

0049363

American Men & Women of Science

1989-90 • 17th Edition



A Biographical Directory of Today's Leaders in
Physical, Biological and Related Sciences.

Volume 7 • T-Z

R. R. BOWKER
New York

Published by R.R. Bowker, a division of Reed Publishing,
(USA) Inc.

Copyright © 1989 by Reed Publishing (USA) Inc. All rights reserved. Except as permitted under the Copyright Act of 1976, no part of *American Men and Women of Science* may be reproduced or transmitted in any form or by any means stored in any information storage and retrieval system, without prior written permission of R.R. Bowker, 245 West 17th Street, New York, New York 10011.

International Standard Book Number

Set: 0-8352-2568-2

Volume I: 0-8352-2569-0

Volume II: 0-8352-2570-4

Volume III: 0-8352-2571-2

Volume IV: 0-8352-2572-0

Volume V: 0-8352-2573-9

Volume VI: 0-8352-2574-7

Volume VII: 0-8352-2575-5

Volume VIII: 0-8352-2576-3

International Standard Serial Number: 0192-8570

Library of Congress Catalog Card Number: 6-7326

Printed and bound in the United States of America.

R.R. Bowker has used its best efforts in collecting and preparing material for inclusion in this publication, but does not warrant that the information herein is complete or accurate, and does not assume, and hereby disclaims, any liability to any person for any loss or damage caused by errors or omissions in *American Men and Women of Science*, whether such errors or omissions result from negligence, accident or any other cause.

8 Volume Set

ISBN 0-8352-2568-2



9 780835 225687

The 17th edition of AMERICAN MEN & WOMEN OF SCIENCE
was prepared by the R.R. Bowker Database Publishing Group.

Senior Staff of the Database Publishing Group includes:

Dean Hollister, Director;
Edgar Adcock, Jr., Managing Editor;
Judy Redel, Managing Editor, Research;
Basil Daley, Senior Editor; Jim Olsson, Associate Editor
Jane D'Emic, Research Manager; Michael Kaplan, Research Coordinator;
Luchy Molina, Jennifer Stultz, Karen Watt, Assistant Editors; Sandra Benjamin,
Tanya Hurst, Donna Maynard, Assistant Research Editors

Peter Simon, Vice President, Database Publishing Group

Michael Gold, Director, Systems Development
Myriam Sánchez, Senior Systems Analyst

Advisory Committee

Dr. Paul W. Abrahams
President,
Association For Computing Machinery

Dr. Edward C. Bertnolli
Vice President, IEEE
University of Missouri
Rolla Engineering Ctr.

Dr. John Crum
Executive Director,
American Chemical Society

Dr. Charles Dickens
Section Head,
Survey & Analysis Section
Division of Science Resources Studies
National Science Foundation

Dr. Charles Falk
National Science Foundation
(Retired)

Mr. Alan Fechter
Executive Director,
National Research Council
Office of Scientific and Engineering
Personnel

Dr. William Howard Jaco
Executive Director,
American Mathematical Society

Dr. Marvin Kauffman
Executive Director,
American Geological Institute

Dr. Robert Krauss
Executive Director
Federation of American Societies for
Experimental Biology

Dr. William E. Splinter
Assoc. Vice Chancellor, Research
University of Nebraska

Dr. Dael Wolfe
Professor Emeritus
Graduate School of Public Affairs
University of Washington

Preface

American Men and Women Of Science remains without peer as a chronicle of North American scientific endeavor and achievement, having recorded the careers of over 290,000 scientists and engineers since its inception. The present work is the seventeenth edition since it was first compiled as *American Men of Science* by J. Mckeen Cattell in 1906. In the eighty-three years since the first edition, the number of American scientists and the fields they pursue have grown immeasurably. However, it is still our goal to achieve the purposes stated by Dr. Cattell when he first undertook the task of producing a biographical directory of currently active American scientists. His intention was not to provide intimate portraits of men's lives, but to record personal, educational and career data which would make "a contribution to the organization of science in America" and "make men [and women] of science acquainted with one another and with one another's work." It is the editors' hope that this edition, like previous ones, will fulfill these goals.

The seventeenth edition contains biographies of 3,831 men and women, for the first time. All fields of endeavor in the natural sciences are represented along with a discipline index, which groups the biographees by field of activity. The index organizes the biographees under disciplines adapted from the National Science Foundation's Taxonomy of Degree and Employment Specialties. The editors selected this classification system so that entrants would be grouped according to a consistent and recognized standard. In addition to the information provided by the discipline index, users will find information on biographees' specialties and research interests in the entries in the main volumes. Specific fields of interest may also be searched using *American Men and Women Of Science* online.

While the scientific fields covered by *American Men and Women Of Science* are comprehensive, no attempt has been made to include all American scientists. Entrants are meant to be limited to those who have made significant contributions in their field. The names of new entrants were submitted for consideration at the editors' request by current entrants and by persons in charge of academic, govern-

ment and private research programs. Those included met the following criteria:

1. Distinguished achievement, by reason of experience, training or accomplishment, including contributions to the literature, coupled with continuing activity in scientific work;
or
2. Research activity of high quality in science as evidenced by publication in reputable scientific journals; or for those whose work cannot be published due to governmental or industrial security, research activity of high quality in science as evidenced by the judgment of the individual's peers;
or
3. Attainment of a position of substantial responsibility requiring scientific training and experience.

This edition profiles living scientists in the physical and biological fields, as well as public health scientists, engineers, mathematicians, statisticians, and computer scientists. The information is collected by means of direct communication whenever possible. Forms are sent to all entrants for corroboration and updating; those whose biographies are appearing for the first time received verification proofs before publication. The information submitted by entrants is included as completely as possible within the boundaries of editorial and space restrictions. Full entries are repeated for former listees who do not return forms, but whose current location can be verified in secondary sources. References to the previous edition are given for those who do not return forms and cannot be located, but who are presumed to be still active in science or engineering. A notation is made when an entrant from the previous edition is known to be deceased. Non-citizens of the United States or Canada are included if working in North America for a reasonable duration.

In addition to the printed volumes, *American Men and Women Of Science* remains available for online searching through the subscription service of DIALOG Information

A project as large as publishing *American Men And Women Of Science* involves the efforts of a great many people. The editors take this opportunity to thank the seventeenth edition advisory committee for their guidance, encouragement and support. Appreciation is also expressed to the many scientific societies who provided their membership lists for the purpose of locating former entrants whose addresses had changed, and to the thousands of scientists across the country who took time to provide us with biographical information. Finally, we wish to thank Michael Gold and the Systems Development staff

Comments and suggestions on any aspect of the seventeenth edition are encouraged and should be directed to The Editors, *American Men And Women Of Science*, R. R. Bowker, 245 West 17th Street, New York, New York 10011.

Dean Hollister, *Director*
Edgar Adcock, Jr., *Managing Editor*
Basil Daley, *Senior Editor*
Jim Olsson, *Associate Editor*

February, 1989

Abbreviations

AAAS—American Association for the
Advancement of Science
abnorm—abnormal
abstr—abstract(s)
acad—academic, academy
acct—account, accountant, accounting
acoust—acoustic(s), acoustical
ACTH—adrenocorticotrophic hormone
actg—acting
activ—activities, activity
addn—addition(s), additional
Add—Address
adj—adjunct, adjutant
adjust—adjustment
Adm—Admiral
admin—administration, administrative
adminr—administrator(s)
admis—admission(s)
adv—adviser(s), advisory
advan—advance(d), advancement
advert—advertisement, advertising
AEC—Atomic Energy Commission
aerodyn—aerodynamic(s)
aeronaut—aeronautic(s), aeronautical
aerophys—aerophysical, aerophysics
aesthet—aesthetic(s)
AFB—Air Force Base
affil—affiliate(s), affiliation
agr—agricultural, agriculture
agron—agronomic, agronomical, agronomy
agrost—agrostologic, agrostological,
agrostology
agt—agent
AID—Agency for International Development
Ala—Alabama
allergol—allergological, allergology
alt—alternate
Alta—Alberta
Am—America, American
AMA—American Medical Association
anal—analysis, analytic, analytical
analog—analogue
anat—anatomic, anatomical, anatomy
anesthesiol—anesthesiology
angiol—angiology
Ann—Annal(s)
ann—annual
anthrop—anthropological, anthropology
anthropom—anthropometric, anthropometri-
cal, anthropometry
antiq—antiquary, antiquities, antiquity

