

UC San Diego Biographies

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SIO Alumni Biographies

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SCRIPPS INSTITUTION
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SIO ALUMNI BIOGRAPHIES

75th Anniversary

June 1978

SCRIPPS INSTITUTION OF OCEANOGRAPHY
UNIVERSITY OF CALIFORNIA, SAN DIEGO

S I O A L U M N I B I O G R A P H I E S

75th Anniversary Committee

June 1978

SCRIPPS INSTITUTION OF OCEANOGRAPHY
University of California, San Diego

SIO Alumni Biographies

ADELSECK, Charles G., Jr. - 4719 Robbins St., San Diego, CA 92122

Marsha (spouse) and two children: Daniel and Christina

Assistant Research Geologist, SIO/Deep Sea Drilling Project, A-031

GRADUATED: 1977. FIELD OF SPECIALIZATION: Neogene Carbonate Sedimentation, Dissolution and Diagenesis.

ANDERSON, Raymond - 2002-1133 Beach Ave., Vancouver, British Columbia

Assistant Professor, Dept. of Chem., Inst. of Oceanography, U.B.C., Vancouver.

GRADUATED: 1975. FIELD OF SPECIALIZATION: Chemical Oceanography.

Postdoctoral Fellow with Dr. G. Büchli, MIT/Chemistry Dept. (1975-76). Visiting Assistant Professor, Univ. of Alberta, Edmonton, Dept. of Chemistry (1976-77). Presently Assistant Professor, Univ. of British Columbia, Dept. of Chemistry and Inst. of Oceanography.

ANDERSON, Lloyd J. - 22 Surrey Run, Williamsville, NY 14221

Catherine (spouse) and three children: Mary Ellen, Kirsten and Gretchen

Principal Physicist, Calspan Corporation, P.O. Box 235 Buffalo, NY 14221

GRADUATED 1942. FIELD OF SPECIALIZATION: Electrochemistry--sediments and seawater.

Worked for Roger Revelle, at that time, as Instructor in Geology. Roger was stationed at U.S. Navy Radio & Sound Lab, Pt. Loma, at the start of WWII. I worked for him and stayed on at the lab (later named Navy Electronics Lab) until 1955. Six of us left NEL to start our own R&D company in radiophysics (the field we were in at NEL). In 1961, I moved back to Buffalo to do similar work at the Cornell Aeronautical Lab (since re-named Calspan). Have specialized on radar data analysis and applications for various DoD sponsors. Still have a strong interest in oceanography and other physical sciences, but have not worked in those areas.

d'ANGELJAN, Bruno - 716 Upper Roslyn Ave., Westmount, Qué., Canada

Alison, (spouse) and two children: Alix and Martine

Associate Professor and Chairman, Marine Sciences Centre, McGill University,

772 Sherbrooke St., W. Montreal, PQ, Canada H3A 1G1. GRADUATED: 1965.

FIELD OF SPECIALIZATION: Marine geology and sedimentology.

Nov. 1964 - May 1965: Technical expert with UNESCO, UNAM, Mexico City, with objective to develop marine studies at the Inst. of Geology. In May 1965, appointed Assistant Professor at the Marine Sciences Centre, McGill Univ.; then Associate Professor in 1969. Presently Chairman of the Centre, which has about 35 graduate students and offers programs in marine biology, marine geology and physical oceanography. Our work is mainly oriented towards studies in the Gulf of St. Lawrence, the Hudson Bay region and the Caribbean, dealing with coastal and estuarine dynamics, sedimentation and productivity.

APPLEQUIST, Mike - 6489 Maplewood Drive, May Field Heights, OH 44124
Nancy (spouse)

The Standard Oil Company (Ohio) Research Lab
4440 Warrensville Center Road, Warrensville Heights, OH 44128
GRADUATED: 1975. FIELD OF SPECIALIZATION: Marine Chemistry

Worked two years at my present job fulltime, then switched to parttime last September. I am a full time MBA Student at Case Western Reserve, expecting to graduate in June, 1979. I will get a job in industry of government, which will require some analytical/scientific expertise as well as knowledge of business.

ARTHUR, Robert S. - 8171 Calle Del Sielo, La Jolla, CA. 92037
Joy (spouse) and one daughter: Kathleen A. Mauro

Professor, SIO, A-030
GRADUATED: 1950 (PhD granted from UCLA). FIELD OF SPECIALIZATION:
Physical Oceanography.

I managed to never leave SIO!

ATWATER, Tanya - 90 Pinckney St., Boston, MA 02114
Peter Molnar (spouse) and one child: Alyosha Christopher Molnar

Assistant Professor Marine Geophysics, Mass. Inst. Tech. 54-812,
Cambridge, MA 02139
GRADUATED: 1972. FIELD OF SPECIALIZATION: Marine Geophysics (degree
in Earth Science).

Assistant Professor at SIO (one year), Exchange Scientist to USSR (5 months),
Assistant Professor at Mass. Inst. Tech. (4 years). Research on marine
magnetism and detailed structure of mid-ocean ridges using MPL Deep Tow System
and manned submersible Alvin.

BANKS, Norman G. - 305 Hermosa Way, Menlo Park, CA 94025
Jane Buchana-Banks (spouse) and two children: Adria Sydelle and Janel Lynn

Geologist - USGS Western Mineral Resources, 345 Middlefield Rd, mailstop 41,
Menlo Park, CA 94025
GRADUATED: 1967. FIELD OF SPECIALIZATION: Geology, Petrology, Geochemistry.

Employed by U. S. Geological Survey 1967-Present. Five years petrochemical
study of igneous rocks associated with the Ray porphyry copper deposit, Arizona.
Four years, reconnaissance geologic mapping of southeastern Arizona, including
studies of metamorphic core complexes and several porphyry copper deposits.
Two years mapping, petrology, and geochemistry of southern Cascade Range in
Washington. Present assignment starting Aug., 1978: staff of U.S.G.S. Hawaii
Volcano Observatory, Hawaii.

BARNES, Ross O. - 104 Harbor Lane, Anacortes, WA 98221
Alita (spouse) and two children: Philipa Marie and Daniel Ross

BARNES, Ross O. continued

Assistant Research Professor of Marine Science, Walla Walla College
Marine Station, 174 Rosario Bch, Anacortes, WA 98221
GRADUATED: 1973. FIELD OF SPECIALIZATION: Earth Science

I have been at WWC Marine Station building up a research lab in marine chemistry and conducting research programs in biogeochemistry of marine sediments and helium flux through marine sediments.

BARNETT, Arthur M.

Barbara (spouse) and two children: Karlene and Marianne

Vice President and Biological Oceanographer, Marine Ecological Consultant of Southern California, 533 Stevens Ave., D-27, Solana Bch, CA 92075.
GRADUATED: 1974. FIELD OF SPECIALIZATION: Biological Oceanography

Joined Raytheon Co. Oceanographic and Environmental Service Section in Newport, R.I. for two years as Biostatistician. Returned to Southern California in 1976 to become Vice-President and Biological Oceanographer for Marine Ecological Consultant of Southern California, Solana Beach. Our primary effort has been directed toward understanding the effects of the San Onofre Nuclear Generating Station on the plankton.

BARNETT, Michael A. - 1242 N. Crescent Hts., Apt. 9, Los Angeles, CA 90046

Research Associate, Ichthyology, LA County Museum of Natural History, 900 Exposition Blvd., LA, CA 90007
GRADUATED: 1975. FIELD OF SPECIALIZATION: Marine Biology - Mesopelagic Fish Ecology

Ecologist for Tetra Tech, Inc., Sept. 1975 - Feb. 1978. Presently Research Associate, Ichthyology, Los Angeles County Museum of Natural History.

BARNETT, Tim - 333 San Colla, La Jolla, CA

Judie (spouse) and three children: Blake, Steven, and William

Climate Research Group, SIO.
GRADUATED: 1966. FIELD OF SPECIALIZATION: Physical Oceanography/
Climatology.

Naval Oceanographic Office - 2 years - Develop Wave Prediction Models, Westinghouse Ocean Research Lab - 5 years. Joint North Sea Wave Project SIO - 7 years. NORPAX/aircraft surveys of Pacific thermal structure climate models.

BATIZA, Rodey - 7545 York Dr., Clayton MO 63105

Ann C. (spouse)

Assistant Professor, Dept. of Earth and Planet. Science, Washington Univ., St. Louis, MO 63130
GRADUATED: 1977. FIELD OF SPECIALIZATION: Igneous Petrology of Oceanic Rocks.

BAUER, Raymond T.

Lecturer, Biological Sciences (Plankton, Biology and Zoology), Cal. Poly. State Univ., San Luis Obispo, CA. 93407

GRADUATED: 1976 FIELD OF SPECIALIZATION: Marine Biology

Environmental Consultant, Lecturer - Bio. Sciences at Cal. Poly. State Univ., San Luis Obispo and Research on Marine Crustacea.

BEESON, Marvin H.- 7264 Wilshire Ct., Milwaukie, OR 97222
Glenda (spouse) and one child: Julie Ann

Associate Professor of Geology, Portland State University, Portland, Oregon, 97207.

GRADUATED: 1969. FIELD OF SPECIALIZATION: Geochemistry - Geology

1967-69: Reed College, Chemistry Dept., Sloan Fellow. 1969-present: Portland State University, Earth Sciences Dept., presently Associate Professor of Geology. 1976-present: Department Head. Present research project: geochemistry of Columbia River basalt for purposes of structure and stratigraphy.

BERGER, W. H.- 725 Granados, Solana Beach, CA 92075

Karen (spouse) and two children: Kaol and Katrina

Associate Professor of Oceanography, SIO A-015.

GRADUATED: 1968. FIELD OF SPECIALIZATION: Oceanography.

1969: taught at San Diego State College, also research at SIO. 1970: Wissenschaftlicher Assistent, Marine Geology, Kiel. 1971-present: Faculty, SIO.

BERKSON, Harold.- 12001 Whippoorwill Lane, Rockville, MD. 20852.

Helen (spouse) and two children: Deborah Ann and Joan.

Senior Specialist, Nuclear Regulatory Commission, DSE, Washington D.C. 20555.

GRADUATED: 1964. FIELD OF SPECIALIZATION: Marine Biology.

I have worked for the federal government since leaving SIO in 1963. Following 3 years of field research on pulp mill pollution in Puget Sound, I moved to Washington, D.C. to participate in the development of water quality standards. I later became Chief of the Biological and Ecological Sciences Section of the Federal Water Pollution Control Administration (now part of EPA) where we prepared the National Estuarine Pollution Study which provided basis for some of the current legislation and policies concerning management of the coastal and estuarine zone. In 1970, I joined the Congressional Research Service as a Specialist in Environmental Policy to serve as an in-house consultant to the U. S. Congress on water pollution and marine ecological matters. Since 1972, I have been involved with the assessment of environmental impacts of nuclear power plants as a Senior Specialist with the Nuclear Regulatory Commission.

BERNER, Leo Jr.- 1108 Neal Pickett Drive, College Station, TX 77840

Jo (spouse) and two children: Jo Anne Thomas and Ernestine E. Ice

BERNER, Leo Jr. continued

Associate Dean, Grad. College, Professor of Oceanography
Graduate College, Texas A & M University, College Station, TX 77843
GRADUATED: 1957. FIELD OF SPECIALIZATION: Biological Oceanography

Visiting Assistant Professor, Univ. of Oregon, Oregon Institute of Marine
Science - 1961; Associate Program Director, NSF, Washington, D.C., 1961-65;
Administrative Scientist, Texas A & M, 1965-66; Associate Professor 1966-72;
Assistant Dean Grad College 1967-1971; Professor 1972-present; Associate
Dean 1971-present.

BIERI, Robert - 175 Brookside Dr., Yellow Springs, OH 45387

Professor, Environmental Studies Center, Antioch College, Yellow Springs,
OH 45387.

GRADUATED: PhD 1958, MS 1953. FIELD OF SPECIALIZATION: Biological Oceanography.

Two yrs. at Columbia Univ., La Mont-Doherty expeditions: Mediterr, Carrib.,
Nova Scotia. Antioch since 1957. Expeditions: S. Pacific, 2 plus years - Japan.
Continued publishing on bluewater sea surface community chaetognaths and forest
community structures. Teaching = 3/4 of my time.

BOWES, Gerald W. - 2124 Fortuna Court, Davis, CA 95616

Peggy (spouse) and two children: Brandon and Britten.

Chief, Aquatic Research Section, California State Water Resources Control
Board, Division of Planning and Research, P. O. Box 100, Sacramento, CA 95801
GRADUATED: 1971. FIELD OF SPECIALIZATION: Environmental chemistry.

1971-73: Established an environmental chemistry laboratory for the Canadian
Wildlife Service, Department of the Environment, Ottawa. The laboratory pro-
vided the lead for a five polar nation study of the presence and distribution
of synthetic chlorinated hydrocarbons in the Arctic regions. 1974-present:
California State Water Resources Control Board. Presently, Chief, Aquatic
Research Section. A significant effort has been devoted to developing a
strong interactive relationship between the university and the state government.
An Institute of Marine Resources Marine Advisory Committee and an IMR Bays and
Estuaries Advisory Committee to the State Board have been established as a result.
Concurrently, Research Associate, Biomedical and Environmental Mass Spectrometry Re-
source, Space Sciences Laboratory, University of California, Berkeley. Research is
directed toward optimum resolution of complex environmental mixtures of trace organ-
ic compounds.

BOYD, Carl M. - Box 11, Site 1, Route 3, Armdale, Nova Scotia, Canada.

Donita Claire (spouse) and four children: Charles Neill, Jessica May,
Katherine Ray, Sara Elizabeth.

Professor of Oceanography, Oceanography Dept., Dalhousie University,
Halifax, Nova Scotia, Canada.

GRADUATED: 1962. FIELD OF SPECIALIZATION: Biological Oceanography,
zooplankton.

I have been in the academic stream since leaving Scripps, evolving my way up
through the professorial ranks and teaching biological oceanography. The
interests I acquired at Scripps in marine zooplankton have continued to
dominate my research, and I have worked on these beasts on cruises to several
parts of the world; I spent two pleasant sabbatical years working on plankton
in the French Mediterranean.

BRADSHAW, John S. - 12901 Via Latina, Del Mar, CA 92014

Dolores (spouse) and four children: Elizabeth, John, Vaughn and Victoria.

Department of Biology, University of San Diego, Alcalá Park, San Diego, CA 92110.

GRADUATED: 1958. FIELD OF SPECIALIZATION: Biological oceanography (Ecology of Foraminifera).

Assistant Professor at University of San Diego in 1965 - taught courses in biological oceanography, general oceanography, marine biology, ecology, environmental biology as well as general biology. Also helped to establish the "Environmental Studies Laboratory" as small modest laboratory facility for research on coastal lagoon, nearshore and related onshore environmental issues. Research interests have expanded from strictly foraminifera to more general studies on lagoons and salt marshes, environmental impact surveys, aquaculture studies and water reclamation studies using biological methods. More recently I have become interested in diatom systematics and recent ecology.

BROTHERS, Edward B. - 3 Sunset West, RD 7, Ithaca, N.Y. 14850

Iris (spouse) and one daughter: Sarah.

Assistant Professor, Sect. Ecol. and Systematics, Langmuir Lab., Cornell University, Ithaca, NY 14853.

GRADUATED: 1975. FIELD OF SPECIALIZATION: Marine Biology.

Inter-American Tropical Tuna Commission for part of 1975 before going to Cornell.

BULAND, Ray - 2074-C Manchester Ave, Cardiff, CA 92007.

Lynne (spouse)

Assistant Research, IGPP, A-025, UCSD.

GRADUATED: 1976. FIELD OF SPECIALIZATION: Long Period Seismology.

March 1976-December 1976: Post Doc. at Scripps; January 1977 - present: on staff at Scripps.

BURNETT, Bryan R. - 1624 De Baur, Cardiff, CA 92007

GRADUATED: 1975. SIO, A-002.

BURRIS, John Edward - 209 Hillcrest Ave., State College, PA 16801.

Sally (spouse) and one daughter: Jennifer Ann

Assistant Professor of Geology, 202 Buckhout Laboratory, Pennsylvania State University, University Park, PA 16802

GRADUATED: 1976. FIELD OF SPECIALIZATION: Marine Biology

Upon completion of my PhD, I came directly to Penn State Univ., where I assured my present position as assistant professor of biology. Of non-academic interest was the birth of a daughter, Jennifer Ann, on June 17, 1977.

BURT, Wayne V. - 1615 N.W. Hillcrest Dr., Corvallis, OR 97330

Louise (spouse) and four children: John, Christine, Laurie, and Darcy.

Associate Dean of Oceanography at OSU, Corvallis, OR 97331

GRADUATED: M.S. 1948, Ph.D. 1952.

Went to Johns Hopkins in 1949 to help establish the Chesapeake Bay Institute; to Univ. of Washington 1953-54; to Oregon State in 1954 where I developed a program in Oceanography which has grown from one man in 1954 to 300 at present. Our program was given Departmental status in 1959, and became a School of Oceanography in 1972. I am now less involved with administration, and more with research, my own special interest being Air-Sea Interaction. In recent years I have worked with Japanese, British, and German oceanographers in the area.

(10)

BUTCHER, William S. - 70 Elm St., Concord, Mass. 01742

Patricia (spouse) and three children: Jonathan, Benjamin, Amy

Comptroller, Dovre Ski Binding Inc., Concore, Mass 01742.

GRADUATED: 1951. FIELD OF SPECIALIZATION: Marine geology.

1951-53 WHOL. 1953-58: The Butcher Polish Co. 1958-69: Educational Services Inc. 1960-62: Arthur D. Little. 1962-72: Scia Inc. and teaching. 1972 - Dovre.

CAIRNS, James L. - Via Poggio Scafa No 27, Fiumeretta, Comune di Ameglia, Italy.

Jackie Jean (spouse) and one daughter: Susan.

Oceanographer, NATO SACLANT Research Center, APO, New York, NY. 09019.

GRADUATED 1974. FIELD OF SPECIALIZATION: Physical Oceanography.

Worked for 2 years as research associate at ICPP on internal wave studies.

In fall 1976 took present position as researcher at NATO lab in La Spezia, Italy. Still working on internal waves.

CALVERT, Stephen E. - 28 Woodbury Ave., Petersfield, Hampshire, England.

Helene (spouse) and four children: Broniven, Philip, Alison and Stephen.

Senior Principal Scientific Office, Inst. of Oceanographic Sciences, Wormley, England.

GRADUATED: 1964. FIELD OF SPECIALIZATION: Marine geochemistry.

Assistant Professor at UCLA Geology Dept. 1964 - 1966. Lecturer at University of Edinburgh Geology Dept. 1966-1972. Principal and Senior Principal Scientific Officer at Institute of Oceanographic Sciences (formerly National Institute of Oceanography) 1972 - present.

CAMERON, Dr. William M. - 4448 Ross Cresc., West Vancouver, BC, Canada V7W1B2

Dr. Ruth Nie Hoyt (spouse) and two children: William and Robin.

Physical oceanographic consultant.

GRADUATED: 1951. FIELD OF SPECIALIZATION: Physical Oceanography.

Assoc. Professor UBC, involved in establishment of Institute of Oceanography; 1955-One year at Defence College (Canada); 1956-Director Scientific Services, RC Navy; 1958-Dir. Plans Def. Res. Bd.; 1960-Director Oceanographic Research, Dept. Mines Techn. Serv. and Director Marine Sciences, Dept. Environment; 1971-retired to establish consulting company.

CARSOLA, Alfred J. - 3569 Addison Street, San Diego, CA 92106.

Joan (spouse) and seven children: Marie, Thomas, Timothy, Carol, Margaret, Christopher and Paul.

Instructor at San Diego Mesa Community College; Grossmont Community College, University of San Diego and San Diego State University.

GRADUATED: 1953. FIELD OF INTEREST: Marine Geology, Physical Oceanography, Acoustical Oceanography, and Marine Pollution.

1975-1978: Teaching Oceanography, Geology and related subjects in local colleges and community colleges; 1960-75: Lockheed Aircraft Company, staff oceanographer and head of Oceanics Division; 1971-1972: So. Calif. Coastal Water Res. Project environmental specialist; 1947-1960: U.S. Navy Electronics Laboratory, oceanographerspecializing in acoustical oceanography, marine geology.

CHAPMAN, David J. - 4460 Casa Grande Cir., no. 20, Cypress, CA 90630
Judith (spouse), and one child: Amanda.

Assoc. Professor of Biology, University of California, Los Angeles, CA
GRADUATED: 1965. FIELD OF SPECIALIZATION: Marine Biology, Algal Physiology.

Post-Doctoral at Brookhaven National Lab 1966-1968. Assistant Prof. Biology
University of Chicago 1968-1973; German Academic Exchange Fellow, Univ. of
Saarland, Summer 1970; Associate Professor Biology Univ. of California Los
Angeles, 1973 - present.

CHASE, Clement G. - 2279 Gordon Ave., St. Paul, Minnesota 55108
June (spouse) and two children: Anne and Kate.

Associate Professor of Geophysics and Geology, Dept. of Geology and
Geophysics, University of Minnesota, Minneapolis, Minnesota. 55455.
GRADUATED: 1970. FIELD OF SPECIALIZATION: Oceanography/marine geology.

NSF Post-doctoral Fellowship at Department Geodesy and Geophysics, University
Cambridge 1970-71. Assistant Professor of Geophysics, Department of Geology
and Geophysics, University of Minnesota 1971-75. Associate Professor of
Geophysics and Geology, same place 1975-present. Will be on sabbatical at
University of California at Santa Cruz 1978-79.

CHEN, Lo-chai - 4273 Cartulina Rd., San Diego, CA 92124
Deborah C. (spouse) and two children: Way-bie and Jay-bie

Professor, Department of Zoology, San Diego State Univ., Calif.
GRADUATED: 1969. FIELD OF SPECIALIZATION: Ichthyology and Aquaculture.

Assistant Professor, Associate Professor, Professor Department of Zoology,
San Diego State University.

CHUNG, Yu-Chia - 11332 Volans St., San Diego, CA 92126
Ching-Fen (Spouse) and two children: Benjamin David, and Janifer Eva.

Assistant Res. Oceanographer, GRD A-020 SIO
GRADUATED 1971. FIELD OF INTEREST: Geochemistry, Chemical Oceanography.

Have stayed since graduation. Two years as Post Doc., then as Assistant
Research to present.

CLAGUE, David A. - R. D. #2, Middlebury, Vermont 05751
Andrea (spouse)

Acting Chairman, Department of Geology, Middlebury College, Middlebury,
Vermont 05753.
GRADUATED: 1974. FIELD OF SPECIALIZATION: Earth Science.

