Thomas P 47
 Odegard, Mark E 53
 Odell, Daniel K 69
 Odemar, Melvyn W 123
 Odum, William E 53
 Odum, W Henry, III 38
 Oertel, George F 56
 Ofelt, George S 56
 Officer, Charles B 20
 Ogawa, Roann E 84
 Oglesby, Donald M 56
 Oglesby, Larry C 102
 O'Gorman, Robert 64
 Ogren, Larry H 66
 Ogrydziak, David M 123
 Oguri, Mikihiro 99
 Ogushwitz, Paul R 27
 O'Hara, Charles J 11
 O'Hara, Norbert W 68
 Okamoto, Henry Y 125
 Okawa, Benn S 40
 Okubo, Akira 31
 Oldale, Robert N 11
 O'Leary, Dennis W 11
 Oliver, James K 35
 Oliver, John S 122
 Olney, John E 54
 O'Loughlin, John Thomas 9
 Olsen, James C 141
 Olson, Donald B 69
 Olson, Fred L 37
 Olson, Robert E 129
 Olson, Richard J 91
 Olson, Robert J 109
 Olsson, Richard K 28
 Onizuka, David R 125
 Onizuka, Eric W 125
 Onstenk, Richard W 119
 Onstott, Robert G 88
 Oppenheimer, Carl H 96
 Orange, Craig J 109
 Orcutt, John A 108
 Orr, Marshall H 14
 Orth, Robert J 54
 Ortiz, Charles Leo 122
 Ortiz, Jesse S 4
 Ortner, Peter B 72
 Osborne, Robert H 98
 Oshida, Philip S 101
 Osman, Richard W 115
 Osmer, Stephen R 24
 Ostapoff, Feodor 72

Ostenso, Ned Allen 48
 Osterberg, Charles L 42
 Ostlund, H Gote 69
 Otsu, Tamio 125
 Otvos, Ervin G 81
 Ou, Hsien Wang 29
 Overland, James E 131
 Overstreet, Roy 97
 Overstreet, Robin M 81
 Oviatt, Candace A 17
 Owen, Austin A 52
 Owen, Robert M 85
 Owen, Robert W 104
 Owens, David W 93
 Owens, Randall W 84
 Owens, W Brechner 14
 Ozimina, Chester D 40
 Ozretich, Robert J 129
 Ozturgut, Erdogan 130

P

Pacanowski, Ronald C 27
 Pacheco, Anthony L 27
 Packard, Theodore Train 22
 Pade, Bert H-G 14
 Padgett, David E 58
 Paerl, Hans W 61
 Paffenhofer, Gustav-Adolf H 64
 Paige, John A 9
 Paille, Ronald F 90
 Palfrey, Kennard M, Jr 44
 Palko, Barbara Jayne 71
 Palmer, Harold D 53
 Palmer, Robert E 41
 Palmer, Wallace C 77
 P. loma, Pedro A 104
 Palumbo, Joseph X 77
 Pamatmat, Mario M 121
 Panzer, David E 102
 Paquette, Richard G 119
 Paquette, Robert G 116
 Paquin, James E 77
 Pardo, Arvid 99
 Park, Donn L 134
 Park, E Taisoo 93
 Park, P Kilho 47
 Parke, Michael E 102
 Parker, Charles A 32
 Parker, Charles E 22
 Parker, Frances L 107
 Parker, Neill E 52
 Parker, Patrick L 95
 Parker, Richard O, Jr 59
 Parker, William C 65
 Parkinson, Claire L 46
 Parks, Norman B 134
 Parnell, James F 58
 Parrish, Richard Henry 116
 Parsons, Barry E 7
 Parvulescu, Antares 126

Paskausky, David F 24
 Passino, Dora R May 84
 Pastula, Edward J 37
 Patten, Donald R 98
 Patterson, David R 101
 Patterson, Robert B 40
 Patterson, Sue A 124
 Patterson, Steven L 53
 Pattison, John H 45
 Patton, John S 63
 Patton, James W 96
 Patzert, William C 107
 Paul, Augustus John 139
 Paul, Carl A 72
 Paulson, Clayton A 129
 Paust, Brian C 139
 Pavia, Robert 97
 Pawson, David L 43
 Payne, Richard E 14
 Payne, Robert H 66
 Peal, Kenneth R 14
 Pearce, John B 27
 Pearce, William G 129
 Pearl, James E 118
 Pearse, John S 122
 Pearson, Roger E 134
 Pearson, Walter H 138
 Pease, Carol H 131
 Pecci, Kenneth J 10
 Pechenik, Jan A 7
 Pederson, Thomas B 17
 Pedrick, Robert A 37
 Peffley, Monty B 80
 Peleg, Micha 4
 Pella, Jerome J 141
 Pellegrin, Gilmore J, Jr 82
 Pellenberg, Robert E 40
 Pelroy, Gretchen A 134
 Peltonen, Gordon J 131
 Peltzer, Edward T 14
 Pemberton, Michael L 66
 Peng, Tsung-Hung 29
 Penhale, Polly A 54
 Penn, Gary J 92
 Penttila, Judith A 10
 Pequegnat, John E 123
 Pequegnat, Linda H 94
 Pequegnat, Willis E 93
 Perez, Michael A 134
 Perkins, Frank O 55
 Perkins, Henry T 80
 Perkins, Ronald D 58
 Perlmutter, Martin A 70
 Perlow, Michael, Jr 26
 Perlroth, Irving 38
 Perrin, David W 102
 Perrin, William F 104
 Perry, Harriet M 81
 Perry, Mary Jane 137
 Perry, Richard B 47
 Perry, Robert K 40
 Peters, David J H 90
 Peters, David S 59

Petersen, Michael R 139
 Peterson, Bruce J 9
 Peterson, Charles H 61
 Peterson, Clifford L 109
 Peterson, Gary L 112
 Peterson, Melvin 109
 Peterson, Michael Lory 137
 Peterson, Robert E 96
 Peterson, Robert S 45
 Peterson, Susan B 14
 Peterson, Willis K 137
 Peterson, William T 31
 Pettibone, Marian H 43
 Pevear, David R 137
 Pfaender, Frederic K 56
 Pflum, Charles E 91
 Philander, Samuel G H 27
 Phillips, Charles R 113
 Phillips, Joseph D 96
 Phillips, Owen M 50
 Phillips, Ronald C 136
 Phillips, Thomas Duane 74
 Philpotts, John A 126
 Phipps, James B 138
 Phleger, Charles F 112
 Phleger, Fred B 107
 Phoel, William C 27
 Piacsek, Steve A 80
 Picciolo, Anthony R 38
 Picker, Les A 36
 Pickwell, George V 111
 Picquelle, Susan J 104
 Pieper, Richard E 99
 Pierce, Barry A 127
 Pierce, Jack W 43
 Pierce, Richard H, Jr 68
 Pierce, Stanley 30
 Pierotti, Raymond J 122
 Pierson, Willard J, Jr 28
 Pietrafesa, Leonard J 57
 Pigott, George M 136
 Pilkey, Orrin H 58
 Pillsbury, Ronald Dale 129
 Pilmanis, Andrew A 100
 Pilson, Michael E Q 17
 Pinkel, Robert 107
 Piotrowicz, Stephen R 72
 Piotrowski, Michael R 110
 Piper, David Z 118
 Pipkin, Bernard Wallace 99
 Pisas, Nicklas G 17
 Plafker, George 118
 Platz, Bruce W, Jr 23
 Pleasants, John B 55
 Pleass, Charles M 36
 Ploessel, Michael R 114
 Plunkett, Robert D 110
 Plutchak, Noel B 113
 Poe, Thomas P 84
 Pollak, Kenneth D 116
 Pollard, David 127
 Pollio, Joseph 77
 Polovina, Jeffrey J 125

Pomeroy, Lawrence R 63
Pomponi, Shirley A 51
Ponton, John R, Jr 85
Pope, Daniel H 32
Pope, William S 82
Popenoe, Peter 11
Pore, Norman A 49
Porter, David 63
Porter, Hugh J 61
Porter, Homer O 111
Porter, James W 63
Porter, Karen G 63
Portier, Ralph J 90
Posey, Joe W 80
Posey, Lavon L 47
Posmentier, Eric S 32
Postel, James R 137
Potter, Carla J 97
Potter, David C 10
Potthoff, Thomas C 71
Potts, Donald C 122
Potts, Malcolm 64
Powell, Allyn B 60
Powell, Bill A 111
Powell, Eric N 94
Powell, Gary L 96
Power, George H 14
Powers, Dennis A 49
Powers, Joseph E 71
Poysky, Frank T 134
Prada, Kenneth E 14
Pratt, Darrell B 21
Pratt, Harold 19
Preisendorfer, Rudolph W 131
Prell, Warren L 19
Prentice, Earl F 134
Presley, Bobby Joe 94
Pressman, Albert E 80
Prezioso, Jerome 19
Price, David 48
Price, James F 14
Price, James M 127
Price, Kent S 36
Price, Thomas H 60
Prince, Eric D 71
Pringle, Catherine M 85
Pringle, William G, Jr 71
Prins, Dennis A 52
Prior, David B 89
Pristas, Paul J 66
Pritchard, Donald W 31
Pritchard, John B 64
Pritzlaff, John A 50
Prohaska, Patty G 134
Proni, John R 72
Prospero, Joseph M 70
Provenzano, Anthony J, Jr 56
Pruder, Gary D 36
Pugh, W Lawrence 48
Pullen, Edward J 52
Pullen, Patricia E 131
Purdy, Graham M 14
Purvis, Connell E 60

Pycha, Richard L 84
Pyle, Thomas E 53
Pytkowicz, Ricardo Marcos 129

Q

Quast, Jay C 141
Quayle, Robert G 61
Quigley, Michael A 83
Quinn, Frank H 83
Quinn, James G 18
Quinn, Terrance J, II 131
Quinn, William H 129

R

Rabb, Lewis C 92
Rabinowitz, Philip D 29
Radosh, David J 27
Radovich, John 123
Radwan, A Essam 56
Ragotzkie, Robert A 86
Ragster, LaVerne E 3
Rahn, Kenneth A 18
Raichlen, Fredric 102
Rainey, Gail B 88
Rainnie, William O, Jr 78
Ramage, Colin S 125
Ramberg, Steven E 40
Ramp, Steven R 10
Ramsdale, Dan J 80
Ramus, Joseph S 59
Randall, Robert C 129
Randall, Robert E 94
Randall, Richard G 114
Randall, Richard H 127
Rao, Desiraju B 46
Rapp, John B 118
Rappeport, Mel 118
Rattray, Maurice, Jr 137
Rauw, Charles I 100
Rawson, Michael 29
Ray, Sammy M 93
Raymond, Howard L 134
Rea, David K 85
Rebach, Steve 51
Rechnitzer, Andreas B 103
Reddy,
 Chandamuri Narasimha 90
Reddy, Dronnadula V 67
Reeburgh, William S 140
Reece, Allan M 91
Reed, John C 44
Reed, Ronald K 131
Rees, George H 37
Reese, Ernst S 124
Reese, Gladys B 82
Reese, James I 112
Reeve, Michael R 69
Reeves, Jerry E 135
Reggio, Villere C, Jr 88

Regier, Lloyd A 107
Regier, Lloyd W 62
Reice, Seth R 57
Reichard, Ronnal P 137
Reichert, William L 135
Reid, David F 80
Reid, Freda M H 107
Reid, Joseph L 107
Reid, Robert N 27
Reid, Robert O 94
Reid, William H 87
Reimnitz, Erk 118
Reintjes, John W 60
Reish, Donald J 101
Reisman, Howard M 32
Remsen, Charles C 86
Remy, Nicholas D 34
Renfro, J Larry 64
Renner, Adam F 52
Reno, Paul W 21
Reppond, Kermit D 139
Revelante, Noelia 21
Rex, Michael A 5
Reynolds, Lawrence M 77
Rezak, Richard 94
Rhines, Peter B 14
Rhoads, Donald C 25
Rhodes, Martha W 55
Riblett, William R 8
Rice, Alan R 68
Rice, Clifford P 85
Rice, David M 23
Rice, Dale W 135
Rice, Mark 123
Rice, Mary E 74
Rice, Stanley D 141
Rice, Theodore R 60
Richard, Joseph D 69
Richards, Adrian F 34
Richards, Francis A 137
Richards, Gary P 62
Richards, Thomas L 115
Richards, William J 71
Richards, William K, Jr 124
Richardson, Mary Jo 29
Richardson, Michael D 80
Richardson, Philip L 14
Richardson, Sally L 81
Richardson, William S 49
Richman, James G 129
Ridgway, George J 10
Ridgway, Sam H 111
Ridley, Edward L 38
Riedel, William R 109
Riegel, Peter S 82
Rieger, Reinhard M 57
Riggs, Fletcher V 125
Rigotti, Peter A 28
Riley, John G 21
Rinaldo, Ronald G 104
Rinkel, Murice O 74
Riser, Nathan W 5
Rison, William 107

- Rivas, Luis R 71
 Roach, David M 115
 Roads, John O 107
 Robb, James M 11
 Robbin, Daniel M 68
 Robe, R Quincy 24
 Roberson, Bob S 46
 Robert, Glyn O 53
 Roberts, Franklin L 21
 Roberts, John L 4
 Roberts, Morris H, Jr 55
 Roberts, Terrell W 68
 Robertson, Andrew 83
 Robertson, Betsy R 140
 Robertson, Craig N 27
 Robertson, David Ross 75
 Robertson, Eric A 76
 Robertson, John R 63
 Robertson, Robert 35
 Robertson, Scott B 103
 Robinson, Allan R 6
 Robinson, Margaret R 110
 Robinson, Robert D 103
 Robinson, William C 30
 Robison, Bruce H 115
 Robohm, Richard A 25
 Roche, Peter A 119
 Rodaniche, Arcadio F 75
 Roden, Gunnar I 137
 Rodenbusch, George 91
 Roderick, William I 24
 Rodman, Duane T 135
 Roed, Lars P 65
 Roer, Robert D 58
 Roesijadi, Guritno 138
 Roessler, Martin A 72
 Roest, Aryan L 115
 Rogers, Caroline S 3
 Rogers, John D 103
 Rogers, Robert M 88
 Roithmayr, Charles M 82
 Rojas, Richard R 40
 Roman, Micheal R 69
 Rona, Donna C 70
 Rona, Peter A 72
 Ronholt, Lael L 135
 Rooney-Char, Ann Hayward 55
 Rooth, Claes G H 69
 Roper, Clyde F E 43
 Ropes, John W 10
 Roppel, Alton Y 135
 Rose, John C 126
 Rosen, Peter S 5
 Rosenberg, Donald H 139
 Rosenblatt, Richard H 107
 Rosencrantz, Eric J 92
 Rosendahl, Bruce R 58
 Rosenfeld, Melvin A 14
 Rosenfield, Aaron 51
 Rosewater, Joseph 43
 Rosmond, Thomas E 117
 Ross, Charles A 137
 Ross, David A 14
 Ross, June Rosa Pitt 137
 Ross, Maria R 98
 Ross, Michael R 4
 Ross, Stuart A 99
 Ross, Stephen W 60
 Rossby, H Thomas 18
 Rossi, Steven Smith 112
 Rossmann, Ronald 85
 Rothschild, Brian J 46
 Rothstein, Lewis M 127
 Rothwell, Guy N 124
 Rottier, J Ross 52
 Rottman, Marcia L 91
 Roubal, William T 135
 Roulo, David L 77
 Rouse, Lawrence J, Jr 89
 Rowland, Robert W 52
 Roy, Edward H 137
 Royer, Thomas C 140
 Rubenstein, David M 53
 Ruber, Ernest 5
 Rucker, James B 48
 Rudd, Eugene E 40
 Ruddiman, William F 30
 Rudgers, Anthony J 67
 Rudloe, Anne E 64
 Rudy, Paul P 130
 Ruetzler, Klaus 43
 Rugh, David J 135
 Rule, Joseph H 56
 Ruppe, Reynold J 98
 Ruppel, Byron D 119
 Ruppert, Edward E 62
 Rusanowski, Paul C 103
 Russell, Dennis J 136
 Rutscheidt, Erich H 38
 Rutten, Patrick J 121
 Ruzecki, Evon P 55
 Ryther, John H 14
- S
- Sabo, Dennis J 8
 Sachs, Harvey M 27
 Sachs, Peter L 14
 Sackett, William M 75
 Sadler, James C 125
 Sage, Louis E 35
 Sager, Paul E 86
 Salla, Saul B 18
 Sakagawa, Gary T 104
 Salisbury, Matthew H 107
 Salmon, Rick 108
 Saloman, Carl H 66
 Salsman, Garrett G 66
 Saltzman, Barry 25
 Samet, Carol E 27
 Sanborn, Herbert R 135
 Sancetta, Constance A 30
 Sanders, Howard L 14
 Sanders, James G 46
 Sanders, Marion 62
 Sanders, Nathaniel, Jr 82
 Sandifer, Paul A 62
 Sands, Maynard Dale 113
 Sanfilippo, Annika B 107
 Sanford, Thomas B 132
 Sanger, David 21
 Santschi, Peter H 30
 Sarachik, Edward S 6
 Sarmiento, Jorge L 27
 Sass, Daniel B 33
 Sastry, Akella N 18
 Saunders, George W, Jr 42
 Saunders, Kim D 80
 Saur, J F Theodore 107
 Savage, Rudolph P 52
 Savastano, Kenneth J 78
 Saville, Thorndike, Jr 52
 Savin, Samuel M 83
 Sawdo, Richard R 14
 Sawyer, F Miles 4
 Saxena, Narendra K 127
 Sayles, William L 14
 Saylor, James H 83
 Sayre, Clifford L, Jr 46
 Sayre, William O 85
 Scanlon, Kathryn M 11
 Scavia, Donald 83
 Schaaf, William E 60
 Schacher, Gordon E 116
 Schaefer, Glen R 47
 Schedvin, John C 130
 Schelske, Claire L 85
 Scheltema, Rudolf S 14
 Schick, Daniel F 22
 Schilling, Jean-Guy E 18
 Schink, David R 94
 Schlager, Wolfgang 68
 Schlee, John S 11
 Schlegel, Stuart A 122
 Schlegelmilch, Reuben O 45
 Schleicher, Karl E 14
 Schlemmer, Frederick C, II 93
 Schlitz, Ronald J 10
 Schloesser, Donald W 84
 Schlosser, Arthur J 111
 Schlueter, Roger S 100
 Schmalz, Robert F 34
 Schmitt, Cyreis C 131
 Schmitt, Raymond W 14
 Schmitt, Walter R 107
 Schmitter, Ruth E 5
 Schmitz, Francis J 90
 Schmitz, Joyce E 94
 Schmitz, William J, Jr 14
 Schneider, David L 14
 Schnitker, Detmar F 22
 Schoener, Amy 137
 Scholl, David W 118
 Schopf, Paul S 46
 Schopf, Thomas J M 87
 Schott, Friedrich A 69
 Schouten, Hans 14
 Schramm, William G 117

- Schroeder, Brian W 14
Schroeder, Fred W 91
Schroeder, Karl R 45
Schroeder, William W 76
Schubel, Jerry R 31
Schuler, Dale L 40
Schuler, Francis M 48
Schults, Donald W 129
Schultz, David M 11
Schwab, David J 83
Schwartz, David J 76
Schwartz, Frank J 61
Schwartz, Maurice L 138
Schwarz, John R 93
Schweigert, Bernard S 123
Schweller, William J 33
Sclater, John G 7
Scott, Edwin L 71
Scott, Gerald P 18
Scott, Michael D 109
Scott, Martha R 94
Scranton, Mary I 31
Scully-Power, Paul D 24
Sea, Roy L 73
Seale, Dianne B 86
Seapy, Roger R 112
Searcy, Thomas S, Jr 82
Searles, Richard B 59
Sears, Paul N 14
Sebens, Kenneth P 6
Sechler, Ronald S 60
Seckel, Gunter R 116
Sedberry, George R 62
Seelig, William N 52
Seelye, James G 84
Seftor, J Laurence 53
Segar, Douglas A 49
Seibel, Erwin 120
Seidel, Wilber R 82
Seitz, William R 20
Selgeby, James H 84
Seliger, H H 49
Selk, Bruce W 110
Sellner, Kevin G 35
Semtner, Albert J 97
Serafy, D Keith 32
Serchuk, Fredric M 10
Serotta, Michael D 17
Setser, Patrick J 95
Seymour, Richard J 107
Shabica, Charles W 87
Shaklee, James B 124
Shank, Mitchell K, Jr 77
Shapiro, Douglas Y 3
Shapiro, Marguerita L 76
Sharma, Ghanshyam D 139
Sharman, George F 95
Sharp, Arnold G 14
Sharp, Jonathan H 36
Shaub, F Jeanne 92
Shaver, Gaius R 9
Shaw, David G 140
Shaw, Ginny H 55
Shaw, Ross F 136
Shay, Lynn Keith 77
Shay, Thomas B 104
Shen, David C 26
Shen, Young T 45
Shenker, Jonathan M 129
Shepard, Francis P 107
Shepard, Robert A 5
Shephard, Robert J 48
Sheppard, Donald Max 67
Sherman, Kenneth 19
Sherman, Kevin M 65
Sherwood, Wilbur G 42
Shick, J Malcolm 21
Shideler, Gerald L 56
Shield, Pamela D 77
Shih, Tai-chang 92
Shinn, Eugene A 68
Shipley, Thomas H 107
Shipp, Robert L 76
Shippen, Herbert H 135
Shirley, David E 40
Shleser, Robert A 124
Sholar, Terry M 60
Shomura, Richard S 125
Shonting, David H 16
Shor, Alexander N 30
Shor, George G, Jr 107
Short, Kent S 132
Shou, Philip M 55
Shoukimas, Jonathan J 9
Showers, William J 127
Shows, Stephen H 76
Shreffler, Jack H 58
Shuhy, Joseph L 44
Shumaker, Lawrence A 113
Shuman, Jack N 48
Shumway, Sandra E 32
Siapno, William D 54
Sibunka, John D 27
Sick, Lowell V 62
Sidell, Bruce D 21
Sieburth, John McN 18
Siegel, Alvin 32
Siever, Raymond 6
Sigurdsson, Haraldur 18
Silker, Wyatt B 139
Sill, Ben L 63
Silva, Armand J 18
Silva, Eugene A 53
Silver, Andrew L 45
Silvermam, Malcolm Jay 10
Simmons, James V, Jr 124
Simmons, Walter S 47
Simon, Beverly S 45
Simoneit, Bernd R T 99
Simpson, Harry James, Jr 30
Simpson, James J 107
Sindermann, Carl J 27
Singletary, Robert L 25
Sinha, Evelyn 104
Sinton, John M 126
Sissenwine, Michael P 10
Sivaprasad, Kondagunta U 20
Skeen, Thompson H 56
Skinner, Bruce C 23
Skop, Richard A 40
Skud, Bernard E 19
Slabyj, Bohdan M 21
Slagle, Karen J 58
Slater, Richard A 97
Slingerland, Rudy L 34
Sloan, Priscilla A 104
Sloss, Peter W 97
Slusser, George F 138
Small, Lawrence F 129
Smayda, Theodore J 18
Smedes, Gerald W 130
Smethie, William M, Jr 30
Smigielski, Alphonse S 19
Smith, Benjamin Lincoln 74
Smith, Carroll A 69
Smith, Charles W 21
Smith, David C, IV 65
Smith, David W 36
Smith, Emil J, Jr 123
Smith, Gary B 135
Smith, Jerome Anthony 7
Smith, J Dungan 137
Smith, Kimberly G 122
Smith, Kenneth L, Jr 107
Smith, Lee A 91
Smith, Lester B, Jr 16
Smith, Leah J 14
Smith, Ned P 73
Smith, Peter A 96
Smith, Paul E 104
Smith, Peter M 80
Smith, Ronald B 25
Smith, Raymond C 107
Smith, Robert Lloyd 129
Smith, Randall W 39
Smith, Susan E 121
Smith, Stuart M 107
Smith, Stephen V 124
Smith, Tim D 104
Smith, Walter D 40
Smith, Wallace G 27
Smith, Woolcott K 14
Smith, Walter L 32
Smith-Vaniz, William F 35
Smoker, William A 141
Snively, Parke D, Jr 118
Snedaker, Samuel C 69
Snyder, George R 135
Sobey, Edwin J C 96
Sohn, Joel Jay 10
Solomon, Louis P 80
Solomon, Sean C 7
Somero, George N 107
Somerville, Richard C J 107
Son-Hindmarsh, Rosanne 114
Sorensen, Jens C 109
Sorensen, Robert M 52
Soule, Dorothy F 99
Soule, Richard R 111