antiqn—antiquarian
apicult—apicultural, apiculture
APO—Army Post Office
app—appoint, appointed
appl—applied
appln—application
approx—approximate(ly)
Apr—April
apt—apartment(s)
aquacult—aquaculture
arbit—arbitration
arch—archives
archaeol—archaeological, archaeology
archit—architectural, architecture
Arg—Argentina, Argentine
Ariz—Arizona
Ark—Arkansas
artil—artillery
asn—association
assoc(s)—associate(s), associated
asst(s)—assistant(s), assistantship(s)
Assyriol—Assyriology
astrodyn—astrodynamics
astron—astronomical, astronomy
astronaut—astronautical, astronautics
astronr—astronomer
astrophys—astrophysical, astrophysics
attend—attendant, attending
atty—attorney
audiol—audiology
Aug—August
auth—author
AV—audiovisual
Ave—Avenue
avicult—avicultural, aviculture

b—born
bact—bacterial, bacteriologic, bacteriological,
bacteriology
BC—British Columbia
bd—board
behav—behavior(al)
Belg—Belgian, Belgium
bibl—biblical
bibliog—bibliographic, bibliographical,
bibliography
bibliogr—bibliographer
biochem—biochemical, biochemistry
biog—biographical, biography
biol—biological, biology
biomed—biomedical, biomedicine

biomet—biometric(s), biometrical, biometry
biophys—biophysical, biophysics
bk(s)—book(s)
bidg—building
Blvd—Boulevard
Bor—Borough
bot—botanical, botany
br—branch(es)
Brig—Brigadier
Brit—Britain, British
Bro(s)—Brother(s)
byrol—byrology
Bull—Bulletin
bur—bureau
bus—business
BWI—British West Indies

c—children
Calif—California
Can—Canada, Canadian
cand—candidate
Capt—Captain
cardiol—cardiology
cardiovasc—cardiovascular
cartog—cartographic, cartographical,
cartography
cartogr—cartographer
Cath—Catholic
CEng—Corps of Engineers
cent—central
Cent Am—Central America
cert—certificate(s), certification, certified
chap—chapter
chem—chemical(s), chemistry
chemother—chemotherapy
chmn—chairman
citricult—citriculture
class—classical
climat—climatological, climatology
clin(s)—clinic(s), clinical
cmdg—commanding
Co—Companies, Company
coauth—coauthor
co-dir—co-director
co-ed—co-editor
coeduc—coeducation, coeducational
col(s)—college(s), collegiate, colonel
collab—collaboration, coloborative
collabr—collaborator
Colo—Colorado
com—commerce, commercial

ABBREVIATIONS

Comdr—Commander
 commun—communicable, communication(s)
 comn(s)—commission(s), commissioned
 comnr—commissioner
 comp—comparative
 compos—composition
 comput—computation, computer(s),
 computing
 comt(s)—committee(s)
 conchol—conchology
 conf—conference
 cong—congress, congressional
 Conn—Connecticut
 conserv—conservation, conservatory
 consol—consolidated, consolidation
 const—constitution, constitutional
 construct—construction, constructive
 consult(s)—consult, consultant(s)
 consultantship(s), consultation, consulting
 contemp—contemporary
 contrib—contribute, contributing,
 contribution(s)
 contribr—contributor
 conv—convention
 coop—cooperating, cooperation, cooperative
 coord—coordinate(d), coordinating,
 coordination
 coordr—coordinator
 corp—corporate, corporation(s)
 corres—correspondence, correspondent,
 corresponding
 coun—council, counsel, counseling
 counr—councilor, counselor
 criminol—criminological, criminology
 cryog—cryogenic(s)
 cystallog—crystallographic, crystallographi-
 cal, crystallography
 crystallogr—crystallographer
 Ct—Court
 Ctr—Center
 cult—cultural, culture
 cur—curator
 curric—curriculum
 cybernet—cybernetic(s)
 cytol—cytological, cytology
 Czech—Czechoslovakia

DC—District of Columbia
 Dec—December
 Del—Delaware
 deleg—delegate, delegation
 delinq—delinquency, delinquent
 dem—democrat(s), democratic
 demog—demographic, demography
 demogr—demographer
 demonstr—demonstrator
 dendrol—dendrologic, dendrological,
 dendrology
 dent—dental, dentistry
 dep—deputy
 dept—department(al)
 dermat—dermatologic, dermatological,
 dermatology
 develop—developed, developing, develop-
 ment, developmental
 diag—diagnosis, diagnostic
 dialectol—dialectological, dialectology
 dict—dictionaries, dictionary
 Dig—Digest
 dipl—diploma, diplomate
 dir(s)—director(s), directories, directory
 dis—disease(s), disorders

Diss Abstr—Dissertation Abstracts
 dist—district
 distrib—distributed, distribution, distributive
 distribr—distributor(s)
 div—division, divisional, divorced
 DNA—deoxyribonucleic acid
 doc—document(s), documentary,
 documentation
 Dom—Dominion
 Dr—Drive

e—east
 ecol—ecological, ecology
 econ(s)—economic(s), economical, economy
 economet—econometric(s)
 ECT—electroconvulsive or electroshock
 therapy
 ed—edition(s), editor(s), editorial
 ed bd—editorial board
 educ—education, educational
 educr—educator(s)
 EEG—electroencephalogram, electroenceph-
 alographic, electroencephalography
 Egyptol—Egyptology
 EKG—electrocardiogram
 elec—electric, electrical, electricity
 electrochem—electrochemical, electrochem-
 istry
 electrophys—electrophysical, electrophysics
 elem—elementary
 embryol—embryologic, embryological,
 embryology
 emer—emeriti, emiratus
 employ—employment
 encour—encouragement
 encycl—encyclopedia
 endocrinol—endocrinologic, endocrinology
 eng—engineering
 Eng—England, English
 engr(s)—engineer(s)
 enol—enology
 Ens—Ensign
 entom—entomological, entomology
 environ—environment(s), environmental
 enzym—enzymology
 epidemiol—epidemiologic, epidemiological,
 epidemiology
 equip—equipment
 ESEA—Elementary & Secondary Education
 Act
 espec—especially
 estab—established, establishment(s)
 ethnog—ethnographic, ethnographical,
 ethnography
 ethnogr—ethnographer
 ethnol—ethnologic, ethnological, ethnology
 Europ—European
 eval—evaluation
 evangel—evangelical
 eve—evening
 exam—examination(s), examining
 examr—examiner
 except—exceptional
 exec(s)—executive(s)
 exeg—exegeses, exegesis, exegetic, exegetical
 exhib(s)—exhibition(s), exhibit(s)
 exp—experiment, experimental
 exped(s)—expedition(s)
 explor—exploration(s), exploratory
 expos—exposition
 exten—extension
 fac—faculty

facil—facilities, facility
 Feb—February
 fed—federal
 fedn—federation
 fel(s)—fellow(s), fellowship(s)
 fermentol—fermentology
 fertil—fertility, fertilization
 Fla—Florida
 floricult—floricultural, floriculture
 found—foundation
 FPO—Fleet Post Office
 Fr—French
 Ft—Fort

Ga—Georgia
 gastroenterol—gastroenterological, gastroen-
 terology
 gen—general
 geneal—genealogical, genealogy
 geod—geodesy, geodetic
 geog—geographic, geographical, geography
 geogr—geographer
 geol—geologic, geological, geology
 geom—geometric, geometrical, geometry
 geomorphol—geomorphologic,
 geomorphology
 geophys—geophysical, geophysics
 Ger—German, Germanic, Germany
 geriat—geriatric(s)
 geront—gerontological, gerontology
 glaciol—glaciology
 gov—governing, governor(s)
 govt—government, governmental
 grad—graduate(d)
 Gt Brit—Great Britain
 guid—guidance
 gym—gymnasium
 ynec—gynecologic, gynecological,
 gynecology

handbk(s)—handbook(s)
 helminth—helminthology
 hemat—hematologic, hematological,
 hematology
 herpet—herpetologic, herpetological,
 herpetology
 Hisp—Hispanic, Hispania
 hist—historic, historical, history
 histol—histological, histology
 HM—Her Majesty
 hochsch—hochschule
 homeop—homeopathic, homeopathy
 hon(s)—honor(s), honorable, honorary
 hort—horticultural, horticulture
 hosp(s)—hospital(s), hospitalization
 hq—headquarters
 HumRRO—Human Resources Research
 Office
 husb—husbandry
 Hwy—Highway
 hydraul—hydraulic(s)
 hydrodyn—hydrodynamic(s)
 hydrol—hydrologic, hydrological, hydrology
 hyg—hygiene, hygienic(s)
 hypn—hypnosis

ichthyol—ichthyological, ichthyology
 Ill—Illinois
 illum—illuminating, illumination
 illus—illustrate, illustrated, illustration
 illusr—illustrator
 immunol—immunologic, immunological,
 immunology