Did one year National Research Council Post-doctorate at the U. S. Geological
Survey in Menlo Park, Calif. Have been at Middlebury College since Fall of
1975 and am Acting Chariman of the Department of Geology at present. Research
interests continue to be oceanic igneous rocks for the most part.

CLARKE, Thomas A. - P. O. Box 983, Kaneohe, HI 96744
Nancy (spouse)

Associate Professor of Oceanography, Dept. of Oceanography, University of Hawaii, Honolulu, HI 96822.
GRADUATED: 1968. FIELD OF SPECIALIZATION: Biological Oceanography.

1968-present: Assistant Prof., Associate Prof., Oceanography at the Hawaii Institute of Marine Biology, Univ. of Hawaii. Primary research: ecology of pelagic fishes.

CLIFFORD, Charles Hovey - 104 Queen St., Falmouth, Mass. 02540
Mildred (spouse) and one daughter: Sheila Alicia.

Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, 02543.
GRADUATED: 1969. FIELD OF SPECIALIZATION: Benthic Ecology.

Have been employed at WHOI since leaving SIO.

COHEN, Lewis H.

Professor of Geology, Department of Earth Sciences, University of Calif., Riverside.

GRADUATED: 1965. FIELD OF SPECIALIZATION: geochemistry.

Spent a year on faculty at Berkeley before going to UCR; have been there ever since.

CONDIE, Kent C. - 12528 Prospect NE, Albuquerque, NM 87112

Carolyn (spouse) and three children: Tamara Leigh, Linda Ann, Nathan Kent

Professor, Department of Geoscience, New Mexico Institute of Mining and Technology, Socorro, NM 87801.

GRADUATED: 1965. FIELD OF SPECIALIZATION: geochemistry.

Assistant professor in the Department of Earth Sciences, Washington University, St. Louis, July 1964 - June 1969; Associate Professor, July 1969 - June 1970, Associate Professor, July 1970 - August 1977 and Professor, September 1977 - present, Department of Geoscience, New Mexico Institute of Mining and Technology, Socorro, New Mexico.

CONGLETON, James L. - 16244 NE 27, Bellevue, WA 98008

Susan (spouse) and two daughters: Laurel L. and Sarah J.

Asst. Professor, College of Fisheries, WH-10, University of Washington, Seattle, Wa.

GRADUATED: 1970. FIELD OF SPECIALIZATION: Aquatic Ecology: feeding and growth of fishes.

NIH Post-doctoral Fellowship, Department of Zoology, Univ. Washington 1970-71. Employed by Kramer, Chin and Mayo, engineering and aquaculture consultants, 1971-75. Asst. Professor at College of Fisheries, Univ. Washington, 1975-present. Special Assistant Leader, Wa. Coop. Fish. Res. Unit.

CONTOIS, David E. - 1599 Kalani Oka Pl, Honolulu, HA 96821

Lois Warren Swiggett (spouse) and two children: Michael J. and Charles D.

Professor and Dean of College of Arts and Sciences, Univ. of Hawaii, Room 202, 2528 Tae Mall, Honolulu, HA 96822

GRADUATED: 1957. FIELD OF SPECIALIZATION: Microbiology.

CONTOIS, David E. continued

Assist. Prof., Univ of Hawaii, 1958-64; Director Biology Prgm., 1961-65; Chairman, Dept. of Microbiology, 1962-64; Assoc. Prof., 1964-69; Assoc. Dean, 1964-69; Prof., 1968-present; Dean, College of Arts and Sciences, 1969-present; Assoc. Director, NSF Science Inst., Indiana Univ., 1963 (summer); Visiting Assist. Prof., UCLA, 1964 (summer); Lecturer, NSF Televised Inst. for Biology Teachers, 1961-62.

CORCORAN, Eugene F. - 5990 S. W. 85th St., Miami, FL. 33143

Aldoris (spouse) and two children: Kathryn Ann Edwards and Shery Jean Alsbury

Professor, Marine Biochemistry, Univ of Miami, School of Marine and Atmospheric Science, 4600 Rickenbacker Causeway, Miami, FL 33149

GRADUATED: 1958. FIELD OF SPECIALIZATION: Marine Biochemistry.

Asst. Professor, 1957-65, Marine Lab., Univ of Miami; Radiation Safety Officer; Associate Prof., Inst. of Marine Sci., Univ. of Miami, 1965-1967; Associate Program Director, BMS Div., National Science Found., 1967-1968. Assoc. Prof. Inst. of Marine Sci., Univ of Miami, 1968-73; Professor, Marine Biochemistry, RSMAS, Univ. of Miami, 1973-present; Co-director, Radiation Control Center, Univ. of Miami, 1974-present; Chief Scientist, Equant II, 1963. Chief Scientist, Odysseus 65, 1965; Chief Scientist on Cruises to Caribbean, Amazon, Gulf of Mexico, 1966, 1970, 1975. Consultant and Panel Member to several NSF groups.

COUTURE, Rex - 2A Kingery Quarter #102, Hinsdale, ILL. 60521

Nancy (spouse) and two children: Tanya and Lars.

Chemical Engineering Division, Argonne National Laboratory, 9700 S. Cass Ave., Argonne, Ill. 60439.

GRADUATED: 1977. FIELD OF SPECIALIZATION: Geochemistry.

Since December my family and I have been enjoying the snow and a late spring at Argonne National Laboratory, a hot-bed of nuclear energy research. My job is to study migration of elements by aqueous fluid flow in the earth's crust. At present I am studying interaction of dissolved iodine species with kaolinite and have built and tested equipment for flow-through hydrothermal experiments. I have also submitted manuscripts on the origin of polygorskite and sepiolite in the oceans.

CRANE, Sheldon Cyr - 658 Hunakai, Honolulu, Hawaii 96816

Jane (spouse)

Environmental Health and Safety, University of Hawaii, 2022 East-West Road, Honolulu, HI 96822

GRADUATED: 1949. FIELD OF SPECIALIZATION: see below.

After spending seven years in the Chemistry Dept. at Caltech (working in the field of x-ray instrumentation) I decided to try my hand at engineering (in which I had always been interested) and went to work for Giannini Cyro Co. and later Dalmo Victor. In 1960 I returned to research, and spent 11 years at the Stanford Research Institute (with a brief return to engineering as a partner in a consulting firm). My first 4 years at SRI I was in Operations Research at Fort Ord; the rest of the time I spent studying artificially induced emphysema in rats and monkeys using "pure" air pollutants. In 1972 I accepted an appointment under an ONR Grant to the Institute of Pathobiology of the Haile Sellassie I Univ. in Addis Ababa, Ethiopia, where I set up a pilot manufacturing facility to concentrate the molluscicide in a local berry as a possible means of controlling schistosomiasis. After two years there it became necessary for my wife to live in a uniformly warm climate, so we travelled in Southeast Asia and eventually wound up on Guam, where I was Head of the Monitoring Division of the local EPA. Having weathered Supertyphoon Pamela, we decided in June 1976 to move to Hawaii, where I am in Environmental Health and Safety at the University of Hawaii, Manoa Campus.

COX, Charles S. - 12926 Via Grimaldi, Del Mar, CA 92014

Maryruth (spouse) and five children: Susan, Caroline, Valerie, Ginger, Joel.

Professor, SIO.

GRADUATED: 1955. FIELD OF SPECIALIZATION: Physical Oceanography.

Still studying fascinating medium in the same place!

CROMWELL, John E. - c/o SABCO, PO Box 88, Dhahran Airport, Dhahran, Saudi Arabia,
attn: J. Fletcher - Project 11967.

Judith (spouse) and two children: John Jr., and Sarah.

Resident Manager - Jubail, S.A., Senior Oceanographer, Tetra Tech., Inc.,
660 N. Rosemead Blve., Pasadena Calif. 91107.

GRADUATED: 1974. FIELD OF SPECIALIZATION: Marine/Coastal Geology.

Worked for Dames & Moore 1974-77 as staff geologist and oceanographer doing field work in Eastern US and abroad. Joined Tetra Tech in March 1977 to manage field survey teams in Saudi Arabia at Yanbu (Red Sea) and Jubail (Arabian Gulf). Now living in Jubail as Resident Manager for Marine and Atmospheric Surveys being performed for royal commission.

CROZIER, George F. - Rt 2 Box 258 W, Mobile, AL 36609

Deanna K. Crozier, M.D. (spouse) and three children: Rick, Holly and Bill.

Director, Marine Environmental Sciences Consortium, Dauphin Island Sea Lab, Dauphin Island, AL 36528.

GRADUATED: 1966. FIELD OF SPECIALIZATION: Marine Biology (Biochemistry).

Assist. Prof. Biology - Univ. of Southern Miss., 1968. Asst. Director Univ. of Alabama system Marine Science Program. 1973 Director UAMSP and Associate Director of Marine Environmental Sciences Consortium also Assistant Professor of Marine Science at Univ. of Alabama in Birmingham. 1976 - Executive Director, MESC; Associate Professor of Biochemistry Univ. of South Alabama College of Medicine.

CURRAY, Joseph R. - 2734 Bordeaux Ave, La Jolla, CA 92037

Joyann (spouse) and three children: Michael, Steven, and Donna

Professor, Chairman GRD, SIO.

GRADUATED: 1959. FIELD OF SPECIALIZATION: Marine Geology.

I never left the Institution, but stayed on in the research series and more recently in the faculty.

DAHLEN, F. A. - 247 Western Way, Princeton, NJ 08540

Elisabeth (spouse)

Associate Professor, Dept. of Geological and Geophysical Sciences,
Princeton University, Princeton, NJ

GRADUATED: 1969. FIELD OF SPECIALIZATION: Solid earth geophysics.

1969-70 NSF post-doctoral Department of Geodesy and Geophysics, Cambridge University, Cambridge, England; 1970-76 Assistant professor at Princeton; 1976-present Associate professor at Princeton; 1977-78 sabbatical leave at Institut de Physique du Globe, Université Pierre et Marie Curie, 75230 Paris Cedex 05, France.

DANA, Thomas F. - Rt. 3, Box 59 A, Lambertson, Ms. 39455

Sue Ann (spouse)

GRADUATED: 1975. FIELD OF SPECIALIZATION: Biological oceanography.

Developing a farmstead for the production of organic fruit and vegetables.

DARLEY, W. Marshall - 190 Heidi Pl., Rt. 4, Athens, GA 30605

Priscilla (spouse) and two children: Rhea and Brent.

Associate Professor, Botany Dept., Univ of Georgia, Athens, GA. 30602
GRADUATED: 1969. FIELD OF SPECIALIZATION: Physiological ecology of salt marsh algae.

1969 - 1970: Post doc., Botany Dept, Univ. of Georgia. 1970 - 1977: Assistant Professor, Botany Dept., Univ. of Georgia. 1977 - present: Associate Professor, Botany Dept., Univ. of Georgia. Priscilla is the leader of a Girl Scout troop and has been active in family planning programs at the local and state level. We have acclimated to life in Georgia and enjoy it very much, especially summers at the Marine Institute on Sapelo Island, GA.

DAVIS, Bonnie (Jeanne) - 344 Funston Ave., San Francisco, CA 94115

Assistant Professor of Biology, San Francisco State Univ., 1600 Holloway Ave., San Francisco, CA 94132

GRADUATED: 1974. FIELD OF SPECIALIZATION: Marine Biology, Fish Physiology.

Been at SFSU since 1974 - teaching courses in Ecological Physiology and Comparative Metabolism. Spent summer, 1975 in Panama doing research on air-breathing fishes; spent November and December, 1976, aboard the Alpha Helix in the Amazon doing research on the blood properties of air-breathing fishes. Now am a Director (half time) for a mountain field station until Fall, 1978.

DAVIS, Charles C. - Box 15, Site 3, RRI, Paradise, Nfld., Canada A0A 2E0

Sally (spouse) and two children: Peter T. Davis and Betsy A. Gimble

Professor of Biology (retired) part time, Mem. Univ. of Newfoundland, St. John's Newfoundland, Canada, A1B 3X9

GRADUATED: 1940. FIELD OF SPECIALIZATION: Planktology, aquatic ecology.

Instructor, National Training School, Kansas City, Mo.; Biologist, Chesapeake Biol. Lab., Solomona, Md.; Instructor, Jacksonville Jr. Coll., Jacksonville, Fla.; Asst. Prof. Zoology, Univ. Miami, Coral Gables, Fla.; Asst., Assoc., Professor Biology, Case Western Reserve Univ., Cleveland, Ohio; Prof. Biology Memorial U. of Nfld.; Assoc. Ed. Internat. Ref. ges. Hydrobiology.

DETRICK, Robert S. Jr. - 27B Challenger Dr., Woods Hole, Mass. 02543

Sandy (spouse)

Post-doctoral research investigator, Woods Hole Oceanographic Inst., Woods Hole, Mass. 02543.

GRADUATED: 1974. FIELD OF SPECIALIZATION: Marine Geophysics.

I worked one year as an exploration geophysicist with Standard Oil Co. of California, Alaska Division in San Francisco. In the Fall of 1975 I enrolled in the Ph. D. program in marine geophysics of the Massachusetts Institute of Technology and the Woods Hole Oceanographic Institution. In June, 1978 I received my Ph.D. and I am presently a post-doctoral research investigator at WHOI.

DIENER, Douglas R. - 1104 Stratford Dr., Encinitas, CA 92024

Principal Investigator, 2nd environmental consultant, Marine Ecological Consultants, 533 Stevens Ave., D-27, Solana Beach.

GRADUATED: 1975. FIELD OF SPECIALIZATION: Marine Biology.

Post doc. - Smithsonian Tropical Research Institute, Panama. Environmental Consultant. Marine Review Committee studies on the impact of San Onofre Nuclear Generating stations on the soft subtidal benthos. Beach replenishment studies at Imperial Beach for Army Corp of Engineers. The near shore infaunal community and its response to perturbations; storms, sewage outfalls, LNG sits, etc.

DILL, Robert Floyd

Sonia (spouse) and three children: Robert F. Dill II, Katheryne L. Baslee, Marc and James.

Director, West Indies Lab. Fairleigh Dickenson Univ., PO Box 4010
Christiansted St. Croix, USUI 00820.

GRADUATED: 1964. FIELD OF SPECIALIZATION: Marine Geology.

Worked 4 and a half years for the National Oceanic and Atm. Ad. as science coordinator of programs using submersibles. One year spent working in the US Geological Survey at the Dept. of Interior in the Ocean Mining Adm. Became director of W.I.L. in 1975 and lived happily ever after.

DIVIS, Allan F. - 2001 32nd Dr. Wheat Ridge, COLO. 80033

Sally-Jo (spouse) and two children: Andrea Suzanne and Deborah.

Project Scientist.

GRADUATED: 1974. FIELD OF SPECIALIZATION: Earth Science.

Assistant Professor Colorado School Mines; Copper Porphyry Deposit Studies, Philippines; Mining-Engineering Geology for D'Appolonia Consulting Engineers.

DOBBS, Gary Hobson, III - P. O. Box 949, Lexington, Virginia 24450

Assistant Professor of Biology, Washington and Lee University, Virginia.
GRADUATED: 1975. FIELD OF SPECIALIZATION: Marine biology.

Ever since leaving SIO I have been an Assistant Professor of Biology at Washington and Lee University in the Shenandoah Valley of Virginia; Washington and Lee is my old undergraduate school. My research interests are in electron microprobe analysis of biological tissues and I have pursued this interest during the summers at the Duke University Medical School and the Pritzker School of Medicine of the University of Chicago. I live in a 125 year old log cabin on six acres of property at the base of the Blue Ridge Mountains and maintain the best traditions of the antebellum South.

DOUDOROFF, Peter - 3483 N. W. Crest Drive, Corvallis, Oregon 97330

Eve-Mary (spouse) and two children: Alexandra and Thomas.

GRADUATED: 1941. FIELD OF SPECIALIZATION: Fishery and water pollution biology (fish physiology, toxicology, and ecology).

Biologist (aquatic), State of Louisiana, Baton Rouge, LA., 1941-1945. U. S. Fish & Wildlife Service, Seattle, Wash., and Clackamas, Ore., 1946-47. U. S. Public Health Service, Cincinnati, Ohio, 1947-53, and Corvallis, Ore., 1953-65. Professor of Fisheries, Oregon State University, Corvallis, 1954-76 (Initially with courtesy appointment and rank, 1954-65). Professor Emeritus since 1977, also a consulting biologist in private practice since 1969. Divorced and remarried in 1948 (second wife, Elizabeth, died in 1967); remarried, 1968.

DUMAN, John G. - 1628 Dorward Dr., South Bend, IN 46556
Priscilla (spouse) and two children: Molly and Julie.

Asst. Professor, Univ. of Notre Dame, Biology Dept., Notre Dame, IN 46556
GRADUATED: 1973. FIELD OF SPECIALIZATION: Comparative and environmental
physiology, Low Temperature Adaptation, the Role of Macromolecular Anti-
freeze In Insect Low Temperature Tolerance.

I have been an Asst. Professor here at Notre Dame since leaving SIO.

DYMOND, Jack - 3835 N. W. Hayes Ave., Corvallis, Ore. 97330
Janice (spouse) and two children: Christopher and Timothy.

Associate Professor, School of Oceanography, Oregon State University,
Corvallis, Ore. 97331
GRADUATED: 1966. FIELD OF SPECIALIZATION: Geochemistry.

1966-69: Research Associate, Lamont-Doherty Geological Obser.; 1969: Asst.
Professor, Oregon State University; 1973: Associate Professor, Oregon State
University.

EBELING, Alfred W. - 806 Fawn Place, Santa Barbara, CA 93106
Janet (spouse) and two children: Sandra and Charles.

Professor, Department of Biological Sciences, Univ. of Calif., Santa
Barbara, CA.
GRADUATED: 1960. FIELD OF SPECIALIZATION: Ichthyology.

1960-1963: Asst. Professor, Yale Univ., 1963 - present: Assistant, Associate,
Full Professor UCSB.

EDMOND, John M. - 48 Beacon St., 10-R, Boston MA

Associate Professor, 54-1326 MIT, Cambridge, MA 02139.
GRADUATED: 1970. FIELD OF SPECIALIZATION: Chemical Oceanography.

Has been at MIT ever since leaving SIO.

ENNS, Majorie E. (Worthington) - 5390 152 St. R.R. 1, Surrey, B. C., Canada
Dr. Abram Enns (spouse) and four children: V3S4N7
Susan, Lois, Alan and Daniel.

Douglas College, 21500 57A St. Langley, B.C.
GRADUATED: 1957. FIELD OF SPECIALIZATION: Marine Microbiology.

1957-58: Pacific Biological Station, Nanaimo, B.C. - research on DDT and
Salmon. Married 1958. 1958-65: teaching high school and housewife.
1965-68: at Berkeley while husband at graduate school. 1968-69: Instructor,
McMaster Univ., Hamilton, Ont. 1969-71: Instructor, College of New Caledonia, Prince
George, B.C.. 1971-76: Housewife. 1976: Instructor, Couglas College, B.C. Live
on a 22 acre farm. Husband is an educator in Vancouver.

ENRIGHT, J.T. - 7561 Cabrillo Ave., La Jolla, CA 92037
Roswitha (spouse) and four children: Phillip, Kenneth, Paul, Patrick.

Professor, SIO.
GRADUATED: 1961. FIELD OF SPECIALIZATION: Ecology and Behavior.

1961-63: Post-Doc, Max-Planck Institut for Behavioral Physiology, Germany;
1963-66: Assistant Professor, UCLA; 1966-present: SIO.

ERMAK, Thomas H. - 1034 14th St., San Francisco, CA 94114

NIH postdoctoral fellow, UCSF - Department of Physiology, Univ. of Calif. at San Francisco, School of Medicine, San Francisco, CA 94143.
GRADUATED: 1975. FIELD OF SPECIALIZATION: Marine Biology.

1974-1975: postdoctoral fellow, Univ. Calif, Berkeley, in the laboratory of Dr. Richard M. Eakin; 1975-present, postdoctoral fellow, Univ. Calif., San Francisco, in the laboratory of Dr. S.S. Rothman; 1976-present, NIH post-doctoral fellow, UCSF.

EWING, Gifford C. - 9470 La Jolla Shores DR., La Jolla, CA 92037

Winifred (spouse) and eight children: Alexandra, Frances, Beuton, Jane, Eva, Laurence, Deborah and Sabra.

GRADUATED: 1952. FIELD OF SPECIALIZATION: Physical Oceanography, mostly from aircraft and satellites.

Defected to Woods Hole in 1964; married Winifred Ely 1965, conducted seminar on Oceanography from space in Woods Hole 1964. Spent winter at MIT correcting everyone's spelling. Spent next 14 years trying to get oceanography off the ground. Headed up an aerial survey of Eastern Mediterranean and another of Caribbean and Gulf of Mexico. Traveled to Germany, England, Italy, Malta and Israel. In 1978 we set out on a boat trip up the Nile but ended up in Mercy Hospital with a myocardial infarction. Moving back to Scripps - this time for keeps. We feel we are sitting in a tub of butter.

FARRELL, W. E. - 5923 Orchard Ave., Richmond, CA 94804

Mary (spouse) and two children: James and Emily.

Asst. Professor, Dept. Materials Science and Mineral Engineering, UC Berkeley. Systems, Science and Software, P. O. Box 1620, La Jolla Ca 92038.
GRADUATED: 1970. FIELD OF SPECIALIZATION: Geophysics.

1970-75 Cooperative Institute for Research in Earth Sciences, Univ. of Colorado, 1975-78 Asst. Prof., Dept. Materials Sci. and Mineral Eng., UC Berkeley.

Interests: earth tides, glacial uplift, applied seismology, IDA seismograph network.

FISHER, Robert Lloyd - 5050 La Jolla Blvd., P-H, San Diego, CA 92019

SIO, Assoc. Director, A-015.

GRADUATED: 1957.

FISHER, Frederick H. - 3726 Charles St., San Diego, CA.

Julie (spouse) and four children: Bruce, Mark, Keith, and Glen.

Research Oceanographer, Marine Physical Laboratory, SIO.

GRADUATED 1957. FIELD OF SPECIALIZATION: Acoustics and Physical chemistry.

Research Fellow, Harvard Univ. 1957-58; Director of Research, Havens Industries, 1963-64; Professor and Chairman, Physics Dept. Univ. of Rhode Island 1970-71.

FLEMING, Richard H. - 4549 West Laurel Drive NE, Seattle, Washington 98105
Alice (spouse) and three children: Elizabeth Ann, Michael Howell and Richard Seaman.

Professor, Dept of Oceanography, University of Washington, Seattle, Washington. 98195.
GRADUATED: 1935. FIELD OF SPECIALIZATION: Descriptive and applied oceanography.