- Soutar, Andrew 107
 Southam, John R 70
 Southard, John Brelsford 7
 Spaeth, Mark G 49
 Sparks, Albert K 135
 Sparling, Shirley R 115
 Spaulding, Malcolm L 18
 Specht, David T 129
 Spence, Thomas W 95
 Spencer, Derek W 14
 Spencer, Richard B 127
 Spencer, Randall S 67
 Spielvogel, Lester Q 131
 Spiess, Fred Noel 109
 Spigai, Joseph J 50
 Spikes, Clayton H 28
 Spilhaus, Athelstan F, Jr 36
 Spiller, Judith 15
 Spillman, Don M 47
 Spindel, Robert C 15
 Spinelli, John 135
 Spitsbergen, Dennis L 60
 Sprague, Vance G, Jr 78
 Spratt, Jerome D 115
 Spring, Walter 90
 Springer, Pamela C 110
 Springer, Victor G 44
 Stachiw, Jerry D 111
 Stacy, Robert A 90
 Stahl, Lloyd E 26
 Stahl, Margo S 125
 Stalcup, Bruce W 40
 Stalcup, Marvel C 15
 Staley, Raymond C 65
 Stallard, J Michael 124
 Stamman, Elaine 97
 Stanbrough, Jess H 15
 Stanczyk, Stephen E 61
 Stanford, Harold M 32
 Stanley, Daniel Jean 43
 Stanley, Everett Michael 80
 Stanley, Jon G 21
 Starr, Robert B 72
 Stauble, Donald K 68
 Stauffer, Gary D 104
 Stedman, Ralph M 84
 Steele, John H 15
 Steele, Kenneth E 78
 Steenbergen, James F 112
 Stegeman, John J 15
 Stegen, Gilbert R 130
 Stehling, Kurt R 48
 Steimle, Frank W 27
 Stein, David L 129
 Steinbach, Robert B 119
 Steinhauer, William G 113
 Steinker, Don C 83
 Steinmetz, John C 75
 Stemberger, Richard S 85
 Stephen, Ralph A 15
 Stephens, Grover C 113
 Stepien, Jeanne C 30
 Stern, Melvin E 18
 Stern, Robert J 36
 Sternberg, Richard W 137
 Stevens, Elizabeth G 104
 Stevens, Karl K 73
 Stevens, Richard S 7
 Stevenson, David K 21
 Stevenson, John C 51
 Stevenson, L Harold 61
 Stevenson, Merritt R 97
 Stevenson, Robert E 101
 Stevenson, William H 37
 Stewart, Harris B, Jr 55
 Stewart, Joan G 108
 Stewart, Robert Earl, Jr 89
 Stewart, Robert H 109
 Stewart, Richard J 137
 Stewart, Robert J 131
 Stickney, Alden P 22
 Stickney, Robert R 95
 Stieglitz, Ronald D 86
 Stiles, Sheila S 25
 Stillwell, Charles E 19
 Stiven, Alan E 57
 Stoermer, Eugene F 85
 Stoessell, Ronald K 89
 Stoffa, Paul L 30
 Stoffolano, John G 4
 Stogner, Lawrence B, III 78
 Stokes, Robert L 132
 Stoll, Robert D 30
 Stommel, Henry M 15
 Storey, David A 4
 Storr, John F 33
 Stout, Judy P 76
 Stout, Virginia F 135
 St-Pierre, Gilbert 131
 Strand, John A, III 139
 Strasburg, Donald W 40
 Strathmann, Richard R 138
 Stratton, James F 87
 Straty, Richard R 141
 Straub, William J 91
 Strauch, Joseph G, Jr 96
 Straughan, Dale 99
 Street, Michael W 60
 Strong, Alan E 45
 Stroup, Edward D 127
 Stuart, Charles E 80
 Stubblefield, William L 72
 Studholme, Anne L 27
 Stuehrenberg, Lowell C 135
 Stumpf, Harry G 45
 Stuntz, Warren E 104
 Sturges, Wilton, III 65
 Su, Ming-Yang 80
 Subrahmanyam, Chebium B 64
 Suchanek, Thomas H 3
 Suess, Hans E 109
 Sulkin, Stephen D 51
 Sullivan, Barbara K 18
 Sullivan, James J 108
 Sullivan, J Kevin 50
 Sullivan, Loretta F 19
 Sullivan, Lawrence G 30
 Sullivan, Mark F 104
 Sullivan, Stephen M 113
 Sumida, Barbara Y 104
 Summy, Alan D 44
 Sund, Paul N 116
 Sunda, William G 60
 Supko, Peter R 114
 Sutherland, Alexander L 80
 Sutherland, Doyle F 66
 Sutherland, David L 71
 Sutherland, John P 59
 Swain, Frederick M 36
 Swan, George A 138
 Swanberg, Neil R 30
 Swanson, J Craig 19
 Swanson, Robert Lawrence 47
 Swartz, Richard C 130
 Swartzell, Phillip G 117
 Swedberg, Donald V 84
 Sweeney, Beatrice Marcy 114
 Swenson, Erick M 90
 Swerdloff, Stanley N 125
 Swezey, Charles F 48
 Swift, Donald J P 72
 Swift, Elijah 18
 Swift, James H 108
 Swingle, Hugh A 75
 Syck, James M 24
 Sylwester, Richard E 132
 Szabo, David 65
 Szuts, Ete Z 9
 Szyper, James P 124
- T
- Taft, Bruce A 137
 Taft, Jay L 49
 Taft, William H 74
 Tagg, A Richard 118
 Tait, Robert J 113
 Takahashi, Taro 30
 Talbot, Craig F 108
 Talkington, Howard R 111
 Talwani, Manik 33
 Tamm, George R 96
 Tamul, Joseph J 78
 Tanner, Christopher E 45
 Tanner, William F 65
 Tanonaka, George K 135
 Tappert, Frederick D 70
 Tarapchak, Stephen J 83
 Targett, Nancy M 64
 Targett, Timothy E 64
 Tashiru, Joseph E 71
 Tasto, Robert N 117
 Tatsch, James H 5
 Tattar, Terry A 4
 Tatum, Walter M 75
 Taylor, Barrie F 70
 Taylor, Craig D 15
 Taylor, Charles W 82

Taylor, David L 60
 Taylor, Dennis L 50
 Taylor, Frederick W 92
 Taylor, Walter R 49
 Teague, William J 78
 Teal, John M 15
 Tebeau, Peter A 24
 Teeny, Fuad M 135
 Tegner, Mia J 108
 Telander, David H 62
 Teleki, Paul G 52
 Temple, Paul R 130
 Templeton, William Lees 139
 Tennant, Jeffrey S 73
 Tenore, Kenneth R 64
 Terry, Orville W 31
 Terry, Richard D 113
 Terry, Theodore A 34
 Terwilliger, Nora B 130
 Terwilliger, Robert C 130
 Testarmata, Margaret M 92
 Thatcher, Herbert H 123
 Thayer, Gordon W 60
 Theberge, Norman B 55
 Theilacker, A Gail H 104
 Theroux, Roger B 10
 Theyer, Fritz 126
 Thierstein, Hans R 108
 Thistle, David 65
 Thomas, Geoffrey O 40
 Thomas, James C 22
 Thomas, James P 27
 Thomas, Lowell P 70
 Thomas, William H 108
 Thomas, William L 45
 Thompson, Anne M 108
 Thompson, Corley M 67
 Thompson, Edward F 52
 Thompson, Geoffrey 15
 Thompson, James D, Jr 80
 Thompson, Janet K 118
 Thompson, Perry A, Jr 82
 Thompson, Paul O 124
 Thompson, Peter R 30
 Thompson, Robert W 123
 Thompson, Warren C 116
 Thor, Devin R 91
 Thorndike, Edward M 30
 Thorne, Richard E 136
 Thornton, Edward B 116
 Thornton, Scott E 99
 Thoroughgood, Carolyn A 36
 Thro, Mary E 91
 Thum, Alan B 103
 Thunell, Robert C 61
 Thurberg, Frederick P 25
 Tiffney, Wesley N 9
 Tillman, Michael F 135
 Timko, Robert E 78
 Timme, Robert W 67
 Timpe, Gerald L 78
 Tingey, Henry B 35
 Tinkle, Anthony R 96

Tipper, Ronald C 80
 Tirey, George B 11
 Tischler, Herbert 20
 Tolbert, William H 66
 Tolderlund, Douglas S 23
 Tolefson, Donald C 54
 Tollios, Constantine D 15
 Tolmazin, David 24
 Tomas, Carmelo R 18
 Tomei, Joji 78
 Tomlinson, Patrick K 109
 Toole, John M 132
 Topinka, Jerry A 22
 Torres, Joseph J 75
 Tosteson, Thomas Robert 3
 Townsend, David W 22
 Townsend, Ralph E 21
 Townsend, William F 42
 Tracey, Martin L 73
 Traganza, Eugene Dewees 116
 Trammell, Ervin G, Jr 38
 Tran, Loi N 35
 Traverse, Alfred 34
 Traynor, Jimmie J 135
 Treadwell, Donald D 110
 Treadwell, T K 95
 Trefry, John H 68
 Trench, Robert K 114
 Trent, Wallace Lee 66
 Tripp, Bruce W 15
 Trivett, David H 67
 Trott, Lamarr B 37
 True, Mary B 15
 Truesdale, Frank M 89
 Trumbull, James V A 11
 Trump, Clifford L 40
 Tsahalis, Demos T 91
 Tsentas, Constantine 26
 Tsuchiya, Mizuki 108
 Tsuda, Roy T 127
 Tsuji, Frederick I 108
 Tsunoda, Lawrence M 135
 Tucholke, Brain E 15
 Tucker, Stevens P 116
 Tucker, Walter B, III 20
 Tudor, Walter J 52
 Tung, Chi C 57
 Tunnell, John W, Jr 95
 Tuovila, Susan M 66
 Tupper, George H 15
 Turekian, Karl K 25
 Turl, Charles W 124
 Turner, A Rudder, Jr 76
 Turner, Jefferson T 16
 Turner, Ruth D 6
 Turner, Robert Eugene 90
 Turner, Richard L 67
 Twiss, John R, Jr 36
 Twitchell, Paul F 7
 Tyce, Robert C 108
 Tyler, Seth 21

U

Uchida, Richard N 125
 Uchiyama, James H 125
 Uchupi, Elazar 15
 Ueber, Edward 121
 Uematsu, Mitsuo 18
 Ukeles, Ravenna 25
 Ulanowicz, Robert E 46
 Umback, Melvin J 48
 Underwood, Michael B 33
 Unni, Chathuarvedu K 18
 Uram, Earl M 73
 Utter, Fred M 135

V

Vaccaro, Ralph F 15
 Vachowski, Robert A 52
 Vail, Peter R 91
 Valdes, James R 15
 Valentine, David W 101
 Valiela, Ivan 9
 Vallier, Tracy L 118
 Valois, Frederica W 15
 van Andel, Tjeerd Hendrik 120
 Van Buren, Arnie Lee 67
 Vance, George P 90
 van de Kreeke, Jacobus 70
 Vandermeulen, John P 48
 Vanderploeg, Henry A 83
 Van Dolah, Robert F 62
 Van Dorn, William G 108
 Van Engel, Willard A 55
 Van Hemelryck, Ludo 92
 Van Heukelem, William F 51
 Van Leer, John C 70
 Van Lopik, Jack R 90
 van Montfrans, Jacques 55
 Van Sciver, Wesley J 34
 Vanselous, Thomas M 78
 Van Valin, Reed 92
 Van Vleet, Edward S 75
 VanWyckhouse, Roger J 80
 Varanasi, Usha 135
 Vargo, Gabriel A 75
 Vargo, Sandra L 74
 Vari, Richard P 44
 Varoujean, Daniel H 130
 Vedder, John G 118
 Vega, Luis A 120
 Venezia, William A 73
 Venkataramiah, A 81
 Venrick, Elizabeth L 108
 Vernberg, Frank John 61
 Vernberg, Winona B 61
 Vernon, James W 114
 Veronis, George 25
 Vetter, Richard C 41
 Vincent, Charles L 52
 Vinson, Jack R 35
 Virnstein, Robert W 73

Vitale, Philip 52
 Vlaun, Richard Charles 23
 Voelker, Joyce M 45
 Vogt, Peter R 40
 Volcani, Benjamin E 108
 Vollmer, Ronald 18
 Von Der Heydt, Keith 15
 Von Herzen, Richard P 15
 von Huene, Roland 118
 von Schwind, Joseph J 116
 Voorhis, Arthur D 15
 Voss, Gilbert L 70
 Voss, Nancy A 70

W

Waddell, Evans 57
 Wade, Charles W 75
 Wade, Richard B 102
 Wade, Robert H 111
 Wade, Terry L 56
 Wagner, Holly C 118
 Wagner, Milton Bruce 130
 Wahlen, Bruce E 104
 Wakeham, Stuart G 15
 Walden, Barrie B 15
 Walden, Robert 15
 Waldhauer, Ruth 27
 Waldner, Lane P 113
 Walker, Charles W 20
 Walker, Daniel A 126
 Walker, Sylvia C 103
 Walker, William W 81
 Wall, Janet M 135
 Wall, Robert E 42
 Wallace, Gordon T 64
 Waller, Thomas R 44
 Walsh, Don 99
 Walters, Charles Kelsey 37
 Walton, Charles C 45
 Walton, Clement J 22
 Wang, Frank F H 118
 Wang, Henry T 45
 Wang, John D 70
 Wang, Shen 70
 Wang, Tsen C 73
 Wang, Yu-Hwa 93
 Wanless, Harold R 70
 Ward, Emmett G 91
 Ward, Larry G 51
 Wardle, William J 55
 Waring, Gordon T 10
 Warlen, Stanley M 60
 Warner, Jon A 108
 Warner, Robert R 114
 Warner, Theodore B 40
 Warnke, Detlef A 120
 Warren, Bruce A 15
 Warren, Robert 35
 Warren, Thomas C 38
 Waslenchuk, Dennis G 24
 Wasmer, Robert A 75
 Wasowski, Stan F 80
 Wass, Marvin L 55
 Watanabe, Wade Osamu 125
 Waterbury, John B 15
 Waterman, Peter T 119
 Waterman, Talbot H 25
 Waters, James R 60
 Waters, Melvin E 62
 Wathne, Fred 135
 Watkins, William A 15
 Watling, Les 22
 Watson, George E 44
 Watson, John W 82
 Watson, Stanley W 15
 Watters, Bill G 8
 Watts, Anthony B 30
 Watts, D Randolph 18
 Watts, Noel H 82
 Watts, Robert L 111
 Weatherly, George L 65
 Webb, Douglas C 15
 Webb, Gregory W 4
 Webb, James W, Jr 93
 Webb, Kenneth L 55
 Webber, Harold H 4
 Weber, Douglas D 138
 Weber, Earl C 104
 Weber, James H 20
 Webster, Ferris 47
 Webster, Steven K 122
 Weggel, John Richard 52
 Weigend, Guido G 98
 Weihaupt, John G 122
 Weiler, Deborah 3
 Weiner, Ronald M 46
 Weinstein, Alan I 117
 Weinstein, Ehud 15
 Weinstein, Yitzhak 108
 Weis, Judith S 26
 Weisberg, Robert H 57
 Weiss, Herbert V 111
 Weiss, Ray F 108
 Weissel, Jeffrey K 30
 Weissman, Michael A 130
 Weitzman, Stanley H 44
 Wekell, John C 135
 Welander, Pierre L R S 137
 Welch, Christopher S 55
 Welch, Walter R 22
 Welker, John R 32
 Weller, Robert A 15
 Wells, John T 89
 Wells, LaRue 84
 Welsh, Barbara L 24
 Welsh, James P 80
 Wendt, Philip G 103
 Wenner, Adrian M 114
 Wenner, Elizabeth L 62
 Wenzel, Alan R 80
 Wenzel, James G 119
 Wesley, Edward J 111
 Wespestad, Vidar G 135
 West, Katy H 60
 Westbrook, Dale E 48
 Wetherall, Jerry A 125
 Wethey, David S 61
 Wetzell, Richard 55
 Weyl, Peter K 31
 Whaley, Richard C 49
 Wheeler, Charles L 10
 Wheeler, John R 87
 Wheeler, Patricia A 6
 Wheeler, Richard B 91
 Whelan, Jean K 15
 Whigham, Dennis F 50
 Whipple, Jeannette A 121
 Whitaker, Todd E 24
 Whitcomb, James P 55
 White, David C 64
 White, David S 85
 White, Rhett B 58
 White, Warren B 108
 Whitehead, John A, Jr 15
 Whitlatch, Robert B 24
 Whitmarsh, David C 34
 Whitmore, William F 119
 Whitney, David E 63
 Whitney, Geoffrey G, Jr 15
 Whitney, Lester Frank 4
 Whitworth, Thomas 95
 Wickham, Donald A 37
 Wickham, Daniel E 122
 Wickham, Jacob B 117
 Wickham, Jerry T 114
 Wicksten, Mary K 94
 Wiebe, Peter H 15
 Wiederhold, Craig N 78
 Wiersma, James H 87
 Wiese, Craig S 139
 Wiesenburg, Denis A 95
 Wiggins, Edwin G 93
 Wilburn, Anne M 38
 Wilburn, Gene M 45
 Wilce, Robert Thayer 4
 Wilcox, Chester C 80
 Wild, Alex 109
 Wild, Paul W 116
 Wildman, Robert D 48
 Wiley, Martin L 46
 Wilkens, E Peter H 93
 Wilkerson, John C 45
 Wilkins, Bruce T 33
 Willems, Robert C 7
 Willey, Joan D 58
 Willford, Wayne A 84
 Williams, Austin B 44
 Williams, Ann H 76
 Williams, Albert J, III 15
 Williams, Douglas F 61
 Williams, Eugene G 34
 Williams, Ernest H 3
 Williams, Francis 70
 Williams, Gregg H 131
 Williams, Gordon O 103
 Williams, Jerome 50
 Williams, Lucy Bunkley 3

Williams, Peter M 108
Williams, Richard B 42
Williams, Robert G 38
Williams, Sam E 41
Williams, S Jeffress 52
Willis, J Marcus 129
Willis, James N 60
Willis, Robert D 108
Willmott, Cort J 36
Wilson, James A 21
Wilson, Jerry C 100
Wilson, Joseph R 76
Wilson, Oscar B, Jr 117
Wilson, Robert E 31
Wilson, Valentine P 15
Wilson, W Stanley 42
Wimbush, Mark 18
Winant, Clinton D 108
Winchester, John W 65
Windisch, Charles C 30
Windom, Herbert L 64
Winfield, Theodore Paul 110
Wing, Bruce L 141
Winget, Clifford L 15
Winn, Howard E 18
Winnell, Michael H 85
Winokur, Robert S 53
Winsor, Martha H 78
Winter, Donald F 137
Winterer, Edward L 108
Wirsén, Carl O, Jr 15
Wisby, Warren J 70
Wise, John P 37
Wiseman, William J, Jr 89
Wishner, Karen F 18
Withers, Nancy W 127
Witzell, Warren E, Sr 16
Wohlschlag, Donald E 95
Wojcik, Frank J 55
Wolaver, Morgan L 91
Wolcott, Thomas Gordon 57
Wolf, Edward G 96
Wolf, Robert S 37
Wolfe, Douglas A 97
Wolff, Manfred 31
Wolford, Thomas C 44
Wolman, Allen A 135
Wolotira, Robert J Jr 139
Woo, Ching Chang 11
Wood, Elwyn D 88
Wood, Forrest G 111
Wood, Paul W, Jr 10
Wood, Robert H 35
Woodcock, Alfred H 127
Woodhead, Peter M J 31
Woodhouse, Charles D, Jr 114
Woodin, Sarah A 61
Woodmansee, Robert A 81
Woodroffe, David S 30
Woods, Earl G 78
Woodwell, George M 9
Woollacott, Robert M 6
Wooster, Warren S 132

Worcester, Peter F 109
Workman, Ian K 82
Worley, Steven J 95
Worlund, Donald D 135
Wormuth, John H 95
Worthem, Sylvia J 72
Worthington, Valentine 16
Wourms, John P 62
Wright, Frederick F 140
Wright, Ramil C 65
Wright, Tedd L 112
Wright, W Redwood 10
Wu, Jin 36
Wunsch, Carl I 7
Wursig, Bernd G 122
Wurster, Charles F 31
Wyrteki, Klaus 127

Y

Yalamanchili, Gopichand 90
Yamamoto, Mike N 125
Yamamoto, Sachio 111
Yamamoto, Tokuo 70
Yee, Grant S 112
Yeh, Hsueh-Wen C 126
Yentsch, Charles S 22
Yeske, Lanny A 117
Yocum, William L 85
Yoder, James A 64
Yolen, Naida M 48
Yoshida, Howard O 125
Yoshida, Kenneth K 125
Yoshioka, Paul M 3
Yotko, Henry J 45
Young, David K 80
Young, David N 98
Young, David R 100
Young, Earl M, Jr 16
Young, James S 138
Young, Joel W 110
Young, Martha W 89
Young, Richard A 78
Young, Robert A 72
Young, Richard E 127
Youngbluth, Marsh J 73
Yuen, Albert F H 102
Yuen, Heeny S H 125
Yurelich, Richard F 4

Z

Zafirliou, Oliver C 16
Zahn, George A 54
Zahuranec, Bernard J 80
Zalesak, Joseph F 67
Zalkan, Robert L 80
Zaneveld, J Ronald V 129
Zeigler, John M 55
Zenger, Harold H 135
Zetler, Bernard D 109

Ziemann, Joseph C 53
Zika, Rodney G 70
Zimmer, Russel Leonard 98
Zimmerman, Herman B 32
Zingmark, Richard G 61
Ziskowski, John J 27
Zobell, Claude E 108
Zsolnay, Adam 80
Zuboy, James R 71
Zuehlke, Richard W 18
Zullo, Victor A 58
Zwally, H Jay 46
Zwerner, David E 55
Zwicker, Benj M G 108