Imp—Imperial
 improv—improvement
 Inc—Incorporated
 in-chg—in charge
 incl—include(s), including
 Ind—Indiana
 indust(s)—industrial, industries, industry
 inf—infantry
 info—information
 inorg—inorganic
 ins—insurance
 inst(s)—institute(s), institution(s)
 instnl—institutional(ized)
 instr(s)—instruct, instruction, instructor(s)
 instrnl—instructional
 int—international
 intel—intelligence
 introd—introduction
 invert—invertebrate
 invest(s)—investigation(s)
 investr—investigator
 irrig—irrigation
 Ital—Italian

J—Journal
 Jan—January
 Jct—Junction
 jour—journal, journalism
 jr—junior
 jurisp—jurisprudence
 juv—juvenile

Kans—Kansas
 Ky—Kentucky

La—Louisiana
 lab(s)—laboratories, laboratory
 lang—language(s)
 laryngol—laryngological, laryngology
 lect—lecture(s)
 lectr—lecturer(s)
 legis—legislation, legislative, legislature
 lett—letter(s)
 lib—liberal
 libr—libraries, library
 librn—librarian
 lic—license(d)
 limnol—limnological, limnology
 ling—linguistic(s), linguistical
 lit—literary, literature
 lithol—lithologic, lithological, lithology
 Lt—Lieutenant
 Ltd—Limited

m—married
 mach—machine(s), machinery
 mag—magazine(s)
 maj—major
 malacol—malacology
 mammal—mammalogy
 Man—Manitoba
 Mar—March
 Mariol—Mariology
 Mass—Massachusetts
 mat—material(s)
 mat med—materia medica
 math—mathematic(s), mathematical
 Md—Maryland
 mech—mechanic(s), mechanical
 med—medical, medicinal, medicine
 Mediter—Mediterranean
 Mem—Memorial
 mem—member(s), membership(s)

ment—mental(ly)
 metab—metabolic, metabolism
 metall—metallurgic, metallurgical, metallurgy
 metallog—metallographic, metallography
 metallogr—metallographer
 metaphys—metaphysical, metaphysics
 meteorol—meteorological, meteorology
 metrol—metrological, metrology
 metrop—metropolitan
 Mex—Mexican, Mexico
 mfg—manufacturing
 mfr(s)—manufacture(s), manufacturer(s)
 mgr—manager
 mgt—management
 Mich—Michigan
 microbiol—microbiological, microbiology
 micros—microscopic, microscopical, microscopy
 mid—middle
 mil—military
 mineral—mineralogical, mineralogy
 Minn—Minnesota
 Miss—Mississippi
 mkt—market, marketing
 Mo—Missouri
 mod—modern
 monogr—monograph
 Mont—Montana
 morphol—morphological, morphology
 Mt—Mount
 mult—multiple
 munic—municipal, municipalities
 mus—museum(s)
 musicol—musicological, musicology
 mycol—mycologic, mycology

n—north
 NASA—National Aeronautics & Space Administration
 nat—national, naturalized
 NATO—North Atlantic Treaty Organization
 navig—navigation(al)
 NB—New Brunswick
 NC—North Carolina
 NDak—North Dakota
 NDEA—National Defense Education Act
 Nebr—Nebraska
 nematol—nematological, nematology
 nerv—nervous
 Neth—Netherlands
 neurol—neurological, neurology
 neuropath—neuropathological, neuropathology
 neuropsychiat—neuropsychiatric, neuropsychiatry
 neurosurg—neurosurgical, neurosurgery
 Nev—Nevada
 New Eng—New England
 New York—New York City
 Nfld—Newfoundland
 NH—New Hampshire
 NIH—National Institutes of Health
 NIMH—National Institute of Mental Health
 NJ—New Jersey
 NMex—New Mexico
 nonres—nonresident
 norm—normal
 Norweg—Norwegian
 Nov—November
 NS—Nova Scotia
 NSF—National Science Foundation
 NSW—New South Wales

numis—numismatic(s)
 nutrit—nutrition, nutritional
 NY—New York State
 NZ—New Zealand

observ—observatories, observatory
 obstet—obstetric(s), obstetrical
 occas—occasional(ly)
 occup—occupation, occupational
 oceanog—oceanographic, oceanographical, oceanography
 oceanogr—oceanographer
 Oct—October
 odontol—odontology
 OEEC—Organization for European Economic Cooperation
 off—office, official
 Okla—Oklahoma
 olericult—olericulture
 oncol—oncologic, oncology
 Ont—Ontario
 oper(s)—operation(s), operational, operative
 ophthal—ophthalmologic, ophthalmological, ophthalmology
 optom—optometric, optometrical, optometry
 ord—ordnance
 Ore—Oregon
 org—organic
 orgn—organization(s), organizational
 orient—oriental
 ornith—ornithological, ornithology
 orthod—orthodontia, orthodontic(s)
 orthop—orthopedic(s)
 osteop—osteopathic, osteopathy
 otol—otological, otology
 otolaryngol—otolaryngological, otolaryngology
 otorhinol—otorhinologic, otorhinology

Pa—Pennsylvania
 Pac—Pacific
 paleobot—paleobotanical, paleobotany
 paleont—paleontological, paleontology
 Pan-Am—Pan-American
 parasitol—parasitology
 partic—participant, participating
 path—pathologic, pathological, pathology
 pedag—pedagogic(s), pedagogical, pedagogy
 pediat—pediatric(s)
 PEI—Prince Edward Islands
 penol—penological, penology
 periodont—periodontal, periodontic(s), periodontology
 petrog—petrographic, petrographical, petrography
 petrogr—petrographer
 petrol—petroleum, petrologic, petrological, petrology
 pharm—pharmacy
 pharmaceut—pharmaceutic(s), pharmaceutical(s)
 pharmacog—pharmacognosy
 pharmacol—pharmacologic, pharmacological, pharmacology
 phenomenol—phenomenologic(al), phenomenology
 philol—philological, philology
 philos—philosophic, philosophical, philosophy
 photog—photographic, photography
 photogeog—photogeographic, photo-geography

ABBREVIATIONS

fotogr—photographer(s)
 photogram—photogrammetric, photogrammetry
 photom—photometric, photometrical, photometry
 phycol—physiology
 phys—physical
 physiog—physiographic, physiographical, physiography
 physiol—physiological, physiology
 Pkwy—Parkway
 Pl—Place
 polit—political, politics
 polytech—polytechnic(al)
 pomol—pomological, pomology
 pontif—pontifical
 pop—population
 Port—Portugal, Portuguese
 postgrad—postgraduate
 PQ—Province of Quebec
 PR—Puerto Rico
 pract—practice
 practr—practitioner
 prehist—prehistoric, prehistory
 prep—preparation, preparative, preparatory
 pres—president
 Presby—Presbyterian
 preserv—preservation
 prev—prevention, preventive
 prin—principal
 prob(s)—problem(s)
 proc—proceedings
 proctol—proctologic, proctological, proctology
 prod—product(s), production, productive
 prof—professional, professor, professorial
 Prof Exp—Professional Experience
 prog(s)—program(s), programmed, programming
 proj—project(s), projection(al), projective
 prom—promotion
 protozool—protozoology
 prov—province, provincial
 psychiat—psychiatric, psychiatry
 psychoanal—psychoanalysis, psychoanalytic, psychoanalytical
 psychol—psychological, psychology
 psychomet—psychometric(s)
 psychopath—psychopathologic, psychopathology
 psychophys—psychophysical, psychophysics
 psychophysiol—psychophysiological, psychophysiology
 psychosom—psychosomatic(s)
 psychother—psychotherapeutic(s), psychotherapy
 Pt—Point
 pub—public
 publ—publication(s), publish(ed), publisher, publishing
 pvt—private

 Qm—Quartermaster
 Qm Gen—Quartermaster General
 qual—qualitative, quality
 quant—quantitative
 quart—quarterly

 radiol—radiological, radiology
 RAF—Royal Air Force
 RAFVR—Royal Air Force Volunteer Reserve