Instructor SIO. 1941-46:

1935-36: Post-doctoral at SIO. 1936-41: /Oceanographer to Assistant Director, UCDWR at Point Loma. 1946-1951: Director, Division of Oceanography, US Navy Hydrographic Office. 1951-present: Professor, Dept. of Oceanography, Univ. of Washington, Chairman 1951-1968, 1974-present: Prof. of Marine Studies, Institute for Marine Studies, Univ. of Washington.

FOLSOM, Theodore Robert - 8625 La Jolla Scenic (No) La Jolla, CA 92037
Edith (spouse) and two children: Polly, Morris.

GRADUATED: 1952. FIELD OF SPECIALIZATION: Oceanography.

Specialized in measurement and study of nuclear contaminations in the ocean, especially floral fallout, and especially in the N. Pacific. Retired in 1975, but have much more yet to do!

FORD, Richard F. 4204 Point Loma Ave., San Diego, CA 92107.
JoAnn (spouse) and two children: Joanna and Michael.

Director, Center for Marine Studies and Professor of Biology, SDSU. Center for Marine Studies, San Diego State University, San Diego, CA 92182.

GRADUATED: 1965. FIELD OF SPECIALIZATION: Biological oceanography; thesis research in the area of benthic marine ecology with Professor E. W. Fager.

1964-present, faculty member in the Ecology Program, Department of Biology, San Diego State University; 1971-73, Coordinator, Biology Graduate Program, SDSU; 1974-present, Director, Center for Marine Studies, SDSU; Conducting research on population ecology of benthic marine invertebrates, ecological effects of thermal effluent, and crustacean aquaculture.

FOTHERINGHAM, Nick - 8411 Greenbush, Houston, TX 77025
Anne Kathleen (spouse) and two children: Craig and Jill.

Project Marine Ecologist, Dames & Moore, 2020 North Loop West, Suite 200, Houston, TX 77018

GRADUATED: 1970. FIELD OF SPECIALIZATION: Marine Ecology.

1970-77 Assistant Professor of Biology, Univ. of Houston, 1977 - visiting instructor in Marine Sciences. Univ. of Texas; 1977-present Project Marine Ecologist, Dames & Moore Consultants.

FRANCHETEAU, Jean - Deolen Locmaria Plouzane, 29n France.

Martha Born Larrick (spouse) and three children: Isaac, Emmanuele and Sarah

Centre Oceanologique De Bretagne, BP 337, 29273 Brest Cedex, France.

GRADUATED: 1970. FIELD OF SPECIALIZATION: Marine geophysics.

Research in marine geophysics at COB from 1970 to now. My work from 1970 to 1973 has been mainly on plate tectonics and I have co-authored a book on the subject. I have since shifted my research to the detailed study of processes at oceanic spreading centers, an important plate boundary. I have participated on the first dives on the Mid-Atlantic Ridge (summer 1973) and on the East Pacific Rise (February-March, 1978). I am since the fall of 1976 the head of the geology and geophysics group at COB.

FRITZSCHE, Ronald A. - 2235 Lee Loop, Oxford, MS 38655
Edith (spouse) and one child: Karl J.H.

Assistant Professor of Biology and Marine Biology, Liaison Professor.
Department of Biology, University of Mississippi, University, MS 38677
GRADUATED: 1976. FIELD OF SPECIALIZATION: Marine Biology/Ichthyology.

Worked as Research Associate at Chesapeake Biological Laboratory Solomons,
MD until Aug 1977, before coming to "Ole Miss". While there, I authored one
volume on the larval fishes of the Mid-Atlantic.

FULLER, Gerald M. - 7682 Chantilly Circle, Galveston, TX 77550
Edna (spouse) and three children: Mark, Kevin, Tracy.

Assoc. Professor, Genetic and cell biology. Dept. Hum. Biology, Chem.
and Genetics, Univ. of Texas Medical Branch, Galveston, TX 72551.
GRADUATED: 1968. FIELD OF SPECIALIZATION: Marine Biology/biochemistry.

1968-70: Postdoctoral fellow, Mass. Inst. Tech, 1970-present faculty of
Univ. of Texas Med. School.

GABALDON, Diana J. - Box 667, Apt. A-228, 3600 Chestnut St., Philadelphia, PA.
19104
Douglas Watkins (spouse)

GRADUATED: 1975. FIELD OF SPECIALIZATION: Marine Biology.

Sept. 1975 -77, Ph.D. program at Northern Arizona University, working on nest-
site selection in Pinon Jays. Currently in Philadelphia, looking for a job.

GALLAGHER, Brent - 1516 Avon Way, Honolulu, HI 96822.
Vicki (spouse) and two children: Dawn and Brian.

Associate Professor, Dept Oceanography, Univ Hawaii, Honolulu, HA 96822.
GRADUATED: 1965. FIELD OF SPECIALIZATION: Physical Oceanography.

Have been in present position since leaving SIO.

GIBBS, Ronald John - Milton, DE 19968.
Joanne (spouse) and one daughter: Paula Susanne.

Professor, College of Marine Studies, University of Delaware, Lewes and
Newark, DE.
GRADUATED: 1965.

GOLIK, Abraham - 19 Ha'assif St., Haifa, Israel.
Nomi (spouse) and two children: Tamar, and Ronit

Marine Geologist, Israel Oceanographic Inst., PO Box 1793, Haifa, Israel.
GRADUATED: 1965. FIELD OF SPECIALIZATION: Coastal geology.

Worked in Shell Development Co. Houston, Texas in 1966-67 on ecology of
Foraminifera; between 1967 and 1973 as chief scientist and since 1973 as a
marine geologist in Israel Oceanographic and Limnology Research. Presently
working on coastal geology.

GOMEZ, Dr. Edgardo D. - 275 Menlo Road, Pasay City 3129, Philippines.
Phoebe Abaya (spouse) and one child: Jose Edgardo Jr.

Director and Associate Professor of Marine Biology, Marine Sciences Center,
University of the Philippines, Diliman, Quezon City 3004, Philippines.
GRADUATED: 1973. FIELD OF SPECIALIZATION: Marine Biology.

From SJO I joined the Univ. of the Philippines as an assistant professor in June 1974. Additionally I was assigned the task of setting up the Marine Sciences Center, a new unit of the university. In the fall I was married and my wife bore me a son the following year. In 1976 I was promoted in rank to associate professor. At present I am conducting research on the coral resources of the Philippines and on the reproductive biology of sea urchins. The Center has grown from a staff of one to a present total of fifty.

GORDON, R. Lee - 61 Wilbur Ave., Arlington, MA 02124

MIT, Cambridge, MA 02139
GRADUATED: 1977. FIELD OF SPECIALIZATION: Physical oceanography.

Post-doctoral for Carl Wirnsch.

GORDON, Louis I. - 2941 NW Ashwood, Corvallis, OR 97330
Jacqueline I. (spouse) and three children: Judith E., De Ann and Justin.

School of Oceanography, Oregon State University, Corvallis, OR 97331.
GRADUATED: 1953. FIELD OF SPECIALIZATION: Chemical oceanography.

Ph.D. in chemical oceanography at O.S.U., 1972. Research and teaching in chemical oceanography since. Research on marine geochemistry of trace gases, descriptive oceanography of Pacific Northwest waters and Antarctic.

GREGG, Michael C. - 6741 81st Ave, S.E., Mercer Island, Wash., 98040.
Carol (spouse) and three children: Stephanie, Garrett, Wakefield.

Research Associate Professor, Applied Physics Lab., 1013 N.E. 40th St.,
Seattle, Wash. 98095.

GRADUATED: 1971. FIELD OF SPECIALIZATION: Physical Oceanography.

I remained at Scripps on the research staff for 3 years, taking observations with the instrumentation developed during dissertation research. Since then I have held a joint position between the Applied Physics Lab and the Dept. of Oceanography.

GREENHOUSE, John P. - Conestogo, Ontario, Nobino, Canada.
Jane (spouse) and four children: Jeremy, Kate, Alden, Benjamin.

Ass. Professor, Department of Earth Sciences.
GRADUATED: 1972. FIELD OF SPECIALIZATION: Earth Sciences (Geophysics).

I have been at the Department of Earth Sciences at the University of Waterloo since graduation. There I teach applied geophysics, carry out research in ground water geophysics and geomagnetic variations, and ski (winter) or play tennis (summer). Currently on sabbatical at Pacific Geoscience Centre, Victoria, B.C.

GREENSLATE, J. - 7501 High Ave., La Jolla, CA 92037.

Carolyn (spouse) and three children: Randal, Kevin and Barry.

Senior Scientist, Science Applications Inc., PO Box 2351, La Jolla, CA. 92038.
GRADUATED: 1975. FIELD OF SPECIALIZATION: Marine Chemistry/Oceanography.

Joined Science Applications Inc. as an ocean scientist.

GRENNES, Oivind - P. O. Box 100, N-3191 Horten, Norway.

Berit (spouse) and five children: Gorm, Siriann, Nina, Katya, Henno.

Norwegian Defence Research Establishment, P. O. Box 115, N-3191, Horten, Norway.

GRADUATED: FIELD OF SPECIALIZATION: Physical Oceanography, hydro-acoustics, ASW.

With NDRE all the time. Main activities: military oceanography, Arctic operations, ambient noise, buoy technology.

GRIGG, Richard W. - 46-365 Kumoo Loop, Kaneohe, Hawaii 96744.

Carol (spouse) and three children: Raina, Julie and Romy.

Assoc. Marine Biologist, Univ. of Hawaii, Hawaii Institute of Marine Biology, P. O. Box 1346, Kaneohe, Hawaii 96744.

GRADUATED: 1970. FIELD OF SPECIALIZATION: Ecology.

1970-75: Assistant Marine Biologist, Univ. of Hawaii. 1975-76: Assoc. Program Director, National Sea Grant Program NOAA, Washington, D. C.. 1977-1978: Associate Marine Biologist, Univ. of Hawaii, Acting Assoc. Director, Univ. of Hawaii, Sea Grant Program.

GROVES, Gordon W. - 47-321 Mawaena St., Kaneohe, Hawaii 96744

Terab'ata (spouse) and twelve children: Laurence, Charela, Donnalio, Conrad, Elena, William, Taberannao, Wanda, Curtis, Marcus, Sergio, Tetaake.

Professor, Dept. of Oceanography, U. of Hawaii, Honolulu 96822.

GRADUATED: 1955. FIELD OF SPECIALIZATION: Physical Oceanography, waves, tides.

Universidad Nacional de México, 1959-61, IGPP La Jolla, 1962-64, University of Hawaii 1964-present: Universidad Nacional de México 1968, Indonesian Institute of Marine Science 1970-71, Universiti Sains Malaysia 1974-75.

GUZA, Robert T. - 5438 Lodi Pl., San Diego, CA

Sally (spouse)

Assistant Professor of Oceanography, Shore Processes Lab, SIO A-009

GRADUATED: 1974. FIELD OF SPECIALIZATION: Near shore Processes, surf zone fluid mechanics.

Postdoctoral fellowship at Dalhousie Univ., 1974-75. Asst. Prof Oceanography (physical) at SIO.

HARGENS, Alan R. - 1103 Sea Village Drive, Cardiff, CA 92007
Guvvor (spouse) and two children: Tor and Lars.

Research Physiologist, V-151, University of Calif, and V. A. Hospital,
San Diego, CA 92161

GRADUATED: 1971. FIELD OF SPECIALIZATION: Physiology

1978-present: Associate Research Physiologist, Dept. of Surgery/Orthopedics,
School of Medicine, UCSD. 1975-present: Research Physiologist, Dept. of
Medicine and Surgery, School of Medicine, UCSD and V. A. Hospital, San Diego.
1975: Assistant Research Bioengineer, Dept. of AMES/Bioengineering, School
of Medicine, UCSD. 1974-75: American Heart Association Advanced Research
Fellow, Dept. of AMES/Bioengineering, School of Medicine, UCSD. 1973:
American HEART Association Research Fellow, Dept. of AMES/Bioengineering,
School of Medicine, UCSD. 1972: Visiting Assistant Professor, Dept. of
Zoophysiology, University of Aarhus, Aarhus, Denmark. 1971-72: N.S.F.
NATO Postdoctoral Fellow, Institute of Biological Chemistry A, University of
Copenhagen, Copenhagen, Denmark.

HARTWICK, Robert F. - 1/5 Gruner Court, Mt. Louisa, Townsville, Queensland,
Australia.

Lecturer in Marine Biology, Dept. of Marine Biology, James Cook University
of North Queensland, Townsville, QLD 4811, Australia.

GRADUATED: 1975. FIELD OF SPECIALIZATION: Marine Behavioral Ecology.

Jan. - Mar. 1975: Postdoctoral Researcher in zooplankton ecology - Food Chain
Research Group - IMR/SIO. May 1975 - Jan. 1977: Alexander von Humboldt
Foundation Postdoctoral Fellow - research on mechanisms of navigation in homing
pigeons - Tübingen, W. Germany and Pisa, Italy. Feb. 1977-present: Lecturer
in Marine Biology, James Cook University of North Queensland, Australia -
research on the behavioral ecology of the "Sea-Wasp" jellyfish, Chironex fleckeri,
studies of the distribution and migration of tropical neritic zooplankton.

HARTWIG, Eric O.

Sheryl (spouse) and three children: Tammie, Robert, and Colin.

Marine Ecological Consultants, 533 Stevens Ave., Suite D-27, Solana Bch,
Calif. 92075.

GRADUATED: 1974. FIELD OF SPECIALIZATION: Marine Microbiology.

Spent a year at the Scottish Marine Biological Association, Obun, Scotland,
and the last three years at the Chesapeake Bay Institute, Johns Hopkins Univ.
Have just joined Marine Ecological Consultants.

HAURY, Loren R. - 7 Coleridge Drive, Falmouth, Mass. 02540.

Jan (spouse) and one child: Eric.

Assistant Scientist, Dept. Biology, Woods Hole Oceanographic Institution,
Woods Hole, Mass. 02543

GRADUATED: 1973. FIELD OF SPECIALIZATION: Zooplankton.

Two year postdoctoral WHOI followed by appointment to staff in February 1976.

HAUXHURST, James D. - 739 Carver Lane, Menasha, WI. 54952.

Asst. Professor (botany, zoology, microbiology), Biology Dept., Univ. of Wisconsin Center, Fox Valley, Midway Rd., Menasha, WI. 54952.
GRADUATED: 1975. FIELD OF SPECIALIZATION: Marine Microbiology.

One year post-doctoral research with Dr. Ronald Atlas, Univ. of Louisville, Louisville, KY, project: numerical taxonomy of bacteria from the arctic ocean and the Gulf of Alaska. Two years as instructor of biology and microbiology at the Univ. of Wisconsin Center-Fox Valley, Menasha, WI.

HAYES, Willis B. - Rt. 1, Box 271, Booger Hill Road, Danielsville, Georgia. 30646
Sondra (spouse)

Research Associate, Geology Department, Univ. of Georgia, Athens, Georgia.
GRADUATED: 1969. FIELD OF SPECIALIZATION: Biological Oceanography, Marine Ecology.

I had a post-doctoral year with the Institute of Marine Resources, then joined the faculty of the Biology Department at the American University of Beirut in Lebanon. I taught there for three years, then returned to the states and took a research appointment with the Zoology department at the University of Georgia. In 1976, I switched to the Geology department at U.Ga. where I am now pursuing interests in paleontology, oceanography, geochemistry, and computer-assisted instruction.

HEATH, G. Ross - 35 Tanglewood Tr., Narragansett, RI 02882
Lorna (spouse) and two children: Amanda and Alisa.

Professor of Oceanography, Grad. School of Oceanography, Univ. of Rhode Island, Kingston, RI 02881
GRADUATED: 1968. FIELD OF SPECIALIZATION: Marine geology/geochemistry.

Assistant, Associate Professor at Oregon State Univ., 1969-74; married 1972; Associate, Full Prof. at Univ. Rhode Island, 1975-present. Two children, born 1974 and 1975. Heavily into sediment geochemistry, assessment of sub-seabed disposal of radioactive wastes. Formation of manganese nodules. Slowly disappearing under the flood of paperwork and plane tickets.

HEINBOKEL, John F. - 6177 Fair Oak Ave., Baltimore, MD 21214

Associate Research Scientist, Chesapeake Bay Institute, The Johns Hopkins Univ., Baltimore, MD 21218.
GRADUATED: 1977. FIELD OF SPECIALIZATION; Biol. Ocean, Food Chain dynamics, micro-zooplankton.

March 1977 - Aug. 1977: Assistant Research Sci., CBI, JHU.
Sept. 1977 - present: Associate Research Sci., CBI, JHU.

HEMMINGSSEN, Barbara Bruff - 1267 Via Barranca, La Jolla, CA 92037.
Eduard (spouse) and one child: Grete.

HEMMINGSSEN, Barbara Bruff continued

Assistant Professor, Dept. of Microbiology, San Diego State University,
San Diego, CA 92182.
GRADUATED: 1971. FIELD OF SPECIALIZATION: Marine Microbiology.

I spent one year in the Ecology Laboratory of Aarhus University, Aarhus,
Denmark and then worked half time as a lecturer in Microbiology at San
Diego State University while Grete was little. Now I am full-time and active
in teaching (general microbiology and marine microbiology) and in research.

HERRING, James R. - 6803 Monlaco R., Long Beach, CA 90808
Kathy (spouse) and two children: Shannon and Kyle.

Associate Environmental Specialist, Southern Calif. Coastal Water Res.
Proj., 1500 E. Imperial Hwy., El Segundo, CA 90245.
GRADUATED: 1977. FIELD OF SPECIALIZATION: Marine Geochemistry.

Deep Sea Drilling Project, UCSD; teaching at UCSD Summer Session; present position
since August, 1977.

HICKEY, Barbara M. - 25419 SE 46th, Enumclaw, WA 98022
Thomas A. Stumpf (spouse)

Res. Asst. Professor, Univ. of Washington, Seattle, WA 98195
GRADUATED: 1975. FIELD OF SPECIALIZATION: Physical oceanography.

Became Research Asst. Professor in 1973; began studies of processes on the
Washington-Oregon continental shelf; presently am carrying on two field
programs, measuring currents and winds - one to study the seasonal variation
of the California Undercurrent off Oregon; another to study the effect of a
canyon on shelf circulation. Recently moved from Seattle to a 20 acre dairy
farm where we hope to pursue an alternative life-style.

HICKS, Steacy D. - 6857 Grande Lane, Falls Church, Virginia 22043.
Lynn (spouse) and three children: Steve, Carol, and Beth.

Physical Oceanographer, National Ocean Survey, NOAA, Rockville, Maryland 20852.
GRADUATED: 1952, M.S. FIELD OF SPECIALIZATION: Physical oceanography;
long period sea-level variations and tides.

Instructor and Ass't Professor of Physical Oceanography, Univ. of Rhode Island,
1952-62; physical oceanographer, 1962-65; Chief, Oceanography Division, 1965-70;
Chief, Oceanographic Research Group, 1966-71; Physical Oceanographer, 1971 to
present, National Ocean Survey, NOAA; also Assoc. Professorial Lecturer in
Oceanography, The George Washington University, 1966 to present. Science and
Technology Fellowship Program at Geophysical Fluid Dynamics Lab., NOAA, 1964-65;
Senior resident course, U.S. Naval War College, 1969-70. U.S. Department of
Commerce Silver Medal for research in physical oceanography, 1977.

HIROTA, Dr. Jed - 1424 Akihoa Pl, Kailua HI 96734
Gail (spouse) and one son: Jed Christopher Hirota.

Assistant Professor Oceanography and Marine Biology, Univ. of Hawaii,
P.O. Box 1346, Kaneohe, HI 96744
GRADUATED: 1973. FIELD OF SPECIALIZATION: Zooplankton, plankton ecology.

Spring - Summer 1973 INR, UCSD Post-doctoral. Fall 1973 - 1974 Hawaii Inst.
Mar. Biol. Post-doctoral. Fall 1974 - present Asst. Prof. Ocean. and Mar. Biol.

HOESE, Douglass Fielding - 1 Mitchell St., Putney, NSW 2112 Australia

Curator of Fishes, The Australian Museum, 6-8 College St., Sydney, NSW 2000, Australia.

GRADUATED: 1971. FIELD OF SPECIALIZATION: Ichthyology.

Employed at the Australian Museum since April, 1971. Currently working on the taxonomy of Australian and Indo-Pacific fishes.

HOLLAND, William R. - 1525 Wildwood Lane, Boulder, CO 80303

Ellen (spouse) and three children: Carol, Marika, and Tanya.

Research Oceanographer, Head of Oceanography section, National Center for Atmospheric Research, P.O. Box 3000, Boulder, Colo. 80303.

GRADUATED: 1966. FIELD OF SPECIALIZATION: Physical Oceanography.

1966-67: Postdoctoral Fellow, Cambridge University. 1967-73: Research Oceanographer - NOAA's Geophysical Fluid Dynamics Laboratory, Princeton University, N.J.. 1973-present: Research Oceanographer - National Center for Atmospheric Research, Boulder, Colorado.

HOLLOWAY, Greg - 1708 Dora Dr., Cardiff, CA 92007

One child: Steve.

Associate, La Jolla Inst., Box 1434, La Jolla, CA 92038.

GRADUATED: 1976. FIELD OF SPECIALIZATION: Physical Oceanography.

Sept. 1976 - Sept. 1977: post-doctoral National Ctr. for Atmos. Research, Boulder, Colo., Sept. 1977 - Dec., 1977: visitor Woods Hole Ocean. Inst.

HOURSTON, Alan S. - 2948 Hammond Bay Rd., Nanaimo, B.C. Canada, V9T 1E2

Barbara (spouse) and five children: Kim, Ian, Wendy, Roy, Peter.

Herring Program Head, Pacific Biological Station, Nanaimo, B.C. Canada, V9K 5K6

GRADUATED: 1956. FIELD OF SPECIALIZATION: Oceanography (Fisheries).

Conducted, administered and advised on fisheries research for the government of Canada Department of Fisheries at Nanaimo, B.C. (1956 - 1966), St. Johns NFLD (1966 - 1968), Nanaimo (1968-1972), Ottawa (1973) and Nanaimo (1973-present). Specialty - population biology of herring.

HOWARD, Francis Joseph David

- Suite 3, 4900 Fifth Place Northeast,

Salem, Oregon, 97303.

Teresa Patricia (spouse) and nine children: Peggy, Kitty Anne, Clare, Constance, Anthony Joseph, Dolores, Mary Madeleine, Patrick Francis, Francine.