III

Individuals by Primary Field of Expertise and Their Index to Section I

PRECEDING PAGE BLANK-NOT FILMED

BIOLOGY/BIOL OCEANOGRAPHY/FISHERIES

Bony Fish and Elasmobranchs

- Alevizon, W. S. 67
 Ames, W. E. 138
 Amesbury, S. S. 127
 Baldwin, W. J. 124
 Balletto, J. H. 26
 Bane, G. W. 58
 Bennington, J. P. 87
 Berry, R. J. 70
 Binkowski, F. P. 86
 Bohlke, E. B. 35
 Bortone, S. A. 66
 Bradbury, M. G. 120
 Bray, R. N. 101
 Brewer, G. D. 99
 Briggs, J. C. 75
 Brothers, E. B. 33
 Brown, E. S. 133
 Burggren, W. W. 4
 Buth, D. G. 99
 Cahn, P. H. 47
 Cailliet, G. M. 122
 Carey, F. G. 12
 Carlson, H. R. 140
 Casey, J. G. 19
 Chamberlain, D. W. 100
 Chenoweth, J. F. 22
 Coffee, G. L. 76
 Collette, B. B. 44
 Copeland, D. E. 8
 Coyer, J. A. 113
 Critchlow, K. R. 99
 Dean, J. M. 61
 Demarest, J. R. 121
 DeMartini, E. E. 115
 Despres-Patanjo, L. I. 9
 DeVane, J. C., Jr 62
 deWitt, L. A. 99
 DeWitt, H. H. 22
 Dizon, A. E. 125
 Dooley, J. K. 30
 Dunn, J. R. 133
 Ebeling, A. W. 114
 Ebersole, J. P. 5
 Eckert, D. B. 125
 Eldridge, M. B. 121
 Elston, R. A. 33
 Fahay, M. P. 26
 Fahy, W. E. 61
 Forman, W. W. 88
 Foster, M. A. 123
 Foster, N. R. 84
 Gibbs, R. H., Jr 44
 Gill, C. D. 133
 Gilmore, R. G. 73
 Gordon, B. L. 5
 Gruber, S. H. 69
 Guthertz, E. J. 82
 Harosi, F. I. 8
 Hawkins, W. E. 81
 Heiser, J. B. 33
 Hensley, D. A. 3
 Herring, J. R. 80
 Hida, T. S. 125
 Hitron, J. W. 74
 Hobson, E. S. 121
 Hoese, H. D. 89
 Hoff, J. G. 16
 Hoffman, S. G. 75
 Horn, M. H. 112
 Howse, H. D. 81
 Hughes, S. E. 133
 Huish, M. T. 57
 Hunt, D. R. 81
 Ibara, R. M. 16
 Innis, D. B. 102
 Jackson, W. B. 93
 Jessee, W. N. 102
 Jewett, S. C. 140
 Johnson, G. D. 62
 Johnson, H. B. 60
 Jones, R. S. 73
 Kajimura, H. 134
 Kato, S. 121
 Knapp, L. W. 44
 Kormanik, G. A. 95
 Larson, R. J. 120
 Lavenberg, R. J. 98
 Lea, R. N. 115
 Lee, C. 124
 Leet, W. S. 121
 Lester, W. C. 102
 Lindquist, D. G. 58
 Lissner, A. L. 113
 Loftin, H. G. 66
 Longwell, A. C. 25
 Luer, C. A. 74
 Mac Michael, J. 84
 MacNichol, E. F., Jr 9
 Manooch, C. S., III 59
 Marquette, W. M. 134
 Martin, F. D. 46
 Matsui, T. 106
 Mayer, G. F. 31
 Maynard, S. D. 127
 McCain, B. B. 134
 McCleave, J. D. 21
 McClellan, D. B. 71
 McCosker, J. E. 119
 McGregor, I. R. 131
 McHugh, J. L. 31
 Miller, D. 63
 Miller, G. C. 71
 Miller, J. M. 58
 Milliken, D. M. 74
 Moss, S. A. 16
 Myrberg, A. A., Jr 69
 Nafpaktitis, B. G. 98
 Naughton, S. P. 66
 Nelson, D. R. 101
 Nester, R. D. 76
 Newman, M. W. 51
 Nichy, F. E. 10
 Nishiyama, T. 140
 Norden, C. R. 86
 Ogren, L. H. 66
 Olney, J. E. 54
 Olson, R. J. 109
 Palko, B. J. 71
 Paloma, P. A. 104
 Park, D. L. 134
 Parks, N. B. 134
 Pearcy, W. G. 129
 Perrin, D. W. 102
 Phillips, T. D. 74
 Potthoff, T. C. 71
 Powell, A. B. 60
 Powell, G. L. 96
 Pratt, H. 19
 Price, K. S. 36
 Prince, E. D. 71
 Pugh, W. L. 48
 Pullen, E. J. 52
 Quinn, T. J., II 131
 Reisman, H. M. 32
 Rivas, L. R. 71
 Roberts, F. L. 21
 Roberts, J. L. 4
 Robertson, D. R. 75
 Robison, B. H. 115
 Ronholt, L. L. 135
 Rosenblatt, R. H. 107
 Sabo, D. J. 8
 Saloman, C. H. 66
 Sanders, N., Jr 82
 Schwartz, F. J. 61
 Scott, E. L. 71
 Searcy, T. S., Jr 82
 Sedberry, G. R. 62
 Shaklee, J. B. 124
 Shenker, J. M. 129
 Shipp, R. L. 76
 Slusser, G. F. 138
 Smith-Vaniz, W. F. 35
 Sohn, J. J. 10
 Spinelli, J. 135
 Springer, V. G. 44
 Stein, D. L. 129
 Stillwell, C. E. 19
 Strasburg, D. W. 40
 Stuntz, W. E. 104
 Sumida, B. Y. 104
 Targett, T. E. 64
 Trott, L. B. 37
 Turner, A. R., Jr 76
 Varanasi, U. 135
 Wagner, M. B. 130
 Warlen, S. M. 60
 Warner, R. R. 114
 Watanabe, W. O. 125
 Weber, D. D. 138
 Weis, J. S. 26
 Weitzman, S. H. 44
 Whipple, J. A. 121
 Wiley, M. L. 46
 Willis, J. M. 129

Winn, H. E. 18
 Wisby, W. J. 70
 Wohlschlag, D. E. 95
 Wourms, J. P. 62

Crustacea

Abele, L. G. 64
 Ahlfield, T. E. 38
 Allen, D. M. 61
 Ames, W. E. 138
 Anderson, J. W. 138
 Anderson, P. J. 139
 Banner, A. H. 124
 Barnard, J. L. 43
 Bauer, R. T. 43
 Bayer, R. C. 21
 Beeton, A. M. 85
 Benson, R. H. 43
 Berry, R. J. 70
 Bookhout, C. G. 59
 Bowman, T. E. 43
 Brown, E. S. 133
 Bursey, C. R. 34
 Capuzzo, J. M. 12
 Carpenter, R. 60
 Chace, F. A., Jr 43
 Chang, E. S. 121
 Chess, J. R. 121
 Christman, M. C. 37
 Clifford, C. H. 12
 Conklin, D. E. 121
 Coull, B. C. 61
 Cox, B. A. 96
 Cummings, J. 86
 D'Abramo, L. R. 121
 D'Agostino, A. 32
 Dragovich, A. 71
 Factor, J. R. 74
 Ferrari, F. D. 44
 Fischer, J. 124
 Fleminger, A. 105
 Fotheringham, N. 92
 Gardiner, L. F. 26
 Gehring, W. R. 74
 Gore, R. H. 74
 Hart, C. W., Jr 43
 Hartman, M. C. 74
 Hayes, M. L. 133
 Heard, R. W. 81
 Heck, K. L. 35
 Henry, D. P. 137
 Herkelrath, J. M. 138
 Herring, J. R. 80
 Herrnkind, W. F. 64
 Hessler, R. R. 106
 Hirota, J. 126
 Howse, H. D. 81
 Hughes, S. E. 133
 Hulsemann, K. 103
 Humes, A. G. 8
 Ivester, M. S. 76
 Jackson, W. B. 93

Jewett, S. C. 140
 Kessler, D. W. 139
 Knight, M. D. 106
 Kornicker, L. S. 43
 Krygier, E. E. 128
 Lee, W. Y. 95
 Lewis, C. L. 106
 Loret, J. H. 30
 Manning, R. B. 43
 Maurer, D. L. 36
 Mayo, B. S. 16
 McConaughy, J. R. 56
 Miller, G. C. 71
 Morgan, M. D. 95
 Newton, F. C., III 102
 Nishimoto, R. T. 125
 Novak, A. J. 84
 Paul, A. J. 139
 Pearson, W. H. 138
 Penn, G. J. 92
 Pequegnat, L. H. 94
 Perry, H. M. 81
 Provenzano, A. J., Jr 56
 Pullen, E. J. 52
 Purvis, C. E. 60
 Rebach, S. 51
 Rees, G. H. 37
 Richards, W. K., Jr 124
 Roberts, M. H., Jr 55
 Roberts, T. W. 68
 Robertson, E. A. 76
 Roessler, M. A. 72
 Rudloe, A. E. 64
 Saloman, C. H. 66
 Sandifer, P. A. 62
 Sastry, A. N. 18
 Schick, D. F. 22
 Shield, P. D. 77
 Shleser, R. A. 124
 Spencer, R. B. 127
 Terwilliger, N. B. 130
 Theroux, R. B. 10
 Thomas, J. C. 22
 Tracey, M. L. 73
 Truesdale, F. M. 89
 Van Engel, W. A. 55
 van Montfrans, J. 55
 Wasmer, R. A. 75
 Wass, M. L. 55
 Waterman, T. H. 25
 Watling, L. 22
 Weber, D. D. 138
 Wenner, E. L. 62
 Wickham, D. E. 122
 Wicksten, M. K. 94
 Wiebe, P. H. 15
 Wild, P. W. 116
 Williams, A. B. 44

Molluscs

Alkan, D. L. 8
 Ames, W. E. 138

Anderson, J. W. 138
 Berg, C. J., Jr 8
 Boss, K. J. 5
 Britton, J. C. 96
 Brown, E. S. 133
 Burrell, V. G., Jr 62
 Cake, E. W., Jr 81
 Calabrese, A. 25
 Carriker, M. R. 36
 Castagna, M. 55
 Clark, K. B. 67
 Clifford, C. H. 12
 Cole, T. J. 50
 Darcy, G. H. 71
 D'Asaro, C. N. 66
 Davis, G. M. 35
 Dayton, P. K. 105
 Demonan, W. J. 81
 Ebert, E. E. 115
 Edwards, D. C. 4
 Elston, R. A. 33
 Farley, C. A. 51
 Gallager, S. M. 12
 Gallucci, V. F. 136
 Garrison, T. S. 112
 Gitschlag, G. R. 93
 Gordon, J. 35
 Graham, J. W. 102
 Grussendorf, M. J. 38
 Haven, D. S. 54
 Houbrick, R. S. 43
 Hughes, S. E. 133
 Jewett, S. C. 140
 Kendall, P. C. 54
 Kern, F. G. 51
 Kohn, A. J. 132
 Krantz, G. E. 51
 Kuzirian, A. M. 8
 Langton, R. W. 22
 Lederhendler, I. I. 8
 Lipka, D. A. 41
 Longwell, A. C. 25
 Lopez, G. R. 31
 Lutz, R. A. 22
 Malouf, R. E. 31
 Mann, R. 13
 Marshall, M. D. 60
 Martin, M. 115
 Maurer, D. L. 36
 McHugh, J. L. 31
 Menzel, R. W. 65
 Miller, G. C. 71
 Moore, D. R. 70
 Morse, M. P. 5
 Munden, F. H. 60
 Myren, R. T. 141
 Neary, J. T. 9
 Neve, R. A. 140
 Newell, R. I. E. 51
 Noyes, G. S. 32
 Nybakken, J. W. 122
 Nyqvist, D. 97
 Paige, J. A. 9

Palmer, R. E. 41
 Paul, A. J. 139
 Pearcy, W. G. 125
 Porter, H. J. 61
 Purvis, C. E. 60
 Ray, S. M. 93
 Robertson, E. A. 76
 Robertson, R. 35
 Roper, C. F. E. 43
 Ropes, J. W. 10
 Rosewater, J. 43
 Rowland, R. W. 52
 Sass, D. B. 33
 Sastry, A. N. 18
 Seapy, R. R. 112
 Stiles, S. S. 25
 Suchanek, T. H. 3
 Sutherland, J. P. 59
 Terwilliger, N. B. 130
 Theroux, R. B. 10
 Tipper, R. C. 80
 Tunnell, J. W., Jr 95
 Turner, R. D. 6
 Van Heukelem, W. F. 51
 Voss, N. A. 70
 Waller, T. R. 44
 Wass, M. L. 55
 Whitcomb, J. P. 55
 Wiederhold, C. N. 78
 Young, R. E. 127

Invertebrates

Ahlfeld, T. E. 38
 Alston, D. E. 3
 Alvarino, A. 103
 Anderson, J. W. 138
 Boardman, R. S. 43
 Bookhout, C. G. 59
 Branchley, G. A. 113
 Brenowitz, A. H. 30
 Brown, E. S. 133
 Burke, T. E. 38
 Burke, W. D. 81
 Burreson, E. M. 54
 Bursey, C. R. 34
 Buskirk, R. E. 92
 Buss, L. W. 25
 Calder, D. R. 62
 Chess, J. R. 121
 Ciereszko, L. S., Sr 90
 Clifford, C. 12
 Coher, E. I. 32
 Cummings, C. E. 87
 Cutress, C. E. 3
 Dayton, P. K. 105
 Dearborn, J. H. 21
 Deardorff, T. L. 81
 D'Elia, C. F. 45
 Diaz, R. J. 54
 Dodge, R. E. 68
 Downing, J. D. 4
 Dragovich, A. 71

Dustan, P. 105
 Eckelbarger, K. J. 73
 Edman, J. D. 4
 Fauchald, K. 43
 Foster, M. W. 87
 Galt, C. P. 101
 Gardiner, S. L. 43
 Giammona, C. P. 94
 Glynn, P. W. 75
 Goldberg, W. M. 73
 Gould, M. D. 16
 Grassle, J. P. 8
 Green, K. D. 113
 Griswold, C. A. 19
 Groat, C. S. 83
 Gross, P. R. 8
 Hancock, D. R. 128
 Hand, C. H., Jr 121
 Harris, L. H. 100
 Hayden, B. P. 68
 Hecker, B. 29
 Hendler, G. L. 44
 Higgins, R. P. 43
 Highsmith, R. C. 75
 Hiltunen, J. K. 84
 Holstrom, M. V. 113
 Hughes, S. E. 133
 Humphries, E. M. 50
 Hurme, A. K. 52
 Jewett, S. C. 140
 Jones, M. L. 43
 Kastendiek, J. 98
 Kendall, D. R. 63
 Kier, P. M. 43
 King, K. M. 113
 Lasker, H. R. 33
 Lee, W. L. 119
 Lessios, H. A. 75
 Lissner, A. L. 113
 Loeb, G. I. 40
 Lopez, G. R. 31
 Mariscal, R. N. 64
 Maurer, D. L. 36
 McCammon, H. M. 42
 McCarthy, F. D. 100
 McMahan, E. A. 57
 Meyer, M. C. 21
 Miller, R. L. 35
 Montgomery, D. H. 115
 Moser, M. 122
 Muscatine, L. 99
 Nalep, T. F. 83
 Nichols, J. A. 110
 Niesen, T. M. 120
 Nikituk, E. M. 26
 Nybakken, J. W. 122
 Nyqvist, D. 97
 O'Brien, F. X. 16
 O'Clair, C. E. 141
 Oglesby, L. C. 102
 Oliver, J. S. 122
 Olson, R. E. 129
 Overstreet, R. M. 81

Pawson, D. L. 43
 Pecci, K. J. 10
 Pettibone, M. H. 43
 Pierce, S. 30
 Price, T. H. 60
 Randall, R. H. 127
 Reish, D. J. 101
 Rice, M. E. 74
 Richards, T. L. 115
 Rieger, R. M. 57
 Riser, N. W. 5
 Robbin, D. M. 68
 Rodaniche, A. F. 75
 Ross, J. R. P. 137
 Ruetzler, K. 43
 Ruppert, E. E. 62
 Scheltema, R. S. 14
 Schopf, T. J. M. 87
 Serafy, D. K. 32
 Shick, J. M. 21
 Singletary, R. L. 25
 Smedes, G. W. 130
 Stoffolano, J. G. 4
 Storr, J. F. 33
 Suchanek, T. H. 3
 Terwilliger, N. B. 130
 Tran, L. N. 35
 Turner, R. L. 67
 Tyler, S. 21
 Walker, C. W. 20
 Wardle, W. J. 55
 Wass, M. L. 55
 Webster, S. K. 122
 White, D. S. 85
 Winnell, M. P. 85
 Woodin, S. F. 61
 Young, J. S. 138
 Young, M. W. 89
 Zimmer, R. L. 98

Marine Mammals

Ames, J. A. 115
 Aron, W. 133
 Au, D. W. K. 103
 Braham, H. W. 133
 Breiwick, J. M. 133
 Brown, R. F. 128
 Chun, N. K. N. 123
 Coe, J. M. 103
 Dailey, M. D. 101
 Dayton, P. K. 105
 DeMaster, D. P. 103
 Dohl, T. P. 122
 Edel, R. K. 17
 Elsner, R. 140
 Evans, W. E. 110
 Farentinos, R. C. 97
 Fay, F. H. 140
 Gentry, R. L. 133
 Gilmartin, W. G. 125
 Gracy, R. C. 82
 Hain, J. H. W. 17

Haines, M. L. 37
 Hall, A. F. 77
 Hall, R. W. 124
 Harvey, J. T. 128
 Haun, J. E. 124
 Henderson, J. R. 103
 Hobbs, L. J. 133
 Hofman, R. J. 36
 Holt, R. S. 103
 Jackson, T. D. 103
 Jennings, J. G. 103
 Kajimura, H. 134
 Kelly, D. L. 112
 Keyes, M. C. 134
 Kooyman, G. L. 106
 Kozloff, P. 134
 Leatherwood, J. S. 67
 Levenson, C. 79
 Lingle, G. E. 124
 Loughlin, T. R. 37
 Major, P. F. 36
 Markowitz, H. 120
 Marquette, W. M. 134
 Mate, B. R. 129
 May, R. A. 123
 Mayo, C. A. 16
 McAlister, W. B. 134
 McSheehy, D. I. 124
 Mead, J. G. 44
 Miller, R. V. 134
 Myrick, A. C., Jr 104
 Nachtigall, P. E. 124
 Norris, K. S. 122
 Notarbartolo di Sciara, G. 110
 Nyqvist, D. 97
 Odell, D. K. 69
 Ortiz, C. L. 122
 Patten, D. R. 98
 Patterson, S. A. 124
 Perez, M. A. 134
 Perrin, W. F. 104
 Pierotti, R. J. 122
 Porter, H. O. 111
 Powell, B. A. 111
 Rice, D. W. 135
 Ridgway, S. H. 111
 Roppel, A. Y. 135
 Rugh, D. J. 135
 Scott, G. P. 18
 Scott, M. D. 109
 Shay, T. B. 104
 Simmons, J. V., Jr 124
 Sloan, P. A. 104
 Soule, R. R. 111
 Stallard, J. M. 124
 Thompson, P. O. 124
 Tillman, M. F. 135
 Tsunoda, L. M. 135
 Turl, C. W. 124
 Twiss, J. R., Jr 36
 Varanasi, U. 135
 Watkins, W. A. 15
 Winn, H. E. 18

Wolman, A. A. 135
 Wood, F. G. 111
 Woodhouse, C. D., Jr 114
 Wursig, B. G. 122

Chordates

Balazs, G. H. 124
 Connors, P. G. 121
 Farentinos, R. C. 97
 Galt, C. P. 101
 Gentry, R. L. 133
 Jolley, D. E. 76
 MacLean, W. P. 3
 Myers, J. P. 121
 Pierotti, R. J. 122
 Pringle, W. G., Jr 71
 Smith, K. G. 122
 Strauch, J. G., Jr 96
 Weinstein, Y. 108

Algae and Higher Plants

Almodovar, L. R. 3
 Belin, C. W., Jr 63
 Brauner, J. F. 28
 Burris, J. E. 34
 Cheney, D. P. 5
 Cooley, T. N. 42
 Darley, W. M. 63
 Dayton, P. K. 105
 Eleuterius, L. N. 81
 Findley, D. L. 76
 Foerster, J. W. 50
 Fralick, R. A. 19
 Fryxell, G. A. 94
 Gibor, A. 114
 Ginsburg, R. N. 69
 Goad, L. M. 85
 Godfrey, P. J. 4
 Gosselink, J. G. 89
 Graham, L. E. 86
 Harris, L. H. 100
 Hillson, C. J. 34
 Howard, B. M. 120
 Josselyn, M. N. 120
 Kapraun, D. F. 58
 Knutson, P. L. 52
 Lewin, R. A. 106
 Liddle, L. B. 32
 Lorenzen, C. J. 137
 McAllister, R. D. 115
 Monteferrante, F. J. 90
 Murray, S. N. 112
 Norris, J. N. 43
 Orth, R. J. 54
 Paerl, H. W. 61
 Pruder, G. D. 36
 Ragster, L. E. 3
 Rusanowski, P. C. 103
 Ryther, J. H. 14
 Schmitter, R. E. 5
 Schwartz, D. J. 76

Shows, S. H. 76
 Sieburth, J. M. 18
 Sparling, S. R. 115
 Stamman, E. 97
 Stout, J. P. 76
 Tattar, T. A. 4
 Tsuda, R. T. 127
 Ukeles, R. 25
 Waterbury, J. B. 15
 Webb, J. W., Jr 93
 Whigham, D. F. 50
 Wilce, R. T. 4
 Woodwell, G. M. 9

Fungi Bacteria and Viruses

Ahmed, S. I. 136
 Colwell, R. R. 46
 Cowley, G. T. 61
 Elston, R. A. 33
 Fell, J. W. 69
 Hibbits, J. 138
 Kator, H. I. 54
 Kohlmeyer, J. J. 61
 May, M. E. 40
 Metcalf, T. G. 20
 Mitchell, R. 6
 Newell, S. Y. 63
 Nicholson, B. L. 21
 Ogrydziak, D. M. 123
 Padgett, D. E. 58
 Porter, D. 63
 Reno, P. W. 21
 Sieburth, J. M. 18
 Steenbergen, J. F. 112
 Stevenson, L. H. 61
 Taylor, C. D. 15
 Tiffney, W. N. 9
 Waterbury, J. B. 15
 Weiner, R. M. 46
 White, D. C. 64
 ZoBell, C. E. 108

Marine Macrophytes

Adey, W. H. 43
 Ballantine, D. L. 3
 Bittaker, H. F. 65
 Brinkhuis, B. H. 31
 Calvin, N. I. 140
 Churchill, A. C. 30
 Dayton, P. K. 105
 Diaz-Piferrer, M. R. 3
 Eisman, N. J. 73
 Gallagher, J. L. 36
 Hosier, P. E. 58
 Humm, H. J. 75
 Lee, T. F. 19
 Mathieson, A. C. 20
 McRoy, C. P. 140
 Menez, E. G. 44
 Moore, K. A. 54
 Morse, D. E. 114

Murray, S. N. 112
 Neushul, M. 115
 Penhale, P. A. 54
 Penn, G. J. 92
 Phillips, R. C. 136
 Ramus, J. S. 59
 Russell, D. J. 136
 Searles, R. B. 59
 Snedaker, S. C. 69
 Stevenson, J. C. 51
 Stewart, J. G. 108
 Tanner, C. E. 45
 Terry, O. W. 31
 Thayer, G. W. 60
 Topinka, J. A. 22
 Wildman, R. D. 48
 Young, D. N. 98
 Zieman, J. C. 53