RAMC—Royal Army Medical Corps
 RAMCR—Royal Army Medical Corps Reserve
 RAOC—Royal Army Ordnance Corps
 RASC—Royal Army Service Corps
 RASCR—Royal Army Service Corps Reserve
 RCAF—Royal Canadian Air Force
 RCAFVR—Royal Canadian Air Force Reserve
 RCAFVR—Royal Canadian Air Force Volunteer Reserve
 RCAMC—Royal Canadian Army Medical Corps
 RCAMCR—Royal Canadian Army Medical Corps Reserve
 RCASC—Royal Canadian Army Service Corps
 RCASCR—Royal Canadian Army Service Corps Reserve
 RCEME—Royal Canadian Electrical & Mechanical Engineers
 RCN—Royal Canadian Navy
 RCNR—Royal Canadian Naval Reserve
 RCNVR—Royal Canadian Naval Volunteer Reserve
 Rd—Road
 RD—Rural Delivery
 rec—record(s), recording
 redevelop—redevelopment
 ref—reference(s)
 refrig—refrigeration
 regist—register(ed), registration
 registr—registrar
 regt—regiment(al)
 rehab—rehabilitation
 rel(s)—relation(s), relative
 relig—religion, religious
 REME—Royal Electrical & Mechanical Engineers
 rep—represent, representative
 repub—republic
 req—requirements
 res—research, reserve
 rev—review, revised, revision
 RFD—Rural Free Delivery
 rhet—rhetoric, rhetorical
 RI—Rhode Island
 Rm—Room
 RM—Royal Marines
 RN—Royal Navy
 RNA—ribonucleic acid
 RNR—Royal Naval Reserve
 RNVR—Royal Naval Volunteer Reserve
 roentgenol—roentgenologic, roentgenological, roentgenology
 RR—Railroad, Rural Route
 rte—route
 Russ—Russian
 rwy—railway

 s—south
 SAfrica—South Africa
 SAm—South America, South American
 sanit—sanitary, sanitation
 Sask—Saskatchewan
 SC—South Carolina
 Scand—Scandinavia(n)
 sch(s)—school(s)
 scholar—scholarship
 sci—science(s), scientific
 SDak—South Dakota
 SEATO—Southeast Asia Treaty Organization
 sec—secondary
 sect—section

secy—secretary
 seismog—seismograph, seismographic, seismography
 seismogr—seismographer
 seismol—seismological, seismology
 sem—seminar, seminary
 sen—senator, senatorial
 Sept—September
 ser—serial, series
 serol—serologic, serological, serology
 serv—service(s), serving
 silvicult—silvicultural, silviculture
 soc(s)—societies, society
 soc sci—social science
 sociol—sociologic, sociological, sociology
 Span—Spanish
 spec—special
 specif—specification(s)
 spectrog—spectrograph, spectrographic, spectrography
 spectrogr—spectrographer
 spectrophotom—spectrophotometer, spectrophotometric, spectrophotometry
 spectrosc—spectroscopic, spectroscopy
 speleol—speleological, speleology
 Sq—Square
 sr—senior
 St—Saint, Street(s)
 sta(s)—station(s)
 stand—standard(s), standardization
 statist—statistical, statistics
 Ste—Sainte
 steril—sterility
 stomatol—stomatology
 stratig—stratigraphic, stratigraphy
 stratigr—stratigrapher
 struct—structural, structure(s)
 stud—student(ship)
 subcom—subcommittee
 subj—subject
 subsid—subsidiary
 substa—substation
 super—superior
 suppl—supplement(s), supplemental, supplementary
 supt—superintendent
 supv—supervising, supervision
 supvr—supervisor
 supervy—supervisory
 surg—surgery, surgical
 surv—survey, surveying
 survr—surveyor
 Swed—Swedish
 Switz—Switzerland
 symp—symposia, symposium(s)
 syphil—syphilology
 syst(s)—system(s), systematic(s), systematical

 taxon—taxonomic, taxonomy
 tech—technical, technique(s)
 technol—technologic(al), technology
 tel—telegraph(y), telephone
 temp—temporary
 Tenn—Tennessee
 Terr—Terrace
 Tex—Texas
 textbk(s)—textbook(s)
 text ed—text edition
 theol—theological, theology
 theoret—theoretic(al)
 ther—therapy
 therapeut—therapeutic(s)

therodyn—thermodynamic(s)
topog—topographic, topographical,
topography
topogr—topographer
toxicol—toxicologic, toxicological, toxicology
trans—transactions
transl—translated, translation(s)
translr—translator(s)
transp—transport, transportation
treas—treasurer, treasury
treat—treatment
trop—tropical
tuberc—tuberculosis
TV—television
Twp—Township

UAR—United Arab Republic
UK—United Kingdom
UN—United Nations
undergrad—undergraduate
unemploy—unemployment
UNESCO—United Nations Educational
Scientific & Cultural Organization
UNICEF—United Nations International
Childrens Fund
univ(s)—universities, university
UNRRA—United Nations Relief &
Rehabilitation Administration
UNRWA—United Nations Relief & Works
Agency
urol—urologic, urological, urology
US—United States

USA—US Army
USAAF—US Army Air Force
USAAFR—US Army Air Force Reserve
USAF—US Air Force
USAFR—US Air Force Reserve
USAR—US Army Reserve
USCG—US Coast Guard
USCGR—US Coast Guard Reserve
USDA—US Department of Agriculture
USMC—US Marine Corps
USMCR—US Marine Corps Reserve
USN—US Navy
USNAF—US Naval Air Force
USNAFR—US Naval Air Force Reserve
USNR—US Naval Reserve
USPHS—US Public Health Service
USPHSR—US Public Health Service Reserve
USSR—Union of Soviet Socialist Republics
USWMC—US Women's Marine Corps
USWMCR—US Women's Marine Corps
Reserve

Va—Virginia
var—various
veg—vegetable(s), vegetation
vent—ventilating, ventilation
vert—vertebrate
vet—veteran(s), veterinarian, veterinary
VI—Virgin Islands
vinicult—viniculture
virol—virological, virology
vis—visiting

voc—vocational
vocab—vocabulary
vol(s)—voluntary, volunteer(s), volume(s)
vpres—vice president
vs—versus
Vt—Vermont

w—west
WAC—Women's Army Corps
Wash—Washington
WAVES—Women Accepted for Voluntary
Emergency Service
WHO—World Health Organization
WI—West Indies
wid—widow, widowed, widower
Wis—Wisconsin
WRNS—Women's Royal Canadian Naval
Service
WRNS—Women's Royal Naval Service
WVa—West Virginia
Wyo—Wyoming

yearbk(s)—yearbook(s)
YMCA—Young Men's Christian Association
YMHA—Young Men's Hebrew Association
yr(s)—year(s)
YWCA—Young Women's Christian Asso-
ciation
YWHA—Young Women's Hebrew Asso-
ciation

zool—zoological, zoology

Contents

viviiix1

American Men & Women of Science

T

TAAGEPERA, MARE, b Narva, Estonia, May 16, 38; US citizen; m 61; c 3. **PHYSICAL ORGANIC CHEMISTRY**. Educ: Univ Del, BS, 60, MS, 63; Univ Pa, PhD(chem), 70. Prof Exp: Chemist, E I du Pont de Nemours & Co, Inc, 62-64; FEL CHEM, UNIV CALIF, IRVINE, 71- Mem: Am Chem Soc; Sigma Xi; Asn Advan Baltic Studies. Res: Mechanisms of organic reactions; rate and equilibrium studies; mass and ion cyclotron resonance spectroscopy. Mailing Add: 19 Mayapple Way Irvine CA 92715

TAAM, RONALD EVERETT, b New York, NY, 48; m 74; c 2. **HYDRODYNAMICS, STELLAR STRUCTURE & EVOLUTION**. Educ: Polytech Inst Brooklyn BS, 69; Columbia Univ, MA, 71, PhD(astron), 73. Prof Exp: Fel, Univ Calif, Santa Cruz, 73-76, vis prof astron, Berkeley, 76-78; from asst prof to assoc prof, 79-86, PROF PHYSICS & ASTRON, NORTHWESTERN UNIV, 86- Mem: Am Astron Soc; Royal Astron Soc; Am Phys Soc; Int Astron Union. Res: Application of fluid mechanics, radiation transfer, and nuclear physics to astrophysical problems; structure and evolution of close binary stars. Mailing Add: Dept Physics & Astron Northwestern Univ Evanston IL 60208

TABACHNICK, IRVING I A, b New York, NY, July 20, 24; m 51; c 2. **PHARMACOLOGY**. Educ: Harvard Univ, AB, 48; Yale Univ, PhD(pharmacol), 53. Prof Exp: Pharmacologist & statistician, Baxter Labs, 53-55; pharmacologist, 55-58, sr pharmacologist, 58-60, sect head, 60-61, head dept biochem pharm, 61-64, head dept physiol & biochem, 64-68, assoc dir biol res div, 68-70, dir, 70-72, sr dir biol res & develop, Schering Corp, 72-77, VPRES, DRUG SAFETY & METAB, SCHERING-PLOUGH CORP, 77- Mem: AAAS; Am Soc Pharmacol & Exp Therapeut; Soc Exp Biol & Med; NY Acad Sci; Am Acad Allergy; Sigma Xi. Res: Histamine; diabetes; insulin; catecholamines; adrenergic receptors; anti-hormones; toxicology; drug metabolism. Mailing Add: Schering Plough Corp Biol Res & Develop 86 Orange St Bloomfield NJ 07003