Oceanographer

GRADUATED: 1959. FIELD OF SPECIALIZATION: Marine Photometry.

1963: University of San Diego, College for Women. 1968: San Diego State College.

HURLEY, Ann C. - 19221 Karen Dr., Salinas, CA 93907.

Asst. Professor, Moss Landing Marine Laboratories, Moss Landing, CA 95039
GRADUATED: 1972. FIELD OF SPECIALIZATION: Biological Oceanography.

1972-73 Postgraduate research Neuroscientist, UCSD. 1973-74: Lecturer, SDSU.
1974-75: National Research Council Associate, National Marine Fisheries Service.
1976-present: Assistant Professor, Moss Landing Marine Laboratory

HURLEY, Dr. Robert J. - 529 Trout Gulch Rd.,
Dorothy (spouse) and two children: Denise and Gretchen.

Professor, Dept. of Geology, San Jose State University and Director,
Moss Landing Marine Laboratories, Moss Landing, CA.
GRADUATED: 1960. FIELD OF SPECIALIZATION: Seafloor geomorphology, etc.

IVERS, William D. - 6188 Cleves Warsaw, Cincinnati, OH 45238
Mary Ellen (spouse) and three children: Carrie, Billy and Katie

Product Manager, CINCOM Systems, Inc., 2300 Montana Ave., Cincinnati,
OH 45211
GRADUATED: 1975. FIELD OF SPECIALIZATION: Applied ocean science.

Have been designing and selling data processing systems since graduation.

JACOBS, Woodrow C. - 6309 Bradley Blvd., Bethesda, MD 20034
Dorothy Q. (spouse) and one daughter: Mrs. Marilyn Ott, and two grandchildren.

6000 Executive Blvd., Rockville, MD 20852
GRADUATED: 1948. FIELD OF SPECIALIZATION: Oceanography (marine meteorology).

I am an "old timer" who first matriculated at Scripps forty-three years ago (in 1935 when the director was T. Wayland Vaughan) and got my Ph.D. after the war in 1948, 30 years ago -- so I have had a varied and complicated career since that time. I first visited Scripps in 1917 (when I was 8 years old). It was then a Biological Institute but, for obvious reasons, I was not allowed to matriculate.

JEFFERY, Lela Mae - Rt. 4, Box 62P, Bryan, TX 77801.

Dept. Oceanography, Texas A&M University, College Station, TX 77843.
GRADUATED: 1951 (M.S.). FIELD OF SPECIALIZATION: Chemical Oceanography.

I came to the new Dept. of Oceanography at Texas A&M in Sept., 1951, and worked as a chemical technician until 1958, then worked for Jersey Production Research Company until 1961. Then I returned to Texas A&M and obtained my Ph.D. in 1969. I became a faculty member in the Department that year.

JOHNSON, David A. - 9 Alderberry Lane, E. Falmouth, Mass. 02536.
Diane (spouse).

Associate Scientist, Woods Hole Ocean Inst., Woods Hole, Mass. 02543
GRADUATED: 1971. FIELD OF SPECIALIZATION: Marine Geology.

Post-doctoral Investigator (WHOI), 1971-72. Assistant Scientist (WHOI), 1972-75.
Associate Scientist (WHOI), 1975-present.

JOHNSON, Leonard E. - 5500 Holmes Run Pkwy, Alexandria, VA 22304

Earth Sciences Div., National Science Foundation, Washington, D. C. 20550
GRADUATED: 1971. FIELD OF SPECIALIZATION: Geophysics.

Visiting Fellow, Cooperative Institute for Research in Environmental Sciences (CIRES), Univ. of Colorado, 1971-73. Visiting Assistant Professor, Dept. of Geology and Geophysics, UC Berkeley, 1973-74. Associate Program Director, Geophysics Program, National Science Foundation 1974-present.

JOHNSON, Robert (Karl) - 9426 S. New England Ave., Oak Lawn, IL 60453
Patricia Helen (Peyton) - (spouse)

Associate Curator of Fishes, Division of Fishes, Field Museum of Natural History, Chicago, Illinois 60605.

GRADUATED: 1972. FIELD OF SPECIALIZATION: Marine biology.

Oct. 1971-72: Research Associate, Dept. of Fisheries, Chesapeake Biological Laboratory, Univ. of Maryland, Solomons, MD 20688. Oct. 1972-Sept. 1975: Assistant Curator, Sept. 1975-present, Associate Curator of Fishes, Field Museum of Natural History, Chicago, Adjunct faculty positions: Univ. of Chicago, Northern Illinois University.

JOHNSON, Thomas C. - 575 Desnoyer Ave., St. Paul, Minnesota 55104.
Chris (spouse) and two children: Heidi and Ryan.

Assistant Professor, Dept. of Geology and Geophysics, Univ. Minnesota, Minneapolis, 55455.

GRADUATED: 1975. FIELD OF SPECIALIZATION: Marine sediments.

Post-doc at SIO, Jan. - Sept. 1975; Asst. Prof., U. of Minn. Sept. 1975-present.

JOKELA, Alice Tang. - 7814 Caminito Raposa, San Diego, CA. 92122
Arthur (spouse) and two children: Arne Hon and Mikko Yu.

Co-director, WaterLife West, Inc., Adjunct Professor of Microbiology, San Diego State Univ., CA. PO Box 732, Del Mar, CA 92014.

GRADUATED: 1969. FIELD OF SPECIALIZATION: Marine Biology.

Faculty, Dept. of Microbiology, San Diego State Univ. 1969-present (adjunct).
Visiting Faculty member, Institute of Oceanography, National Taiwan Univ. (1973).
Biologist, James Montgomery Consulting Engineers, Inc. 1977-78.

JONES, Jim - 4065 Black Point Rd., Honolulu, HI 96816
Jane (spouse) and two children: Lisa and Lanl.

Director, National Energy Laboratory of Hawaii, 2540 Dole St., Holms 40, Honolulu, HI 96822.

GRADUATED: 1969. FIELD OF SPECIALIZATION: Physical Oceanography.

First year worked with the Southern Calif. Coastal Water Research Group developing study plans for the inshore portion of the California Current. Then worked with the NORPAX Hawaii group. In 1974 I joined with John Craven to develop ocean energy studies in Hawaii and to establish an ocean side laboratory site with easy access to cold deep sea water for research and development. This site, the National Energy Laboratory of Hawaii, is the location of biological fouling and corrosion in connection the development of the Ocean Thermal Energy Conversion concept.

JUDKINS, David C. - P.O. Box 401, Upton, NY 11973.
Dolores (spouse).

Oceanographic Sciences Division, Brookhaven National Laboratory, Upton,
NY. 11973.

GRADUATED: 1972. FIELD OF SPECIALIZATION: Biological Oceanography.

From late 1972 through late 1974, I was a post-doctoral investigator at the Woods Hole Oceanographic Institution doing research on the biogeography of mesopelagic decapod crustaceans in the Atlantic ocean. Beginning in 1974 and continuing to the present, I have been part of a group at Brookhaven National Laboratory studying continental shelf ecosystems off the north-eastern United States. My research within the Brookhaven program has focused on the vertical distribution and migratory behavior of zooplankton in relation to food concentration and other variables in the water column.

JUMARS, Peter A. - 9726 45th Ave. NE, Seattle, WA 98115
Mary Jane Perry (SIO '74) (spouse).

Assistant Professor, Department of Oceanography, University of
Washington, WB - 10, Seattle, WA 98115.

GRADUATED: 1974. FIELD OF SPECIALIZATION: Biological Oceanography (Benthic).

1974-75: Post-doctoral Research Associate Allan Hancock Foundation, University of Southern California. 1975-present: Assistant Professor, Department of Oceanography, University of Washington.

KAMYKOWSKI, Dan - 257 North Houston, Aransas Pass, Texas.
Sara-Joan Zentara (spouse) and one child: Zachary Daniel

Assistant Professor, Marine Science Lab at Port Aransas, Univ. of Texas,
Port Aransas, Tx 78373

GRADUATED: 1973. FIELD OF SPECIALIZATION: Phytoplankton Ecology.

1973-75: Research Associate, Dalhousie Univ., Halifax, N.S.
1975-present: Assistant Professor, University of Texas Port Aransas, TX.

KEENE, J. B. - 345 Station St., Carlton North, Victoria, Aust.
Judith (spouse) and one child: Emma.

Lecturer, Department of Geology, University of Melbourne, Parkville,
Victoria Australia.

GRADUATED: 1976. FIELD OF SPECIALIZATION: Sedimentology.

1977-University of Paris - Research Associate.

KENYON, Kern E. - 13772 Mercado Dr., Del Mar, Calif. 92014
Julie (spouse) and two children: Douglas and Pamela.

Assistant Research Oceanographer, NORPAX A-030, SIO.

GRADUATED: 1966. FIELD OF SPECIALIZATION: Physical Oceanography.

Assistant Professor of Oceanography at the Graduate School of Oceanography,
University of Rhode Island from January 1, 1967 to June, 1973. Assistant
Research Oceanographer at Scripps since June, 1973.

KEREM, Dan - 25, Ruth, Haifa, Israel.

Talia, and four children: Sigal, Eyal, Raviv, Yaniv.

Aba Khoushi School of Medicine, Technon, Haifa, Israel.

GRADUATED: 1971/72. FIELD OF SPECIALIZATION: Diving and hyperbaric phys.

1972-74 Post-doctoral research at F. G. Hall Lab for Environmental Physiology, Duke Univ. Medical Center, Durham, NC. 1974-present Head, Hyperbaric Physiology Division, Israel Oceanographic and Limnologic Research (Recently joined by the research unit of the Underwater Medicine Institute, the Israeli Navy). Senior Lecturer, Dept. of Phys., Technion's Medical School in Haifa.

KEYS, Ansel - 410 Groveland Ave., Minneapolis, Minn. 55403

Margaret Haney (spouse) and three children: Caroline Ann D'Andrea, Henry Michael and Martha Jane.

University of Minnesota, Stadium, Gate 27, Minneapolis, Minn. 55455

GRADUATED: 1930. FIELD OF SPECIALIZATION: Epidemiology, nutrition, heart disease.

National Research Council Fellow, Copenhagen, 1930-31. Rockefeller Fellow, Cambridge, Univ. of England, 1931-32. Demonstrator and Lecturer, Physiology, Cambridge U., 1932-33. Instructor Biochemistry, Harvard U., 1933-36. Asst. (then Assoc.) Professor of Biochem, Mayo Foundation. Assoc., then Professor Physiology, U. of Minnesota, 1936-40. Professor and Director Physiology, Hygiene Public Health, U. of Minn., 1940-72. Emeritus Professor, 1972. Senior Fulbright Fellow, Res. Oxford U., 1951-52. Spec. Res. Fellow, USPHS, U. of Naples, 1963-64. Honorary member Accad. Med. Chirurgia; Picensi Accad. Med., Rome; Indian Heart Soc., Indian Soc. Endocrinol., Manila Soc. Physicians., Honorary Citizen Gioia Tauro, Italy, Pollica, Italy. Commander Order of the Lion of Finland, etc.

KIEFER, Dale A. - 15323 Bestor Blve., Pacific Palisades, CA 90272.

Katherine Beil (spouse) and three children: Ingrid, Kristin and Peter.

Dept. Biological Sciences, USC, University Park, Los Angeles, CA 90007.

GRADUATED: 1972. FIELD OF SPECIALIZATION: Microbiology, optics.

After working for the Visibility Lab as a Research Scientist I became an assistant professor in the department of biological sciences at USC. I have continued working with the VIS LAB (Wilson and Austin) on ocean color analysis and begun work on the application of mixed layer theory to problems of primary production. My wife is studying classics at UCLA, and my oldest daughter, Ingrid, has just learned to ride her bike.

KLEIN, Steve - 814 Johnson Ave., Marysville, CA. 95901

Cheryl (spouse) and one son: Paul.

Instructor of Math and Engineering, Yuba College, Beale and Linda, Marysville, CA 95901.

GRADUATED: 1974. FIELD OF SPECIALIZATION: A.O.S. - nearshore processes.

1974-76: at Oregon State University, Ocean Engineering program - Research on Oregon Estuaries. Since 1976, Instructor of Math and Engineering at Yuba College, Marysville, CA.

KLING, Stanley A. - 416 Shore View Lane, Leucadia, CA 92024.

Britta (spouse) and three children: Neal, Hannes, and Wendell.

SIO, Asst. Res. Biol., A-022.

GRADUATED: 1966. FIELD OF SPECIALIZATION: Micropaleontology.

1966-67L NSF Post-doctoral Fellow, Univ. of Tuebingen, Germany. 1967-74: Cities Service Oil Co., 1974-present: SIO.

KLITGORD, Kim D. - 11 Mullen Way, Falmouth, Mass. 02540

Wivine Marie (spouse) and two children: Niels Jeffrey and Stephani Anne.

Geophysist, U. S. Geological Survey, Woods Hole, Mass. 02543

GRADUATED: 1974. FIELD OF SPECIALIZATION: Marine Geophysics.

I spent one year as a Senior Assistant Researcher at the Dept. of Geology and Geophysics, Univ. of Cambridge, England where I continued my research on midocean ridge tectonic processes and carried out survey work in the N. W. Indian Ocean. Since Oct. 1975 I have been at the USGS Woods Hole Office studying the structure and evolution of mesozoic sea floor and the continental margins of the Central North Atlantic.

KNAUSS, John A. - 126 Willett Rd., Saunterstown, R. I. 02874

Lynne (spouse) and two children: Karl and William.

Graduate School of Oceanography, University of Rhode Island, Kingston, Rhode Island 02881.

GRADUATED: 1959. FIELD OF SPECIALIZATION: Physical oceanography.

Left Scripps in 1962 to come to the University of Rhode Island to develop and run the marine programs at URI. Have been here ever since. Professional avocations have included playing a role in the starting of Sea Grant and coastal zone management programs, being a member of the Stratton Commission and NACOA, and spending more time than I care to admit as a state department adviser on the law of the sea.

KOBAYASHI, Bert N. - 9525 Genesee, B-15, San Diego, CA 92121.

Three children, Kim, Marsi and Paul.

Supervisor, Physical Education, and Instructor, Marine Biology.

C-017, UCSD, La Jolla, CA 92093.

GRADUATED: 1973. FIELD OF SPECIALIZATION: Biological Oceanography/ Ichthyology.

Instructor of SCUBA and related aquatics for PE Dept. at UCSD; twice past Chairman of PE Dept (1975 and 1977); promoted to full Supervisor of PE 1976. Instructor of Biology of the Sea and directed group survey of the La Jolla Marine Ecological Preserve for UCSD Summer Session, 1975-77.

KOMAR, Paul D. - 3520 NW Elmwood Dr., Corvallis, OR 97330
Janet Lee (spouse) and one child, Kristin Beth.

Assoc. Prof. of Oceanography, School of Oceanography, Oregon State Univ.,
Corvallis, Oregon 07331.
GRADUATED: 1970. FIELD OF SPECIALIZATION: Sediment Transport

Following graduation from SIO, I spent one year in Britain on a NATO post-doctoral fellowship. For seven months I studied coastal processes at the Wallingford Hydraulics Research Station. That was followed by five months at St. Andrews University, Scotland, working on magma flow. I have been at Oregon State University since 1970, investigating a number of aspects of sediment transport, both on beaches and in the deep sea.

KRAUSE, Dale C. - 19, Villa Croix Nivert, 75015 Paris, France.
Marilyn (spouse) and two children: Tara and Daniel.

Chief of Division, Division of Marine Sciences, UNESCO, 75700 Paris, France.
GRADUATED: 1961. FIELD OF SPECIALIZATION: Marine geosciences.

1961-62: NSF Postdoctoral Fellow, New Zealand Oceanographic Institute; 1962-1973: Asst. Prof to Professor of Oceanography, 1973-present: Adjunct Professor, Univ. of Rhode Island; winter 1968-69: NAS-USSR Acad. Sci. Exchange Fellow, Institute of Oceanology; 1972-73: Research Oceanographer, Atlantic Oceanographic and Meteorological Laboratories, NOAA, Miami; 1973-present, Chief, Div. Marine Sciences, UNESCO, Paris; chief scientist and participant numerous oceanographic cruises.

KROOPNICK, Dr. Peter M. - 867 Leighton Street, Honolulu, Hawaii 96821
Heryl (spouse) and one child: Lani.

Assoc. Professor of oceanography, Dept. of Oceanography, Univ. of Hawaii, 2525 Correa Road, Honolulu, Hawaii 96822.
GRADUATED: 1971. FIELD OF SPECIALIZATION: Chemical Oceanography, stable isotope geochemistry.

Hired as asst. prof. of oceanography at Univ. of Hawaii 1971, presently assoc. prof. of oceanography at same, directing a stable isotope laboratory.

KUDO, Albert M. - 9006 Crestwood Ave., NE. Albuquerque, NM 87112.
Margaret Emiko (spouse) and two children: Alyssa Kim and Shana Lee.

Dept. of Geology, University of New Mexico, Albuquerque, NM 87131
GRADUATED: 1967. FIELD OF SPECIALIZATION: Earth sciences - geochemistry.

Teaching at University of New Mexico.

KUO, Ching-ming - 1567 Keolu Dr., Kailua, HI 96734
Su-chien Kuo (spouse) and three children: Jay M., May C. and Albert M.

Senior Scientist, Oceanic Institute, Makapuu Point, Waianalo, HI 96795
GRADUATED: 1970. FIELD OF SPECIALIZATION: Reproductive Physiology.

Food from the Sea Division, Oceanic Institute, Hawaii, Research Assoc., 1970-72. He.
Aquaculture Division, Oceanic Institute, Hawaii, 1972-present.

KVAMMEN, Kenneth R. - 1715 Gillette Crescent, Sough Pasadena 01030.
Suzy (spouse) and three children: Mike, John, and Andrew.

Oceanographer - Supervision Civil Engineer, 550 South Vermont Ave.,
Los Angeles, CA 90020.

GRADUATED: 1950. FIELD OF SPECIALIZATION: Ocean Engineering - Marine
Environmental Inventory.

Research-Teaching University of Miami Marine Lab and UCLA College of Engineering.
Organizer and first section head of Los Angeles County Engineer's Oceanography
and Coastal Engineering section. Presently supervising engineer for Depart-
ment's Civil Engineering Division. Private oceanography and marine biology
consulting and diving for Bureau of Land Management and Trust Territory of
Pacific Islands.

LA FOND, Eugene C.
Katherine (spouse)

La Fond Oceanic Consultants, P.O. Box 7325, San Diego, CA 92107. 222-3680
GRADUATED: 1941.

I arrived at Scripps 13 September 1933 to work for Dr. T.W. Vaughan, the director,
and Dr. George McEwan, physical oceanographer. Already working at Scripps was a
chemist, Katherine W. Gehring, from the University of Berlin, Germany. We were
married in 1935 and went off to graduate work at U.C. Berkeley. In 1937 we returned
to Scripps and I worked under Dr. H.U. Sverdrup, the director, and took graduate
courses under UCLA. In 1941 Dr. Sverdrup and four other Scripps employees went to
the newly formed University of California Division of War Research on Point Loma.
After the war I returned to Scripps for a year but finally accepted a position as
head of the Marine Environment Division at NEL. In addition to the many assignments
for the Navy, I took leaves of absence to work with other organizations. I partici-
pated in the Bikini atom bomb tests; was chief scientist on arctic cruises in 1947,
49, 50, 51 and 58, the latter on the USS SKATE to the north pole; designed and built
an oceanographic tower off Mission Beach in 1959; director of NAGA Expedition to
Thailand and Vietnam in 1960; with Katherine acted as chief scientist on Harry Truman's
ex-presidential yacht, the R/V ANTON BRUUN, for the International Indian Ocean Expedi-
tion, in 1962-63; was deputy director of the Office of Oceanography for UNESCO in
Paris, France, 1963-64. Currently I am Secretary General of the International Asso-
ciation for the Physical Sciences of the Ocean and general manager of La Fond Oceanic
Consultants, of which Katherine is the president.

LAM, Ronald - 5308 S. Hudson, Seattle, Wash. 98118

Dept. of Oceanography, Univ. of Washington, Seattle, Wash.
GRADUATED: 1971. FIELD OF SPECIALIZATION: Physical oceanography.

1971-73: Post-doctoral at SIO with J. D. Isaacs. 1973-present: Dept. of
Oceanography, Univ. of Wash.

LANKFORD, Robert R.

Regional Secretary for the IOC Association for the Caribbean and Adjacent Regions (IOCARIBE), PO Box 812, UNDP, Port of Spain, Trinidad & Tobago.
GRADUATED: 1962. FIELD OF SPECIALIZATION: Geological Oceanography.

Joined Pan American Petroleum Corp (now AMOCO), Houston, Texas, asst. stratigrapher for paleoenvironmental reconstruction - 1960-1963. Joined geology dept. faculty of Rice University, Houston, teaching and doing research in Marine geology - 1963-70. Joined UNESCO as marine geologist, assigned to National University of Mexico, teaching, research and research planning and academic curriculum development 1970-77. Moved to IOC of UNESCO and assigned as Regional Secretary of IOCARIBE - coordinating marine science development within the 20 member nations.

LARSON, Roger L. - Edward Street, Sparkill, N.Y. 10976
Peggy (spouse)

Senior Research Associate, Lamont-Doherty Geological Observatory,
Palisades, New York, 10964.
GRADUATED: 1970. FIELD OF SPECIALIZATION: Marine Geology and Geophysics.

Worked at L-DGO for the past seven years where I am now a Senior Research Associate. Studied mainly magnetic reversal time scale and plate tectonic problems of the late Mesozoic in the Western Pacific and Eastern Indian Oceans. Chief scientist on various expeditions with L-DGO and the Deep Sea Drilling Project.

LEE, Cindy - 448 Woods Hole Rd., Woods Hole, Mass. 02543

Assistant Scientist, WHOI
GRADUATED: 1975. FIELD OF SPECIALIZATION: Marine Organic Geochemistry.

Post-doc at WHOI, Asst. Sci. at WHOI.

LEE, Richard - 7609 Ashford Court, Savannah, Georgia.
Josephina (spouse) and two children: Lisa and Lori.

Associate Professor, Skidaway Institute of Oceanography, Savannah, GE
GRADUATED: 1971. FIELD OF SPECIALIZATION: Marine Biochemistry.

Post-doctoral and Penn. State Univ. 1971-72. Post-doctoral at Scripps Inst. Oceanography, 1972-73. Assistant, Associate Professor at Skidaway Inst. Oceanography 1974-present. Research on fate of petroleum in marine biota, serum lipoproteins in fish and invertebrates.

LEIGHTON, David L. - 905 Van Nuys Street, San Diego, CA 92109.
Carol L. Young, M.D. (spouse) and two children: Karen and Brian.