Marine Biology/Physiology

Anderson, J. W. 138
 Atema, J. 8
 Avent, R. M. 92
 Babcock, M. M. 140
 Baiardi, J. C. 32
 Ball, F. W. 125
 Bane, G. W. 58
 Barker, A. J. 5
 Bass, E. L. 51
 Benner, D. A. 41
 Biggs, D. C. 94
 Binkowski, F. P. 86
 Blake, N. J. 75
 Boese, B. L. 129
 Boothe, P. N. 94
 Bullock, T. H. 105
 Capuzzo, J. M. 12
 Carey, F. G. 12
 Carls, M. G. 140
 Carlson, H. R. 140
 Carlucci, A. F. 105
 Childress, J. J. 114
 Clogston, F. L. 115
 Cobb, D. A. 119
 Cohen, J. L. 6
 Cohen, R. E. 9
 Cooper, J. W. 89
 Crawford, R. E. 17
 Crozier, G. F. 75
 D'Agostino, A. 32
 Dame, R. F. 61
 Davis, B. J. 120
 Dayton, P. K. 105
 Dean, J. M. 61
 Dean, R. C. 75
 Dean, T. A. 115
 De Coursey, P. J. 61
 D'Elia, C. F. 45
 DeVane, J. C., Jr. 62
 Dieter, E. R. 140
 DiMichele, L. V. 49
 Dorigan, J. V. 41

Dortch, F. Q. 136
 Dunson, W. A. 34
 Eldridge, M. B. 121
 Engel, D. W. 59
 Enright, J. T. 105
 Epifanio, C. E. 35
 Estevez, E. D. 74
 Farmanfarmaian, A. 27
 Feder, H. M. 140
 Feng, S. Y. 24
 Finucane, J. H. 66
 Fitzgerald, C. M. 99
 Flakes, C. M. 76
 Flint, R. W. 95
 Folmar, L. C. 129
 Froelich, A. S. 65
 Gallager, S. M. 12
 Given, R. R. 100
 Goldberg, W. M. 73
 Gonor, J. J. 129
 Gordon, M. S. 99
 Gore, R. H. 74
 Graham, J. B. 106
 Greenberg, M. J. 64
 Griffith, R. W. 16
 Groat, C. S. 83
 Gross, P. R. 8
 Haderlie, E. C. 116
 Hall, J. R., III 37
 Hammel, H. T. 106
 Hannah, R. P. 78
 Harosi, F. I. 8
 Harper, D. E., Jr. 93
 Hartman, W. D. 25
 Haxo, F. T. 106
 Helfrich, P. 124
 Henwood, T. A. 82
 Herring, J. R. 80
 Hessler, R. R. 106
 Hines, A. H. 49
 Hirsch, N. D. 121
 Hodgson, E. S. 7
 Hunter, J. R. 103
 Inoue, S. 8
 Jeffries, H. P. 17
 Kendall, D. R. 63
 Kennedy, V. S. 51
 Kirby-Smith, W. W. 59
 Kirkwood, J. B. 63
 Kornfield, I. L. 21
 Kraeuter, J. N. 55
 Krebs, C. T. 45
 Lakshmi, G. J. 81
 Langton, R. W. 22
 Lasker, H. R. 33
 Lee, C. 124
 Lee, R. F. 64
 Lester, C. J. 102
 Light, M. 24
 Lindstedt-Siva, K. J. 100
 Lipps, J. H. 123
 London, M. D. 26
 Lopez, G. R. 31

Lucy, J. A. 54
 Lutz, P. L. 69
 Lynch, M. P. 54
 Lynch, P. R. 35
 MacFarlane, R. B. 121
 Manen, C. 140
 Marcus, J. H. 73
 Mariscal, R. N. 64
 Markus, J. A. 113
 Martin, C. 5
 Maynard, N. G. 97
 McCarthy, F. D. 100
 Miller, A. C. 101
 Moles, A. D. 141
 Morales-Alamo, R. 54
 Muhlia, A. F. 109
 Muscatine, L. 99
 Neff, J. M. 8
 Nelson, S. G. 127
 Nester, R. D. 76
 Nichols, F. H. 118
 O'Connor, J. S. 31
 Oshida, P. S. 101
 Paloma, P. A. 104
 Pamatmat, M. M. 121
 Pearse, J. S. 122
 Pechenik, J. A. 7
 Pellegrin, G. J., Jr. 82
 Pequegnat, W. E. 93
 Phleger, C. F. 112
 Phoel, W. C. 27
 Picciolo, A. R. 38
 Pickwell, G. V. 111
 Pomponi, S. A. 51
 Porter, J. W. 63
 Powers, D. A. 49
 Price, T. H. 60
 Prince, E. D. 71
 Pritchard, J. B. 64
 Randall, R. C. 129
 Reid, R. N. 27
 Renfro, J. L. 64
 Rice, S. D. 141
 Richards, T. L. 115
 Rivas, L. R. 71
 Roberts, M. H., Jr. 55
 Roer, R. D. 58
 Roesijadi, G. 138
 Rogers, R. M. 88
 Rossi, S. S. 112
 Rutten, P. J. 121
 Sanborn, H. R. 135
 Sastry, A. N. 18
 Sellner, K. G. 35
 Setser, P. J. 95
 Shick, J. M. 21
 Shomura, R. S. 125
 Shumway, S. E. 32
 Smith, K. L., Jr. 107
 Sohn, J. J. 10
 Soule, D. F. 99
 Spratt, J. D. 115
 Steimle, F. W. 27

Stephens, G. C. 113
 Stickney, A. P. 22
 Subrahmanyam, C. B. 64
 Sulkin, S. D. 51
 Swanberg, N. R. 30
 Tamm, G. R. 96
 Teal, J. M. 15
 Templeton, W. L. 139
 Terwilliger, R. C. 130
 Theroux, R. B. 10
 Thomas, L. P. 70
 Thompson, J. K. 118
 Thum, A. B. 103
 Thurberg, F. P. 25
 Torres, J. J. 75
 Tosteson, T. R. 3
 Turner, R. E. 90
 Van Dolah, R. F. 62
 Venkataramiah, A. 81
 Vernberg, F. J. 61
 Vernberg, W. B. 61
 Warner, J. A. 108
 Wathne, F. 135
 Webb, K. L. 55
 Weber, D. D. 138
 Wenner, A. M. 114
 Wetzell, R. 55
 Whipple, J. A. 121
 Whitlatch, R. B. 24
 Williams, L. B. 3
 Winsor, M. H. 78
 Wisby, W. J. 70
 Wohlschlag, D. E. 95
 Wolcott, T. G. 57
 Wolfe, D. A. 97
 Woollacott, R. M. 6
 Wourms, J. P. 62
 Yolen, N. M. 48

Micro Ecology

Bailey, C. A. 39
 Baylor, E. R. 31
 Beers, J. R. 105
 Capone, D. G. 31
 Carey, A. E. 12
 Delaca, T. E. 105
 Dressel, D. M. 37
 Ferguson, R. L. 59
 Foerster, J. W. 50
 Griffiths, R. P. 128
 Haas, L. W. 54
 Hanson, R. B. 64
 Jones, G. F. 98
 Karl, D. M. 126
 Lange, R. E. 106
 LaRock, P. A. 65
 Lipps, J. H. 123
 Loeb, G. I. 40
 Odum, W. H., III 38
 Piotrowski, M. R. 110
 Potts, M. 64
 Powell, E. N. 94

Prince, E. D. 71
 Sieburth, J. M. 18
 Smith, D. W. 36
 Taylor, C. D. 15
 Tran, L. N. 35
 White, D. C. 64

Microbiology

Ahmed, S. I. 136
 Alexander, S. K. 93
 Amy, P. S. 128
 Azam, F. 105
 Blakemore, R. P. 20
 Blogoslawski, W. J. 25
 Broich, W. A. 128
 Brown, C. 25
 Buck, J. D. 24
 Caldwell, B. A. 128
 Canale-Parola, E. 4
 Colwell, R. R. 46
 Cook, D. W. 81
 Cook, T. M. 46
 Cooksey, K. E. 69
 Delaca, T. E. 105
 Ducklow, H. W. 29
 Ehrlich, H. L. 32
 Eklund, M. W. 133
 Ellis, R. H. 27
 Faust, M. A. 49
 Geesey, G. G. 101
 Goldmintz, D. 62
 Graikoski, J. T. 25
 Hawke, J. P. 75
 Hemmingsen, B. B. 112
 Hetrick, F. M. 46
 Higerd, T. B. 62
 Hines, M. E. 20
 Hood, M. A. 66
 Iturriaga, R. H. 98
 Jannasch, H. W. 13
 Jones, G. E. 20
 Jones, R. D. 128
 Kobori, H. 98
 Landau, J. V. 32
 Lavoie, D. M. 79
 Lee, B. 113
 Levin, R. E. 4
 Litsky, W. 4
 Lott, D. F. 66
 Makemson, J. C. 73
 McCain, B. B. 134
 Metcalf, T. G. 20
 Mitchell, R. 6
 Morita, R. Y. 128
 Nealson, K. H. 107
 Ortiz, J. S. 4
 Ozretich, R. J. 129
 Pelroy, G. A. 134
 Perkins, F. O. 55
 Pfaender, F. K. 56
 Pope, D. H. 32
 Portier, R. J. 90

Poysky, F. T. 134
 Pratt, D. B. 21
 Pruder, G. D. 36
 Remsen, C. C. 86
 Rhodes, M. W. 55
 Richards, G. P. 62
 Robertson, B. R. 140
 Schwarz, J. R. 93
 Sellner, K. G. 35
 Sieburth, J. M. 18
 Smith, W. L. 32
 Steenbergen, J. F. 112
 Taylor, C. D. 15
 Valois, F. W. 15
 Waterbury, J. B. 15
 Watson, S. W. 15
 Weiner, R. M. 46
 Wirsén, C. O., Jr 15

Fisheries Oceanography

Alvarino, A. 103
 Armstrong, R. S. 18
 Aron, W. 133
 Austin, H. M. 54
 Bakun, A. 116
 Bane, G. W. 58
 Berry, R. J. 70
 Binkowski, F. P. 86
 Bledsoe, L. J. 136
 Bliss, K. A. 103
 Boehlert, G. W. 129
 Brucks, J. T. 78
 Bunn, A. R. 82
 Cohen, E. B. 9
 Colton, J. B., Jr 19
 Cook, S. K. 18
 Day, D. S. 78
 DeVane, J. C., Jr 62
 Dooley, J. K. 30
 Edwards, R. L. 9
 Eldridge, M. B. 121
 English, T. S. 136
 Evans, R. H. 103
 Fletcher, R. I. 136
 Flittner, G. A. 49
 Griffin, J. J. 17
 Hargis, W. J. 54
 Haynes, E. D. 37
 Henry, F. 115
 Herkelrath, J. M. 138
 Holt, D. E. 42
 Hughes, S. E. 133
 Ingham, M. C. 18
 Innis, D. B. 102
 Jackson, W. B. 93
 Jewett, S. C. 140
 Jossi, J. W. 18
 Keene, D. F. 100
 Kemmerer, A. J. 78
 Kendall, A. W., Jr 134
 Laevastu, T. 134
 Laurs, R. M. 104

Leming, T. D. 78
 Loesch, J. G. 54
 Loret, J. H. 30
 Lough, R. G. 10
 Manooch, C. S., III 59
 McClellan, H. A. 76
 McHugh, J. L. 31
 McLain, D. R. 116
 Miller, G. C. 71
 Muhlia, A. F. 109
 Neshyba, S. 129
 Parrish, R. H. 116
 Pearcy, W. G. 129
 Pedrick, R. A. 37
 Powell, A. B. 60
 Prince, E. D. 71
 Richard, J. D. 69
 Richardson, S. L. 81
 Robertson, E. A. 76
 Roessler, M. A. 72
 Schlitz, R. J. 10
 Sechler, R. S. 60
 Sissenwine, M. P. 10
 Stahl, M. S. 125
 Straty, R. R. 141
 Sund, P. N. 116
 Thomas, J. P. 27
 Thorne, R. E. 136
 Tolderlund, D. S. 23
 Townsend, D. W. 22
 Valentine, D. W. 101
 Wagner, M. B. 130
 Wall, J. M. 135
 Williams, F. 70
 Wooster, W. S. 132

Fisheries Biology

Abramson, N. J. 121
 Adams, P. B. 121
 Ahrenholz, D. W. 59
 Allen, D. M. 70
 Almeida, F. P. 9
 Alvarino, A. 103
 Ames, W. E. 138
 Amos, M. H. 133
 Anderson, E. D. 9
 Andrews, J. D. 54
 Anthony, V. C. 9
 Argyle, R. L. 84
 Bailey, J. E. 140
 Baker, S. E. 84
 Bakkala, R. G. 133
 Bane, G. W. 58
 Barger, L. E. 65
 Barlow, J. 21
 Barrett, I. 103
 Bartoo, N. W. 103
 Baxter, J. L. 117
 Bayliff, W. H. 109
 Beardsley, G. L. 71
 Beckert, H. 88
 Benson, N. G. 89

Bergstedt, R. A. 84
 Berlin, W. H. 84
 Bernard, D. R. 129
 Berry, R. J. 70
 Best, E. A. 131
 Binkowski, F. P. 86
 Bishop, J. M. 62
 Blahm, T. H. 138
 Boardman, C. W. 3
 Bolz, G. R. 9
 Boreman, J. G., Jr 9
 Botsford, L. W. 121
 Bowman, R. E. 9
 Boyar, H. C. 9
 Brashier, J. 88
 Brown, E. S. 133
 Brown, J. T. 60
 Brusher, H. A. 66
 Bryan, C. F. 89
 Buck, E. H. 41
 Burns, T. J. 9
 Burrell, V. G., Jr 62
 Byrne, C. J. 9
 Caillouet, C. W. 93
 Calaprice, J. R. 109
 Calkins, T. P. 109
 Carlson, H. R. 140
 Chambers, J. R. 37
 Chan, E. I. 37
 Chapoton, R. B. 59
 Cheek, R. P. 59
 Cheeves, G. H. 133
 Chenoweth, J. F. 22
 Chenoweth, S. B. 22
 Clark, S. H. 9
 Clements, L. C. 59
 Coffee, G. L. 76
 Colby, D. R. 59
 Cole, J. S. 109
 Coleman, E. M. 71
 Collins, L. A. 66
 Comp, G. S. 74
 Corazza, L. 35
 Corliss, J. P. 82
 Creaser, E. P. 22
 Cross, J. N. 100
 Cummins, R., Jr 62
 Dahlberg, M. L. 140
 Dark, T. A. 133
 Dawley, E. M. 133
 Dean, J. M. 61
 Dery, L. M. 9
 Despres-Patanjo, L. I. 9
 DeVane, J. C., Jr 62
 DeVries, D. A. 60
 Diana, J. S. 85
 Dooley, J. K. 30
 Dorr, J. A., III 85
 Doyle, J. P. 139
 Drucker, B. 37
 Drummond, S. B. 82
 Dudley, D. L. 59
 Durham, L. 87

D'Vincent, S. L. 103
 Ebel, W. J. 133
 Echeverria, T. 121
 Edsall, C. C. 84
 Edsall, T. A. 84
 Eldridge, M. B. 121
 Eldridge, P. J. 62
 Ellis, R. J. 140
 Elrod, J. H. 84
 Eversole, A. G. 62
 Fable, W. A., Jr 66
 Farley, T. C. 123
 Figueroa, J. L. 3
 Fleming, E. R. 123
 Fogarty, M. J. 9
 Ford, R. S., Jr 82
 Foreman, T. J. 109
 Forman, W. W. 88
 Foster, H. A. 9
 Fox, W. W., Jr 71
 Francis, R. C. 133
 Fujimoto, M. M. 125
 Geibel, J. J. 117
 Gillikin, J. W., Jr 60
 Gilmore, R. G. 73
 Gooding, R. M. 125
 Goodyear, C. D. 84
 Graham, J. J. 22
 Grant, J. D. 26
 Greenhood, E. C. 123
 Greenough, J. W. 109
 Gronlund, W. D. 133
 Grosslein, M. D. 9
 Gunderson, D. R. 136
 Gunter, G. 81
 Haight, R. E. 141
 Hanson, J. L. 141
 Hanson, L. H. 84
 Hardman, W. H. 131
 Hardwick, J. E. 115
 Hardy, L. H. 59
 Harper, D. E. 71
 Hartman, W. L. 84
 Hassler, W. W. 57
 Hatch, R. W. 84
 Hatcher, C. O. 84
 Haynes, E. B. 141
 Helle, J. H. 141
 Hennemuth, R. C. 9
 Herke, W. H. 89
 Herring, J. R. 80
 Hettler, W. F. 59
 Hewitt, R. P. 103
 Heyamoto, H. 133
 Higashi, G. R. 125
 High, W. L. 133
 Hirschhorn, G. 133
 Hoag, S. H. 131
 Hodgins, H. O. 133
 Hogg, R. G. 74
 Holland, B. F. 60
 Hoss, D. E. 59
 Hughes, J. R. 133

- Hughes, S. E. 133
 Huish, M. T. 57
 Hunter, C. J. 133
 Huntsman, G. R. 59
 Innis, D. B. 102
 Iversen, E. S. 69
 Jackson, W. B. 93
 Jaenicke, H. W. 141
 Jearld, A., Jr 9
 Jeffrey, N. B. 37
 Jensen, H. W. 10
 Jewett, S. C. 140
 Johnson, A. G. 66
 Johnson, W. B. 89
 Jones, A. C. 71
 Jones, B. F. 134
 Jorgenson, S. C. 84
 Joseph, J. 109
 Jow, T. 117
 Jude, D. J. 85
 Judy, M. H. 59
 Kajimura, H. 134
 Kanenaka, B. K. 125
 Keefe, S. G. 60
 Kenworthy, W. J. 59
 Keppner, E. J. 66
 Kerby, J. H. 57
 Kilgen, R. H. 88
 Kimbrell, C. A. 104
 King, E. L., Jr 84
 Klawe, W. L. 109
 Klima, E. F. 93
 Klusmann, W. G. 95
 Koski, K. V. 141
 Kronse, J. S. 22
 Kubaryk, J. 3
 Kutkuhn, J. H. 84
 Kynard, B. E. 4
 LaLanne, J. J. 134
 Lambert, W. E. 102
 Landry, A. M., Jr 93
 Lange, A. M. T. 10
 Langton, R. W. 22
 Laroche, J. L. 81
 Lasker, R. 104
 Laurence, G. C. 19
 Laurs, R. M. 104
 Leet, W. S. 121
 Lenarz, W. H. 121
 Lester, W. C. 102
 Levi, E. J. 66
 Lewis, R. 10
 Lewis, R. M. 59
 Libby, D. A. 22
 Lipton, D. W. 37
 Liscom, K. L. 134
 Loesch, J. G. 54
 Long, C. W. 134
 Lopez, A. M. 71
 Loret, J. H. 30
 Low, L. 134
 Lund, W. A. 24
 Lux, F. E. 10
 MacGregor, J. S. 104
 Mackett, D. J. 104
 Mahnken, C. V. W. 134
 Major, R. L. 134
 Mann, W. C. 71
 Manooch, C. S., III 59
 Marak, R. R. 19
 Marquette, W. M. 134
 Mathisen, O. A. 136
 Matsumoto, W. M. 125
 Matthews, G. M. 134
 Maxwell, W. D. 123
 May, L. N., Jr 90
 Mayo, R. K. 10
 McAllister, R. D. 115
 McBride, J. 139
 McBride, M. M. 10
 McCaughran, D. A. 131
 McConnell, R. J. 138
 McCoy, E. G. 60
 McHugh, J. L. 31
 McIlwain, T. D. 81
 McNulty, J. K. 27
 Meehan, J. M. 37
 Merrell, T. R., Jr 141
 Merriner, J. V. 59
 Miller, G. C. 71
 Misitano, D. A. 134
 Monan, G. E. 134
 Moring, J. R. 21
 Moser, H. G. 104
 Muhlia, A. F. 109
 Murai, S. 134
 Murawski, S. A. 10
 Murchelano, R. A. 51
 Myhre, R. J. 131
 Nakamura, E. L. 66
 Nelson, M. O. 134
 Nelson, R. E., Jr 134
 Nelson, W. R. 82
 Nester, R. T. 84
 Nicholson, W. R. 59
 Niggol, K. 134
 Nishimoto, R. N. 104
 Nixon, D. E. 66
 Nunnallee, E. P., Jr 134
 Nyqvist, D. 97
 O'Connell, C. P. 104
 O'Connor, D. V. 84
 Odemar, M. W. 123
 Onizuka, D. R. 125
 Orange, C. J. 109
 Otsu, T. 125
 Overstreet, R. M. 81
 Owens, R. W. 84
 Pacheco, A. L. 27
 Palko, B. J. 71
 Paloma, P. A. 104
 Park, D. L. 134
 Parker, R. O., Jr 59
 Passino, D. R. M. 84
 Paul, A. J. 139
 Paust, B. C. 139
 Pearce, J. B. 27
 Pearcy, W. G. 129
 Pearson, R. E. 134
 Pella, J. J. 141
 Pellegrin, G. J., Jr 82
 Peltonen, G. J. 131
 Penttila, J. A. 10
 Peters, D. S. 59
 Peterson, C. L. 109
 Poe, T. P. 84
 Potter, D. C. 10
 Powell, A. B. 60
 Powers, J. E. 71
 Prentice, E. F. 134
 Prince, E. D. 71
 Pristas, P. J. 66
 Pullen, E. J. 52
 Purvis, C. E. 60
 Pycha, R. L. 84
 Quast, J. C. 141
 Radovich, J. 123
 Raymond, H. L. 134
 Reese, G. B. 82
 Reeves, J. E. 135
 Reintjes, J. W. 60
 Richards, W. J. 71
 Riggs, F. V. 125
 Rivas, L. R. 71
 Rodman, D. T. 135
 Roessler, M. A. 72
 Roithmayr, C. M. 82
 Ronholt, L. L. 135
 Rosenfield, A. 51
 Ross, M. R. 4
 Ross, S. W. 60
 Rothschild, B. J. 46
 Saila, S. B. 18
 Sakagawa, G. T. 104
 Samet, C. E. 27
 Sanders, N., Jr 82
 Schaaf, W. E. 60
 Schmitt, C. C. 131
 Scott, E. L. 71
 Sechler, R. S. 60
 Selgeby, J. H. 84
 Serchuk, F. M. 10
 Shippen, H. H. 135
 Sholar, T. M. 60
 Shomura, R. S. 125
 Silverman, M. J. 10
 Sindermann, C. J. 27
 Skud, B. E. 19
 Smigielski, A. S. 19
 Smith, E. J., Jr 123
 Smith, P. E. 104
 Smith, S. E. 121
 Smith, T. D. 104
 Smith, W. G. 27
 Smoker, W. A. 141
 Snyder, G. R. 135
 Sohn, J. J. 10
 Spitsbergen, D. L. 60
 Stanley, J. G. 21