TABACHNICK, JOSEPH, b New York, NY, May 14, 19; m 61; c 2. **RADIOIMMUNOASSAY**. Educ: Univ Calif, Berkeley, BS, 42, MS, 47, PhD(comp biochem), 50. Prof Exp: Res asst food technol, Univ Calif, Berkeley, 46-51, lab instr, 47-49; res chemist, Turner Hall Corp, NJ, 51-52; res biochemist, 52-59, sr res biochemist & assoc mem, Div of Labs & head, Lab Exp Dermat, 59-78, HEAD, HORMONE RECEPTOR LAB, ALBERT EINSTEIN MED CTR, 78- Concurrent Pos: Adj assoc prof, NY Med Col, 73- Mem: AAAS; Soc Invest Dermat; Am Asn Path; Am Chem Soc; Radiation Res Soc. Res: Estrogen and progesterone receptors in human breast cancer; radiation biology and biochemistry of the skin; cytokinetics of repair in beta-irradiated skin; formation and metabolism of pyroglutamic acid and free amino acid in skin; suppression of radiation fibrosis. Mailing Add: Hormone Receptor Lab Dept Surg A312 Korman Albert Einstein Med Ctr Philadelphia PA 19141

TABACHNICK, MILTON, b New York, NY, June 25, 22; m 52. **BIOCHEMISTRY**. Educ: Univ Calif, AB, 47, MA, 49, PhD(biochem), 53. Prof Exp: Asst, Univ Calif, 49-52; Am Cancer Soc res fel biochem, Sch Med, Duke Univ, 52-53; instr, Inst Indust Med, Post-Grad Med Sch, NY Univ, 53-55; vis investr, Div Nutr & Physiol, Pub Health Res Inst of City New York, 55-57; res assoc chem, Mt Sinai Hosp, 57-59; res assoc, NY State Psychiat Inst, 59-60; from asst prof to assoc prof, 61-69, dean Grad Sch Basic Med Sci, 71-80, PROF BIOCHEM, NEW YORK MED COL, 69- Mem: Am Soc Biol Chem; Am Chem Soc; Endocrine Soc; Am Thyroid Asn; AAAS. Res: Protein chemistry; transport and mechanism of action of thyroid hormone; purification and characterization of thyroxine-binding globulin. Mailing Add: Dept of Biochem New York Med Col Valhalla NY 10595

TABACHNICK, WALTER J, b Brooklyn, NY, June 14, 47. **POPULATION GENETICS, EVOLUTIONARY BIOLOGY**. Educ: Brooklyn Col, City Univ New York, BS, 68; Rutgers Univ, MS, 71, PhD(zool), 74. Prof Exp: Asst prof genetics, Univ Wis, Parkside, 73-75; NIH fel, Yale Univ, 75-78; lectr biol & genetics, Univ Calif, Los Angeles, 78-79; res assoc genetics, Yale Univ, 79-82; prof biol, Loyola Univ, 82-85; RES SCIENTIST, USDA-ARS, 87-

Concurrent Pos: Nat Defense Educ Act Title IV fel, Rutgers Univ, 70-73; prin investr, Yale Univ, US Army, NIH res grants, 75-87. Mem: Entom Soc Am; Sigma Xi; Am Soc Study Evolution; Genetics Soc Am; Am Soc Trop Med & Hyg. Res: Studying the genetics and evolution of insect disease vectors with the goal of using this information to understand and control insect borne animal disease. Mailing Add: Anthropol-borne Animal Dis Res Lab USDA-ARS PO Box 3965 Univ Sta Laramie WY 82071

TABAK, DANIEL, b Wilna, Poland, June 16, 34; US citizen; m 60; c 2. **AUTOMATIC CONTROL SYSTEMS**. Educ: Israel Inst Technol, BS, 59, MS, 63; Univ Ill, Urbana, PhD(elec eng), 67. Prof Exp: Asst nuclear sci, Israel Inst Technol, 61-63; elec engr, Univ Ill, Urbana, 63-66; guid & control systs engr, Missile & Space Div, Gen Elec Co, Pa, 66-68; sr consult, Wolf Res & Develop Corp, Md, 68-70; assoc prof systs eng, Rensselaer Polytech Inst, 70-72; assoc prof elec eng, Ben-Gurion Univ of the Negev, Israel, 72-76, chmn, Indust Eng Dept, 73-74, chmn, Elec Eng Dept, 76-77, prof elec eng, 76- Concurrent Pos: Consult, Missile & Space Div, Gen Elec Co, 66, Wolf Res & Develop Corp, 70-72; assoc ed, J Automatica, Int Fedn Automatic Control, 72-; on leave, NRC sr res assoc, NASA Langley Res Ctr, 77-78 & vis prof elec eng, Univ Tex, Austin, 78-79. Mem: Sr mem Inst Elec & Electronics Engrs; Opers Res Soc Am. Res: Computational methods of optimal control; digital systems; computer architecture; computer engineering. Mailing Add: Dept Elec Eng & Comp Eng Boston Univ 25 Buick St Boston MA 02215

TABAK, MARK DAVID, b Philadelphia, Pa, Dec 2, 37; m 61; c 2. **SOLID STATE PHYSICS, ELECTRICAL ENGINEERING**. Educ: Univ Pa, BS, 59; Princeton Univ, MA, 62, PhD(elec eng), 65. Prof Exp: Instr, Princeton Univ, 62-63; scientist xerographic sci, Res Labs Div, 65-70, area mgr, 70-72, sect mgr, 72-73, mgr, Imaging Sci Lab, 73-77, mgr, Advan Marking Prog, Corp Res & Develop Group, 77-78, vpres & mgr, Webster Res Ctr, 78-84, vpres & mgr, Electronic Pub Bur, 84-85, VPRES, TECHNOL TRANSFER, XEROX RES, 85- Concurrent Pos: Mem, Advan Mgt Prog, Harvard Bus Sch, 82. Mem: Am Phys Soc; Inst Elec & Electronics Engrs; Soc Photog Engrs & Scientists. Res: Electrophotographic materials and systems; photoconductivity; electronic transport and photogeneration; amorphous semiconductors. Mailing Add: Xerox Corp-STHQ 800 Long Ridge Rd Stamford CT 06904

TABAKIN, BURTON SAMUEL, b Philadelphia, Pa, July 6, 21; m 72; c 5. **MEDICINE**. Educ: Univ Pa, AB, 43, MD, 47; Am Bd Internal Med, dipl, 55. Prof Exp: Fel physiol, Univ Vt & Trudeau Found, 51-52; from instr to assoc prof, 54-67, dir Cardiopulmonary Lab, 54-80, dir Cardiol Univ, 72-80, actg chmn dept, 74-76, PROF MED, COL MED, UNIV-VT, 67- Concurrent Pos: Attend physician, Mary Fletcher Hosp & DeGoesbriand Mem Hosp, Burlington, Vt, 60-66; fel coun clin cardiologist, Am Heart Asn. Mem: Fel Am Col Physicians; Am Heart Asn; Am Col Chest Physicians; Am Fedn Clin Res; fel Am Col Cardiol. Res: Clinical cardiopulmonary and exercise physiology; echocardiography. Mailing Add: Med Ctr Hosp of Vt Burlington VT 05401

TABAKIN, FRANK, b Newark, NJ, Sept 20, 35; m 63; c 2. **THEORETICAL PHYSICS**. Educ: Queens Col, NY, BS, 56; Mass Inst Technol, PhD(physics), 63. Prof Exp: Res assoc physics, Columbia Univ, 63-65; from asst prof to assoc prof, 65-74, PROF PHYSICS, UNIV PITTSBURGH, 74- Concurrent Pos: Res visitor, Oxford Univ, 70. Mem: Am Phys Soc. Res: Nuclear forces and matter; three-body problems; properties of nuclei; meson physics; meson photoproduction; antiproton reactions. Mailing Add: Dept of Physics & Astron Univ of Pittsburgh 4200 5th Ave Pittsburgh PA 15260

TABAKOFF, BORIS, b Tien-Tsin, China, Sept 27, 42. **NEUROPHARMACOLOGY, ALCOHOLISM**. Educ: Univ Colo, Boulder, BA & BPh, 66, PhD(pharmacol), 70. Prof Exp: Asst prof biochem, Chicago Med Sch, 71-73, assoc prof, 73-75; from assoc prof to prof, dept physiol; Med Ctr, Univ Ill, 75-84; DIR, IRP, NAT INST ALCOHOL ABUSE & ALCOHOLISM/ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMIN/DEPT HEALTH & HUMAN SERV, 84- Concurrent Pos: Bd trustees res award, Chicago Med Sch, 73; Hoffman LaRoche Found award & NIH-Swiss NSF award, 75; res award, Interstate Postgrad Med Asn Nam, 76; mem, NIH/Alcohol, Drug Abuse & Ment Health Admin Study Sect, Nat Inst Alcohol Abuse & Alcoholism, 78-81; res scientist, West Side Vet Admin Med Ctr, Chicago, 79-84; dir, Alcohol & Drug Abuse Res & Training Prog,