Director OSI, and Adjunct Prof., San Diego State Univ. Found.
Ocean Studies Institute Division, World Research, Inc., 11722 Sorrento Valley Rd., San Diego, CA 92121
GRADUATED: 1968. FIELD OF SPECIALIZATION: Marine Aquaculture.

During 1968 I cofounded California Marine Associates (Abalone Hatchery), near Morro Bay. I remained with that group for five years to develop a working technology for abalone culture. Since 1975 I have been conducting research under Sea Grant (UC/SDSU) to find culture methods for rock scallop, Hinnites. My time is now divided between that program and a new one to advance abalone culture technology and explore experimental seeding abalone beds with the Ocean Studies Institute. I became director of that division of World Research, Inc., in 1976.

LEIPPER, Dale F. - 11532 Hidden Hills R., Salinas, Calif. 93908
Virginia (spouse) and four children: Diane, Janet, Bryan, and Anita.

Chairman, Department of Oceanography, Naval Postgraduate School, Monterey, CA. 93940

GRADUATED: 1950. FIELD OF SPECIALIZATION: Physical Oceanography.

Chairman, Department of Oceanography, Texas A & M University 1949-64, Professor 1964-68. Chairman, Department of Oceanography, Naval Postgraduate School 1968-present. President, American Society of Limnology and Oceanography 1957-58; of the Texas Academy of Science 1955; of the American Society for Oceanography 1967-68. Sigma XI, Phi Kappa Phi, Rotary Club (President Bryan, Texas Club 1956). Publications on the Loop Current in the Gulf of Mexico, on Hurricane-Ocean Interaction, and on Marine Fog Forecasting.

LEWBEL, George S. - Box 72, Route One, Del Mar, CA 92014

Partner, International Biological Consultants, 649 So. Vulcan St., Encinitas 92024.

GRADUATED: 1976. FIELD OF SPECIALIZATION: Marine Ecology.

1976: Consultant to marine review committee of Calif. Coast Commission.
1977: Principal Investigator for Science Applications, Inc.,'s program for US Bureau of Land Management on Ecology of Tanner and Cortes Banks.
1977-78: Consultant to Standard Oil USA Re: biological control of fouling on offshore oil platforms.

LOSEY, George S. Jr. - 45-415 Akimala St., Kaneohe, HI 96744

Judy (spouse) and two children: Susan and Joan.

Associate Professor, Hawaii Institute of Marine Biology, PO Box 1346, Kaneohe, HI 96744.

GRADUATED: 1968. FIELD OF SPECIALIZATION: Fish Behavior.

1968-70: NIH Post-doctoral, University of Hawaii. 1970-present: faculty of Dept. of Zoology and HIMB. 1976-77: Sabbatical leave at UC Berkeley.

LOVE, Cuthbert M. - 504 Rosemont St., La Jolla, CA 92037.

Bar Examination candidate.

GRADUATED: 1953. FIELD OF SPECIALIZATION: Physical oceanography, data processing, field methods.

Staff member, Univ. of Washington, Dept. of Oceanography, Seattle, 1953-65. Oceanographer, Inter-American Tropical Tuna Commission, La Jolla, 1965-66. Oceanographer, National Marine Fisheries Service, La Jolla, 1966-73. Asst. Coordinator of Eastro Pac Project, 1966-68, Editor of Eastro Pac Atlas, 1968-73. Oceanographer, Intersea Research Corp., San Diego, 1973-74. Student, California Western School of Law, San Diego, 1974-77; currently (Feb. 1978) studying for California Bar Examination.

LOW, Philip Stewart - 128 Knox Dr., West Lafayette, IN. 47906.

Joan (spouse) and three children: Philip F., Tara M., and Emily D.

Assistant Professor, Department of Chemistry, Purdue University, W. Lafayette, IN. 47907.

GRADUATED: 1975. FIELD OF SPECIALIZATION: Biochemistry.

I spent one year doing post-doctoral work at the University of Massachusetts with Dr. John F. Brandts researching the structure of the red blood cell membrane. I am continuing my study of membranes in the biochemistry division of the chemistry department at Purdue University.

LUYENDYK, Bruce P.

One child: Loren.

Associate Professor, Dept. Geological Sciences, Univ. of Calif., Santa Barbara, CA 93016.

GRADUATED: 1969. FIELD OF SPECIALIZATION: Marine Geology and Geophysics.

After graduation I took a four year appointment at Woods Hole Ocean Institute. For the first year I was a postdoctoral fellow, then an Assistant Scientist. My main work was in the Indian Ocean and the Atlantic. I participated in phases of the FAMOUS project on the Mid-Atlantic Ridge. Since 1973 I have been at UCSB where I am an Associate Professor. I have recently been co-chief on Leg 49 of the DSDP to the Reykjanes Ridge. I am now working on the structure of the Santa Barbara Channel plus the paleomagnetism of Southern California.

LYMAN, John Rowen (deceased) - 404 Clayton Rd., Chapel Hill, N. C. 27514

Mitchell Forrest (widow) and two children: John F. W. and Richard D. McK.

GRADUATED: 1958 Ph.D. FIELD OF SPECIALIZATION: Chemical Oceanography.

1946: Joined the U. S. Navy Hydrographic office as an oceanographer, becoming Director of the Division of Oceanography in 1951. 1959: Program Director for oceanography of the National Science Foundation. 1966-68: served as program director for chemical oceanography of the prestigious Office of Naval Research. Most significant scientific contribution to oceanography is in the field of marine chemistry. He produced chemical equilibrium constants which relate carbon dioxide, calcium carbonate and seawater. Academically, he was responsible for a substantial increase in the University system's teaching and research in the marine sciences and in marine extension services. But his proudest monuments are the three Marine Resource Centers on the North Carolina coast. Retiring from the University in 1973, he served as a consultant to the Nuclear Regulatory Commission, counselling on the development of floating nuclear power stations off the coasts. He also was able to give free rein to his interests the haunting of bookshops and marine museums throughout the world. It was on one such trip, in 1977, in Europe, that he became ill, succumbing only weeks later. The loss of John Lyman to his friends and colleagues was best expressed at the memorial service conducted under the auspices of the Eno River Unitarian-Universalist Fellowship in Chapel Hill in a poem by Mitchell Lyman:

LAST RIGHTS

I pray thee, that when I am done,
Do not through tubes allow to run
Synthetic sense, when I have none;

Whatever then is left of me
Should go to fertilize a tree,
Whose from would be my history:

Roots that are deep in America,
Both near to origin and far,
Since distance has not been a bar

To where the heart may lodge its care...
There'd be new buds every year,
And, hopefully, new fruit to bear.

--M.F.L., '76.

The above was taken from the Faculty Tribute To John Lyman given in Chapel Hill in January, 1978 at the University of Carolina.

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MACDONALD, Keith B. - 1960, Vassar Drive, Boulder, CO. 80303.
Mary Capstaff (spouse) and two children: J. Alec and Ellen Susan.

Senior Scientist, Science Applications, Inc., 2760 29th St., Boulder, CO. 80302.

GRADUATED: 1967. FIELDS OF SPECIALIZATION: Marine Ecology and sedimentation.

Post-doctoral fellowship at Yale with Paleobiology Group, 1967-68. Joined Geological Sciences faculty at UC Santa Barbara, research and teaching in Oceanography and Palaeontology, 1968-76. Joined Science Applications, Inc. (SAI) opening a new office in Boulder, CO, June, 1976. Senior Scientist and Principal Investigator on contract research with NOAA. Alaska Outer Continental Shelf Environmental Assessment Program, 1976-present.

MACDOUGALL, J. Douglas - 534 Bonair St., La Jolla, CA 92037.

Sheila Dawn (spouse) and two children: Christopher David, and Katherine Heather.

Assistant Professor, SIO, A-020.

GRADUATED: 1972. FIELD OF SPECIALIZATION: Earth Sciences.

1972-74: Asst. Res. Geologist, UC Berkeley, Physics Dept. 1974-present: Assistant Professor, SIO.

MAXWELL, Arthur - Box 417, Woods Hole, Mass. 02543.

Rita (spouse) and five children: Delle, Eric, Lynn, Brett, and Gregory.

Provost, WHOI, Woods Hole, Mass. 02543.

GRADUATED: 1959. FIELD OF SPECIALIZATION: Marine Geophysics.

ONR, 1955-65. Head of Geophysics Branch, 1950. WHOI, 1965-present, Assoc. Director, Director of Res., Provost. Spent ten years with ONR in Washington. Divorced and remarried, two new sons, Brett 13 and Greg 10. Moved to Woods Hole where we ski in the winter and sail in the summer. Older children live in California (Delle in San Francisco, Eric in Placerville, and Lynn in Seal Beach).

MAY, Robert C. - 1730 Leveriza St., Pasay City, Metro Manila, Philippines.

Aquaculture Specialist, Asian Development Bank, PO Box 789, Manila, Philippines.

GRADUATED: 1972. FIELD OF SPECIALIZATION: Early life history of marine fishes.

July 1972-December 1977: Aquaculture Coordinator, Hawaii Institute of Marine Biology, University of Hawaii. January 1978-present: Aquaculture specialist, Asian Development Bank.

MCBETH, James W. - 320 Marigold Ave., Freedom, CA 95019.

Cynthia (spouse) and five children: Julie, Jeri, Heather, Aaron and J. C..

Vice President, American Shellfish Corp., PO Box 305, Moss Landing, CA. 95039
GRADUATED: 1970. FIELD OF SPECIALIZATION: Marine Biology.

1970-71: Spent one year in Japan on NSF Post-doctoral studying aquaculture of oysters, clams, abalone, and scallops. 1971-75: Director of Research, International Shellfish Ent. 1975-present: Vice President of American Shellfish Corp. (Culture and Distribution of shellfish; oysters, clams and mussels basically.)

McCONNAUGHEY, Bayard H. - 1653 Fairmount Blve., Eugene OR 97403.
Evelyn I. (spouse) and five children: William B., Edward A., John H.,
Diane L., and Rebecca.

University of Oregon, Dept. of Biology, Eugene, OR 97403.

Teaching at the University of Oregon, Dept. of Biology, since 1949 except
three year leave of absence 1963-66. Helped organize and taught in the
Faculty of Fisheries at the Institut of Agriculture (Institut Pertanian)
Bogor, Indonesia. Also taught one semester on World Campus afloat, Fall
1975. Most summers teach at Oregon Institute of Marine Biology, Charleston,
OR. Have just published third edition of Introduction to Marine Biology,
C. V. Mosby Co., St. Louis.

McCOSKER, John E. - 211 Princeton Avenue, Mill Valley, CA 94941.
Sandra (spouse).

Director, Steinhart Aquarium, San Francisco, CA 94118.
GRADUATED: 1973. FIELD OF SPECIALIZATION: Ichthyology: fish systematics
and behavior.

Departed SIO in 1973 to direct Steinhart Aquarium, a municipal aquarium and
research facility, and an adjunct professorship at San Francisco State University.
Professionally, I became a born-again ichthyologist, renouncing rotenone (except
for occasional relapses) in favor of living fishes, invertebrates and cetaceans.
Led the 1975 American/French Coelacanth Expedition to Grande Comore, returning
with many live and dead specimens and two frozen coelacanths, one of which
now resides at SIO. Research concerns fish that glow, keeping exotic and
difficult fish alive, the coelacanth, and the Galapagos fauna.

McDONALD, James Murray - 581-C Wilkes Lane, Monterey, CA 93940.
Elaine (spouse).

Oceanographic Projects Officer, 42 Division, Fleet Numerical Weather
Central, Monterey, CA 93940.
GRADUATED: 1977. FIELD OF SPECIALIZATION: Marine Geology.

Six months as Command Duty Officer, then moved to data Integration Dept.
where I've since been involved with supervision contracts for a new ocean
thermal structure model.

McGOWAN, John A. - 454 Pine Needles Dr., Del Mar, CA 92014.
Vernie (spouse) and two daughters: Teresa and Kathleen.

Professor, SIO, A-028.
GRADUATED: 1960. FIELD OF SPECIALIZATION: Biological Oceanography.

Three years Marine Biologist Trust Territory of the Pacific, Faculty SIO.

McHUGH, J. L. - 150 Strathmore Gate Dr., Stony Brook, N.Y. 11790.
Three children: Peter, Heather and Jan.

Professor, Marine Sciences Research Center, State University of New York,
Stony Brook, New York, 11794.
GRADUATED: 1950 (degree was from UCLA). FIELD OF SPECIALIZATION:
zoology, Fishery Management.

McHugh, J.L. continued

Director, Virginia Fisheries Laboratory 1951-59. Professor of Marine Biology, College of William and Mary 1951-59. Chief, Division of Biological Research, US Bureau of Commercial Fisheries, 1959-63. Assistant Director for Biological Research, BCF 1963-66. Deputy Director, BCF 1966-68. Director, Office of Marine Resources, US Dept., Interior 1968-70. Head, Office for the International Decade of Ocean Exploration, National Science Foundation 1970. Professor of Marine Resources, Marine Sciences Research Center, Inter-American Tropical Tuna Commission 1960-70; Deputy US Commissioner, International Whaling Commission 1961-66. US Commissioner, Internatl. Whaling Comm. 1966-72. Chairman, Internatl. Whaling Comm. 1971-72. Head of Delegation or Delegation member to numerous international oceanographic and fishery meetings. Member-at-large, Mid-Atlantic Fishery Management Council 1976-79, representing State of New York.

McLELLAN, Hugh J. - 3715 Whispering Lane, Falls Church, VA 22041.

Alice (spouse) and four children: Margaret, James, Catherine, and Ann.

Office of Sea Grant, NOAA, 3300 Whitehaven St., N.W. Washington, D.C.
GRADUATED: 1956. FIELD OF SPECIALIZATION: Physical Oceanography.

Left Fisheries Research Bd. of Canada 1957 for Texas A & M, rose to exalted rank of professor before succumbing to bureaucratic temptations. Joined ONR's Geophysics Branch 1964 (Ocean Science Branch). 1967 served 6 months with Natl Council Marine Resources and Eng. Div. Then to head Oceanography Section of NSF Div. of Env. Science. 1969 to Navoceans Assoc. S&T Director. 1971 to NOAA's Sea Grant Program, where I continue to serve as resident cynic, super bureaucrat and expert generalist.

MEYER, Charles Jr. - 16427 Clearcrest, Houston, TX 77059.

Diane (spouse) and two daughters: Carol and Karen.

Geochemist, NASA, Johnson Space Center, Houston, TX 77058
GRADUATED: 1969. FIELD OF SPECIALIZATION: Geochemistry.

1970: National Research Council Resident Research Associate - Johnson Space Center. 1971 to Present; Geochemist, NASA, JSC, Principal Investigator Lunar Sample analysis.

MILLER, Jackie - 6561 Hawaii Kai Dr., Honolulu, Hawaii 96825.

Gaylor R. Miller (deceased) and three children: Anna Marie, Amy, and Erik.

Assoc. Specialist, University of Hawaii, Environmental Center, Honolulu, Hawaii, 96822.
GRADUATED: 1966. FIELD OF SPECIALIZATION: Biological Oceanography, Paleoclimatology, Coastal Lagoon Ecology.

I have been with the U. of H. since Gaylor and I came to Hawaii in 1965. Research projects have included ecological studies on estuaries in Hawaii, design of computer systems for storage and retrieval of water quality data, and environmental studies of deep ocean disposal of dredge spoil. In addition, my work includes the coordination and direction of University-based expertise to Federal-State agencies on environmental matters affecting the state of Hawaii. My primary interest lies in environmental oceanography projects and has included the direction of field research as well as serving in a coordinating advisory

MILLER, Jackie continued

position with respect to the U. of Hawaii, Environmental Center and Federal and State legislative bodies, regulatory departments and the military.

MILLER, Charles B. - 3339 Chintimini, Corvallis, Oregon. 97330.

Two children: Eric and Matthew.

Associate Professor of Oceanography, School of Oceanography, Oregon State University, Corvallis, Oregon 97331.

GRADUATED: 1969. FIELD OF SPECIALIZATION: Zooplankton ecology.

I left Scripps for a postdoctoral year in Auckland, where I studied statistics for application to problems in plankton ecology. Since 1970 I have taught and conducted research in the School of Oceanography at Oregon State University. The principal contributions from this work are 1) a study of vertical distribution and migration of zooplankton in the subarctic Pacific, 2) studies of the dynamics of copepod populations in small Oregon estuaries, and 3) an evaluation of the interaction of population dynamics and water movement by which the extraordinary zooplankton densities of the Oregon upwelling zone are caused. In time I shall get used to small town life. Perhaps another eight years will do it.

MONK, Dr. Cecil R. - 1515 Jefferson N. E., Salem, Oregon 97303

Dorothy (spouse) and three children: Lawrence, Lois, and Lenore.

GRADUATED: 1942. FIELD OF SPECIALIZATION: Marine zoology.

Professor of Biology, Willamette Univ., Salem, Ore., 1942-68. U. S. Visiting Professor of Biology, Universidad Central de Venezuela, Caracas, Venezuela 1948-50. Awarded title of Honorary Professor in Natural Sciences - Universidad Central de Venezuela, Caracas, March 1967. Retired from Willamette in 1968. Married to Dorothy C. Sheaffer in March, 1971.

MONTEJANO, Yolanda - 827 S. Coast Blvd., La Jolla, CA 92037.

Research Technician, Scripps Clinic and Research Foundation, Biochemistry Department, 10666 N. Torrey Pines Rd., La Jolla, CA 92037.

GRADUATED: 1975. FIELD OF SPECIALIZATION: Biochem, Marine biology.

Have been working as a research technician at Scripps Clinic in the field of vitamin biology and chemistry. Primarily, studies of mammalian metabolism of cobalamins (Vit. B-12) and folic acid.

MOORE, Ted C. Jr. - 107 N. River Dr., Narragansett, R.I. 02882

Jeanne (spouse) and two children: Catherine, and Christopher.

Assoc. Professor of Oceanography, Graduate School of Oceanography, University of Rhode Island, Kingston R. I. 02881.

GRADUATED: 1968. FIELD OF SPECIALIZATION: Marine Geology.

I left SIO in the summer of 1968 for a research (and later faculty) position at Oregon State University. In 1974 I accepted a faculty position at the University of Rhode Island and moved there early in 1975. Research interests have included deep-sea sedimentation (ONR). Quaternary climate changes (CLIMAP) and Cenozoic paleoceanography (DSDP and CENOP projects).

MORITA, Richard Y. - 1515 N. W. 14th St., Corvallis, Oregon 97330

Toshiko N. (spouse) and three children: Sally, Ellen and Peter.

Professor of Microbiology and Oceanography, Dept. Microbiology, Oregon State Univ., Corvallis, OR 97331.

GRADUATED: 1954. FIELD OF SPECIALIZATION: Marine Microbiology.

Assistant Prof., Univ. Houston, 1955-58, Asst. and Assoc. Prof., Univ. Nebraska, 1958-62, Assoc. Prof. and Prof., Oregon State Univ., 1962-present. Program Director for Biochemistry, NSF, 1968-69. Consultant, Inst. General Med. Sci., NIH, 1968-71. Panel Member for Molecular Biology and Biological Oceanography, NSF, 1969 and 1972. Senior Queen Elizabeth II Fellow, Australia 1973-74. Oregon State Univ. Sigma Xi Research Award, 1972.

MORRIS, Gerald B. - 1010 Rue Orleans, Slidell, LA 70458.

Halcyon (spouse).

Supervisory Research Physicist, Naval Ocean Research and Development Activity, NSTL Station, MS 39529.

GRADUATED: 1969. FIELD OF SPECIALIZATION: Earth Sciences.

1969-70 Asst Research Geophysicist at the Marine Physical Laboratory. 1970-72 Asst Professor of Geophysics, University of Hawaii. 1972-77 Asst Research Geophysicist, Marine Physical Lab. 1978-present: Supervisory Research Physicist, Naval Ocean Research and Development Activity.

MORTENSEN, Arne - 1796 Laurel Road, Oceanside, CA.

Jonatee (spouse) and two children: Erik and Michelle.

Engineer, Linkabit Corporation, 10453 Roselle Street, San Diego, CA 92121

GRADUATED: 1976. FIELD OF SPECIALIZATION: Applied Ocean Sciences.

Thirteen months as staff oceanographer at EG&G, Environmental Consultants.

MUNK, Walter

Judith (spouse) and two children: Edie and Kendall.

Professor, SIO, A-025.

GRADUATED: 1947. FIELD OF SPECIALIZATION: Oceanography.

I never left SIO.

NASON, Robert - 168 25th Avenue, San Francisco, CA.

Louise (spouse) and two daughters: Eleanor and Rachel

Seismogeologist, U.S. Geological Survey, Menlo Park, CA.

GRADUATED: 1966, 1971. FIELD OF SPECIALIZATION: Earthquake Geology.

Beginning in 1966, worked for the ESSA (and then NOAA) Earthquake Mechanism Laboratory in San Francisco, as an earthquake geologist specializing in fault creep. In 1973 the Earthquake Laboratory was merged into the US Geological Survey, where I have been ever since. Main accomplishments: San Andreas fault at Cape Mendocino, fault creep in California, earthquake damage investigations, earthquake history.

NASU, Koriyuki - 1-50-3-101, Chuo, Nakano-ku, Tokyo 164, Japan.
Kyoko (spouse) and one child: Keiko.

Ocean Research Institute, University of Tokyo, 1-15-1, Minamidai, Nakano-ku, Tokyo 164, Japan.

GRADUATED: 1955. FIELD OF SPECIALIZATION: Marine geology.

Since 1955 - Associate Lecturer. Associate Professor at the Geological Institute, University of Tokyo until June 1972, then moved to the newly established Ocean Research Institute, University of Tokyo as a Professor. Since then, keeping the same position. In between, served as the director of the Institute from 1968-72.

NISHIMORI, Richard K. - 515 28 1/2 Rd., Grand Junction, CO 81501.

Senior Geologist, Union Carbide Corp., Metals Division, Grand Junction, CO 81501.

GRADUATED: 1975. FIELD OF SPECIALIZATION: Petrology.

1976 Post-doctoral at U. North Carolina on ERDA Grant on the geology of uranium deposits in igneous rocks. 1977-present: Senior geologist in Union Carbide's exploration research group of metals division, specializing in uranium geology. Currently residing in Grand Junction, CO.

NOLAN, Ron S. - 3114 Huelani Drive, Honolulu, HI 96822

President, Ocean Research Consulting and Analysis, Ltd. (ORCA, LTD)
PO Box 88253, Honolulu, Hawaii 96815.