Stauffer, G. D. 104
 Stedman, R. M. 84
 Stevenson, D. K. 21
 Stevenson, W. H. 37
 St-Pierre, G. 131
 Stand, J. A., III 139
 Street, M. W. 60
 Studholme, A. L. 27
 Stuehrenberg, L. C. 135
 Sullivan, L. F. 19
 Sutherland, D. F. 66
 Sutherland, D. L. 71
 Swan, G. A. 138
 Swedberg, D. V. 84
 Swerdlhoff, S. N. 125
 Swingle, H. A. 75
 Tashiru, J. E. 71
 Tasto, R. N. 117
 Tatum, W. M. 75
 Taylor, D. L. 60
 Theilacker, A. G. H. 104
 Theroux, R. B. 10
 Thompson, P. A., Jr 82
 Tolbert, W. H. 66
 Tomlinson, P. K. 109
 Townsend, D. W. 22
 Traynor, J. J. 135
 Trent, W. L. 66
 Trott, L. B. 37
 Uchida, R. N. 125
 Uchiyama, J. H. 125
 Wade, C. W. 75
 Wagner, M. B. 130
 Walters, C. K. 37
 Walton, C. J. 22
 Warlen, S. M. 60
 Watson, J. W. 82
 Watts, N. H. 82
 Weber, D. D. 138
 Weber, E. C. 104
 Weiler, D. 3
 Welch, W. R. 22
 Wells, L. 84
 Wespestad, V. G. 135
 Wheeler, C. L. 10
 Whipple, J. A. 121
 Wild, A. 109
 Wild, P. W. 116
 Wilkens, E. P. H. 93
 Williams, E. H. 3
 Williams, F. 70
 Williams, G. H. 131
 Wilson, J. R. 76
 Wise, J. P. 37
 Wojcik, F. J. 55
 Wolotira, R. J. J. 139
 Wood, P. W., Jr 10
 Workman, I. K. 82
 Yamamoto, M. N. 125
 Yoshida, H. O. 125
 Yuen, H. S. H. 125
 Zenger, H. H. 135
 Zuboy, J. R. 71

Taxonomy and Systematics

Adams, P. A. 112
 Alvarino, A. 103
 Bane, G. W. 58
 Barnard, J. L. 43
 Bohlke, J. E. 35
 Burk, C. J. 4
 Case, R. M. 120
 Chace, F. A., Jr 43
 Cohen, D. M. 44
 Cressey, R. F. 43
 Davis, G. M. 35
 Dawson, C. E. 81
 Deardorff, T. L. 81
 Dooley, J. K. 30
 Eldredge, L. G. 127
 Fahay, M. P. 26
 Firmage, D. H. 23
 Fleminger, A. 105
 Foerster, J. W. 50
 Forman, W. W. 88
 Foster, M. W. 87
 Giammona, C. P. 94
 Gore, R. H. 74
 Grable, A. E. 139
 Green, K. D. 113
 Hamer, S. T. 102
 Harden, D. G. 113
 Harris, L. H. 100
 Henry, D. P. 137
 Heron, G. A. 137
 Hessler, R. R. 106
 Hida, T. S. 125
 Higman, J. B. 69
 Hu, J. 101
 Jones, C. J. 113
 Kendall, D. R. 63
 Kornicker, L. S. 43
 Landrum, B. J. 44
 Lea, R. N. 115
 Lee, W. L. 119
 Lissner, A. L. 113
 Manning, R. B. 43
 Marquette, W. M. 134
 Menez, E. G. 44
 Middleton, A. L. 76
 Miller, G. C. 71
 Mueller, G. 140
 Nester, R. D. 76
 Newman, W. A. 107
 Rivas, L. R. 71
 Roest, A. L. 115
 Ruppert, E. E. 62
 Saloman, C. H. 66
 Shapiro, M. L. 76
 Sieburth, J. M. 18
 Smith-Vaniz, W. F. 35
 Stemberger, R. S. 85
 Theroux, R. B. 10
 Tran, L. N. 35
 Utter, F. M. 135
 Vari, R. P. 44

Voss, N. A. 70

Wagner, M. B. 130

Wilce, R. T. 4

Williams, A. B. 44

Zahuranec, B. J. 80

Phytoplankton

Ahmed, S. I. 136
 Alexander, V. 140
 Anderson, D. M. 11
 Anderson, G. C. 136
 Banse, K. 136
 Barber, R. T. 59
 Beeck, T. R. 76
 Bienfang, P. K. 124
 Blackwelder, P. L. 68
 Blasco, D. 22
 Booth, B. C. 136
 Brown, C. L. 84
 Brown, C. L. 23
 Carlson, D. J. 22
 Carpenter, E. J. 31
 Cassin, J. M. 30
 Chang, W. Y. B. 85
 Chisholm, S. W. 6
 Cooksey, K. E. 69
 Cummings, S. R., Jr 72
 Curl, H. C., Jr 135
 Davis, C. O. 121
 D'Elia, C. F. 45
 DeManche, M. 98
 Donaghay, P. L. 128
 Donnelly, P. J. 9
 Dragovich, A. 71
 Dugdale, R. C. 98
 Dunstan, W. M. 55
 Eldridge, J. C. 102
 Eldridge, P. M. 102
 Eppley, R. W. 105
 Farmer, F. H. 22
 Feldt, L. E. 85
 Fisher, T. 50
 Foerster, J. W. 50
 Fornshell, J. A. 44
 Frey, B. E. 128
 Gallagher, J. C. 28
 Gavis, J. 49
 Geiger, M. L. 77
 Gibson, R. A. 73
 Gilmartin, M. 21
 Glover, H. E. 22
 Goldman, J. L. 12
 Hamilton, D. H., Jr 42
 Hannan, P. J. 39
 Hardy, J. T. 138
 Hargraves, P. E. 17
 Hitchcock, G. L. 17
 Holm-Hansen, O. 106
 Iverson, R. L. 65
 Jones, B. H. 98
 Kamykowski, D. 57
 Keller, G. 118

Kelly, M. G. 53
 Kiefer, D. A. 98
 Kleppel, G. S. 101
 Knauer, G. A. 122
 Lapennas, P. P. 31
 Laws, E. A. 126
 Lin, K. 85
 Loeblich, L. A. 93
 Lorenzen, C. J. 137
 MacIsaac, J. J. 98
 Margolis, S. V. 127
 Marra, J. 29
 Marshall, H. G. 56
 McCarthy, J. J. 6
 McIntyre, A. 29
 Miller, S. M. 102
 Moll, R. A. 85
 Morris, I. 20
 Murphy, L. S. 22
 Nelson, D. M. 129
 Norris, D. R. 68
 Ogawa, R. E. 84
 Owen, R. W. 104
 Pequegnat, J. E. 123
 Perry, M. 137
 Phillips, C. R. 113
 Postel, J. R. 137
 Pruder, G. D. 36
 Reid, F. M. H. 107
 Revelante, N. 21
 Rice, T. R. 60
 Sager, P. E. 86
 Sanders, J. G. 46
 Seliger, H. H. 49
 Sellner, K. G. 35
 Showers, W. J. 127
 Sieburth, J. M. 18
 Small, L. F. 129
 Smayda, T. J. 18
 Specht, D. T. 129
 Stoermer, E. F. 85
 Sweeney, B. M. 114
 Swift, E. 18
 Taft, J. L. 49
 Tarapchak, S. J. 83
 Taylor, D. L. 50
 Taylor, W. R. 49
 Thomas, W. H. 108
 Tomas, C. R. 18
 Turner, R. E. 90
 Ukeles, R. 25
 Van Hemelryck, L. 92
 Vargo, G. A. 75
 Venrick, E. L. 108
 Whaley, R. C. 49
 Wheeler, P. A. 6
 Whitney, D. E. 63
 Williams, R. B. 42
 Withers, N. W. 127
 Wolf, E. G. 96
 Woodmansee, R. A. 81
 Yentsch, C. S. 22
 Yoder, J. A. 64

Zingmark, R. G. 61

Zooplankton

Alden, R. W., III 55
 Alldredge, A. L. 114
 Alvarino, A. 103
 Anderson, O. R. 29
 Beeton, A. M. 85
 Bell, L. M. 74
 Berner, L. D., Jr 94
 Bowers, J. A. 85
 Brinton, E. 105
 Brooks, A. L. 23
 Burrell, V. G., Jr 62
 Checkley, D. M., Jr 95
 Chess, J. R. 121
 Cohen, R. E. 9
 Collard, S. B. 66
 Cooney, R. T. 140
 Costlow, J. D. 59
 Cowles, T. J. 12
 Cox, J. L. 115
 Craudell, G. F. 123
 Cuzon Du Rest, R. P. 38
 Damkaer, D. M. 136
 Davidson, B. M. 102
 Dexter, B. L. 128
 Donaghay, P. L. 128
 Donaldson, H. A. 16
 Evans, M. S. 85
 Feigenbaum, D. L. 56
 Fleminger, A. 105
 Forward, R. B., Jr 59
 Frolander, H. F. 128
 Frost, B. W. 137
 Gibson, C. I. 138
 Glickman, P. N. 68
 Grant, G. C. 54
 Grice, G. D. 12
 Hammer, R. M. 74
 Haury, L. R. 106
 Hebard, J. F. 97
 Hecht, A. D. 42
 Heimbokel, J. F. 49
 Hirota, J. 126
 Hopkins, T. L. 75
 Howey, T. W. 102
 Hughes, K. H. 38
 Huntley, M. E. 109
 Johnson, M. W. 106
 Keller, G. 118
 Knauer, G. A. 122
 Kremer, P. M. 98
 Landry, M. R. 137
 Lee, D. W. 71
 Lee, W. Y. 95
 Lindstedt, D. M. 89
 Longwell, A. C. 25
 MacLean, S. A. 51
 Madin, L. P. 13
 Marcus, N. H. 13
 Marum, J. P. 28

Matthews, G. A. 93
 Maurer, R. O. 19
 McAlice, B. J. 22
 McGowan, J. A. 107
 Michel, H. B. 69
 Miller, C. B. 129
 Minello, T. J. 93
 Morris, T. L., Jr 10
 Mullin, M. M. 107
 Nyqvist, D. 97
 Ortner, P. B. 72
 Paffenhofer, G. H. 64
 Panzer, D. E. 102
 Park, E. T. 93
 Peterson, W. T. 31
 Pieper, R. E. 99
 Porter, K. G. 63
 Prell, W. L. 19
 Prezioso, J. 19
 Reeve, M. R. 69
 Richards, T. L. 115
 Robertson, A. 83
 Robertson, S. B. 103
 Robinson, R. D. 103
 Roman, M. R. 69
 Roulo, D. L. 77
 Ruber, E. 5
 Sage, L. E. 35
 Selgeby, J. H. 84
 Showers, W. J. 127
 Sibunka, J. D. 27
 Sieburth, J. M. 18
 Stemberger, R. S. 85
 Stepien, J. C. 30
 Stevens, E. G. 104
 Sullivan, B. K. 18
 Sullivan, S. M. 113
 Szyper, J. P. 124
 Turner, J. T. 16
 Vanderploeg, H. A. 83
 Vargo, S. L. 74
 Wendt, P. G. 103
 Wiebe, P. H. 15
 Williams, S. E. 41
 Wing, B. L. 141
 Wishner, K. F. 18
 Wormuth, J. H. 95
 Youngbluth, M. J. 73

CHEMISTRY/MARINE CHEMISTRY

Biochemistry

Ahmed, S. I. 136
 Arrhenius, G. O. 109
 Attaway, D. H. 48
 Bauersfeld, P. E., Jr 62
 Benson, A. A. 105
 Bolton, E. T. 36
 Bonaventura, C. J. 59
 Bonaventura, J. 59
 Brown, J. W. 72

Brown, W. D. 123
Buckley, L. J. 18
Carlson, D. J. 22
Cole, T. J. 50
Conner, J. W. 64
Cooksey, K. E. 69
Corcoran, E. F. 69
Cox, J. L. 115
Fink, T. 122
Fischer, J. 124
Flick, G. J., Jr 56
Folmar, L. C. 129
Fox, D. L. 106
Goldberg, A. S. 32
Goldberg, W. M. 73
Gould, E. 25
Gruger, E. H., Jr 133
Hawke, J. P. 75
Higerd, T. B. 62
Hitron, J. W. 74
Hooper, I. R. 59
Joseph, J. D. 62
Kiefer, D. A. 98
Lee, R. F. 64
Lee, S. 64
Linder, E. 111
Luer, C. A. 74
Manen, C. 140
Mathemeier, P. F. 89
Neary, J. T. 9
Neff, J. M. 8
Neve, R. A. 140
Nevenzel, J. C. 107
O'Loughlin, J. T. 9
Packard, T. T. 22
Park, P. K. 47
Patton, J. S. 63
Pelroy, G. A. 134
Reichert, W. L. 135
Ross, M. R. 98
Roubal, W. T. 135
Sabo, D. J. 8
Shleser, R. A. 124
Shoukimas, J. J. 9
Sick, L. V. 62
Somer, G. N. 107
Spinelli, J. 135
Stegeman, J. J. 15
Straty, R. R. 141
Szuts, E. Z. 9
Talbot, C. F. 108
Taylor, B. F. 70
Telander, D. H. 62
Thoroughgood, C. A. 36
Traganza, E. D. 116
Tsuji, F. I. 108
Varanasi, U. 135
White, D. C. 64
Wolfe, D. A. 97
Yentsch, C. S. 22

Geochemistry

Adams, D. D. 83
Aller, R. C. 87
Andren, A. W. 86
Angino, E. E. 88
Armstrong, D. E. 86
Atwood, D. K. 72
Bacastow, R. B. 105
Barcelona, M. J. 87
Barnes, R. O. 137
Barnes, S. S. 95
Barrick, R. C. 136
Barsdate, R. J. 140
Bender, M. L. 17
Bennett, J. T. 25
Berberian, G. A. 72
Betzer, P. R. 74
Biggs, R. B. 35
Biscaye, P. E. 29
Bischoff, J. L. 117
Bishop, J. K. B. 29
Bothner, M. H. 10
Bowser, C. J. 86
Boyle, E. A. 6
Brass, G. W. 70
Broecker, W. S. 29
Brooks, J. M. 94
Bruland, K. W. 122
Burns, R. G. 6
Burrell, D. C. 140
Carlson, R. W. 36
Carpenter, R. 136
Chave, K. E. 126
Chow, T. J. 105
Chung, Y. 105
Church, T. M. 35
Cimato, J. M. 38
Clark, R. C., Jr 133
Cline, J. D. 131
Cochran, J. K. 12
Codispoti, L. A. 22
Corliss, J. B. 128
Crevelius, E. A. 138
Crerar, D. A. 27
Darzi, M. 65
Deck, B. L. 29
Deuser, W. G. 12
Duce, R. A. 17
Duedall, I. W. 31
Dymond, J. R. 128
Eastin, R. 32
Eaton, A. D. 101
Edmond, J. M. 6
Emerick, C. M. 128
Estes, E. L. 93
Fanning, K. A. 75
Ferek, R. J. 65
Fiadeiro, M. E. 25
Finkel, R. C. 105
Fisher, D. E. 70
Fitzgerald, W. F. 24
Flegal, A. R. 122

Froelich, P. N. 65
Gagosian, R. B. 12
Garrels, R. M. 75
Gearing, J. N. 17
Gearing, P. J. 17
Gieskes, J. M. 106
Goldberg, E. D. 106
Gordon, L. I. 128
Graham, W. F. 48
Green, E. J. 80
Greenslate, J. L. 110
Gross, M. G. 42
Hammond, D. E. 98
Heath, G. R. 128
Heaton, M. G. 113
Hecht, A. D. 42
Hedges, J. I. 137
Hiltabrand, R. R. 24
Hirschberg, D. J. 31
Hoffman, S. E. 128
Hopkinson, C. S. 63
Ito, E. 36
Jennings, J. C., Jr 128
Kan, D. L. 8
Kastner, M. 106
Katz, B. J. 92
Keir, R. S. 13
Kendall, D. R. 63
Khalid, R. A. 89
Killingley, J. S. 106
Klinkhammer, G. P. 17
Klump, J. V. 86
Koons, C. B. 91
Kritz, M. A. 35
Krom, M. D. 25
Kroopnick, P. M. 126
Ku, T. 98
Kvenvolden, K. A. 118
Lamontagne, R. A. 40
Lawrence, J. R. 29
Lefcourt, P. 67
Leone, G. M. 77
Lepple, F. K. 40
Lerman, A. 87
Li, Y. 29
Linick, T. W. 109
Liu, K. 102
Loren, R. B. 77
Lugmair, G. W. 106
Lupton, J. E. 106
Lyons, W. B. 20
Lytle, J. 81
Lytle, T. F. 81
Mackenzie, F. T. 87
Manheim, F. T. 11
Margolis, S. V. 127
Martens, C. S. 57
Martin, J. H. 122
Masters, P. M. 109
Matisoff, G. 83
Mayer, L. M. 22
McCaffrey, R. J. 17
McMurtry, G. M. 126

Measures, C. I. 7
 Michel, R. L. 107
 Mielke, J. E. 41
 Montgomery, J. R. 73
 Moore, W. S. 61
 Morgan, C. L. 110
 Morse, J. W. 69
 Mottl, M. J. 14
 Murray, J. W. 137
 Naidu, S. A. 140
 Nixon, S. W. 17
 Noakes, J. E. 63
 Norton, S. A. 21
 Owen, R. M. 85
 Parker, P. L. 95
 Peltzer, E. T. 14
 Peng, T. 29
 Peterson, M. L. 137
 Phillips, C. R. 113
 Pilson, M. E. Q. 17
 Piper, D. Z. 118
 Presley, B. J. 94
 Rabb, L. C. 92
 Rapp, J. B. 118
 Reeburgh, W. S. 140
 Rison, W. 107
 Rossmann, R. 85
 Rule, J. H. 56
 Sackett, W. M. 75
 Santschi, P. H. 30
 Savin, S. M. 83
 Schink, D. R. 94
 Schultz, D. M. 11
 Scott, M. R. 94
 Selk, B. W. 110
 Shaw, D. G. 140
 Shou, P. M. 55
 Simpson, H. J., Jr 30
 Spencer, D. W. 14
 Stanford, H. M. 32
 Stern, R. J. 36
 Stoessell, R. K. 89
 Takahashi, T. 30
 Thompson, G. 15
 Trefry, J. H. 68
 Turekian, K. K. 25
 Uematsu, M. 18
 Unni, C. K. 18
 Van Valin, R. 92
 Wade, T. L. 56
 Wakeham, S. G. 15
 Wallace, G. T. 64
 Waslenchuk, D. G. 24
 Weiss, R. F. 108
 Wiesenburg, D. A. 95
 Willey, J. D. 58
 Williams, D. F. 61
 Willis, R. D. 108
 Winchester, J. W. 65
 Windom, H. L. 64
 Woo, C. 11
 Wood, E. D. 88
 Yeh, H. C. 126

Yuretich, R. F. 4
 Zsolnay, A. 80

Physical Chemistry

Atkinson, G. 90
 Baier, R. W. 42
 Brown, M. F. 17
 Butler, J. N. 6
 Byrne, R. H. 75
 Cheek, C. H. 39
 Chen, C. A. 128
 Culberson, C. H. 35
 Fye, P. M. 12
 Garrett, W. D. 39
 Griffin, L. L. 93
 Hanson, P. J. 59
 Hunter, C. J. 133
 Johnson, K. S. 115
 Jones, E. N. 24
 Keeling, C. D. 106
 Loeb, G. I. 40
 LoSurdo, A. 69
 MacIntyre, F. 17
 McDuff, R. E. 7
 Millero, F. J. 69
 Miziolek, A. W. 107
 Morgan, J. J. 102
 Mukherji, P. 17
 Murray, J. W. 137
 O'Connor, T. P. 47
 Pytkowicz, R. M. 129
 Rinkel, M. O. 74
 Robertson, E. A. 76
 Siegel, A. 32
 Smith, W. D. 40
 Sunda, W. G. 60
 Thompson, C. M. 67
 Walker, S. C. 103
 Warner, T. B. 40
 Wood, R. H. 35
 Yamamoto, S. 111
 Zafirliou, O. C. 16
 Zuehlke, R. W. 18

Organic Chemistry

Andren, A. W. 86
 Attaway, D. H. 48
 Bell, C. E., Jr 55
 Bentley, M. D. 21
 Blaylock, J. W. 138
 Carlson, D. J. 22
 Castle, J. E. 36
 Corbett, M. D. 69
 Eadie, B. J. 83
 Farrington, J. W. 12
 Frincke, J. M. 106
 Goldberg, A. S. 32
 Harvey, G. R. 72
 Hedges, J. I. 137
 Henrichs, S. M. 106
 Higashi, G. R. 125

Hoffman, E. J. 17
 Jeffrey, L. M. 94
 Knobl, G. M., Jr 37
 Lee, C. 13
 Lefcourt, P. 67
 Lytle, J. 81
 Lytle, T. F. 81
 MacLead, W. D., Jr 134
 Mac Michael, J. 84
 Mann, W. C. 71
 Meyers, P. A. 85
 Mopper, K. 36
 Newman, W. A. 107
 Newton, F. C., III 102
 Patton, J. W. 96
 Quinn, J. G. 18
 Rainey, G. B. 88
 Randall, R. C. 129
 Robertson, E. A. 76
 Schlegelmilch, R. O. 45
 Sharp, J. H. 36
 Shepard, R. A. 5
 Shuman, J. N. 48
 Sieburth, J. M. 18
 Simoneit, B. R. T. 99
 Steinhauer, W. G. 113
 Stephens, G. C. 113
 Stout, V. F. 135
 Van Vleet, E. S. 75
 Wade, R. H. 111
 Wade, T. L. 56
 Whelan, J. K. 15
 Williams, P. M. 108
 Zika, R. G. 70

Inorganic Chemistry

Abel, K. H. 139
 Andersen, N. R. 42
 Andrae, M. O. 65
 Bowser, C. J. 86
 Bressan, D. J. 39
 Brewer, P. G. 12
 Chambers, K. C. 84
 Feely, R. A. 131
 Hall, A. S. 133
 Kelley, J. J. 140
 Kenworthy, W. J. 59
 LaFond, K. G. 110
 Lefcourt, P. 67
 Morgan, J. J. 102
 Rabb, L. C. 92
 Ropes, J. W. 10
 Rossmann, R. 85
 Schwartz, F. J. 61
 Scranton, M. I. 31
 Stanford, H. M. 32
 Weber, J. H. 20

Analytical Chemistry

Anderegg, R. J. 21
 Andersen, N. R. 42

Andren, A. W. 86
Bankston, D. C. 11
Barger, W. R. 39
Bates, T. S. 131
Betzner, P. R. 74
Bidleman, T. F. 61
Bieri, R. H. 54
Brown, D. W. 133
Brown, M. L. 88
Chan, K. 101
Chow, T. J. 105
Costello, H. J. 23
Crane, R. D. 23
Cronin, W. B. 49
Donat, J. R. 113
Flandorfer, M. C. 81
Foerster, J. W. 50
Fortner, A. R. 62
Frew, N. M. 12
Garside, C. 22
Gast, J. A. 123
Gilbert, T. R. 5
Grant, C. L. 20
Greig, R. A. 25
Healy, M. L. 137
Henry, V. D. 133
Herr, F. L. 39
Hesselberg, R. J. 84
Hirsch, N. D. 121
Huber, C. O. 86
Hulbert, M. H. 23
Hunt, C. D. 17
Jadamec, J. R. 24
Jones, E. N. 24
Jones, M. M. 40
Kakareka, J. P. 5
Katz, C. N. 131
Kendall, D. R. 63
Lane, J. S. 38
Lefcourt, P. 67
Lindsay, S. A. 141
Loder, T. C., III 20
LoSurdo, A. 69
Lytle, J. 81
Lytle, T. F. 81
Martin, E. A. 95
Mathews, T. D. 62
Matte, A. 26
Means, J. C. 46
New, L. L. 124
Nortrup, D. A. 84
Oglesby, D. M. 56
Pellenbarg, R. E. 40
Pelroy, G. A. 134
Petersen, M. R. 139
Peterson, M. L. 137
Pierce, R. H., Jr 68
Piotrowicz, S. R. 72
Portier, R. J. 90
Prohaska, P. G. 134
Rabb, L. C. 92
Randall, R. C. 129
Richards, F. A. 137