Univ Ill Med Ctr, 80-84. *Honors & Awards:* Vet Admin Award, 79. *Mem:* Am Soc Pharmacol & Exp Therapeut; Am Soc Neurochem; Soc Neurosci; Res Soc Alcoholism; Int Soc Biomed Res Alcoholism; Am Col Neuropsychopharmacol. *Res:* Neurochemical and behavioral effects of alcohol and their contribution to development of tolerance and physical dependence; development of therapies to ameliorate tolerance and physical dependence. *Mailing Add:* DICBR/Nat Inst Alcohol Abuse & Alcoholism NIH Clin Ctr 10/3C103 Bethesda MD 20892

TABAKOFF, WIDEN, b Stavekiv, Bulgaria, Dec 14, 19; US citizen; m 43; c 2. **PROPULSION, GAS DYNAMICS.** *Educ:* Prague Tech Univ, MS, 42; Univ Berlin, MS, 46, PhD(sci), 45. *Prof Exp:* Asst technician, Univ Berlin, 42-46; designer, Aerotallers Argentinos, 48-50; tech dir prod, Helamet, Arg, 50-56; supvr res, Knapsack Griseheim, Ger, 56-58; from instr to assoc prof, 58-66, **PROF AEROSPACE ENG & APPL MECH, UNIV CINCINNATI**, 67-*Concurrent Pos:* Consult indust & govt, 54. *Mem:* Fel Am Inst Aeronaut & Astronaut; Am Soc Eng Educ; Am Soc Mech Engrs; Am Asn Univ Prof; Am Soc Testing & Mat. *Res:* Turbomachinery components, inlets, compressors, combustion chambers, turbine nozzles and exhaust engine nozzles; ramjet components; aerodynamic heating for hypersonic vehicles; internal gas dynamics flows; erosion problems in propulsion systems. *Mailing Add:* 421 Deanview Dr Cincinnati OH 45224

TABARROK, B(EHROUZ), b Tehran, Iran, June 16, 38; m 63; c 3. **MECHANICAL ENGINEERING.** *Educ:* Wolverhampton & Staffordshire Col Technol, BSc, 62; Oxford Univ, DPhil(structural dynamics), 65. *Prof Exp:* Ford Found fel mech eng, 65-66, from asst prof to prof mech eng, Univ Toronto, 66-87; **PROF MECH ENG, UNIV TORONTO**, 87-*Concurrent Pos:* Alexander von Humboldt fel, Hannover Tech Univ, 69; sr res fel, Sci Res Coun, UK, 74. *Honors & Awards:* Robert W Angus Medal, Can Soc Mech Eng, 85. *Mem:* Fel Can Soc Mech Engr; fel Eng Inst Can. *Res:* Applied mechanics, particularly in dynamics of structures; computational mechanics, variational principles in mechanics. *Mailing Add:* Dept of Mech Eng Univ of Victoria Victoria BC V8W 2Y2 Can

TABATA, SUSUMU, b Steveston, BC, Dec 9, 25; m 59; c 3. **PHYSICAL OCEANOGRAPHY.** *Educ:* Univ BC, BA, 50, MA, 54; Univ Tokyo, DSc, 65. *Prof Exp:* Phys oceanogr, Pac Oceanogr Group, Fisheries Res Bd Can, 52-70; res phys oceanogr, 71-84, **RES SCIENTIST, OCEAN PHYSICS DIV, INST OCEAN SCI**, 84-*Concurrent Pos:* Asst scientist, Pac Oceanogr Group, Fisheries Res Bd Can, 52-58, assoc scientist, 59-65, sr scientist, 66-70. *Mem:* Am Soc Limnol & Oceanogr; Am Meteorol Soc; Am Geophys Union; Oceanogr Soc Japan. *Res:* Circulation of inshore and offshore waters; processes affecting water properties; variability in the oceans; large-scale air-sea interactions; interpretation of satellite imagery; ocean climatology. *Mailing Add:* Inst of Ocean Sci Patricia Bay PO Box 6000 Sidney BC V8L 4B2 Can

TABATABAI, LOUISA BRAAL, b Oostvoorne, Neth, Dec 18, 39; US citizen; m 62; c 3. **BIOCHEMISTRY.** *Educ:* Univ Calif, Berkeley, BA, 62; Iowa State Univ, MS, 66, PhD(biochem), 76. *Prof Exp:* Res assoc food technol, 64-70, res assoc muscle biochem, 71-74, assoc biochem, 76-77, **ASST PROF BIOCHEM, IOWA STATE UNIV**, 85-; **RES CHEMIST BIOCHEM, NAT ANIMAL DIS CTR**, 77-*Concurrent Pos:* Nat Res Coun fel, Nat Animal Dis Ctr, 77-78. *Mem:* Am Chem Soc; Am Soc Microbiol; AAAS; Protein Soc. *Res:* Virulence and pathogenicity of Brucella organisms; biochemical immunological properties of Brucella cell surface proteins, mechanism of action on host tissues; structure/function of Brucella proteins. *Mailing Add:* Nat Animal Dis Ctr PO Box 70 Ames IA 50010

TABATABAI, M ALI, b Karbala, Iraq, Feb 25, 34; US citizen; m 62; c 3. **SOIL CHEMISTRY, SOIL BIOCHEMISTRY.** *Educ:* Univ Baghdad, BS, 58; Okla State Univ, MS, 60; Iowa State Univ, PhD(soil chem), 65. *Prof Exp:* Res assoc soil biochem, 66-72, from asst prof to assoc prof, 72-78, **PROF SOIL CHEM & BIOCHEM, IOWA STATE UNIV**, 78-*Concurrent Pos:* Consult, Elec Power Res Inst, Palo Alto, Calif, 78-83. *Mem:* Am Soc Agron; Am Chem Soc; Am Soc Microbiol; AAAS; Int Soc Soil Sci. *Res:* Soil enzymology and chemistry of sulfur, nitrogen and phosphorus in soils; nutrient cycling in the environment. *Mailing Add:* Dept of Agron Iowa State Univ Ames IA 50011

TABB, DAVID LEO, b Louisville, Ky, Feb 8, 46; m 66; c 2. **POLYMER SCIENCE.** *Educ:* Univ Louisville, BChE, 69; Case Western Reserve Univ, MS, 72, PhD(polymer sci), 74. *Prof Exp:* Res eng chem eng, 69-70, **SR RES ENGR, POLYMER PRODS DEPT, SPECIALTY POLYMERS DIV, E I DU PONT DE NEMOURS & CO, INC**, 74-*Res:* Characterization of polymer structure and correlation to physical properties; thermoset and thermoplastic elastomers; polymer blends; polymer processing technology; Fourier transform infrared spectroscopy. *Mailing Add:* Polymer Prods Dept/ Specialty Polymers Div Chestnut Run Plaza Bldg 711 Wilmington DE 19808

TABBERT, ROBERT L, b Ripon, Wis, Sept 6, 28; m 52; c 2. **GEOLOGY.** *Educ:* Univ Wis, BS, 52, MSc, 54. *Prof Exp:* Micropaleontologist, Magnolia Petrol Co, 54-59; micropaleontologist, Socony Mobil's Field Res Lab, 59-62; palynologist, 62-67, supvr palynology group, 67-73, dir struct & stratig res, 73-75, sr res assoc, Geol Sci Group, 75-76, **EXPLOR GEOLOGIST, ATLANTIC RICHFIELD CO**, 76-*Mem:* Soc Econ Paleont & Mineral; Am Asn Petrol Geologists; Am Asn Stratig Palynologists; Geol Soc Am; Asn Prof Geol Scientists. *Res:* Biostratigraphy of Cretaceous-Tertiary sediments of Alaska; regional correlations in Mesozoic and Tertiary sediments of Arctic; structural geology, stratigraphy and petroleum exploration of Arctic; exploration and geothermal energy of Western United States. *Mailing Add:* 211 Ursline Lafayette LA 70506