GRADUATED: 1975. FIELD OF SPECIALIZATION: Marine Biology.

Two year post-doctoral at University of Hawaii studying reef fish ecology. Established environmental consulting firm in 1976, which performs coral reef studies throughout the islands and atolls of the Pacific. In 1977 ORCA, LTD opened a marine photography branch that publishes underwater calendars, brochures, and photo books.

NORMARK, William R. - 1225 Rembrandt Dr., Sunnyvale, CA 94087.
Dorothy (spouse)

Geologist, Pacific-Arctic Branch of Marine Geology, U. S. Geological Survey, 345 Middlefield Rd., Menlo Park, CA 94025

GRADUATED: 1969. FIELD OF SPECIALIZATION: Marine geology.

1969-1970: Post-doctoral research appt. at SIO ;1970-74: Asst. Professor, Dept. of Geology and Geophysics, Univ. of Minnesota, Minneapolis, Minn.; 1974-present: Geologist, Pacific-Arctic Branch of Marine Geology, U. S. Geological Survey, Menlo Park, CA.

NORRIS, Dr. Kenneth S. - 1987 Smith Grade, Santa Cruz, CA

Phyllis (spouse) and four children: Susan, Nancy, Barbara and Richard.

Professor Natural History, Environmental Studies Board Chairman and Deputy Director, Center for Coastal Marine Studies.

GRADUATED: 1953. FIELD OF SPECIALIZATION: Marine Biology (Ichthyology).

Curator, Marineland of Pacific, Lecturer to Professor at UCLA (zoology), worked on desert animals; porpoise studies, Res. Director Oceanic Institute, Hawaii. Prof. Natural History and Director Coastal Marine Lab, UCSC, Chair Environmental Studies, marine mammal conservation and natural area teaching.

NORRIS, Robert M. - 4424 Nueces Dr., Santa Barbara, CA 93110
Virginia (spouse) and three children: Donald, James and Elizabeth.

Professor Geology, U.C. Santa Barbara.
GRADUATED: 1951. FIELD OF SPECIALIZATION: Quaternary Geology.

Assistant Professor 1955-60, Associate Professor 1960-68, and Professor Geology at Santa Barbara 1968-present. Field Party Chief (American Petroleum Institute Project 51) 1951-52, Visiting Professor University of Massachusetts 1965 and Dalhousie University 1967. Marine Geologist, N.Z. Oceanographic Institute, Wellington, New Zealand, 1968-89, 1975-76, 1961-62. Visiting Research Geologist, CSIRO Division of Soils, South Australia, 1969 and Director, Channel Islands Field Station and Associate Director, Institute of Marine Science, 1970-75.

NORTH, Wheeler J. - 205 Carnation Ave., #5, Corona del Mar, CA 92625.
Barbara (spouse) and two children: Wheeler O. and Hannah C.

Faculty, Calif. Inst. of Technology, 1201 E. Calif. Blvd., Pasadena, CA 92115
GRADUATED: 1953. FIELD OF SPECIALIZATION: Marine Biology.

Am on the Caltech faculty since 1963. Research has been in coastal pollution and biological effects thereof. Have been particularly concerned with kelp beds. Have studied methods for restoring depleted kelp beds and mass culturing of kelp. Currently investigating the nutritional requirements of kelp.

O'HEOCHA, Colm - Chestnut Lane, Bushy Park, Galway, Ireland.

Daiden (spouse) and six children: Nessa, Orla, Seamas, Aedin, Colm and Aislinn.

President, University College, Galway, Ireland.

GRADUATED: 1955. FIELD OF SPECIALIZATION: Biochemistry of Algae.

1955-63: Lecturer in Chemistry, Galway. 1963-75: Professor of Biochemistry, Galway. 1975-present: President, University College Galway. 1961-62: Research Associate, Univ. of Minnesota. 1967-78: Chairman, Irish National Science Council. 1968-75: Member, Higher Education Authority, Dublin.

OKITA, Thomas W. - 1824 Raintree Pl., Davis, CA 95616

Judy (spouse) and one child: Jamie Mia.

Dept. of Biochemistry and Biophysics, UC Davis, Davis, CA 95616

GRADUATED: 1978. FIELD OF SPECIALIZATION: Algal Physiology and biochemistry.

Post-doctoral position at the Plant Growth Laboratory 1977-78. UC Davis, Postdoc at Dept. of Biochemistry and Biophysics May 1978 to present

OLDENBURG, Douglas - 4277 W.9 Ave., Vancouver, British Columbia, Canada V6R2C6

Marion (spouse) and two children: Steven and Tiara

Asst. Professor, Dept. of Geophysics and Astronomy, Univ. of British Columbia, Vancouver, B.C. V6T1W5

GRADUATED: 1974. FIELD OF SPECIALIZATION: Geophysics.

Aug. 1974-Dec. 1975: Killan Postdoctoral Fellow at Dept. of Physics, Univ. of Alberta, Edmonton, Alberta. Jan. 1976-June 1977: Research Associate, Dept. of Physics, Univ. of Alberta, Edmonton. July 1977-present: Assistant Prof., Dept. of Geophysics and Astronomy, U.B.C..

OLSON, J. Bennet - 416 S. Chauncey, W. Lafayette, IN 47906.

Dorothy (spouse) and three children: Christina Olson Spiesel, Loren and Mary.

Associate Professor, Dept. Biological Science, Purdue University, W. Lafayette, IN 47907.

GRADUATED: 1949. FIELD OF SPECIALIZATION: Marine Biology - Copepods.

1948-50 Dept. of Biol., Brooklyn College; 1950-53: Dept. of Biol., San Jose State College; 1953-57: Cardiovascular Research, Children's Hospital, Los Angeles. 1957-58: Research Assoc. of Linus Pauling, Cal Tech. 1958-64: Chairman, Natural Sciences, Shimer College. 1964: Dept. of Biol. Sci., Purdue Univ., Director NSF Summer Institutes, Deputy Head for Biology at the Regional Campuses, Director Watson's Crick Gallery, Dept. of Biol. Sciences.

OPPENHEIMER, Carl H. - Box 368, Port Aransas, TX 78373

Dorothy (spouse) and three children: Douglas, John and Donna

Professor of Microbiology, University of Texas Marine Science Institute, Marine Laboratory, Port Aransas, TX 78373.

GRADUATED: 1951. FIELD OF SPECIALIZATION: Marine Microbial Ecology.

Fulbright Fellow, University of Oslo, Norway 1952-53. Asst. Marine Biologist, SIO, 1951-55. Senior Res. Sci, Pan American Petroleum Corporation Res. Center, 1955-57. Res. Sci. and Lecturer, Marine Microbiology, Univ. of Texas, 1957-61. Assoc. Prof., Inst. of Marine Science, Univ. of Miami, 1961-64. Director and Professor, Oceanographic Inst., Dept. of Biological Science, Florida State Univ, 1964-69, and Director, The Edward Ball Marine Laboratory, and Professor, Dept. of Oceanography, FSU, 1966-71. Director and Prof., University of Texas Marine Science Institute at Port Aransas, 1971-73.

ORCUTT, John- 2752 Gobat Ave., San Diego, CA 92122

Sharyn (spouse) and two daughters: Lisa and Heather.

Assistant Research Geophysicist, SIO, GRD, A-015.

GRADUATED: 1976. FIELD OF SPECIALIZATION: Earth Sciences (Geophysics).

1976: Postgraduate Research Geophysicist. 1977-present: Assistant Research Geophysicist. 1977, Deep Sea Drilling Project Ocean Crust Panel. Coconvenor (with Freeman Gilbert) of Office of Naval Research. Symposium on Synthetic Seismology at Salishan Lodge, Oregon 1978. Promoted to Commander, USNR 1978.

OWEN, Robert W. - 849 N. Rios, Solana Beach, CA 92075.

Sue (spouse).

Oceanographer, NMFS, PO Box 271, La Jolla, CA 92038 (UCSD - A-003)

GRADUATED: 1972. FIELD OF SPECIALIZATION: Physical/Biological Interactions.

Research on eastern boundary current systems and their plankton community structure.

PATTON, John S. - 32 Court Ln., Concord, MA 01742
Jamie (spouse) and two children: Ryan (Chuck) and Mia.

Harvard Medical School, PBBH, 721 Huntington Ave, Boston, MA 02115.
GRADUATED: 1976. FIELD OF SPECIALIZATION: Marine biology - biochemistry.

1976-77: Lund, Sweden, SMRC Fellow. 1977-78: Harvard Medical School, Boston Medical Foundation Fellow.

PAUL, John S. - 1014 Creekwood Pl., Lafayette, CA 94549
Helen (spouse)
Lawrence Berkeley Laboratory, Berkeley, CA 94720.

I have been working in the laboratory of Drs. Melvin Calvin and James Bassham since leaving Scripps. My work has involved the use of ¹⁴C tracer techniques in investigating plant cell metabolism. More importantly, however, I have learned about the great wines of Northern California since arriving here. With a lack of suitable employment in the field of marine biology, I am leaving science for a career in the wine industry. 1974 was a good year for Cabernet Sauvignon from this area. I recommend it highly.

PAZAN, S. - 1244 Greenlake Dr., Cardiff, CA
Kerry Nare (spouse) and one son: Michael.

Data Manager of NORPAX, A-030, NORPAX Bldg, SIO.
GRADUATED: 1975. FIELD OF SPECIALIZATION: Physical Oceanography.

PEQUEGNAT, Linda Halthcock - 21 Forest Drive, College Station, TX 77840.
Dr. Willis E. Pequegnat (spouse) and two children: Marina and William.

Lecturer and Research Scientist (also Curator of Systematic Collection of Marine Organisms), Dept. of Oceanography, Texas A&M University, College Station, TX 77843.
GRADUATED: 1957. FIELD OF SPECIALIZATION: Biological Oceanography.

Married to Willis Pequegnat in 1957. Lived in Laguna Beach and Washington, D. C. area as house wife and mother (Marina born in 1958, Bill born in 1961). Moved to College Station, Texas in 1963 where Willis accepted a job as Professor of Oceanography at Texas A&M University. Back to work in 1964 (Research Scientist) and studied for Ph.D. in Oceanography at Texas A&M. Received Ph.D. in 1970. Still at Texas A&M (Lecturer and Research Scientist). Research interests: systematics and zoogeography of decapod and mysidacean Crustacea. Also serve as Curator of Systematic Collection of Marine Organisms at Texas A&M. Also active in the American Association of University Women for past ten years.

PERATH, Itamar. - Sho'eva, D. N. Harei Yehuda, Israel.
Atida (spouse) and four children: Hamutal, Yiftah, Eilon and Thomer.

Science Editor, The Geological Survey of Israel, 30 Malchei Yisrael Str., Jerusalem.
GRADUATED: 1968. FIELD OF SPECIALIZATION: Foraminifera.

Shore based projects at the Geological Survey of Israel.

PERRY, Mary Jane - 9726 45NE, Seattle, WA 98115
Peter Jumars (spouse)

Res. Asst. Professor, Dept. of Oceanography, Univ. of Washington, Seattle, WA 98195.

GRADUATED: 1974. FIELD OF SPECIALIZATION: Phytoplankton physiology-ecology.

From 1974 to March 1976 post-doctoral with Dr. O. H. Lowry at Washington Univ. Medical School in St. Louis and worked on enzymatic microassays for low concentrations of metabolites in seawater. Since mid 1976 I have been at the Univ. of Washington on the research faculty. My field research efforts are presently directed at the coastal zone off Washington State. My laboratory work involves basic physiology of marine phytoplankton and the development of new approaches for field studies.

PETERSEN, Michael R. - 211 Armistead, Richland, WA 99352.

Arlene (spouse) and five children: Karen, Eric, Amy, Brenda and Wendy.

Res. Scientist Battelle Pacific Northwest Laboratories, Batelle Blvd., Richland, Wash. 99352.

GRADUATED: 1971. FIELD OF SPECIALIZATION: Analytical Chemistry (Organic).

I have been working at Battelle Northwest developing programs in organic chemistry and analytical chemistry and am now engaged in studies of potential emissions from synthetic fuel processes. We visit pilot plants, do survey sampling under actual operating conditions and then determine both organic and inorganic analytical work.

PHLEGER, Charles F. - 119 Europa St., Leucadia, CA 92024.

Audrey (spouse) and two children: Eric and Holly.

Professor, Dept. of Natural Science, SDSU, San Diego, CA 92812.

GRADUATED: 1972. FIELD OF SPECIALIZATION: Marine Biology.

1972: Assistant Professor, SDSU, Dept. Natural Science. 1975: Associate Professor, SDSU. 1978: Professor, SDSU. Expeditions: Southtow, Peru, Chile Trench, R/V Washington (1972), Kona Expedition, R/V Alpha Helix (1973), Amazon Expedition, R/V Alpha Helix (1976). NSF grant, hyperbaric Rich Trap. Sea Grant - Aquaculture of Purple Hinge Rock Scallop. Twenty publications since 1972.

PICKWELL, George V. - 6352 Wellesly Court, San Diego, CA 92122.

Sheila (spouse) and two children: Tess and Tim.

Oceanographer, Code 5132, Naval Ocean Systems Center, San Diego, CA 92152.
GRADUATED: 1964. FIELD OF SPECIALIZATION: Marine Biology.

1964: Post-doctoral work in biological oceanography and related fields of bioacoustics at Navy Electronics Laboratory. 1966: accepted the position of Oceanographer at the Naval Undersea Center (still located on Pt. Loma, San Diego; reorganized from a number of Navy activities) to carry on studies of the deep scattering layer and its organisms. 1969: Originated the Chemical Oceanography Branch at NUC. 1972: Subsequently initiated work on marine toxins and antisera with particular emphasis on sea snake venoms. This work continues to the present at the Naval Ocean Systems Center, also on Pt. Loma.

PILSON, Michael E. Q. - 1 Kelley Road, Saunderstown, R.I. 08274
Joan (spouse) and two children: Diana and John.

Graduate School of Oceanography, University of Rhode Island, Kingston,
R. I. 02881.
GRADUATED: 1963. FIELD OF SPECIALIZATION: Marine chemistry and marine
biology.

Upon graduation from SIO I was employed by the Institute for Comparative Biology of the Zoological Society of San Diego. There I stayed about three years, supporting myself on grant funds and investigating the chemistry of marine mammal milks and the water balance in California Sea Lions. Then I joined the faculty of the Graduate School of Oceanography, University of Rhode Island, where I am now Professor of Oceanography. At GSO I have involved myself in studies of the marine chemistry of silica, arsenic and phosphorus, copper in snails, the chemical ecology of coral reefs and the physiology of temperate corals. At present I serve as Director of the Marine Ecosystems Research Laboratory, where we are carrying out experiments on the use of microcosms of coastal marine ecosystems.

PINKEL, Rob - 2366 Via Aprilia, Del Mar 92014.

Ass. Research Oceanographer, MPL, SIO, A-030.
GRADUATED: 1974. FIELD OF SPECIALIZATION: Physical Oceanography.

Assistant Research Oceanographer, SIO for the past three years. Developing Doppler Sonar as a technique for the remote measurement of water velocity in the upper ocean.

PIPER, David Z. - 3649 Ramona Circle, Palo Alto, CA 94306
Almuth (spouse) and four children: Judith, Lewis, Lucy and Gregory.

U. S. Geological Survey, 345 Middlefield Rd., Menlo Park, CA 94025.
GRADUATED: 1968. FIELD OF SPECIALIZATION: Marine Geology.

From 1968 until 1975 I was on the faculty at the University of Washington, Department of Oceanography. Since 1975 I have worked at the U. S. Geological Survey, Pacific-Arctic Branch. My work during this time has focused largely on the geochemistry of pelagic sediments.

PLATT, Christopher - 1206 S. Victoria Ave., Los Angeles, CA 90019
Carol (spouse) and one child: Andrew.

University of Southern California, Dept. of Biological Sciences, University Park, Los Angeles, CA 90007
GRADUATED 1972. FIELD OF SPECIALIZATION: Marine biology, neurobiology.

Post-doctoral work with T. H. Bullock at the International Lab for Brain Research, Kotor, Yugoslavia, Spring 1973. Post-doctoral work in the Dept. of Elect. Eng. and Computer Science, Univ. California, Berkeley, with E. R. Lewis, 1973-76. Lecturer, Dept. Zoology, Univ. California, Berkeley, Fall 1974. Asst. Professor, Dept. Biological Science, University of Southern California, Jan 1977-present. Areas of research interests are neurobiology, vestibular physiology and receptor structure; central nervous system of fishes; comparative physiology. Carol, my wife, (SIO lab tech. with W. A. Newman, 1966-71) finished her B. S. in English at the University of California, Berkeley, in 1976. Son Andrew was born in Jan. 1976.

POELCHAU, Harald S. - 4170 Beaverbrook, Dallas, TX 75229

Susan (spouse) and two children: Julia Claire, Michael Harald.

Research Coordinator, Atlantic Richfield Co., PO Box 2819, Dallas, TX 75221
GRADUATED: 1974. FIELD OF SPECIALIZATION: Earth Sciences.

Rejoined Geologic Science Research Group of Atlantic Richfield in Dallas. Worked on hydrology and uranium ore genesis. Coordinator for research in stratigraphy and structural geology.

PREISENDORFER, Rudolph W. - 8862 Caminito Primavera, La Jolla, CA 92037

Eleanor (spouse) and two children: Russell and Lynn.

Research Mathematician, Climate Research Group, NOAA/SIO.

GRADUATED: 1956. FIELD OF SPECIALIZATION: Applied Mathematics.

After 1956, worked at Vis Lab., Point Loma until 1959, on radioactive transfer in the sea. With General Atomic 1960, 1961 as math consultant on fusion problems (plasma dynamics), structural frame analysis, wave and diffusion problems. Back at Vis Lab 1962-69, foundations of logic, image restoration problems, harmonic analysis, and stochastic process theory, physical processes in random media. 1970 at Navy Postgraduate School Monterey, teaching stochastic processes. 1971-76 at Honolulu (Univ. of Hawaii) with NOAA, work on tsunami propagation. 1977 back at Scripps working on climate (short-range) prediction.

PREZELIN, Barbara Berntsen - 390 Ravenscroft Dr., Goleta, CA 93017

Louls-Marie (spouse)

Assistant Professor, Marine Biology, Dept. Biological Sciences, University of California, Santa Barbara, CA 93106. (805) 961-2879

GRADUATED: 1975. FIELD OF SPECIALIZATION: Algal physiology, photosynthesis, primary productivity.

September 1975 - March 1977: NSF Postgraduate Researcher with Dr. Beatrice M. Sweeney, UC Santa Barbara, project: Mechanisms of circadian regulation of photosynthesis in marine dinoflagellates. March 1977-present: Assistant Professor of marine biology, UC Santa Barbara.

PUSHKAR, Paul - 5417 Camellia Place, Dayton, OH 45429

Helen (spouse)

Professor, Wright State University, Dept. Geology, Colonel Glenn Highway, Dayton, Ohio 45435.

GRADUATED: 1966. FIELD OF SPECIALIZATION: Earth Sciences, isotope geochemistry.

1966-67: Research Associate at Univ. of Arizona working on lunar geology project - return to Univ. of Arizona for several summers for isotope geochemistry research. 1968-present at Wright State University, promoted to professor in 1978.

RAYMOND, James A. - Box 81504, Fairbanks, AK 99708.

Alaska Dept. of Fish and Game, 1300 College Rd., Fairbanks, AK 99701
GRADUATED: 1976. FIELD OF SPECIALIZATION: Fish Biologist.

I'm in charge of developing a salmon enhancement program for Interior and Western Alaska. My most important job has been designing a million dollar fish hatchery that will be built near Fairbanks and use heated waste water from Air Force radar facilities. I took a leave of absence November and December 1977 to collect animals from under the Ross Ice Shelf in Antarctica with Art Da Vries. The June 1978 issue of Scientific American will describe a minor discovery I made at PRL - see the Amateur Scientist. Most of my thesis appeared in PNAS 74, 2589 (1977).

RECHNITZER, Andreas B. - 22479 Estoque Place, Salinas, CA 93908 (1978)
6368 Dockser Terrace, Falls Church, VA 22041 (Reg)

Martha (spouse) and four children: David, Andrea, Martin and Michael.

Professor, Adjunct Research (Temp. Add'l duty), Naval PostGraduate School, Monterey, CA 93940.

GRADUATED: 1956. FIELD OF SPECIALIZATION: Zoology.

Physical Oceanographer, NEL (now NOS) 1956-61; Director, Ocean Sciences, Rockwell Int'l 1961-70; Science and Technology Advisor, Office of the Chief of Naval Operations, OP23 1970-74; special deputy for International and Inter-agency affairs, Office of the Oceanographer of the Navy 1974 to present. Scientist in charge record dives of Bathyscaph Trieste. Recipient of numerous awards including Navy Department Distinguished Service Award from President Dwight Eisenhower at the White House.

REDFIELD, William D. (William D. Rosenfeld at time of graduation from SIO)
1403 Sunny Crest Drive, Fullerton, CA 92635

Elaine (spouse) and three children: Nancy R. Tracy and David C. Redfield, M. D.

Senior Research Associate, Chevron Oil Field Research Company, P.O. Box 446, La Habra, CA 90631.

GRADUATED: 1945. FIELD OF SPECIALIZATION: Microbiology.

I left SIO in 1947 to initiate research in petroleum microbiology at California Research Corporation, then the Production Technology Laboratory of the Standard Oil Company of California. After several years in the Production Research Division, I transferred to the organic geochemical section of the Exploration Research Division where I continue to work in microbiological and biochemical areas. Much of the microbiology relates to the degradation of crude oils in shallow reservoirs. The original laboratory has grown during these 31 years to a group of some 400 individuals in many scientific and engineering disciplines and now known as the Chevron Oil Field Research Company.

REGIER, Lloyd - 17 Fordham Circle, E. Falmouth, Mass. 02536

Victoria (spouse) and two children: Jason and Keith.

Mass. Inst of Technology, Meteorology Dept, 54-1417, 77 Massachusetts Ave., Cambridge, Mass. 02139.

GRADUATED: 1975. FIELD OF SPECIALIZATION: Physical Oceanography.

Currently in third year Post-doctoral with Henry Stommel. Deployed satellite tracked DROGUES as part of INDEX program in Equatorial Indian Ocean during 1976. Presently preparing for 60 days at sea in Polymode Local Dynamics Experiment measuring horizontal structure of near surface currents using an acoustic (hopefully) profiling current meter.

REICHLER, Michael Stephen - 7525 Sea Gull Dr, Coleta, CA 93017
Bonnie Susan (spouse)

University of California, Santa Barbara. Marine Science Institute,
Santa Barbara, 93106
GRADUATED: 1975. FIELD OF SPECIALIZATION: Geophysics and seismology.