Robertson, E. A. 76
Rossmann, R. 85
Sanders, M. 62
Sands, M. D. 113
Seitz, W. R. 20
Simoneit, B. R. T. 99
Spinelli, J. 135
Stephens, G. C. 113
Telander, D. H. 62
Wade, T. L. 56
Waldhauer, R. 27
Wiersma, J. H. 87
Willford, W. A. 84
Willis, J. N. 60
Zika, R. G. 70

Radiochemistry

Bacon, M. P. 11
Beasley, T. M. 128
Bowen, V. T. 11
Bressan, D. J. 39
Burnett, W. C. 65
Butler, J. H. 123
Chung, Y. 105
DeMaster, D. J. 57
Dyer, R. S. 41
Edgington, D. N. 86
Folsom, T. R. 105
Geelhood, B. D. 111
Hess, C. T. 21
Johnson, J. W. 94
Lal, D. 109
Livingston, H. D. 13
Mann, D. R. 13
Murray, S. 22
Ostlund, H. G. 69
Parker, P. L. 95
Reid, D. F. 80
Robbin, D. M. 68
Schneider, D. L. 14
Silker, W. B. 139
Smethie, W. M., Jr 30
Weiss, H. V. 111

Natural Products

Agarwal, S. K. 90
Attaway, D. H. 48
Austin, P. R. 35
Ciereszko, L. S., Sr 90
Fallon, W. E. 139
Fenical, W. H. 105
Frincke, J. M. 106
Goldberg, A. S. 32
Hartman, M. C. 74
Howard, B. M. 120
Ikawa, M. 20
Knobl, G. M., Jr 37
Lakshmi, V. 90
McConnell, O. J. 64
Nakatsu, T. 107
Peterson, M. L. 137

Purvis, C. E. 60
Russell, D. J. 136
Schmitz, F. J. 90
Smith, W. L. 32
Targett, N. M. 64
Wekell, J. C. 135
Yalamanchili, G. 90

PHYSICS/PHYSICAL OCEANOGRAPHY

Theoretical Dynamics & GFD

Allen, J. S. 128
Apel, J. R. 46
Blake, D. W. 79
Bretherton, F. P. 97
Bryan, K. 27
Burnett, K. R. 55
Cane, M. A. 7
Chisholm, M. A. 119
Clarke, A. J. 136
Criminale, W. O. 136
Cushman-Roisin, B. 65
Davis, R. E. 105
Flierl, G. R. 7
Garwood, R. W. 116
Gent, P. R. 97
Gibson, C. H. 104
Hall, R. E. 25
Holland, W. R. 97
Holloway, G. 137
Ianniello, J. P. 23
Ichiye, T. 94
Janowitz, G. S. 57
Kitaigorodskii, S. 49
Kundu, P. K. 68
Lambert, R. B., Jr 53
Lange, R. E. 106
List, E. J. 102
Lucas, R. D. 130
McCreary, J. P. 68
McGoldrick, L. F. 42
McIver, D. B. 91
McWilliams, J. C. 97
Mied, R. P. 40
Miles, J. W. 108
Millet, K. M. 86
Mollo-Christensen, E. 7
Muller, P. K. 6
Philander, S. G. H. 27
Rao, D. B. 46
Rattray, M., Jr 137
Reid, R. O. 94
Robert, G. O. 53
Roed, L. P. 65
Rothstein, L. M. 127
Salmon, R. 108
Sarachik, E. S. 6
Schwab, D. J. 83
Scully-Power, P. D. 24
Smith, R. B. 25
Solomon, L. P. 80

Spence, T. W. 95
 Stern, M. E. 18
 Stewart, R. J. 131
 Szabo, D. 65
 Thompson, J. D., Jr 80
 Weissman, M. A. 130
 Whitehead, J. A., Jr 15

Thermodynamics and Properties

Bodie, J. G. 116
 Connors, D. N. 16
 Dennis, R. E. 38
 Gieskes, J. M. 106
 Gregg, M. C. 132
 Hamilton, G. D. 78
 Houghton, R. W. 29
 Jacobs, S. S. 29
 Keen, D. J. 79
 Lange, R. E. 106
 LoSurdo, A. 69
 McKindra, C. D. 45
 Millero, F. J. 69
 Pollak, K. D. 116
 Robinson, M. R. 110
 Schmitt, R. W. 14
 Schramm, W. G. 117
 Temple, P. R. 130
 Williams, R. G. 38

Modeling

Allender, J. H. 78
 Aubert, E. J. 83
 Bacon, J. C. 28
 Bales, S. M. L. 45
 Barrientos, C. S. 49
 Basco, D. R. 94
 Beckers, C. V., Jr 16
 Bennett, J. R. 83
 Blair, C. H. 55
 Bowen, L. E. 66
 Brucks, J. T. 78
 Busalacchi, A. J. 65
 Camerlengo, A. L. 65
 Chamberlain, S. G. 17
 Chao, S. 68
 Chen, J. 49
 Chesnutt, C. B. 51
 Clancy, R. M. 79
 Countryman, K. A. 77
 Cox, M. D. 27
 Criswell, D. R. 105
 Cundy, D. F. 24
 Czapinski, R. E. 25
 Diamante, J. M. 47
 Dickey, T. D. 98
 Fiadeiro, M. E. 25
 Foo, E. 65
 Frankignoul, C. J. 7
 Gallucci, V. F. 136
 Galt, J. A. 135
 Garvine, R. W. 35

Green, A. W. 79
 Haidvogel, D. B. 13
 Hamilton, P. 57
 Haney, R. L. 116
 Haustein, J. R. 90
 Hebenstreit, G. T. 52
 Heburn, G. W. 77
 Hess, K. W. 49
 Hoopes, J. A. 119
 Hsueh, Y. 65
 Huang, J. C. 17
 Hubertz, J. M. 52
 Hurlburt, H. E. 79
 Hyer, P. V. 54
 Jelesnianski, C. P. 49
 Kenworthy, W. J. 59
 Kollmeyer, R. C. 23
 Kuo, A. Y. 54
 Kuo, C. Y. 56
 Kuo, J. T. 28
 Lavelle, J. W. 131
 Lehman, R. L. 37
 Levine, M. D. 128
 Li, H. 79
 Losee, J. R. 111
 Lynch, D. R. 19
 Maresca, J. W., Jr 117
 McConnell, S. O. 132
 Miller, R. N. 6
 Mooney, K. A. 44
 Mumme, K. I. 21
 Newton, F. C., III 102
 O'Brien, J. J. 65
 Pacanowski, R. C. 27
 Parker, C. A. 32
 Paskausky, D. F. 24
 Peffley, M. B. 80
 Piacsek, S. A. 80
 Pollard, D. 127
 Preisendorfer, R. W. 131
 Reed, J. C. 44
 Rhines, P. B. 14
 Robinson, A. R. 6
 Salmon, R. 108
 Sarmiento, J. L. 27
 Schopf, P. S. 46
 Seftor, J. L. 53
 Semtner, A. J. 97
 Seymour, R. J. 107
 Smith, C. W. 21
 Smith, D. C., IV 65
 Solomon, L. P. 80
 Spaulding, M. L. 18
 Swanson, J. C. 19
 Thompson, J. D., Jr 80
 Tsahalidis, D. T. 91
 Uram, E. M. 73
 Welander, P. L. R. S. 137
 Whitehead, J. A., Jr 15
 Winter, D. F. 137
 Yuen, A. F. H. 102

Currents and Circulation

Aggaard, K. 136
 Adams, C. E., Jr 89
 Allen, A. A. 9
 Amos, A. F. 95
 Arthur, R. S. 105
 Atkinson, L. P. 64
 Bacon, J. C. 28
 Baker, D. J., Jr 136
 Baker, T. N. 29
 Bane, J. M. 57
 Bargeski, A. M. 38
 Barnes, C. A. 136
 Barrientos, C. S. 49
 Bathen, K. H. 126
 Behringer, D. W. 72
 Benson, N. G. 89
 Bergin, J. M. 39
 Bernstein, R. L. 105
 Bisagni, J. J. 18
 Bishop, J. M. 37
 Blaha, J. P. 131
 Blanton, J. O. 64
 Bliss, K. A. 103
 Boicourt, W. C. 49
 Bowman, M. J. 31
 Brooks, D. A. 94
 Brown, W. S. 20
 Brucks, J. T. 78
 Bryden, H. L. 12
 Butman, B. 10
 Callaway, R. J. 127
 Cannon, G. A. 131
 Carter, H. H. 31
 Chase, R. R. P. 42
 Chelton, D. B., Jr 102
 Chew, F. 72
 Chuang, W. 89
 Clemente-Colon, P. 45
 Coachman, L. K. 136
 Cochran, J. D. 94
 Coddington, K. 23
 Collins, C. A. 42
 Cox, J. L. 115
 Curtin, T. B. 57
 Cutchin, D. L. 105
 Czapinski, R. E. 25
 Dalrymple, R. A. 35
 deSzoeke, R. A. 128
 Doblar, R. A. 77
 Duncan, P. 121
 Duxbury, A. C. 136
 Evans, R. H. 103
 Everdale, F. G. 38
 Fausak, L. E. 99
 Fecher, M. P. 23
 Festa, J. F. 72
 Findikakis, A. N. 119
 Fine, R. A. 69
 Firing, E. 126
 Fleming, R. J. 48
 Fofonoff, N. P. 12

- Folsom, T. R. 105
Fornshell, J. A. 44
Frey, H. R. 47
Frydenlund, D. D. 120
Gehring, H. B. 44
Georgi, D. T. 12
Gerard, R. D. 29
Goldman, G. C. 63
Gordon, C. M. 39
Grant, W. D. 12
Greisman, P. 24
Gunn, J. T. 130
Gust, G. R. 75
Halliwell, G. R., Jr 128
Hallock, Z. R. 77
Halpern, D. 131
Han, G. C. 72
Hansen, D. V. 72
Hanson, W. E. 44
Harrison, D. E. 7
Hayes, S. P. 131
Hecker, G. M. 56
Hecker, S. 81
Hendricks, T. J. 100
Hernandez-Avila, M. L. 3
Hickey, B. M. 137
Higashi, G. R. 125
Hill, R. H. 40
Hogg, N. G. 13
Holbrook, J. R. 131
Hollister, C. D. 13
Hollman, R. 79
Hoopes, J. A. 119
Houghton, R. W. 29
Huber, B. A. 29
Hughes, F. W. 136
Hunkins, K. L. 29
Husby, D. M. 116
Huyer, A. 128
Ingraham, W. J., Jr 133
Johnson, D. R. 56
Johnson, R. E. 56
Johnson, R. G. 120
Karpen, J. 57
Katz, B. S. 26
Katz, E. J. 29
Kelly, F. J., Jr 94
Kenyon, K. E. 106
Ketchen, H. G. 23
Kinder, T. H. 79
Kjerfve, B. 61
Klinck, J. M., II 65
Knauss, J. A. 17
Knox, R. A. 108
Koblinsky, C. J. 106
Kopinski, R. P. 135
Korgen, B. J. 77
Kuo, J. T. 28
LaFond, E. C. 110
LaViolette, P. E. 79
Leetmaa, A. 72
Lewis, J. K. 93
Lissauer, I. M. 24
Lovorn, F. T. 110
Lynn, R. J. 104
Mann, W. C. 71
Mantyla, A. W. 106
Maresca, J. W., Jr 117
Marmorino, G. O. 65
Maul, G. A. 72
Mazeike, P. A. 79
McCartney, M. S. 13
McKenzie, J. H. 132
McLellan, H. J. 48
Miller, G. S. 83
Molinari, R. L. 72
Molinelli, E. J. 53
Moore, C. N. K. 116
Morrison, J. M. 94
Mountain, D. G. 44
Muench, R. D. 130
Murphy, D. L. 24
Murray, J. J. 44
Murray, S. P. 89
Musialowski, F. R. 11
Nebert, D. L. 140
Needell, G. J. 14
Nelson, C. S. 116
Newman, F. C. 53
Newton, J. L. 103
Niebauer, H. J. 140
Niedoroda, A. W. 92
Niiler, P. P. 129
Nowlin, W. D., Jr 94
Olson, D. B. 69
Orr, M. H. 14
Osmer, S. R. 24
Ou, H. W. 29
Overstreet, R. 97
Pacanowski, R. C. 27
Pade, B. H. 14
Palfrey, K. M., Jr 44
Paquette, R. G. 116
Parker, C. E. 22
Patterson, S. L. 53
Patzert, W. C. 107
Paul, C. A. 72
Peters, D. J. H. 90
Pietrafesa, L. J. 57
Pillsbury, R. D. 129
Platz, B. W., Jr 23
Plunkett, R. D. 110
Plutchak, N. B. 113
Price, J. M. 127
Pritchard, D. W. 31
Pullen, P. E. 131
Ragotzkie, R. A. 86
Ramp, S. R. 10
Rattray, M., Jr 137
Reed, J. C. 44
Reed, R. K. 131
Regier, L. A. 107
Reid, J. L. 107
Richardson, P. L. 14
Richman, J. G. 129
Ridley, E. L. 38
Rinkel, M. O. 74
Robertson, E. A. 76
Robinson, A. R. 6
Roden, G. I. 137
Rooth, C. G. H. 69
Ropes, J. W. 10
Rosenberg, D. H. 139
Rossby, H. T. 18
Royer, T. C. 140
Ruzecki, E. P. 55
Salmon, R. 108
Sanford, T. B. 132
Saunders, K. D. 80
Saur, J. F. T. 107
Saylor, J. H. 83
Schlemmer, F. C., II 93
Schlitz, R. J. 10
Schmitz, J. E. 94
Schmitz, W. J., Jr 14
Schott, F. A. 69
Schwartz, F. J. 61
Scully-Power, P. D. 24
Seckel, G. R. 116
Shay, L. K. 77
Shuh, J. L. 44
Smith, R. L. 129
Sobey, E. J. C. 96
Stalcup, M. C. 15
Stanley, E. M. 80
Starr, R. B. 72
Stevenson, M. R. 97
Stommel, H. M. 15
Straty, R. R. 141
Stroup, E. D. 127
Stumpf, H. G. 45
Sturges, W., III 65
Summy, A. D. 44
Swanson, R. L. 47
Swenson, E. M. 90
Swift, J. H. 108
Syck, J. M. 24
Taft, B. A. 137
Tamul, J. J. 78
Teague, W. J. 78
Tebeau, P. A. 24
Tolmazin, D. 24
Trump, C. L. 40
Tsahalidis, D. T. 91
Tsuchiya, M. 108
Van Leer, J. C. 70
Waddell, E. 57
Walsh, D. 99
Warren, B. A. 15
Watts, D. R. 18
Weatherly, G. L. 65
Webster, F. 47
Weisberg, R. H. 57
Welch, C. S. 55
Whaley, R. C. 49
White, W. B. 108
Whitworth, T. 95
Wickham, J. B. 117
Willems, R. C. 7

Wilson, R. E. 31
 Wilson, W. S. 42
 Wimbush, M. 18
 Winant, C. D. 108
 Wiseman, W. J., Jr 89
 Wolff, M. 31
 Wolford, T. C. 44
 Woodroffe, D. S. 30
 Worley, S. J. 95
 Wright, W. R. 10
 Wunsch, C. I. 7
 Wyrтки, K. 127
 Yeske, L. A. 117
 Yuen, A. F. H. 102

Tides and Waves

Amein, M. 57
 Baer, L. 47
 Barbee, W. D. 47
 Barnett, T. P. 109
 Bolen, Z. K. 90
 Breeding, J. E., Jr 67
 Bretschneider, C. L. 126
 Briscoe, M. G. 12
 Carmel, Z. 105
 Cokelet, E. D. 131
 Collins, J. I. 101
 Cox, C. S. 105
 Czapinski, R. E. 25
 Delisi, D. P. 130
 Dello Stritto, F. J. 90
 Desaubies, Y. J. F. 12
 Dooley, A. W. 120
 Dubach, H. W. 58
 Durham, D. L. 79
 Elliot, J. O. 39
 Eriksen, C. C. 6
 Filloux, J. H. 105
 Flick, R. E. 105
 Forristall, G. Z. 91
 Fritts, D. C. 130
 Fu, L. 102
 Glenn, A. H. 88
 Gonzalez, F. I. 131
 Goodrich, D. M. 31
 Green, T. 86
 Guza, R. T. 106
 Hachmeister, L. E. 130
 Hadsell, P. R. 38
 Harris, D. L. 67
 Hatheway, D. J. 92
 Hawke, J. P. 75
 Hayes, J. G. 5
 Holman, R. A. 128
 Howard, W. W. 66
 Hunter, W. P. 56
 Irish, J. D. 20
 Jackson, F. C. 46
 Johnson, C. L. 130
 Kang, Y. Q. 126
 Katz, B. S. 26
 Kaye, G. T. 112

Knowles, C. E. 57
 Koblinsky, C. J. 106
 Kuo, J. T. 28
 Larsen, L. H. 137
 Lazanoff, S. M. 116
 Leaman, K. D. 69
 Lee, O. S. 112
 Le Mehaute, B. J. 70
 Levine, M. D. 128
 Liu, P. C. 83
 Long, R. B. 72
 Lozarro, C. J. 35
 Magaard, L. C. 127
 Maresca, J. W., Jr 117
 Mason, C. 52
 May, P. W. 79
 McConnell, S. O. 132
 McLeish, W. L. 72
 McTamany, J. E. 52
 Meadows, G. A. 85
 Melville, W. K. 108
 Miller, H. C. 52
 Mofjeld, H. O. 131
 Muller, P. K. 6
 Neve, R. A. 140
 Niedoroda, A. W. 92
 Parke, M. E. 102
 Patterson, D. R. 101
 Perkins, H. T. 80
 Peters, D. J. H. 90
 Preisendorfer, R. W. 131
 Raichlen, F. 102
 Rauw, C. I. 100
 Reed, J. C. 44
 Robertson, E. A. 76
 Rudd, E. E. 40
 Salsman, G. G. 66
 Savage, R. P. 52
 Sherwood, W. G. 42
 Short, K. S. 132
 Smith, J. A. 7
 Spaeth, M. G. 49
 Spielvogel, L. Q. 131
 Spring, W. 90
 Stacy, R. A. 90
 Steele, K. E. 78
 Stewart, R. H. 109
 Su, M. 80
 Tait, R. J. 113
 Thompson, E. F. 52
 Thompson, W. C. 116
 Thornton, E. B. 116
 Tsahalidis, D. T. 91
 van de Kreeke, J. 70
 Van Dorn, W. G. 108
 Vincent, C. L. 52
 Ward, E. G. 91
 Wunsch, C. I. 7
 Yuen, A. F. H. 102
 Zetler, B. D. 109

Ice

Ackley, S. F. 20
 Bacon, J. C. 28
 Barnett, D. G. 41
 Bindschadler, R. A. 46
 Bolsenga, S. J. 83
 Carsey, F. D. 46
 Cavalieri, D. J. 46
 Comiso, J. C. 46
 Cox, G. F. N. 20
 Dubach, H. W. 58
 Gloersen, P. 46
 Godin, R. H. 41
 Hibler, W. D., III 20
 Ketchum, R. D., Jr 79
 Kovacs, A. 20
 Lasca, N. P. 86
 Lohanick, A. W. 79
 Luallin, T. A. 111
 MacDowell, G. P. 41
 Maresca, J. W., Jr 117
 Martin, S. 137
 McClelland, J. J., Jr 23
 McKindra, C. D. 45
 Neshyba, S. 129
 Parkinson, C. L. 46
 Pease, C. H. 131
 Peters, D. J. H. 90
 Robe, R. Q. 24
 Spring, W. 90
 Tucker, W. B., III 20
 Welsh, J. P. 80
 Wolford, T. C. 44
 Yotko, H. J. 45
 Zwally, H. J. 46

Acoustics

Adams, B. B. 39
 Anderson, A. L. 78
 Anderson, V. C. 105
 Atkinson, G. 90
 Au, W. W. L. 123
 Barter, F. W., II 76
 Baxter, L., II 11
 Bear, R. N. 39
 Beebe, J. H. 34
 Berkman, E. F. 7
 Berman, A. 39
 Bezdek, H. F. 72
 Blizard, M. A. 80
 Blumen, L. S. 52
 Bradley, M. R. 88
 Browning, D. G. 23
 Brunton, B. A. 79
 Bryan, G. M. 29
 Bucker, H. P. 112
 Castile, B. D. 112
 Cater, J. E. 110
 Chaika, E. D. 79
 Christensen, R. E. 77
 Clark, T. F. 56

Clay, C. S. 86
 Cummings, W. C. 105
 Cybulski, J. 39
 Czarnecki, M. F. 73
 Davidson, J. B. 73
 Davis, J. A. 79
 Del Balzo, D. R. 39
 Del Grosso, V. A. 39
 Diachok, O. I. 39
 Dicus, R. L. 39
 Douth, J. A. 12
 Evans, K. E. 79
 Ewing, S. R. 77
 Farwell, R. W. 34
 Feldman, H. R. 132
 Finerty, M. J., Jr 77
 Fisher, F. H. 105
 Flatte, S. M. 122
 Fleming, H. S. 39
 Floyd, R. W. 124
 Franchi, E. R. 39
 Frisk, G. V. 12
 Galus, A. J. 79
 Gardner, R. R. 79
 Geddes, W. H. 77
 Goodman, R. R. 79
 Gorman, J. M. 23
 Hartwell, A. D. 19
 Heinc, J. C. 7
 Henriquez, T. A. 67
 Holland, J. P. 34
 Hugus, G. D. 67
 Ivey, L. E. 67
 Jackson, D. R. 132
 Jackson, F. J. 8
 Jobst, W. J. 77
 Johnson, C. S. 111
 Kamminga, W. 77
 Kerwin, E. M., Jr 8
 Kinney, W. A. 79
 Kohler, W. E. 56
 LaLumiere, L. P., Jr 40
 Lepor, M. 111
 Levenson, C. 79
 Lord, G. E. 132
 Love, R. H. 79
 Lovett, J. R. 112
 Lowenstein, C. D. 109
 Luker, L. D. 67
 Ma, A. K. 110
 Mackenzie, K. V. 111
 Malay, J. T. 24
 Marciniak, R. D. 34
 Marshall, S. W. 79
 Martin, D. W. 124
 Martin, R. L. 79
 McConnell, S. O. 132
 McDaniel, S. T. 34
 McElroy, P. T. 8
 McGrath, J. R. 40
 McKisic, J. M. 53
 Medwin, H. 116
 Merrifield, R. 77

Miller, J. C. 102
 Moore, C. T. 77
 Moore, P. W. B. 124
 Morse, R. W. 14
 Munk, W. H. 108
 Murphy, E. L. 34
 Neubert, J. A. 112
 Northrop, J. 112
 Orr, M. H. 14
 Palumbo, J. X. 77
 Parvulescu, A. 126
 Pederson, T. B. 17
 Posey, J. W. 80
 Prince, E. D. 71
 Proni, J. R. 72
 Ramsdale, D. J. 80
 Riblett, W. R. 8
 Richard, J. D. 69
 Rojas, R. R. 40
 Rudgers, A. J. 67
 Scully-Power, P. D. 24
 Serotta, M. D. 17
 Shank, M. K., Jr 77
 Skeen, T. H. 56
 Solomon, L. P. 80
 Spiess, F. N. 109
 Spikes, C. H. 28
 Stanbrough, J. H. 15
 Tappert, F. D. 70
 Timme, R. W. 67
 Tomei, J. 78
 Trivett, D. H. 67
 Van Buren, A. L. 67
 Watters, B. G. 8
 Wenzel, A. R. 80
 Whitmarsh, D. C. 34
 Wilburn, G. M. 45
 Wilcox, C. C. 80
 Wilson, O. B., Jr 117
 Winokur, R. S. 53
 Worcester, P. F. 109
 Wright, T. L. 112
 Yee, G. S. 112
 Young, J. W. 110
 Zalesak, J. F. 67