TABBUTT, FREDERICK DEAN, b Philadelphia, Pa, Dec 28, 31; m 56; c 4. **COMPUTER SIMULATIONS, CATASTROPHE THEORY.** *Educ:* Haverford Col, BS, 53; Harvard Univ, MA, 55, PhD(chem), 58. *Prof Exp:* Instr, Reed Col, 57-59, asst prof chem, 59-63, assoc prof, 63-67, prof, 67-70; **MEM FAC CHEM, EVERGREEN STATE COL**, 70-*Concurrent Pos:* NSF

fac fel, Southampton Univ, UK, 63-64, Univ Warwick, 74-75. *Mem:* Am Chem Soc. *Res:* Oscillating chemical reactions, particularly the Belousov-Zhabotinsky reaction; applications of catastrophe theory to oscillating systems; gas phase kinetics of unimolecular reactions; multiple infrared photon decompositions. *Mailing Add:* Evergreen State Col Olympia WA 98501

TABER, CHARLES ALEC, b Texanna, Okla, Dec 10, 37; m 70. **ICHTHYOLOGY.** *Educ:* Northeastern State Col, BS, 61; Univ Okla, PhD(zool), 69. *Prof Exp:* Asst prof biol, 69-77, assoc prof life sci, 77-82, **PROF BIOL, SOUTHWEST MO STATE UNIV**, 82-*Mem:* Am Soc Ichthyologists & Herpetologists; Am Fisheries Soc. *Res:* Natural history and ecology of fishes. *Mailing Add:* Dept Biol Southwest Mo State Univ 901 S National Springfield MO 65802

TABER, DAVID, b New York, NY, July 14, 22; m 48; c 3. **ORGANIC CHEMISTRY.** *Educ:* NY Univ, AB, 48; Polytech Inst Brooklyn, PhD(chem), 53. *Prof Exp:* Jr chemist, Air Reduction Co, Inc, 48-49; res assoc indust med, Postgrad Med Sch, NY Univ, 53-55; chemist, Gen Aniline & Film Corp, 55-58; sr chemist, Koppers Co, Inc, 58-63; sect head, Org Chem, Armour Grocery Prod Co, 63-65, res mgr new chem, Household Prod Res & Develop Dept, 65-68, mgr biol & med progs, Armour-Dial, Inc, 68-69, asst res dir, 69-75; vpres & dir tech serv, Hollister, Inc, 75-77; dir regulatory affairs, Wesley-Jessen Inc, 77-84; vpres & dir regulatory affairs, Am Bioactive Colloids, Inc, 84-87; **CONSULT, DAVID TABER & ASSOC**, 78-; **DIR, REGULATORY AFFAIRS, WATSON LABS, INC** 87-*Mem:* Am Chem Soc; Soc Cosmetic Chemists; Sigma Xi. *Res:* Organic synthesis, germicides, microbiology; product safety; regulatory affairs; clinical testing; medical and hospital devices; quality assurance. *Mailing Add:* 7328 N Oakley Ave Chicago IL 60645-1252

TABER, DOUGLASS FLEMING, b Berkeley, Calif, Nov 11, 48; m 69; c 6. **ENANTIOSELECTIVE SYNTHESIS.** *Educ:* Stanford Univ, BS, 70; Columbia Univ, PhD(org chem), 74. *Prof Exp:* Res fel org chem, Univ Wisconsin-Madison, 74-75; res instr, dept pharmacol, Vanderbilt Univ, 75-77, asst prof, 77-82; asst prof, 82-84, **ASSOC PROF ORG CHEM, UNIV DEL**, 84-*Concurrent Pos:* Consult, div clin pharmacol, Sch Med, Vanderbilt Univ, 82- & Helix Assocs, Newark, Del, 85-; Alfred P Sloan Found fel, 83. *Mem:* Am Chem Soc. *Res:* Development of new methods in synthetic organic chemistry; natural product synthesis; organometallics in organic synthesis. *Mailing Add:* Dept Chem & Biochem Univ Del Newark DE 19716

TABER, ELSIE, b Columbia, SC, May 3, 15. **EMBRYOLOGY, REPRODUCTIVE PHYSIOLOGY.** *Educ:* Univ SC, BS, 35; Stanford Univ, MA, 36; Univ Chicago, PhD(zool), 47. *Prof Exp:* Teacher biol, Greenwood High Sch, SC, 36-38; instr, Lander Col, 38-41; instr, Univ Chicago, 44-48, asst dean students, Div Biol Sci, 47-48; from asst prof to assoc prof, 48-65, **PROF ANAT, MED UNIV SC**, 65-*Mem:* AAAS; Am Soc Zool; Am Asn Anatomists; Am Inst Biol Sci; Soc Study Reproduction; Sigma Xi. *Res:* Developmental biology; endocrinology of reproductive systems. *Mailing Add:* 216 Molasses Lane Mount Pleasant SC 29464

TABER, HARRY WARREN, b Longview, Wash, Oct 30, 35; c 2. **MICROBIOLOGY, MOLECULAR BIOLOGY.** *Educ:* Reed Col, BA, 57; Univ Rochester, PhD(biochem), 63. *Prof Exp:* AEC fel, Univ Rochester, 62-64; USPHS fel, Nat Inst Neurol Dis & Stroke, Bethesda, Md, 64-66; USPHS spec fel, Photosynthesis Lab, Gif-sur-Yvette, France, 66-67; asst prof microbiol, Sch Med, Univ Rochester, 68-73, assoc prof, 73-79; **PROF MICROBIOL, DEPT MICROBIOL & IMMUNOL, ALBANY MED COL OF UNION UNIV**, 80-*Concurrent Pos:* NIH res career develop award, 74-79, mem, study sect, 79-*Mem:* Am Soc Microbiol; Soc Gen Microbiol; Am Soc Photobiol; AAAS; Am Asn Univ Prof. *Res:* Genetic regulation of membrane structure and function in differentiating systems; antibiotic transport by bacteria; biosynthesis of vitamin K. *Mailing Add:* Dept Microbiol & Immunol Albany Med Col of Union Univ Albany NY 12208

TABER, JOSEPH JOHN, b Adena, Ohio, Feb 6, 20; m 47; c 4. **PETROLEUM ENGINEERING, OIL RECOVERY RESEARCH.** *Educ:* Muskingum Col, BS, 42; Univ Pittsburgh, PhD, 55. *Prof Exp:* Asst prof naval sci, Ohio State Univ, 46; instr chem, Washington & Jefferson Col, 46-50; sr proj chemist, Gulf Res & Develop Co, 54-64; from asst prof to assoc prof chem, 64-72, adj assoc prof petrol eng, 67-72, prof chem, grad fac, 72-76, officer, Admin Dept, 64-76, prof petrol eng, 72-76, dir NMEX Petrol Recovery Res Ctr, 76-87, **EMER DIR & ADJ PROF PETROL ENG, NMEX PETROL RECOVERY RES CTR, NMEX INST MINING & TECHNOL**, 87-*Concurrent Pos:* Co prin investr, res on CO2 for enhanced oil recovery, 78-87; lectr, Int Energy Agency Workshops & Symp, enhanced oil recovery, 84; consult, Argonne Nat Lab, 84-; Enhanced Recovery Comt, Interstate Oil Compact Comn, 80-; tech auditor, Norway Oil Recovery Res, 86-*Mem:* Am Chem Soc; Am Inst Mining, Metall & Petrol Eng; AAAS; Sigma Xi. *Res:* Surface chemistry; liquid-liquid and liquid-solid interfaces; effect of interfacial energies on capillarity and fluid flow in porous media; new methods of petroleum recovery; effect of phase behavior on solvent displacement of oil from rocks; use of CO2 and other gases for enhanced oil recovery; environmental problems of oil recovery. *Mailing Add:* 700 Leroy Place Socorro NM 87801

TABER, RICHARD DOUGLAS, b San Francisco, Calif, Nov 22, 20; m 46; c 3. **WILDLIFE ECOLOGY.** *Educ:* Univ Calif, AB, 42, PhD, 51; Univ Wis, MS, 49. *Prof Exp:* Wildlife researcher & asst specialist, Univ Calif, 51-55, actg asst prof zool, 55-56; asst prof forestry, Univ Mont, 56-57, from assoc prof to prof, 58-68, assoc dir, Mont Forest & Conserv Exp Sta, 64-68; prof, 68-85, **EMER PROF FOREST ZOOLOGY, UNIV WASH**, 85-*Concurrent Pos:* US specialist forest-wildlife rels, Germany & Czech, 60 & Poland, 60 & 64; Fulbright res scholar, West Pakistan, 63-64; Guggenheim fel, 64; mem comm threatened deer, Int Union Conserv Nature, 73-*Mem:* Wildlife Soc; AAAS; Am Soc Mammal; Am Inst Biol Sci. *Res:* Biology and conservation of free-living birds and mammals; wildlife and human culture; ungulate biology and effects on ecosystem. *Mailing Add:* Col Forest Resources 625 Continental Way Missoula MN 59803