Seven month post-doctoral at IGPP, SIO. One year Professor and Research
Seismologist at the Center of Scientific Research and Higher Education of
Ensenada, Baja Calif., Mexico (CICESE). One year Assist. Research Geologist
at the Marine Science Institute, UCSB.

REID, Ian

Research School of Earth Sciences, Australian National Univ., Canberra,
Australia.

GRADUATED: 1976. FIELD OF SPECIALIZATION: Geophysics/seismology.

1976-78: with Research School of Earth Sciences, Australian National Univ.
Anticipate joining Dalhousie University, Canada, in fall 1978.

REID, Joseph L. - 1105 Cuchara Dr., Del Mar, CA 92014

Freda Mary (spouse) and two children: Ian Joseph and Julian Richard.

Professor of Physical Oceanography, SIO, A-030.

GRADUATED: 1950. FIELD OF SPECIALIZATION: Descriptive physical oceanography.

Haven't left SIO except for 6 months at Johns Hopkins and shorter visits to
other institutions. Married Freda Hunt in 1953; two sons born 1954 and 1956.
Principal research is circulation of Pacific, Atlantic, and Antarctic oceans.
Currently Director of Marine Life Research Group.

REID, Robert O. - Rt. 4, Box 832, Bryan TX 77801

Marjorie (spouse) and six children: Robert, Nancy, Carol, Thomas, Russell,
Maryellen.

Professor, Dept. of Oceanography, Texas A&M Univ., College Station, TX 77843.

GRADUATED: 1948. FIELD OF SPECIALIZATION: Physical Oceanography.

Texas A&M Univ., Dept of Oceanography Jan 1951 to present. Started as Asst.
Professor, presently Professor of Oceanography and Civil Engineering (Promoted
to Distinguished Professor as of September 1978). Interests: coastal engineering,
storm surges, shelf waves, ocean current dynamics, numerical modelling, tsunamis.
Editor of J. Phy. Oceanography 1970 to present.

REIMNITZ, Erk - 914 Van Auken Circle, Palo Alto, CA 94303

Kate (spouse) and two children: Birke and Uta.

Office of Marine Geology, U. S. Geological Survey, 345 Middlefield Road,
Menlo Park, CA 94025.

GRADUATED: 1966. FIELD OF SPECIALIZATION: Sedimentology.

From 1966 to 1968 I worked for UNESCO at the Universidad Nacional Autonoma
de Mexico, mainly on studies of the Rio Balsas delta and submarine canyons.
Since returning to the U. S. we had our second daughter, and I am a marine
geologist with the U.S.G.S. in Menlo Park, California. Most of my research
efforts have been devoted to the arctic shelf and coast, including the inter-
action between river flow and an ice covered sea, sea ice and the shelf surface
(ice gouging), ice zonation and dynamics and the shelf morphology and processes,
and to other uniquely arctic phenomena. Among lower latitude work was a cooper-
ative study with Dr. Francis P. Shepard on the submarine canyons of the Rio
Balsas in Mexico again.

RENZ-KILLMAR, Genelle W. - 1535 Sheridan Rd., Glendale, CA 91206
Henry M. Killmar (spouse) and one son, Henry M. III

Housewife, Mother.

GRADUATED: 1973. FIELD OF SPECIALIZATION: micropaleontology, biological oceanography.

1973: postdoctoral research, Deep Sea Drilling Project Leg 27. 1974: semi-retired, publication of thesis - SIO Bull. Vol. 22.

REVELLE, Roger

UCSD, Professor of Political Science. B-028
GRADUATED: 1936.

Director, Harvard Center for Population Studies, 1964-1976.

REX, Robert W. - 2780 Casalero Drive, La Habra, CA 90631
Jean (spouse)

President, 11823 East Saluson Avenue, Suite One, Santa Fe Springs, CA 90670
GRADUATED: 1958. FIELD OF SPECIALIZATION: Marine geochemist.

Ten years exploration geochemical research with the Standard Oil Co. of California. Four years Professor of geological sciences at the University of Calif., Riverside and Institute of Geophysics and Planetary Physics. One year Vice President-Exploration Pacific Energy Corporation, the geothermal subsidiary of Hughes Aircraft Corporation. Five years President of Republic Geothermal, Inc. FGI combines contract drilling for oil, gas and geothermal energy and geothermal resource development for electricity power production. Our first power facility should go on line in 1980 in the Imperial Valley.

RHEUBEN, Mary B. - General Delivery, Lemont, PA 16851

Assist. Professor, Dept. of Biology, 208 Life Sciences I, Penn State University, University Park, PA 16802
GRADUATED: 1971. FIELD OF SPECIALIZATION: Neurobiology.

Two and a half years post-doctoral at UCLA with Alan Grinnell. One and a half years at Yale University with M. J. Cohen. One year at NIH with T. S. Reese as intergovernmental exchange biologist from Penn. State to NIH. December 1976 arrived at Penn State. Snowed in ever since (except four summers at Woods Hole.

RICHARDS, Adrian F. - 2324 Overlook Drive, Bethelhem, PA 18017

Berry (spouse) and three children: Ronald, Bronwyn and Eric.

Professor of Oceanography and Ocean Engineering, Director of the Marine Geotechnical Laboratory, Marine Geotechnical Laboratory, 17, Lehigh University, Bethelhem, PA 18015
GRADUATED: 1957. FIELD OF SPECIALIZATION: Marine geotechnology

U. S. Navy Hydrographic Office, 1957-60. NAS-NRC Post-doctoral at NEL, 1960-61. Office of Naval Research, London, 1961-63. RNCSTIR post-doctoral at the Norwegian Geotechnical Institute, Oslo, 1963-64. University of Illinois, Urbana (Depts. of Geology and Civil Engineering), 1964-69. Lehigh University (Departments of Geological Sciences and Civil Engineering), 1969- present, consultant to industry and agencies of U. S. and other governments.

RITTENBERG, Sydney C. - 3837 Cody Road, Sherman Oaks, CA 91403
Beatrice (spouse) and two sons: William and Stephen.

Professor, Dept. Bacteriology, Univ. of California, Los Angeles, CA.
GRADUATED: 1941. FIELD OF SPECIALIZATION: Bacteriology.

Research Chemist, Technicolor Corp, 1941-42. War Wound Project, Tulane Univ. School of Medicine, 1942-43. Chief Microbiologist, S. B. Penick and Co., 1943-47. Asst. Professor to Professor, Univ. Southern Calif., 1947-62. Professor and Chairman, Dept. Bacteriology, UCLA, 1962 to present. Research in bacterial physiology and metabolism.

ROKOP, Frank J. - 7858 Caminito Huerta, San Diego, CA 92112
Sandra (spouse)

Lecturer, Dept. of Biology, UCSD, C-016.
GRADUATED: 1975. FIELD OF SPECIALIZATION: Marine Biology, deep sea ecology.

Lecturer, Dept. of Biology, UCSD, in Invertebrate Zoology, Marine Biology, and Marine Ecology.

ROSS, DAVID A. - 53 Green Pond Rd., E. Falmouth, Mass.
Edith (spouse)

Assoc. Scientist, Woods Hole Oceanographic Inst., Woods Hole, Mass.
GRADUATED: 1965. FIELD OF SPECIALIZATION: Marine Geology.

Joined Dept. of Geology and Geophysics at WHOI in 1965, have had numerous cruises to Red Sea, Black Sea, Persian Gulf and the Mediterranean. Have been Co-chief Scientist on two DSDP cruises. Wrote oceanography text and edited two other books, have recently become interested in ocean policy matters and am on several ocean policy committees. Am a Lecturer at MIT and at Fletcher School of Law and Diplomacy.

SALMON, Rick - 9515-A28 Genesee, San Diego, CA 92121

Asst. Professor, SIO, A-025.
GRADUATED: 1975. FIELD OF SPECIALIZATION: Physical Oceanography.

1975-1977: Asst. Research, SIO. 1977-present: Asst. Prof. SIO.

SAUR, J. F. Theodore - 134 Brookdale Pl., Solana Beach, CA 92075
Mary (spouse) and two children: Eric and Jeffrey. 714-755-3827

Specialist (NORPAX Program), SIO, A-003.
GRADUATED: 1948 (M.S.) FIELD OF SPECIALIZATION: Descriptive Phys. Ocean.

In 30 years since leaving SIO in 1948, have been at U. S. Navy Electronics Lab, San Diego (9 years), Bur. Comm. Fish., Ocean Res. Lab, Stanford, CA (13 years), and NMFS, SW Fisheries Ctr., La Jolla (4.5 years), which include 1 semester teaching, Texas A&M, and 1 year study OSU (Ore.). Had valve job on heart in Oct. 1972, retired U. S. Civil Service in Dec. 1974, and made full circle by joining NORPAX Program at SIO in January, 1975. Last 12 years on XBT monitoring project that I started in 1966. Now working only part-time. Mary does volunteer work and plays golf now. We always enjoy seeing friends who visit this area.

SCANLAND, Thomas B - 73 Nassau, Kenner, LA 70062
Teresa (spouse) and one daughter: Teresa.

Associate, Dames & Moore, Suite 4530, One Shell Square, New Orleans, LA 70130. Assignment: Program Manager, Bureau Land Management OCS Program for Mississippi, Alabama and Florida.

GRADUATED: 1970. FIELD OF SPECIALIZATION: Marine ecology.

1970-71: Consulting, Marine Advisers, Inc., Solana Beach, CA. 1971-73: Independent consulting, Solana Beach, CA. 1973-78: Consulting, Dames and Moore. 1972-73: Instructor San Diego State University. 1975-77: Manager, Dames and Moore Tokyo Office. 1977-present: MAFCA OCS Program Manager, major assignments: LBG terminal studies in Alaska and Calif., Nuclear Power Plant Studies in Iran, Japan, CA; port development studies in CA, Alaska, Texas, Samoa, Marshall Is; Refinery studies in Japan, Canada, Calif.; Aluminum studies in Spain; OCS studies in the Gulf of Mexico.

SCHEER, Bradley T. - 1905 Mission Ridge Road, Santa Barbara, CA 93109.
Marlin Ann Ray (spouse)

Retired; Professor of Biology Emeritus, U. of Oregon.

GRADUATED: Ph. D., Berkeley, 1940. FIELD OF SPECIALIZATION: Comparative Physiology.

Instructor, Botany & Zoology, W. Va. U., 1940-42. Post-doctoral Coll. of Phys. and Surg., Columbia, 1942-43. Instructor, in-charge Kerckhoff Marine Lab., Calif. Inst. Tech. 1943-45. Asst. Prof. Biochemistry & Nutrition, USC Med. Sch., 1945-48. Asso. Prof. Zoology, U. of Hawaii, 1948-50. Asso. Prof. Biology, U. of Oregon, 1950-53, Professor 1953-77. Dept. head 1957-64, emeritus 1977-present. Fulbright Fellow, Italy, 1953-54 (Stazione Zoologica, Naples, & Dept. Comp. Anat., U. Palermo); Guggenheim Fellow, France,; Laboratoire Arageo, Banyuls/Mer & Station Zoologique, Villefranche/Mer.

SCHINK, David - 1002 Arboles, College Station, TX 77840

Lee Burnette (spouse) and four children: Jonathan, Julian, Alison and Roger.

Professor Oceanography, Dept. of Oceanography, Texas A&M, College Station, Texas. 77843

GRADUATED: 1962. FIELD OF SPECIALIZATION: Chemical oceanography.

Asst. Prof., Univ. of Rhode Island, 1962-66. Manager, Air-Ocean Studies, Teledyne-Isotopes, Palo Alto Laboratories 1966-71. Assoc. Prof. Oceanography and Asst. Dean, College of Geosciences, 1972, Prof. Oceanography, Texas A & M, 1976.

SCHROEDER, Roy Allen - 164 Delaware Turnpike, Del Mar, New York. 12054

Water Quality Specialist and Hydrologist for New York District, U. S. Geological Survey, PO Box 1350, Albany, NY 12201

GRADUATED: 1974. FIELD OF SPECIALIZATION: Marine Chemistry.

continued.

SCHROEDER, Roy Allen continued.

1974-76: Instructor of Geology & Geophysics, Yale Univ., New Haven, Conn.
1976-78: Assistant Professor of Geology & Geophysics, Univ. Utah, Salt Lake City.
1978-present: Water Quality Specialist & Hydrologist for New York District, Albany, New York.

SCHWEIGERT, James M. - 745 Jamaica Ct., San Diego, CA 92109

Vice President and General Manager, PRC Marine Systems Division,
5252 Balboa Ave., Suite 1000, San Diego, CA 92117
GRADUATED: 1973. FIELD OF SPECIALIZATION: Applied Ocean Science.

I have worked for a couple of companies in the Marine Engineering and Naval Architecture field since leaving SIO. I have held a variety of engineering and management positions for Planning Research Corporation (PRC). I have been recently promoted to V.P. and G.M. of their Marine Systems Division which includes about 250 employes in 7 major port areas of the U. S. This division provides planning and engineering for naval and merchant forces.

SEYMOUR, Richard J. - 6530 Manana Place, La Jolla, CA 92037

Barbara (spouse) and one son: Mark Wilson

Staff Oceanographer, Calif. Dept. of Navigation and Ocean Devl.; Research Associate, SIO, A-022 UCSD
GRADUATED: 1974. FIELD OF SPECIALIZATION: Coastal Oceanography.

Although I've never left, I will relate that I have been involved in studying the coastal wave climate of California, in the development of a floating breakwater, and in studies of longshore sediment transport.

SHARMAN, George - 3110 Hummingbird Circle, Bryan, Texas 77801

Marti (spouse) and two children: George Frederick (IV) and either Martha Helene or David William (expected June 1978).
Assistant Professor, Oceanography Dept., Texas A&M Univ., College Station, Texas 77843.
GRADUATED: 1976. FIELD OF SPECIALIZATION: Marine geology/Geophysics

One semester of instruction in Geology at SDSU combined with consulting work under Gustaf Arrhenius, followed by the move to TAMU in Fall, 1977.

SHARP, Gary D. - 13520 Olive Tree Ln, Poway, GA 92064.

Inter-American Tropical Tuna Commission, c/o SIO
GRADUATED: 1972. FIELD OF SPECIALIZATION: Tuna Genetics and Physiological Ecology of Marine Organisms.

I continued genetic studies of tunas. I have worked upon the respiration pigments of delphinid cetaceans and scombroid fishes. I have completed studies of energetics in the eastern Pacific yellowfin tuna which led to my convening a workshop on the physiology of tunas, and subsequently a book entitled The Physiological Ecology of Tunas, edited by myself and Andrew E. Dizon which will

continued.

SHARP, Gary D. continued

be released this year. I am taking a 3 year post with FAO in Rome to study environmental effects on apparent abundance changes in exploited marine resources in late June, 1978.

SHOLKOVITZ, Dr. Edward - 9 MacDowall Rd., Edinburgh, Scotland.
Mary (spouse) and one child: Nathan.

Lecturer, Dept. of Geology, University of Edinburgh, Scotland.
GRADUATED: 1972. FIELD OF SPECIALIZATION: Chemical Oceanography.

University of Edinburgh Lecturer since leaving SIO. Concentrated on Estuarine chemistry. Main scientific achievement is to have developed a new approach which has helped establish chemical reactions which occur when rivers mix with seawater.

SHULENBERGER, Eric - 112 Bosworth Street, Slidell LA 70458

Director, Oceanic Biology Program, U. S. Navy Office of Naval Research (Code 484), Director, Oceanic Biology Program, NSRL Station, Mississippi 70458
GRADUATED: 1976. FIELD OF SPECIALIZATION: Biological Oceanography

Moved to Slidell, LA upon graduation in Sept. 1976. Took position as Assistant Director of ONR-484. Became director in Feb. 1977, and continue in that position to date. Intending to leave bureaucracy for science as soon as possible.

SHUMWAY, Dr. George - R.D. 7 Box 388B, York, PA 17402
Five children: Loren, M. Roger, Holly, Caroly, and Eric.

Publisher of books dealing with antique art, Americana, and antique firearms.
GRADUATED: 1959. FIELD OF SPECIALIZATION: Marine Geology

Worked as Oceanographer for U. S. Navy Electronics Laboratory until Spring 1962. After that have lived and worked in York, Pennsylvania. I run a very small book publishing company, George Shumway Publisher.

SIMMONS, Vernon P. - QTRS 85W, NUSC, New London, CT 06320
Lida (spouse) and one son: Mark P.

Deputy OMAT Program Manager, Naval Underwater System Center, New London, CT 06320
GRADUATED: 1975. FIELD OF SPECIALIZATION: Oceanography (Acoustics)

After leaving SIO I proceeded to the Naval Underwater System Center for work. After a period of introduction, I assumed the duties of Deputy program manager for a 26 million dollar acoustic research and development effort.

SINNETT, Everett E. - 401 Engamore Ln., Apt. 107, Norwood, Mass. 02062
Rachel (spouse)

Research Fellow, Physiology Dept., Harvard School of Public Health, 665 Huntington Ave., Boston, Mass. 02062.
GRADUATED: 1977. FIELD OF SPECIALIZATION: Marine Biology, Respiratory Physiology.

SINNETT, Everett E. continued

Rachel and I had an enjoyable vacation after leaving Scripps in Feb of 1977, taking a week to drive across country as well as two weeks in Puerto Rico and Miami. I started work at the Harvard School of Public Health in March where I've been studying comparative respiratory mechanics in mice and dolphins. In October, 1977 I began a two month leave from my post-doc to accompany Jerry Kooymann of the PRL on his expedition to Antarctica to study the blood chemistry and diving ability of Weddell seals. Rachel is now employed at Bear Stearns and Co. and will soon be a registered stock broker.

SMITH, Gary Bartlett - 4207 West Mercer Way, Mercer Island, Washington 98040
Fay (spouse)

Oceanographer (Groundfish Assessment Research), Northwest and Alaska Fisheries Center, 2725 Montlake Boulevard East, Seattle, WA 98112.
GRADUATED: 1974. FIELD OF SPECIALIZATION: Biological Oceanography.

1974-75: Post-doctoral Fellowship, Institute of Marine Research, Bergen, Norway.
1976-present: Oceanographer, Resource Assessment Division, National Marine Fisheries Service, Seattle, Washington.

SNYDER, Russell L. - 1506 SE 12 CT., Ft. Lauderdale, FLA 33316
Johanna (spouse) and two children: Garth and Gavin.

Professor, physical oceanography, Nova University Ocean Science Center, 8000 N. Ocean Dr., Dania, Fla.
GRADUATED: 1965. FIELD OF SPECIALIZATION: Physical Oceanography.

1964-68: University of Miami, 1968-present: Nova University, professor of physical oceanography. Have been using Bahama Bank Site as field laboratory to study 1) wave induced atmospheric pressure fluctuations, 2) whitecaps and 3) tidal friction. Designed and built a 36' cruising ketch. Will be departing on extended cruise in Jan., 1979. Am currently playing viola professionally with Ft. Lauderdale symphony and with "Classici" chamber group.

STALLARD, Martha O. - 4125 Cole Way, San Diego, CA 92117

Data Collection and Processing Group, SIO S-001, La Jolla, CA 92093
GRADUATED: 1974. FIELD OF SPECIALIZATION: Marine chemistry.

After graduation I went to Galveston, Texas, to work with Jim Kittredge at the Marine Biomedical Institute for a year. I spent the following two years as a postdoctoral fellow doing marine natural products research with Bill Fenical at Scripps. I am now working with the Data Collection and Processing Group at Scripps.

STEWART, Harris B. Jr. - 737 N. Greenway Dr., Coral Gables, Florida 33134
Leelee (spouse) and two children: Dodie and Harry.

Director, NOAA, Atlantic Oceanographic and Meteorological Laboratories, NOAA - AOML, 15 Rickenbacker Cswy, Virginia Key, Miami, Florida 33149
GRADUATED: 1956. FIELD OF SPECIALIZATION: Geological Oceanography.

U. S. Coast and Geodetic Survey, 1957-1965. Chief Oceanographer and Deputy Asst. Director, USC & AS 1960 - 65. Director Atlantic Oceanographic and Meteorological Labs. ESSA then NOAA 1965-present. President Florida Academy of Sciences 1978-79. President, Zoological Society of Fla. 1969-72. Chief Scientist on Explorer 1960, Pioneer (HIOE) 1964, Discoverer 1968, 1972, 1973, Researcher 1975, 1977.

STEWART, Robert - 9595 Genesee Ave., C-1, San Diego, CA 92121
One child: Alethea

Asst. Res. Oceanographer, SIO, A-025.
GRADUATED: 1969. FIELD OF SPECIALIZATION: Physical Oceanography.

Continued working at SIO after graduation, applying scattered radio waves to study the sea surface.

STOCK, Gerard - La Hount Barrade, 31800 Saint Gaudens, France
Jacqueline (spouse) and two children: Christopher and Nathalie.

S.N.E.A. (P) Eta de Boussen, 31360 Saint Martory, France.
GRADUATED: 1976. FIELD OF SPECIALIZATION: Physical oceanography.

Research Engineer (Petroleum engineering) with Societe Nationale Elf Aquitaine (Production).

STONECIPHER, Sharon A. - 6004 S. Fairfield St., Littleton, CO 80120

Research Geologist, Marathon Oil Denver Research Center, PO Box 269,
Littleton, CO 80160
GRADUATED: 1977. FIELD OF SPECIALIZATION: Marine geology

I've only been gone from SIO for a little more than a year now. In that time I've been working here at the Research Center on tertiary recovery. It's quite a step from deep-sea geolites to interactions between sandstones and pH 14 solutions but the transition has been interesting. I love Denver, have bought a house and am learning how to ski.

STUEBER, Alan M. - 1932 Northwood Dr., Knoxville, TN 37919
Bonnie (spouse) and one son: Eric

Research Geochemist - Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN 37830.
GRADUATED: 1965. FIELD OF SPECIALIZATION: Earth Sciences

Post-doctoral work at Carnegie Institution of Washington, Wash. D. C.; taught at Miami University (Ohio) and at Los Angeles State Univ.; present position at Oak Ridge Natl. Laboratory.

SUHAYDA, Joseph N. - 632 College Hill Dr., Baton Rouge, LA 70808

Merle Rae (spouse) and two children: Joseph Anthony and Jennifer Michelle

Associate Professor Marine Science, Coastal Studies Institute, Louisiana State University, Baton Rouge, LA 70803.
GRADUATED: 1972. FIELD OF SPECIALIZATION: Physical Oceanography - Coastal Processes.