Optics

Agrawal, Y. C. 11
 Arnone, R. A. 78
 Austin, R. W. 105
 Blizard, M. A. 80
 Brown, O. B. 69
 Car, M. 76
 Carder, K. L. 42
 Fry, E. S. 94
 Geelhood, B. D. 111
 Hodgson, R. T. 123
 Holyer, R. J. 79
 Kiefer, D. A. 98
 Klemas, V. 35
 Losee, J. R. 111
 Mertens, L. E. 68

Ofelt, G. S. 56
 Preisendorfer, R. W. 131
 Roach, D. M. 115
 Schlegelmilch, R. O. 45
 Smith, R. C. 107
 Stumpf, H. G. 45
 Sullivan, L. G. 30
 Thorndike, E. M. 30
 Tucker, S. P. 116
 Van Sciver, W. J. 34
 Waterman, T. H. 25
 Williams, J. 50
 Yentsch, C. S. 22
 Zaneveld, J. R. V. 129

Air-Sea Interaction

Andreas, E. L. 20
 Barbieri, R. W. 46
 Barnett, T. P. 109
 Barrientos, C. S. 49
 Bressan, D. J. 39
 Burt, W. V. 128
 Byrne, H. M. 131
 Carlson, D. J. 22
 Chen, D. T. 39
 Chin, H. 110
 Clark, N. E. 105
 Clarke, L. C. 116
 Clayton, W. H. 93
 Davidson, K. L. 116
 DeLeonibus, P. S. 45
 Delnore, V. E. 56
 Dorman, C. E. 112
 Dubach, H. W. 58
 Eber, L. E. 103
 Edwards, N. C., Jr 24
 Enfield, D. B. 128
 Fleming, R. H. 132
 Foerster, J. W. 50
 Grabowski, W. J. 52
 Huang, N. E. 55
 James, R. W. 39
 Johnson, A., Jr 78
 Jung, G. H. 116
 Kaiser, J. A. C. 40
 Kelley, E. J. 41
 Kirk, R. A. 80
 Kitaigorodskii, S. A. 50
 Landis, R. C. 47
 Leipper, D. F. 116
 Levine, E. R. 16
 Liu, C. 137
 Liu, W. T. 102
 Ma, C. M. 92
 Maresca, J. W., Jr 117
 Martineau, D. P. 47
 Mascarenhas, A. D., Jr 7
 Mattie, M. G. 52
 McConnell, S. O. 132
 McPhee, M. G. 20
 Meyers, G. A. 107
 Miller, J. R. 28

Newman, W. A. 107
 Nierenberg, W. A. 107
 Orr, M. H. 14
 Ostapoff, F. 72
 Pade, B. H. 14
 Paquin, J. E. 77
 Paulson, C. A. 129
 Payne, R. E. 14
 Perlroth, I. 38
 Phillips, O. M. 50
 Pinkel, R. 107
 Price, J. F. 14
 Quinn, W. H. 129
 Reece, A. M. 91
 Rouse, L. J., Jr 89
 Savage, R. P. 52
 Schacher, G. E. 116
 Shonting, D. H. 16
 Shuman, J. N. 48
 Simpson, J. J. 107
 Smith, N. P. 73
 Smith, P. M. 80
 Staley, R. C. 65
 Stewart, R. H. 109
 Strong, A. E. 45
 Twitchell, P. F. 7
 Weller, R. A. 15
 Woodcock, A. H. 127
 Worthem, S. J. 72
 Wu, J. 36

ENGINEERING/OCEAN ENGINEERING

Civil Engineering

Adams, E. E. 6
 Adish, M. R. 91
 Amein, M. 57
 Berry, A. D. 92
 Bretschneider, C. L. 126
 Camfield, F. E. 51
 Chen, J. 119
 Chiu, T. 67
 Cofer, W. F. 91
 Collins, J. I. 101
 Cross, R. H., III 110
 Czlapinski, R. E. 25
 Derecki, J. A. 83
 Duff, C. B. 77
 Edge, B. L. 62
 Everts, C. H. 51
 Fanse, V. R. 119
 Farr, W. E. 133
 Florwick, D. J. 47
 Foxworthy, J. E. 100
 Gaither, W. S. 35
 Garcia, W. J., Jr 119
 Grosskopf, W. G. 51
 Hard, C. G. 7
 Hoopes, J. A. 119
 Hull, W. V. 47
 Kolb, R. C. 48

Kovacs, A. 20
 Lai, R. J. 36
 Lee, H. J. 118
 Le Mehaute, B. J. 70
 Locke, G. E. 92
 Madsen, O. S. 6
 Midgley, J. S. 47
 Parker, N. E. 52
 Perlow, M., Jr 26
 Posey, L. L. 47
 Radwan, A. E. 56
 Raichlen, F. 102
 Ramberg, S. E. 40
 Randall, R. E. 94
 Reddy, D. V. 67
 Remy, N. D. 34
 Richards, A. F. 34
 Rothwell, G. N. 124
 Savage, R. P. 52
 Saville, T., Jr 52
 Schaefer, G. R. 47
 Seelig, W. N. 52
 Shen, D. C. 26
 Stoll, R. D. 30
 Talkington, H. R. 111
 Thatcher, H. H. 123
 Treadwell, D. D. 110
 Tudor, W. J. 52
 Tung, C. C. 57
 van de Kreeke, J. 70
 Vitale, P. 52
 Wang, J. D. 70
 Wang, Y. 93
 Weggel, J. R. 52
 Yuen, A. F. H. 102

Mechanical Engineering

Albro, C. S. 82
 Bowen, L. E. 66
 Bradley, K. F. 11
 Brown, D. E. 23
 Bucher, W. W. 26
 Campbell, W. H., Jr 44
 Candy, D. W. 82
 Casler, R. L. 66
 Chen, L. H. 24
 Ciesluk, A. J. 12
 Connors, T. J. 5
 Dilley, J. F. 34
 Disser, W. C. 119
 Doherty, K. W. 12
 Frink, D. W. 82
 Griffin, O. M. 39
 Hackman, D. J. 82
 Hugus, G. D. 67
 Johns, T. G. 91
 Jones, W. T. 91
 Lancaster, W. J., Jr 119
 Little, T. E. 50
 Marciniak, R. D. 34
 Marks, C. H. 46
 McKindra, C. D. 45

Milburn, D. A. 79
 Munier, R. S. C. 73
 Neve, R. A. 140
 Niedzwecki, J. M. 94
 Olson, R. J. 91
 Pade, B. H. 14
 Paquette, R. G. 119
 Pattison, J. H. 45
 Payne, R. H. 66
 Pemberton, M. L. 66
 Pope, W. S. 82
 Pruder, G. D. 36
 Rainnie, W. O., Jr 78
 Ramberg, S. E. 40
 Randall, R. E. 94
 Reece, A. M. 91
 Reichard, R. P. 137
 Rice, M. 123
 Riegel, P. S. 82
 Riley, J. G. 21
 Sachs, P. L. 14
 Sayre, C. L., Jr 46
 Schlosser, A. J. 111
 Seidel, W. R. 82
 Sharp, A. G. 14
 Skop, R. A. 40
 Spillman, D. M. 47
 Stachiw, J. D. 111
 Sutherland, A. L. 80
 Terry, T. A. 34
 Thatcher, H. H. 123
 Thro, M. E. 91
 Tsahalidis, D. T. 91
 Uram, E. M. 73
 Van Dorn, W. G. 108
 Van Hemelryck, L. 92
 Vanselous, T. M. 78
 Venezia, W. A. 73
 Vinson, J. R. 35
 Walden, B. B. 15
 Wang, H. T. 45
 Watts, R. L. 111
 Whitaker, T. E. 24
 Whitney, L. F. 4
 Wolford, T. C. 44

Chemical Engineering

Mumme, K. I. 21
 Robertson, E. A. 76
 Telander, D. H. 62

Electrical Engineering

Antman, H. S. 30
 Bartram, J. F. 17
 Beard, J. K. 17
 Beaumariage, D. C. 48
 Bonnell, R. D. 61
 Cagle, J. B. 82
 Campbell, W. H., Jr 44
 Carey, E. W. 39
 Chrika, E. D. 79

Clotworthy, J. H. 37
 Collins, C. W., Jr 12
 Cowen, S. J. 111
 Finlon, F. P. 34
 Gandy, W. F. 78
 Garwood, R. W. 116
 Goldsborough, R. G., III 12
 Gondeck, A. R. 67
 Harosi, F. I. 8
 Heckman, P. J., Jr 111
 Howell, G. L. 67
 Johnson, H. A. 40
 Johnson, R. V., II 137
 Klein, M. 19
 Koehler, R. L. 13
 Koelsch, D. E. 13
 Lutton, T. C. 45
 Marciniak, R. D. 34
 Martin, S. W. 124
 Melvin, D. W. 20
 Mertens, L. E. 68
 Mesecar, R. S. 129
 Moore, R. K. 88
 Nakamura, A. I. 131
 O'Connor, J. C. P. 53
 Onstott, R. G. 88
 Renner, A. F. 52
 Robertson, E. A. 76
 Robinson, W. C. 30
 Roderick, W. I. 24
 Rojas, R. R. 40
 Schlegelmilch, R. O. 45
 Schroeder, K. R. 45
 Schuler, D. L. 40
 Shephard, R. J. 48
 Shirley, D. E. 40
 Smith, B. L. 74
 Spindel, R. C. 15
 Stogner, L. B., III 78
 Timko, R. E. 78
 Townsend, W. F. 42
 Tupper, G. H. 15
 Valdes, J. R. 15
 Von Der Heydt, K. 15
 Waterman, P. T. 119

Mining

Crawford, H. M. 110
 Latimer, J. P. 53
 Siapno, W. D. 54
 Tolefson, D. C. 54
 Wenzel, J. G. 119

Naval Architecture

Anderson, C. F. 82
 Davis, R. G. 93
 Flipse, J. E. 94
 Foley, E. W. 45
 Furuya, O. 101
 Kowalski, T. 18
 Lee, C. M. 45

Lou, J. Y. K. 94
 Lutowski, R. N. 119
 Magnuson, A. H. 56
 Peterson, R. S. 45
 Price, D. 48
 Shen, Y. T. 45
 Sherwood, W. G. 42
 Silva, E. A. 53
 Simon, B. S. 45
 Steinbach, R. B. 119
 Thomas, G. O. 40
 Vlaun, R. C. 23
 Voelker, J. M. 45
 Wang, S. 70
 Wenzel, J. G. 119

Aero-Engineering

Cagle, B. J. 101
 Heburn, G. W. 77
 Kundu, P. K. 68
 Ozimina, C. D. 40
 Peterson, R. S. 45
 Stegen, G. R. 130

Naval/Marine Engineering

Bales, S. M. L. 45
 Behrens, W. W., Jr 74
 Booth, N. O. 112
 Campbell, W. H., Jr 44
 Canada, R. H., Jr 78
 Clausner, E. 73
 Coyle, A. J. 82
 Davidson, J. B. 73
 Debrule, P. M. 57
 Dowling, G. B. 66
 Forhan, T. F. 42
 Hamilton, G. D. 78
 Harmon, J. B., Jr 123
 Hennegan, R. M. 23
 Humphreys, D. H. 23
 Ivey, L. E. 67
 Kaulum, K. W. 80
 Keach, D. L. 99
 Lemaire, I. P. 111
 Loud, J. F. 13
 Ma, A. K. 110
 Mackenzie, J. M. 111
 McCann, D. P. 52
 Morton, R. W. 16
 Nichols, W. J. 45
 Nicinski, S. A. 123
 Ochi, M. K. 67
 Palfrey, K. M., Jr 44
 Pringle, W. G., Jr 71
 Pritzlaff, J. A. 50
 Rechnitzer, A. B. 103
 Riblett, W. R. 8
 Sea, R. L. 73
 Shumaker, L. A. 113
 Silver, A. L. 45
 Skinner, B. C. 23

Thornton, E. B. 116
 Timpe, G. L. 78
 Vance, G. P. 90
 Vlaun, R. C. 23
 Wade, R. B. 102
 Wenzel, J. G. 119
 Wiggins, E. G. 93
 Wilburn, G. M. 45
 Zahn, G. A. 54

Instrumentation Engineering

Adey, W. H. 43
 Alers, P. B. 39
 Alexiou, A. G. 48
 Bitterman, D. S. 11
 Bradley, A. M. 11
 Bressan, D. J. 39
 Browder, L. P. 67
 Brown, N. L. 8
 Cagle, J. B. 82
 Chramiec, M. A. 17
 Dahlen, J. M. 6
 Daniel, T. H. 119
 Fagot, M. G. 79
 Farland, R. J. 48
 Ferer, K. M. 79
 Folsom, T. R. 105
 Forhan, T. F. 42
 Galus, A. J. 79
 Geelhood, B. D. 111
 Gerard, R. D. 29
 Gibson, C. H. 104
 Gloersen, P. 46
 Gough, E. C., Jr 88
 Green, A. W. 79
 Hare, C. M. 51
 Heibel, A. D. 77
 Hendricks, P. J. 130
 Hess, F. R. 13
 Holland, C. R. 79
 Howell, G. L. 67
 Johnson, E. A. 4
 Kendall, T. R. 112
 Lawson, K. D., Jr 8
 Lowenstein, C. D. 109
 MacNichol, E. F., Jr 9
 Maresca, J. W., Jr 117
 Marr, J. C. 101
 McCall, J. C. 78
 Michelena, E. D. 78
 Middleton, F. H. 18
 Moore, R. D. 107
 Morris, F. W., IV 68
 Morris, W. D. 40
 Morrison, G. K. 8
 Morton, R. W. 16
 Moss, G. J., Jr 80
 Neshyba, S. 125
 Newman, W. A. 107
 Okawa, B. S. 40
 Onstenk, R. W. 119
 Patterson, R. B. 40

Peal, K. R. 14
 Prada, K. E. 14
 Richard, J. D. 69
 Robertson, E. A. 76
 Rossby, H. T. 18
 Springer, P. C. 110
 Stogner, L. B., III 78
 Sullivan, L. G. 30
 Tupper, G. H. 15
 Tyce, R. C. 108
 Vandermeulen, J. P. 48
 Van Leer, J. C. 70
 Wesley, E. J. 111
 Whaley, R. C. 49
 Williams, A. J., III 15
 Windisch, C. C. 30
 Wolford, T. C. 44
 Young, E. M., Jr 16
 Yuen, A. F. H. 102

Sanitary Engineering

Harris, H. S. 135
 Hawke, J. P. 75
 Holden, R. B. 120
 Montgomery, G. E. 88
 Robertson, E. A. 76

Environmental Engineering

Bascom, W. N. 100
 Bathen, K. H. 126
 Baumgartner, D. J. 129
 Bishop, P. L. 20
 Callaway, R. J. 127
 Carter, H. H. 31
 Cerlo, C. F. 54
 Chapra, S. C. 83
 Coffey, C. I. 77
 Ewald, J. L. 25
 Foerster, J. W. 50
 Glimme, T. M. 120
 Griscom, C. A. 17
 Gunnerson, C. G. 97
 Hann, R. W., Jr 94
 Harleman, D. R. F. 6
 Harrison, W. 87
 Higashi, G. R. 125
 Hoopes, J. A. 119
 Huang, J. C. 17
 Innerfeld, H. 26
 Kiefer, D. A. 98
 Kuo, C. Y. 56
 List, E. J. 102
 Lockwood, M. 47
 Miller, G. R. 87
 Morgan, R. P., II 50
 Morton, R. W. 16
 Newton, F. C., III 102
 Plunkett, R. D. 110
 Purvis, C. E. 60
 Rice, C. P. 85
 Richards, W. K., Jr 124

Robertson, E. A. 76
 Ropes, J. W. 10
 Schlueter, R. S. 100
 Stogner, L. B., III 78
 Straty, R. R. 141
 Tebeau, P. A. 24
 Telander, D. H. 62
 Tuovila, S. M. 66
 Waldner, L. P. 113
 Wang, T. C. 73
 Woodhead, P. M. J. 31
 Young, D. R. 100
 Young, R. A. 78

Industrial Engineering

Jensen, A. L. 133
 LeBlanc, J. U. 93
 Robertson, E. A. 76

EARTH SCI/MARINE GEOL,GEOPHYS

Structural Geology/Tectonics

Allmendinger, R. W. 33
 Andrews, J. E. 126
 Atwater, T. M. 115
 Ballard, R. D. 11
 Beal, M. A. 111
 Chase, T. E. 117
 Cohen, C. R. 92
 Davin, E. M. 42
 Dietz, R. S. 98
 Dillon, W. P. 10
 Drake, C. L. 19
 Duncan, R. A. 128
 Fan, P. 126
 Feden, R. H. 39
 Fink, L. K., Jr 22
 Fisher, R. L. 105
 Fleming, H. S. 39
 Gastil, R. G. 112
 Grantz, A. 118
 Grow, J. A. 10
 Halunen, A. J. 114
 Handley, L. R. 88
 Hey, R. N. 126
 Hilde, T. W. C. 94
 Holmes, M. L. 132
 Hurley, R. J. 122
 Jarrard, R. D. 29
 Karig, D. E. 33
 Kennedy, M. P. 106
 Kieckhefer, R. M. 106
 Kulm, L. D. 128
 Labrecque, J. L. 29
 Lawver, L. A. 6
 Lichy, D. E. 52
 Lowrie, A. 77
 Malfait, B. T. 42
 Marlow, M. S. 118
 McCulloch, D. S. 118

McCulloch, T. H. 132
 Moore, D. G. 109
 Moore, G. F. 107
 Moore, G. W. 118
 O'Hara, N. W. 68
 Plafker, G. 118
 Popenoe, P. 11
 Pyle, T. E. 53
 Robb, J. M. 11
 Rosencrantz, E. J. 92
 Ross, D. A. 14
 Schlee, J. S. 11
 Scholl, D. W. 118
 Schweller, W. 33
 Sclater, J. G. 7
 Sharman, G. F. 95
 Slagle, K. J. 58
 Snively, P. D., Jr 118
 Stevens, R. S. 7
 Tatsch, J. H. 5
 Uchupi, E. 15
 Vedder, J. G. 118
 Vogt, P. R. 40
 von Huene, R. 118
 Wagner, H. C. 118
 Woo, C. 11

Geomorphology

Anderson, G. L. 54
 Boege, J. R. 76
 Chiu, T. 67
 DeWall, A. E. 51
 Embley, R. W. 47
 Ewald, J. L. 25
 Ewing, S. R. 77
 Fan, P. 126
 Godfrey, P. J. 4
 Koczan, J. A. 26
 Leatherman, S. P. 4
 Lonsdale, P. F. 106
 Loughridge, M. S. 96
 Mammeriekx, J. 106
 Maresca, J. W., Jr 117
 Morton, R. W. 16
 Nowell, A. R. M. 137
 O'Leary, D. W. 11
 Otvos, E. G. 81
 Perry, R. B. 47
 Perry, R. K. 40
 Ponton, J. R., Jr 85
 Prior, D. B. 89
 Rawson, M. 29
 Sinha, E. 104
 Slagle, K. J. 58
 Stewart, H. B., Jr 55
 Taylor, F. W. 92
 Van Lopik, J. A. 90
 Williams, S. J. 52
 Wolff, M. 31
 Zeigler, J. M. 55

Seismology

Anderson, J. G. 108
 Breslau, L. R. 24
 Brocher, T. M. 125
 Buhl, P. 29
 Bunce, E. T. 12
 Duenebier, F. K. 126
 Ewing, J. I. 12
 Frazer, L. N. 126
 Frohlich, C. 92
 Garmany, J. D. 137
 Gettrust, J. F. 126
 Herron, T. J. 26
 Houtz, R. E. 29
 Jacobson, R. S. 79
 Jordan, T. H. 108
 Kuo, J. T. 28
 Letourneau, N. J. 77
 Lewis, B. T. R. 137
 Maynard, G. L. 79
 McClain, J. S. 107
 Moore, R. D. 107
 Odegard, M. E. 53
 Orcutt, J. A. 108
 Purdy, G. M. 14
 Solomon, S. C. 7
 Spaeth, M. G. 49
 Stephen, R. A. 15
 Walker, D. A. 126

Geography

Black, R. E. 8
 French, C. O. 89
 Handley, L. R. 88
 Higashi, G. R. 125
 Mayer, H. M. 86
 McCloy, J. M. 93
 Van Lopik, J. R. 90
 Williams, S. J. 52

Geophysics

Adams, B. B. 39
 Aitken, T. D. 29
 Andrews, R. S. 41
 Ayer, E. A. 90
 Bachman, R. T. 112
 Backus, G. E. 108
 Berger, J. 108
 Berkson, J. M. 79
 Boucher, G. W. 117
 Bunce, E. T. 12
 Carlson, R. L. 94
 Carroll, J. C. 77
 Cathles, L. M., III 34
 Cherkis, N. Z. 39
 Childs, J. R. 117
 Christensen, N. I. 136
 Cochran, J. R. 29
 Cohen, P. M. 47
 Cooper, A. K. 118

Davis, T. M. 77
 Dehlinger, P. 24
 Dinter, D. A. 118
 DiPiazza, N. J. 77
 Dobson, B. M. 114
 Edgar, N. T. 52
 Ellwood, B. B. 63
 Epp, D. 126
 Fainstein, R. 68
 Feden, R. H. 39
 Filloux, J. H. 105
 Fisher, M. A. 118
 Fleming, H. S. 39
 Foote, R. Q. 10
 Fox, C. G. 77
 Ganse, R. A. 47
 Gillery, A. M. 68
 Goreau, P. D. 23
 Green, A. W., Jr 10
 Green, K. E. 91
 Grim, P. J. 96
 Hamilton, E. L. 112
 Hamilton, G. R. 80
 Henry, V. J. 64
 Herron, E. M. 29
 Hey, R. N. 126
 Hittelman, A. M. 96
 Horai, K. 29
 Hough, J. C. 114
 Hussong, D. M. 126
 Johnson, H. P. 137
 Klitgord, K. D. 10
 Kroenke, L. W. 126
 Kuo, J. T. 28
 Lal, D. 109
 Langseth, M. G. 29
 Larson, R. L. 17
 Lu, R. S. 92
 Lund, S. P. 98
 Malahoff, A. 47
 Matthews, J. E. 79
 Maxwell, A. E. 96
 McGregor, B. A. 68
 Merrill, R. T. 137
 Meyers, H. 97
 Miller, H. J. 26
 Miller, S. P. 114
 Morgan, W. J. 27
 Morris, G. B. 79
 Newton, P. C., III 102
 Officer, C. B. 20
 Ogushwitz, P. R. 27
 O'Hara, C. J. 11
 Ostenso, N. A. 48
 Parsons, B. E. 7
 Phillips, J. D. 96
 Prins, D. A. 52
 Rabinowitz, P. D. 29
 Rapoport, M. 118
 Rice, A. R. 68
 Rona, P. A. 72
 Rose, J. C. 126
 Rosendahl, B. R. 58

Ruppel, B. D. 119
 Salisbury, M. H. 107
 Schlegelmilch, R. O. 45
 Schaub, F. J. 92
 Smith, R. W. 39
 Stoffa, P. L. 30
 Tinkle, A. R. 96
 Treadwell, T. K. 95
 Uchupi, F. 15
 Von Herzen, R. P. 15
 Wall, R. E. 42
 Weihaupt, J. G. 122
 Weissel, J. K. 30
 Williams, S. J. 52

Sedimentology

Adelseck, C. G., Jr 104
 Adey, W. H. 43
 Anderhalt, R. W. 82
 Anderson, F. E. 20
 Anderson, J. B. 91
 Ashley, G. M. 28
 Bachman, S. B. 33
 Bailard, J. A. 114
 Baker, E. T. 131
 Barnes, N. E. 117
 Barnes, P. W. 117
 Bassin, N. J. 38
 Behrens, E. W. 92
 Belknap, D. F. 74
 Bennett, R. H. 72
 Berberian, G. A. 72
 Berry, R. W. 112
 Betzer, P. R. 74
 Bloeser, B. 99
 Bokuniewicz, H. J. 31
 Boon, J. D., III 54
 Booth, J. S. 10
 Bouma, A. H. 95
 Bowles, F. A. 79
 Boyer, L. F. 25
 Brandon, D. E. 113
 Brenninkmeyer, B. M. 7
 Byrne, J. V. 37
 Byrne, R. J. 54
 Campbell, C. V. 90
 Carlson, P. R. 117
 Charlier, R. H. 87
 Chiu, T. 67
 Clark, D. L. 86
 Cleary, W. J. 58
 Cok, A. E. 30
 Coleman, J. M. 89
 Conomos, T. J. 117
 Cook, D. O. 16
 Creager, J. S. 136
 Damuth, J. E. 29
 Darby, D. A. 55
 Davies, T. A. 37
 Dill, R. F. 3
 Ditsworth, G. R. 129
 Donoghue, J. F. 43

- Doyle, L. J. 75
 Duane, D. B. 48
 Ellis, J. P. 12
 Eppert, H. C., Jr 79
 Everts, C. H. 51
 Ewald, J. L. 25
 Fan, P. 126
 Feldhausen, P. H. 46
 Finkelstein, K. 51
 Fleischer, P. 79
 Flood, R. D. 29
 Folger, D. W. 10
 Forde, E. B. 72
 Freeland, G. L. 72
 Galehouse, J. S. 120
 Gardner, J. V. 118
 Gardner, W. D. 29
 Garrison, L. E. 95
 Gatto, L. W. 20
 Ginsburg, R. N. 69
 Glass, B. P. 36
 Glover, L. K. 49
 Goodell, H. G. 53
 Gorsline, D. S. 98
 Gould, H. R. 90
 Grady, J. R. 66
 Grant, J. B. 96
 Griggs, G. 122
 Gsell, W. L. 77
 Hampton, M. A. 118
 Hands, E. B. 51
 Hein, J. R. 118
 Hess, G. R. 118
 Hill, G. W. 118
 Hine, A. C. 75
 Hobbs, C. H., III 54
 Hobson, R. D. 52
 Hollister, C. D. 13
 Holmes, C. W. 95
 Honjo, S. 13
 Hoskin, C. M. 73
 Howard, J. D. 64
 Huang, T. 17
 Hubbard, D. K. 3
 Hulsemann, J. 103
 Hunter, R. E. 118
 Hunter, W. P. 56
 Kaczorowski, R. T. 86
 Keller, G. 118
 Keller, G. H. 128
 Kenworthy, W. J. 59
 Knebel, H. J. 11
 Kofoed, J. W. 72
 Kohler, M. H. 119
 Kolpack, R. L. 98
 Komar, P. D. 128
 Kravitz, J. H. 97
 Kulm, L. D. 128
 Lambert, D. N. 72
 Lancelot, Y. P. 106
 Ledbetter, M. T. 63
 Lee, R. K. 113
 Leinen, M. S. 17
 Lidz, B. H. 68
 Lockerman, R. C. 38
 Lonsdale, P. F. 106
 Ludwick, J. C. 56
 Luepke, G. 118
 Macfarlane, I. C. 100
 Macintyre, I. G. 43
 Malfait, B. T. 42
 Malloy, R. J. 114
 Margolis, S. V. 127
 Marszalek, D. S. 70
 Matthews, R. K. 19
 Mayer, L. A. 17
 McCaffrey, R. J. 17
 McCormick, C. L. 32
 McCoy, F. W. 29
 McGrail, D. W. 94
 McGrath, D. G. 26
 McIntyre, A. 29
 McKinney, T. F. 26
 McManus, D. A. 137
 McMaster, R. L. 17
 Meylan, M. A. 76
 Miller, M. C. 57
 Milliman, J. D. 14
 Moberly, R. 126
 Molnia, B. F. 118
 Monastero, F. C. 17
 Moore, J. R. 96
 Morelock, J. 3
 Morton, R. W. 16
 Mullins, H. T. 122
 Naidu, S. A. 140
 Nardin, T. R. 98
 Nelsen, T. A. 72
 Nelson, D. D. 61
 Neumann, A. C. 57
 Nichols, M. M. 54
 Nittrouer, C. A. 57
 Normark, W. R. 118
 Oertel, G. F. 56
 Osborne, R. H. 98
 Otvos, E. G. 81
 Palmer, H. D. 53
 Pearl, J. E. 118
 Perlmutter, M. A. 70
 Peterson, M. 109
 Peterson, R. E. 96
 Phipps, J. B. 138
 Pierce, J. W. 43
 Pilkey, O. H. 58
 Pipkin, B. W. 99
 Prell, W. L. 19
 Purvis, C. E. 60
 Rapoport, M. 118
 Rea, D. K. 85
 Reese, J. I. 112
 Reimnitz, E. 118
 Reynolds, L. M. 77
 Rezak, R. 94
 Rhoads, D. C. 25
 Robbin, D. M. 68
 Rosen, P. S. 5
 Rosenfeld, M. A. 14
 Sass, D. B. 33
 Schlager, W. 68
 Schmalz, R. F. 34
 Schubel, J. R. 31
 Sharma, G. D. 139
 Shideler, G. L. 56
 Shor, A. N. 30
 Siever, R. 6
 Slagle, K. J. 58
 Slater, R. A. 97
 Slingerland, R. L. 34
 Soutar, A. 107
 Southard, J. B. 7
 Spigai, J. J. 50
 Stanley, D. J. 43
 Sternberg, R. W. 137
 Stewart, R. J. 137
 Stieglitz, R. D. 86
 Stubblefield, W. L. 72
 Stumpf, H. G. 45
 Supko, P. R. 114
 Swift, D. J. P. 72
 Taft, W. H. 74
 Tanner, W. F. 65
 Teleki, P. G. 52
 Terry, R. D. 113
 Thompson, R. W. 123
 Thor, D. R. 91
 Thornton, S. E. 99
 Trumbull, J. V. A. 11
 Tucholke, B. E. 15
 Underwood, M. B. 33
 Vallier, T. L. 118
 van Andel, T. H. 120
 Van Lopik, J. R. 90
 Vedder, J. G. 118
 Vernon, J. W. 114
 Wanless, H. R. 70
 Ward, L. G. 51
 Warnke, D. 120
 Wells, J. T. 89
 Wheeler, R. B. 91
 Williams, S. J. 52
 Winterer, E. L. 108
 Wolff, M. 31
 Woo, C. 11
 Wright, F. F. 140
 Zimmerman, H. B. 32
- Mineralogy**
- Banning, D. L. 110
 Bentor, Y. K. 105
 Berkebile, C. A. 32
 Berry, R. W. 112
 Bowser, C. J. 86
 Churgin, J. 38
 Fan, P. 126
 Garrels, R. M. 75
 Griffin, J. J. 109
 Hathaway, J. C. 10
 Honnorez-Guerstein, B. M. 70

Nelsen, T. A. 72
 Peterson, M. 109
 Pevear, D. R. 137
 Slagle, K. J. 58
 Woo, C. 11

Geodesy/Gravity

Bennett, J. E. 42
 Bowin, C. O. 11
 Clark, D. M. 96
 Drummond, S. E., Jr 123
 Feden, R. H. 39
 Haxby, W. F. 29
 Kuo, J. T. 28
 Kurkowski, J. J. 38
 Mourad, A. G. 82
 Rose, J. C. 126
 Rutscheidt, E. H. 38
 Saxena, N. K. 127
 Talwani, M. 33
 Watts, A. B. 30

Hydrology

Cathles, L. M., III 34
 Cox, D. C. 126
 Czapinski, R. E. 25
 Hawke, J. P. 75
 Hoopes, J. A. 119
 Kohout, F. A. 11
 Kuo, C. Y. 56
 Lennon, G. P. 34
 Morton, R. W. 16
 Purvis, C. E. 60
 Quinn, F. H. 83
 Schubel, J. R. 31
 Straty, R. R. 141
 Thompson, P. A., Jr 82

Paleontology

Balsam, W. L. 32
 Berggren, W. A. 11
 Bock, W. D. 70
 Bottjer, D. J. 98
 Bukry, J. D. 117
 Casey, R. E. 91
 Cheetham, A. H. 43
 Ciesielski, P. F. 63
 Cifelli, R. 43
 Corliss, B. H. 12
 Coulbourn, W. T. 105
 Cuffey, R. J. 34
 Curran, H. A. 4
 Dodge, R. E. 68
 Ellis, C. H. 96
 Fleisher, R. L. 90
 Foster, M. W. 87
 Gartner, S. 94
 Grant, R. E. 43
 Guber, A. L. 34
 Hecht, A. D. 42

Ingle, J. C. 120
 Johnson, D. A. 13
 Keller, G. 118
 Kennett, J. P. 17
 Lawrence, D. R. 61
 Lipps, J. H. 123
 Lohmann, G. P. 13
 Lukas, K. J. 33
 Marszalek, D. S. 70
 McClellan, P. H. 118
 McIntyre, A. 29
 Moore, T. C., Jr 17
 Newman, W. A. 107
 Olsson, R. K. 28
 Parker, F. L. 107
 Parker, W. C. 65
 Pflum, C. E. 91
 Phleger, F. B. 107
 Prell, W. L. 19
 Riedel, W. R. 109
 Ross, C. A. 137
 Rottman, M. L. 91
 Rowland, R. W. 52
 Sancetta, C. A. 30
 Sanfilippo, A. B. 107
 Sass, D. B. 33
 Schnitker, D. F. 22
 Schopf, T. J. M. 87
 Showers, W. J. 127
 Spencer, R. S. 67
 Steinker, D. C. 83
 Steinmetz, J. C. 75
 Stratton, J. F. 87
 Thompson, P. R. 30
 Thunell, R. C. 61
 Tischler, H. 20
 Wright, R. C. 65
 Zullo, V. A. 58

Stratigraphy

Ballard, J. A. 79
 Bliss, K. A. 103
 Buffler, R. T. 92
 Ciesielski, P. F. 63
 Cole, W. F. 114
 Fan, P. 126
 Gombos, A. M., Jr 90
 Habib, D. 30
 Haq, B. U. 13
 Harris, W. B. 58
 Heron, S. D., Jr 58
 Hulmes, L. J. 52
 Jordan, R. R. 36
 Keller, G. 118
 Kulm, L. D. 128
 McGrath, D. G. 26
 Mitchum, R. M., Jr 91
 Perkins, R. D. 58
 Peterson, G. L. 112
 Peterson, M. 109
 Prell, W. L. 19
 Sachs, H. M. 27

Sass, D. B. 33
 Scanlon, K. M. 11
 Shabica, C. W. 87
 Slagle, K. J. 58
 Slingerland, R. L. 34
 Smith, L. A. 91
 Stahl, L. E. 26
 Stieglitz, R. D. 86
 Theyer, F. 126
 Thierstein, H. R. 108
 Thor, D. R. 91
 Tsentas, C. 26
 Vail, P. R. 91
 Vedder, J. G. 118
 Webb, G. W. 4
 Wickham, J. T. 114
 Williams, S. J. 52
 Wolff, M. 31
 Zullo, V. A. 58

Geomagnetism

Brown, L. L. 4
 Cande, S. C. 29
 Carroll, J. C. 77
 Chave, A. D. 105
 Ellwood, B. B. 63
 Feden, R. H. 39
 Filloux, J. H. 105
 Fleming, H. S. 39
 Green, A. W., Jr 10
 Greenewalt, D. 39
 Hammond, S. R. 47
 Harrison, C. G. A. 70
 Heinrichs, D. F. 42
 Heirtzler, J. R. 13
 Helsley, C. E. 126
 Hey, R. N. 126
 Higgs, R. H. 77
 Karlin, R. 128
 Kean, W. F. 86
 Levi, S. 128
 Lund, S. P. 98
 Macdonald, K. C. 114
 Merrill, R. T. 137
 Rigotti, P. A. 28
 Sayre, W. O. 85
 Schouten, H. 14
 Shih, T. 92
 Testarmata, M. M. 92

Geophysical Exploration

Austin, J. A., Jr 92
 Babcock, A. L. 101
 Beyer, L. A. 117
 Bromery, R. W. 4
 Campbell, J. F. 126
 Childs, J. R. 117
 Diebold, J. B. 29
 Dill, C. E. 26
 Dowling, J. J. 24
 Edsall, D. W. 50

Fainstein, R. 68
 Folsom, T. R. 105
 Green, A. W., Jr 10
 Greenberg, J. J. 118
 Harding, J. L. 63
 Hayes, D. E. 29
 Lapin, S. G. 92
 Ludwig, W. J. 29
 Marlow, M. S. 118
 May, S. D. 118
 McAllister, R. F. 73
 O'Brien, T. F. 14
 Prins, D. A. 52
 Randall, R. G. 114
 Schroeder, F. W. 91
 Shipley, T. H. 107
 Shor, G. G., Jr 107
 Sullivan, L. G. 30
 Sylwester, R. E. 132
 Williams, S. J. 52
 Windisch, C. C. 30

OTHER "EARTH" SCI

Limnology

Armstrong, D. E. 86
 Assel, R. A. 83
 Beeton, A. M. 85
 Benson, N. G. 89
 Binkowski, P. P. 86
 Brock, D. A. 96
 Brooks, A. S. 86
 Carr, J. F. 103
 Chang, W. Y. B. 85
 Chistensen, D. H. 84
 Coffee, G. L. 76
 Correll, D. L. 49
 Dahm, C. N. 127
 Dobi, J. S. 26
 Edsall, T. A. 84
 Fast, A. W. 124
 Foerster, J. W. 50
 Gardner, W. S. 83
 Gieskes, J. M. 106
 Goering, J. J. 140
 Green, A. W. 79
 Hawke, J. P. 75
 Higashi, G. R. 125
 Hiltunen, J. K. 84
 Hoopes, J. A. 119
 Jackson, W. B. 93
 Johansen, K. A. 85
 Judd, J. H. 85
 Kamykowski, D. 57
 Kean, W. F. 86
 Kenworthy, W. J. 59
 Kiefer, D. A. 98
 Lal, D. 109
 Magnuson, J. J. 86
 Manny, B. A. 84
 Maresca, J. W., Jr 117

Matisoff, G. 83
 McCall, P. L. 83
 Meyer, E. R. 47
 Meyer, J. L. 63
 Minton, R. V. 75
 Mortimer, C. H. 86
 Nixon, D. E. 66
 Pade, B. H. 14
 Paerl, H. W. 61
 Park, D. L. 134
 Porter, K. G. 63
 Prince, E. D. 71
 Quigley, M. A. 83
 Ropes, J. W. 10
 Rossmann, R. 85
 Ruber, E. 5
 Sager, P. E. 86
 Sass, D. B. 33
 Saunders, G. W., Jr 42
 Scavia, D. 83
 Schelske, C. L. 85
 Schloesser, D. W. 84
 Schwartz, F. J. 61
 Seale, D. B. 86
 Seelye, J. G. 84
 Selgeby, J. H. 84
 Storr, J. F. 33
 Straty, R. R. 141
 Turner, R. E. 90
 White, D. S. 85
 Wisby, W. J. 70
 Wolf, E. G. 96
 Yocum, W. L. 85

Meteorology

Anawalt, R. A. 50
 Anderson, R. W. 132
 Barrientos, C. S. 49
 Bleck, R. 69
 Branscome, L. E. 69
 Bressan, D. J. 39
 Brooks, E. M. 7
 Burroughs, L. D. 49
 Burton, W. D. 132
 Clarke, L. C. 116
 Cooperman, A. I. 38
 Dubach, H. W. 58
 Elsberry, R. L. 116
 Ernst, J. A. 45
 Estoque, M. A. 69
 Evans, R. H. 103
 Freeman, D. L. 28
 Gerrish, H. P. 69
 Godfrey, P. J. 4
 Hamilton, G. D. 78
 Heburn, G. W. 77
 Hecht, A. D. 42
 Hinman, K. G., Jr 79
 Hull, A. N. 132
 Hunter, W. P. 56
 Kreiss, W. T. 130
 Mack, E. J. 33

Macklin, S. A. 131
 McClain, E. P. 45
 Merrill, J. T. 69
 Miller, F. R. 109
 Mobley, C. D. 131
 Mount, W. D. 5
 Nagle, R. E. 117
 Overland, J. E. 131
 Palmer, W. C. 77
 Peters, D. J. H. 90
 Pore, N. A. 49
 Quayle, R. G. 61
 Rahn, K. A. 18
 Ramage, C. S. 125
 Rinkel, M. O. 74
 Roads, J. O. 107
 Robertson, E. A. 76
 Rosmond, T. E. 117
 Rubenstein, D. M. 53
 Sadler, J. C. 125
 Salsman, G. G. 66
 Saltzman, B. 25
 Shreffler, J. H. 58
 Somerville, R. C. J. 107
 Thomas, W. L. 45
 Thompson, P. A., Jr 82
 Twitchell, P. F. 7
 Weinstein, A. I. 117

OTHER SPECIALTY

Law

Burke, W. T. 132
 Theberge, N. B. 55
 Wheeler, J. R. 87

Economics

Adams, M. F. 125
 Allen, P. G. 3
 Ball, J. L., Jr 139
 Dill, J. E. 124
 Gibbs, S. R. 132
 Herkelrath, J. M. 138
 Herrick, S. F., Jr 103
 Hunter, W. P. 56
 Kaczynski, W. M. 132
 McMillan, J. A. 104
 Olson, F. L. 37
 Purvis, C. E. 60
 Robertson, E. A. 76
 Schuler, F. M. 48
 Smith, L. J. 14
 Stokes, R. L. 132
 Storey, D. A. 4
 Sullivan, J. J. 108
 Townsend, R. E. 21
 Warren, T. C. 38
 Waters, J. R. 60
 Wilson, J. A. 21
 Yoshida, K. K. 125

Coastal Zone Management

- Benggio, B. L. 68
Blahm, T. H. 138
Bohlke, J. E. 35
Brown, J. T. 60
Brucks, J. T. 78
Chanesman, S. 31
Cordes, C. L. 89
Crow, J. H. 26
Fawcett, J. A. 100
Finkl, C. W. 68
Fisher, L. J. 37
Foerster, J. W. 50
Folsom, T. R. 105
Godfrey, P. J. 4
Goodell, H. G. 53
Hannah, R. P. 78
Heatwole, C. A. 28
Hershman, M. J. 132
Higashi, G. R. 125
Hirschberg, D. J. 31
Hurley, R. J. 122
Jackson, W. B. 93
Jones, J. C. 54
Kenworthy, W. J. 59
Koczan, J. A. 26
Leschine, T. M. 13
Minton, R. V. 75
Morton, R. W. 16
Neal, V. T. 129
Neve, R. A. 140
Nixon, S. W. 17
Owen, A. A. 52
Pavia, R. 97
Purvis, C. E. 60
Robertson, E. A. 76
Rooney-Char, A. H. 55
Schubel, J. R. 31
Sinha, E. 104
Slagle, K. J. 58
Sullivan, J. K. 50
Van Lopik, J. R. 90
Warren, R. 35
Weigend, G. G. 98
West, K. H. 60
Weyl, P. K. 31
Wilkins, B. T. 33
Wilson, J. C. 100
Zeigler, J. M. 55
- Botbol, J. M. 10
Bowen, L. E. 66
Ceruti, M. G. 123
Chappell, A. C. 77
Cheeves, G. H. 133
Childs, J. R. 117
Churgin, J. 38
Coan, A. L., Jr 103
Cornyn, J. J. 79
Crowell, R. B. 96
Evans, D. A. 54
Fischer, W. J. 97
Frazer, J. Z. 103
Geelhood, B. D. 111
Goldsmith, R. A. 12
Goulet, J. R., Jr 19
Groman, R. C. 13
Hamilton, D. R. 38
Hamm, D. P. 110
Holley, H. J. 78
Jones, M. M. 13
Kadane, J. 124
Katz, B. S. 26
Kelley, J. C. 120
Koi, D. B. 93
Kundu, P. K. 68
Lazanoff, S. M. 116
LeBlanc, J. U. 93
Lukens, R. J. 54
Maltais, J. A. 13
McConaghy, D. C. 134
McHendrie, A. G. 118
McKenzie, J. H. 132
Metzger, D. R. 96
Morton, R. W. 16
Muhlia, A. F. 109
Newton, F. C., III 102
Pade, B. H. 14
Radwan, A. E. 56
Rice, A. R. 68
Rottier, J. R. 52
Salsman, G. G. 66
Savastano, K. J. 78
Schlegelmilch, R. O. 45
Shaw, G. H. 55
Sloss, P. W. 97
Sullivan, M. F. 104
Tuovila, S. M. 66
Wasowski, S. F. 80
Yuen, A. F. H. 102

Sociology

- Miller, M. L. 132
Purvis, C. E. 60
Robbin, D. M. 68
Shuman, J. N. 48

Computer Sciences

- Barnes, N. E. 117
Bauer, R. A. 110
Bliss, R. A. 103

IV

**Organizations Listed Alphabetically,
Their Index to Section I and
Their Basic Telephone Number**

PRECEDING PAGE BLANK-NOT FILMED

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 Planetary Physics 108
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.School of Life and Health Sciences 36
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.Geology Dept. 65
.Joint Institute for Study of the
Atmosphere & Ocean
Meteorology Annex 65
.Dept. of Oceanography 65
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.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
(904) 476-9500

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 4 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 ☐ Biological Oceanography | 31 ☐ Biology | 51 ☐ Arts & Humanities |
| 12 ☐ Physical Oceanography | 32 ☐ Physics/Math | 52 ☐ Law |
| 13 ☐ Chemical Oceanography | 33 ☐ Chemistry | 53 ☐ Medicine |
| 14 ☐ Marine Geology/Geophysics | 34 ☐ Geology/Geophysics | 54 ☐ Business |
| 15 ☐ Ocean Engineering | 35 ☐ Engineering | 55 ☐ Social Sciences |
| 16 ☐ Ocean Social Sciences | 36 ☐ Social Sciences | 56 ☐ Other _____ |
| 17 ☐ Other _____ | 37 ☐ 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* specialties.

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%

(M) 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 | 31 ☐ AMS | 51 ☐ A "biological" society |
| 12 ☐ MTS | 32 ☐ APS | 61 ☐ An "engineering" society |
| 13 ☐ AGU | 32 ☐ Other "physics" society | 71 ☐ A "social science" society |
| 21 ☐ GSA | 41 ☐ ACS | 91 ☐ Other field society |
| 22 ☐ Other "geol/
geophysics" society | 42 ☐ Other "chemical" 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