Assumed present position in 1972 after graduation. Have taught several courses in the Marine Science Dept. at LSU and have conducted research under ONR and USGS funding. The ONR research has concerned the variability of shallow water wave processes in different coastal environments and has involved field work in Alaska, British West Indies, Brazil, Nicaragua and several U. S. locations. The USGS work has concerned the stability of shelf sediments on the Mississippi Delta.

SULLIVAN, Dr. Cornelius W. - 5629 Marjalinga St., Torrance, CA 90503.
Jill (spouse) and two children: Shane and Preston

Assistant Professor, Dept. Biological Sciences, University of Southern California, Los Angeles, CA 90007.

GRADUATED: 1971. FIELD OF SPECIALIZATION: Marine Microbiology.

My research interests are: 1) Biomineralization - silicification in diatoms and 2) Carbon cycling in the coastal zone by microheterotrophs.

SZMANT-FROELICH, Alina - 110 Rodman St., Narragansett, R.I., 02882
Philip N. Froelich, Jr. (spouse) and one on the way.

Graduate School of Oceanography, Univ. of Rhode Island, Kingston, R.I. 02881
GRADUATED: 1970. FIELD OF SPECIALIZATION: Marine biology.

July 1970: member of all-female Aquanaut team, Tektite II. I then moved to Dept. of Marine Sciences, Univ. of Puerto Rico, for 1 year and then transferred to Radioecology Division of the Puerto Rico Nuclear Center, where I worked on coral reef ecology. In 1973 we moved to Rhode Island, where I worked for 1 year for Raytheon's Oceanographic Services Laboratory, as head of their Benthic Group. In 1974 I started in the Ph.D. program at U.R.I. in Oceanography (part time) while working as a Res. Assoc. on experimental microcosms. I hope to finish dissertation on coral physiology by spring of 1979.

TAFT, Bruce - 1015 Newton, Seattle, WA 98102.
Karen (spouse) and one child: Joshua

Associate Professor, Dept. Oceanography, Univ. Washington, Seattle, WA 98195
GRADUATED: 1965. FIELD OF SPECIALIZATION: Physical Oceanography.

Research Asst., Oceanographer, SIO 1965-68. Asst. Professor SIO, 1968-73, Research Associate Professor, Dept. Oceanography and Senior Oceanographer, Applied Physics Laboratory, Univ. of Washington, 1973-78.

TAYLOR, F. H. C. - 3306 Stephenson Pt. Rd.

Madge (spouse) and five children: Michael, Timothy, Heather, Jenny and Brenda.

Research Scientist, Pacific Biological Station, Nanaimo, BC.
GRADUATED: 1956/57. FIELD OF SPECIALIZATION: Fisheries Biology.

Since finishing the course work for my degree in 1950 I have worked for the Fisheries Research Board of Canada and its successor (after several reorganizations) the Resource Service Branch of the Dept. of Fisheries. During this time I was involved in an international investigation of fur seals, then in charge of the herring investigation for a number of years, and in recent years am in charge of the hydroacoustic investigation.

TAYLOR, Leighton R., Jr. - 3170 Noela Drive, Honolulu, HA 96815
Linda (spouse) and two children: Rob and Maria.

Director, Waikiki Aquarium, 2777 Kalakaua Avenue, Honolulu, Hawaii, 96815.
GRADUATED: 1972. FIELD OF SPECIALIZATION: Marine Biology - Ichthyology.

1972-75 employed by U. S. Dept. of Interior, U. S. Fish and Wildlife Service as fishery biologist in Honolulu. 1975-present: Director of Univ. of Hawaii, affiliated public aquarium. Member, graduate faculty of zoology, Univ. of Hawaii - involved in research on coral reef fish, sharks, and tropical seals.

TAYLOR, Peter B. - 2611 62nd Ave N. W., Olympia, WA 98502.
Virginia (spouse) and three children: Linda, Paul, and Ian.

Member of the Faculty, The Evergreen State College, Olympia, WA 98505
GRADUATED: 1964. FIELD OF SPECIALIZATION: Marine Biology.

Oct 1963 - June 1964: NSF Post-doctoral Fellow, Systematics - Ecology Program, Marine Biological Laboratory, Woods Hole. July 1964 - Aug. 1971: faculty, Department of Oceanography, University of Washington, Seattle. Sep. 1971-present: faculty, The Evergreen State College, Olympia. Marine related interests: benthos ecology, coastal natural history, venomous marine fishes, coastal zone management, marine aquaculture.

TEGNER, Mia Jean - 128 6th St., Del Mar, Calif. 92014

Assistant Research Marine Biologist, SIO, A-001.
GRADUATED: 1974. FIELD OF SPECIALIZATION: Marine Biology.

Some of us find it hard to leave home. Having become very interested in sea urchins during the course of my graduate work on fertilization, I accepted a post-doc with Paul Dayton at SIO to study urchin ecology. The objectives of this project were to describe the parameters of urchin natural history and population dynamics necessary to manage the rapidly expanding fishery and to protect the animal from overexploitation. This study has led into more general considerations of community ecology and the multispecies approach to the management of kelp bed resources - and a research position at SIO. One of my current projects is an examination of the scientific and economic feasibilities of enhancing abalone population in depleted areas of Southern California.

THISTLE, David - 1597 Fuller Dr., Tallahassee, FL 32303
Anne (spouse)

Assistant Professor, Dept. of Oceanography, Florida State University.
GRADUATED: 1977. FIELD OF SPECIALIZATION: Biological Oceanography.

I left SIO in June and traveled East. In August, I spent three weeks in Europe before giving a paper at the Third International Meiofaunal conference. Since September, I have been on the faculty at FSU beginning a program of research in shallow-water meiofaunal ecology.

TREADWELL, T. K. - 4201 Nagle Road, Bryan, Texas, 77801
Neil (spouse) and two children: Terry and Phil

Professor of Oceanography, Assistant Department Head and Marine Operations Manager, Department of Oceanography, Texas A & M University, College Station, Texas, 77843.
GRADUATED: 1950. FIELD OF SPECIALIZATION: Geological Oceanography, Marine Science Administration.

Field hydrographic surveys and oceanographic research, Naval Oceanographic Office, 1950-59 (Caribbean, Latin America, Canadian Arctic, Greenland, Middle East). Chief of U. S. Naval Mission to Republic of Haiti, 1959-61. Science Administration and research in geological oceanography, Naval Oceanographic Office, 1961-69, Commander of Oceanographic Office 1967-69. Navy Captain. White House Staff (Marine Sciences Council) Chief Oceanographer, 1970-71. Texas A & M University, Professor of Oceanography, Assistant Department Head, Marine Operations Manager, 1971-present.

TUCKER, Brian Edwin - 681 San Lorenzo St., Santa Monica, CA 90402

Res. Assoc., Dept. Earth and Plan. Science, Mass. Inst. Technology,
54-814, Cambridge, MA 02139
GRADUATED: 1975. FIELD OF SPECIALIZATION: Seismology.

Research Associate at MIT, participant in US/USSR joint earthquake prediction program since 1975. Research involves earthquake source mechanism and soil response studies.

TURK, John T. - 164 Delaware Tnpk., Delmar, New York 12054
Sara Suzanne (spouse) and one daughter: Cher Alice

U. S. Geological Survey, P. O. Box 1350, Albany, New York 12201
GRADUATED: 1975. FIELD OF SPECIALIZATION: Marine chemistry.

Suzu, Cher and I readily adapted to the change in climate and life-style caused by our move from La Jolla to Albany. The country near town proved to be to our liking and we have taken advantage of the many sports available both summer and winter. About two years ago we moved to a 3 acre farm a few miles from town and have raised the obligatory chickens, ducks, goats, etc. My work emphasizes geochemical concepts that I learned at Scripps and keeps me involved constantly with the numerous lakes, rivers, marshes, and estuaries in New York State. Working with the U.S.G.S. has also provided me the opportunity to keep in touch with many of my former classmates from Scripps.

UCHIO, Takayasu - 2-109, Yoshino-cho, Omiya-shi, Saitama-ken, Japan
Yoshiko (spouse) and one child: Takayuki.

Professor, Department of Mineral Development Engineering, Faculty of Engineering, University of Tokyo. 7-3-1, Hongo, Bunkyo-ku, Tokyo, Japan.
FIELD OF SPECIALIZATION: Stratigraphy, Micropaleontology, Marine Geology.

UPDEGRAFF, David M. - 1834 Smith Rd., Golden, CO 80401

Betti (spouse) and three children: Janice, Jeffrey and Wendy.

Colorado School of Mines, Golden CO 80401

GRADUATED: 1948. FIELD OF SPECIALIZATION: Marine microbiology.

1948-55: research in Petroleum Microbiology, Mobil Oil Co., 1955-68: research in Applied Microbiology 3 M Co., St. Paul, Minn.. 1968-72: Head of Microbiology Research Section, Chemical Division, Denver Research Inst. University of Denver. 1972-75: Leader, Research Section, Cawthron Institute, Nelson, New Zealand. 1975-77: Vice President, Resource Industries International Ltd. (consulting firm in Denver). 1977-present: Professor of Biogeochemistry, Colorado School of Mines, Golden, Colorado.

VAN DORN, William G. - 13652 Mercado Dr., Del Mar, CA 92014

Nancy (spouse) and three children: Richard, Carol (Lamoureux) and Lisa.

Research Oceanographer, SIO, A-015.

GRADUATED: 1953. FIELD OF SPECIALIZATION: Physical Oceanography.

VAN HERZEN, Dick - Box 271 Woods Hole, Mass. 02543
Janice (spouse) and two children: Brian and Carol.

Scientist, WHOI, Woods Hole, Mass. 02543
GRADUATED: 1960. FIELD OF SPECIALIZATION: Geophysics.

UNESCO 1964-66. WHOI 1966-present. SIO visiting scientist and lecturer 1974-75.

VEEH, Hans Herbert - 44 Cedar Ave, Brighton, South Australia 5048
Gail (spouse) and one child: Elke.

Senior Lecturer, School of Earth Sciences, Flinders University, Bedford
Park, S.A. 5042.
GRADUATED: 1965. FIELD OF SPECIALIZATION: Marine geology and geochemistry.

1965-67: Research Staff Geologist, Yale University. 1967-70: Research Fellow,
Department of Geophysics and Geochemistry, Australian National University.
1970-73: Asst. Prof., Department of Geology and Geophysics, University of Hawaii.
1973-present: Senior Lecturer, School of Earth Sciences, Flinders University of
South Australia.

VETTER, Richard C. - 2030 F. Street, N. W., Washington, D.C. 20006
Sylvia Haidari (spouse) and three children: David Bruce, Richard Dean,
and Robert Alan.

Executive Secretary, Ocean Sciences Board, National Research Council,
2101 Constitution Avenue, Washington, D.C. 20418
GRADUATED: 1951. FIELD OF SPECIALIZATION: Physical Oceanography.

February-September 1951: Taught math to members of the armed forces and civilian
personnel in Japan and Guam as an instructor for the University of California
Far East Extension Division. December 1951 - October 1957: Served with the
Geophysics Branch of the Office of Naval Research, Washington, D.C., planned
microseismic installation in Guam; organized ocean wave stereo project, served
as ONR rep. with bathyscaphe Trieste dives based out of Naples, Italy.
November 1957 - present: served as Executive Secretary of NASCO, later Ocean
Affairs Board, now Ocean Sciences Board. Organized workshops (Physical and
Chemical Properties of Sea Water, 1959; Ocean Wave Spectra, 1961; Radioactivity
in the Marine Environment, 1967; Numerical Models of Ocean Circulation, 1972,
Petroleum in the Marine, 1973; etc.), arranged uncounted meetings and *ad hoc*
studies, and helped serve as a link in the ocean-science-management-affairs-
policy structure.

WALTON, William R. - 230 Dempster, Evanston, Illinois 60202
Ann (spouse) and two children: Juliana and Jan.

Exploration Manager, Amoco International Oil Company, 200 E. Randolph
Drive, Chicago, Illinois 60680.
GRADUATED: 1954 Ph.D. FIELD OF SPECIALIZATION: Marine Geology and Ecology.

Paleoecologist, Gulf Research and Development Company, Pittsburg, Pennsylvania
1953-57. Paleocologist and sedimentologist, Exploration Dept., Pan American
Petroleum Corporation, Tulsa, 1957-58. 1958: Pan American Texas-Louisiana
Gulf Coast Division, Houston, Texas; Division Consulting Geologist, 1960.
Geological Geochemical Research Director, 1963. Chief Geologist, Amoco
Production Company, (formerly Pan American), 1973, and Chief Geologist, Amoco
International Oil Company 1975.

WARNER, Robert R. - 3860 Sunset, Santa Barbara, CA 93110
Isabel F. Downs (spouse).

Assistant Professor, UCSB, Dept. Biological Sciences, Santa Barbara, CA 93110
GRADUATED: 1973. FIELD OF SPECIALIZATION: Marine Biology.

Post-doctoral Fellowship, Smithsonian Tropical Research Institute, Panama,
1973-75. Assistant Professor, U.C.S.B. 1975-present.

WEISEL, George F. - Rt No. 5, Missoula, Mt.

Angela (spouse) and two children: Thula, and George III.

Professor of zoology, Zoology Dept., Univ. Mont., Missoula, MT. 59801
GRADUATED: 1948. FIELD OF SPECIALIZATION: Ichthyology

Teaching and research at Univ. Mt. since 1947. Research areas include the histology of the digestive systems, integument and gonads of fish and osteology of fish. Active in the field of conservation and preservation of wilderness areas.

WEISS, Ray F. - 1326 Park Row, La Jolla, CA 92037.
Portia (spouse)

Asst. Research Geochemist, SIO, A-020.
GRADUATED: 1970. FIELD OF SPECIALIZATION: Geochemistry.

Assistant Research Geochemist at SIO. Work in recent years has included trace gases in the atmosphere and the sea, the Geosecs Program, hydrothermal plumes at spreading centers, and most recently manganese nodule studies through in situ measurements.

WIEBE, Peter H. - 385 Quissett Ave., Falmouth, Mass. 02540
Judith (spouse) and two children: Travis and Aaron.

Associate Scientist, Woods Hole Oceanographic Institution, Woods Hole, Mass. 02543
GRADUATED: 1968. FIELD OF SPECIALIZATION: Biological Oceanography.

1968-69: one year post-doctoral at Hopkins Marine Station. 1969-74: Assistant Scientist at WHOI, 1974-present: Associate Scientist at WHOI.

WILLIAMS, Gordon O. - 4510 Mt. Highpine Pl, San Diego, CA 92117
Marilyn (spouse) and two children: Earl and Elizabeth.

UCSD, IGPP A-025.
GRADUATED: 1975. FIELD OF SPECIALIZATION: Physical oceanography.

I have remained at SIO successfully fending off munificent offers elsewhere. I have been working on remote acoustic sensing of oceanographic variables with Walter Munk, Peter Worcester and Bernie Zetler. I am currently preparing an independent proposal for continued work in the same area of study.

WILLIAMS, Peter M. - 1180 Oribia Rd., Del Mar, CA 92014

Elizabeth (spouse) and three children: Kristen, Michael and Megan.

Research Chemist, SIO - IMR, SIO A-018.

GRADUATED: 1960. FIELD OF SPECIALIZATION: Marine Chemistry.

1960-63: Assistant Professor, Institute of Oceanography, University of British Columbia, Vancouver, B.C., Canada. 1963-present: Institute of Marine Resources, SIO, UCSD. Assistant Research Chemist to Research Chemist.

WILSON, Clark R. - 702 Don Dale, Austin, TX 78746.

Ellin (spouse)

Assist. Professor of Geophysics, Dept. of Geological Sciences, Univ. of Texas, Austin, TX 78712.

GRADUATED: 1975. FIELD OF SPECIALIZATION: Geophysics.

Assistant Professor of Geophysics at U. T., Austin 1976-present.

WINDOM, Herbert L. - 6 Marmaduke Lane, Savannah, Georgia 31406

Patricia (spouse) and two children: Kevin and Beth.

Associate Professor, Skidaway Institute of Oceanography, PO Box 13687, Savannah, Georgia 31406.

GRADUATED: 1968. FIELD OF SPECIALIZATION: Marine Geochemistry.

Joined staff of the Skidaway Institute after leaving Scripps. I have been conducting research on the biogeochemical cycling of trace elements in coastal, estuarine and continental shelf ecosystems. I have adjunct appointments at the Georgia Institute of Technology and the University of North Carolina and direct graduate research of students from these institutions.

WITHERS, Nancy - 1844 Camino del Mar, Del Mar, CA 92014.

Robert Tuttle (spouse)

Post-doctorate Research Biologist, SIO, A-002.

GRADUATED: 1976. FIELD OF SPECIALIZATION: Marine Biology.

1976-77: 1) went on a Leverhulme Commonwealth Postdoctoral Fellowship to the Dept. of Biochemistry, The University, Liverpool, U. K. in the lab of T. W. Goodwin; 2) Norwegian Technical Institute, Trondheim, Norway with Prof. S. Liaaen-Jensen on algal carotenoids. 3) returned to SIO as NSF post-doc in marine botany (1978).

WOLFSON, Arthur - 649 S. Vulcan, Encinitas, CA 92024.

Partner, International Biological Consultants.

GRADUATED: 1973. FIELD OF SPECIALIZATION: Marine ecology.

Specialist in the field of epifaunal community structure and dynamics. Currently performing a long-term field program to establish coral reef baseline conditions in the Red Sea at Yanbu, Saudi Arabia, prior to construction of an oil transshipment facility. Wide ranging international experience assessing environmental impacts from coastal power generation; surveying coral reef communities; developing bio-fouling control procedures; studying offshore oil platform ecology, and documenting baseline biological conditions.

WONG, C.S. (Chi Shing) - 5271 Hanover Place, Victoria, B.C. V8Y 2C7, Canada.
Emmy (spouse) and two children.

Chief, Ocean Chemistry Division, Institute of Ocean Sciences, P.O. Box
6000, 9860 W. Saanich Road, Sidney, B.C. V8L 4B2, Canada.
GRADUATED: 1968. FIELD OF SPECIALIZATION: Chemical Oceanography.

Joined the Canadian federal government since leaving SIO, as Research Scientist.
As Scientist-in-charge of the Chemical Program of the Weathership "P" in the
then "Pacific Oceanographic Group" in Nanaimo Biological Station, under Marine
Sciences Branch, Department of Energy, Mines and Resources (1968-71). As
Chief, Ocean Chemistry Division of Ocean and Aquatic Sciences, Pacific Region,
under Department of Fisheries and Environment (1971-present), in charge of
chemical oceanographic and environmental research and surveys in the Pacific
Region in fields of carbon dioxide cycle, trace metals, hydrocarbons and oceanographic
studies in the Pacific, Arctic and B.C. coastal waters.

WOOSTER, Warren S. - 8507 53rd Ave. NE, Seattle, WA 98115.

Clarissa (spouse) and three children: Susan Allen, Daniel and Dana.

Professor of Marine Studies and Fisheries, Institute of Marine Studies
HA-35, University of Washington, Seattle, WA 98105.
GRADUATED: 1953. FIELD OF SPECIALIZATION: Physical oceanography,
fisheries, marine affairs.

At Scripps from 1947-73 except for 1957-58 as Director of Investigations, Peruvian
Council of Hydrobiological Investigations, and 1961-63 as Director of Unesco
Office of Oceanography; Professor, 1963-73; Dean of Rosenstiel School, University
of Miami, 1973-76, at University of Washington since 1976.

WORCESTER, Peter - 4701 Ramsay Ave., San Diego.

Donna (spouse) and one son: Matthew.

Post-graduate Research Oceanographer, IGPP, SIO.
GRADUATED: 1977. FIELD OF SPECIALIZATION: Physical oceanography.

Remained at SIO as a Post-graduate Research Oceanographer.

WORMUTH, John H. - 1003 Arboles Circle, College Station, TX 77840.

Deanna (spouse) and two children: Christine and Jennifer.

Associate Professor, Texas A&M University, Dept. of Oceanography, College
Station, TX 77843.
GRADUATED: 1971. FIELD OF SPECIALIZATION: Biological.

Spent one year with Intersea Research in Sorrento Valley. Came to A&M in 1972
as Assistant Professor. Became Associate Professor in 1977. Presently
working on multidisciplinary program with WHOI and URI on Gulf Stream Rings.

YOSHI-KA, Paul M.

Beverly (spouse)

Scientist I. Center for Energy and Environment Research, College Station,
Mayaguez, Puerto Rico 00708
GRADUATED: 1973. FIELD OF SPECIALIZATION: Biological oceanography.

YOUNG, Dr. David R. - 6154 Via Escondido, Malibu, CA 90265.

Jean (spouse) and two children: Kirsten S. and Michael D.

Southern California Coastal Water Research Project, 1500 E. Imperial Hwy, El Segundo, CA 90245.

GRADUATED: 1970. FIELD OF SPECIALIZATION: Chemical and Biological oceanography.

While finishing my doctoral work at Scripps in 1970, I joined SCCWRP to head up the chemistry department, and have been there ever since. Our principal research interests involve inputs, fates, and ecological effects of trace constituents (such as heavy metals and chlorinated hydrocarbons) in the coastal waters off Southern California. We recently have completed a large study for EPA documenting the major inputs of DDTs, PCBs, and chlorinated benzenes to our marine ecosystem, and are now working on a NSF grant involving the question on marine food web structure, and the extent to which pollutants are really bioamplified through the feeding process. In addition, there are periodic requests to assist various government agencies on environmental problems, which (along with a marvelous family and the sun and surf of Malibu) makes life stimulating and rewarding.

YNEN, David A.

Post-doctoral Fellow, Dept. of Earth and Sp. Sci., University of California, Los Angeles, CA 90024.

GRADUATED: 1973. FIELD OF SPECIALIZATION: Geophysical Fluid Dynamics.

I have completed my doctoral thesis on the thermal mechanical structure of the Earth's upper mantle and the issues of shear heating instabilities arising from mantle rheology. I plan to go to U. Toronto this summer (1978).

ZALKAN, Robert L. - 117 Rue Aries, Slidell, LA 70458.

Kaye (spouse) and two children: Julie and Todd.

Acting Head, Oceanography Division, Naval Ocean Research and Development Activity, (Code 330), NSTL Station, MS 39529.

GRADUATED: 1968 FIELD OF SPECIALIZATION: Physical oceanography.

Navy Nuclear Power Training: 1968-69. USS SARGO: 1969-71. USS ENTERPRISE:

1971-74. Military Research Associate - Lawrence Livermore Laboratory: 1974-77.

(2 years in nuclear explosive design, 1 year atmospheric and geophysical research.)

NORDA - Naval Oceanographic Laboratory - Acting Head Oceanography Division: 1977-present.