- TABER, RICHARD LAWRENCE**, b Pontiac, Mich, Nov 9, 35; m 57; c 2. BIO-ORGANIC CHEMISTRY. Educ: Colo State Col, AB, 58; Univ NMex, PhD(org chem), 63. *Prof Exp*: From asst prof to assoc prof, 63-75, PROF CHEM, COLO COL, 75- *Honors & Awards*: Meritorious Serv Award, Am Chem Soc, 69. *Mem*: Am Chem Soc; Sigma Xi. *Res*: Enzymology of dihydroorotate dehydrogenase; organic liquid scintillation solutes. *Mailing Add*: Chem Dept Colo Col Colorado Springs CO 80903
- TABER, ROBERT IRVING**, b Perth Amboy, NJ, June 28, 36; m 60; c 3. PSYCHOPHARMACOLOGY, NEUROPHARMACOLOGY. Educ: Rutgers Univ, BS, 58; Med Col Va, PhD(pharmacol), 63. *Prof Exp*: Pharmacologist, Schering Corp, 62-66, sr pharmacologist, 66-71, mgr pharmacol, 71-74, dir biol res, 74-77, sr dir biol res, 77-; AT BIOMED PROD DEPT, E I DU PONT DE NEMOURS CO INC. *Mem*: AAAS; assoc Am Col Neuropsychopharmacol; Am Soc Pharmacol & Exp Therapeut; Acad Pharmaceut Sci; Am Pharmaceut Asn. *Res*: Analgesics; drug effects on learning and memory. *Mailing Add*: Biomed Prod Dept E I Du Pont de Nemours Co Inc E400-2418B Wilmington DE 19898
- TABER, STEPHEN, III**, b Columbia, SC, Apr 17, 24; m 45; c 8. APICULTURE. Educ: Univ Wis, BS, 49. *Prof Exp*: Apiculturist, USDA, La, 50-65, apiculturist, Ariz, 65-79; RES DIR, HONEY BEE GENETICS, 79- *Mem*: AAAS; Entom Soc Am; Am Genetic Asn; Bee Res Asn. *Res*: Bee behavior and genetics. *Mailing Add*: Honey Bee Genetics 3639 Oak Canyon Ln Vacaville CA 95688
- TABER, WILLARD ALLEN**, b Marshalltown, Iowa, Feb 18, 25; m 50; c 3. MICROBIOLOGY, HISTORY & PHILOSOPHY OF SCIENCE. Educ: Univ Iowa, AB, 49, MS, 51; Rutgers Univ, PhD(microbiol), 54. *Prof Exp*: Asst, Univ Iowa, 49-51; fel, Rutgers Univ, 54-55; from asst res officer to sr res officer, Prairie Regional Lab, Nat Res Coun Can, 55-63; PROF BIOL, TEX A&M UNIV, 63- *Concurrent Pos*: NIH consult, 67-70; consult to chem indust. *Mem*: Soc Indust Microbiol; Sigma Xi; Am Chem Soc; AAAS; Am Forrestry Asn; Am Phy to Path Soc. *Res*: Antifungal antibiotics; ecology of soil fungi; metabolism of sugar carbon sources; mycology; secondary metabolism; transport in fungi, mycorrhizae, streptomycetes; biodegradation. *Mailing Add*: 1100 Village Dr College Station TX 77840
- TABI, RIFAT**, b Simferopol, Crimea, June 5, 38; US citizen; m 67; c 1. MECHANICAL ENGINEERING. Educ: Aachen Tech Univ, BSME, 61, MSME, 62; Vienna Tech Univ, Dr Eng Sci (mech eng), 65; State Univ NY, PE, 72. *Prof Exp*: Sci res asst, Testing & Res Inst Mat, Vienna Tech Univ, 62-65; proj engr, Tech Ctr, Gen Motors Corp, Mich, 65-66; asst prof mech eng technol, 66-67, assoc prof, 67-70, prof, 70-72, PROF MECH, INDUSTRY & AEROSPACE ENG & CHMN DEPT, NY INST TECHNOL, 72-, ASSOC DIR, CTR TECHNOL, 80- *Concurrent Pos*: Consult, private practice, 67-; qualified fallout shelter analyst & instr, Univ Hawaii, 68. *Res*: Materials-mechanics; fracture mechanics of materials and failure analysis. *Mailing Add*: Dept of Mech Indust & Aerospace Eng NY Inst Technol PO Box 170 Old Westbury NY 11568
- TABIBIAN, RICHARD**, b Detroit, Mich, June 1, 29; m 55; c 3. POLYMER CHEMISTRY. Educ: Wayne State Univ, BS, 51, MS, 54, PhD(chem), 56. *Prof Exp*: CHEMIST, E I DU PONT DE NEMOURS & CO, INC, 55- *Mem*: Am Chem Soc. *Res*: Colloid chemistry; elastomers. *Mailing Add*: Polymer Prods Dept Exp Sta E I du Pont de Nemours & Co Inc Wilmington DE 19898
- TABISZ, GEORGE CONRAD**, b New York, NY, Aug 28, 39; Can citizen; m 66; c 2. MOLECULAR PHYSICS. Educ: Univ Toronto, BSc, 61, MA, 63, PhD(physics), 68. *Prof Exp*: Nat Res Coun Can fel, High Pressure Lab, Nat Ctr Sci Res, France, 68-70; from asst prof to assoc prof, 70-80, PROF PHYSICS, UNIV MANITOBA, 80- *Concurrent Pos*: Vis scientist, Univ Cambridge, 76-77, Nat Res Coun Can, Ottawa, 83-84. *Mem*: Optical Soc Am; Can Asn Physicists. *Res*: Molecular interactions in gases and liquids; visible and infrared absorption spectroscopy; laser raman scattering; theory of spectral lineshapes. *Mailing Add*: Dept Physics Univ Manitoba Winnipeg MB R3T 2N2 Can
- TABITA, FROBERT**, b Bronx, NY, Oct 1, 43. MICROBIAL BIOCHEMISTRY, PHOTOSYNTHETIC METABOLISM. Educ: St Johns Univ, BS, 65, MS, 67; Syracuse Univ, PhD(microbiol), 71. *Prof Exp*: NIH fel biochem, Wash State Univ, 71-73; from asst prof to assoc prof, 73-85, PROF MICROBIOL, UNIV TEX, AUSTIN, 85- *Concurrent Pos*: Panel mem, Biochem Study Sect, NIH, 76-77 & Microbiol, Physiol & Genetics Sect, 84-88; mem, Competitive Res Grants Panel, USDA, 81 & 84; asst dir, Ctr Appl Microbiol, Univ Tex Austin, 81- *Mem*: Am Soc Biol Chemists; Am Chem Soc; Am Soc Microbiol; AAAS; Am Soc Plant Physiologists; Int Soc Plant Microbiol. *Res*: Molecular basis and biochemistry of carbon dioxide fixation; regulation of biological nitrogen fixation; protection of nitrogenase from oxygen inactivation in vivo. *Mailing Add*: Dept Microbiol & Ctr Appl Microbiol Univ Tex Austin TX 78712-1095
- TABLER, RONALD DWIGHT**, b Denver, Colo, May 18, 37; m 64; c 2. HYDROLOGY. Educ: Colo State Univ, BS, 59, PhD(watershed mgt), 65. *Prof Exp*: Res hydrologist, Rocky Mountain Forest & Range Exp Sta, US Forest Serv, 59-85; CONSULT SNOW & WIND ENG, TABLER & ASSOCs, 86- *Concurrent Pos*: Adj prof mech eng, Univ Wyo, 86-, adj prof range mgt, 86-; res affil, Univ Alaska, Fairbanks, 86-; vis scientist, Civil Eng Res Inst, Japan, 80-81. *Honors & Awards*: USDA Super Serv Award, 76; D Grant Mickle Award, Nat Acad Sci, 79. *Mem*: AAAS; Soc Am Foresters; Am Geophys Union; Soil Conserv Soc; Am Water Resources Asn; Int Glaciol Soc; Soc Photo Optical Instruments Engrs. *Res*: Physics of snow transport by wind; design of snow fence systems for highway protection; management of snow in windswept areas to increase water yields; watershed management. *Mailing Add*: 1416 Tabler Assocs PO Box 576 Laramie WY 82070-0576
- TABOADA, JOHN**, b Tampico, Mex, Sept 8, 43; US citizen; m 68; c 1. PHYSICAL OPTICS, APPLIED PHYSICS. Educ: Trinity Univ, BA, 66; Tex A&M Univ, MS, 68, PhD(physics), 73. *Prof Exp*: Asst physics, Tex A&M Univ, 66-68; res physicist radiation sci div, US Air Force Sch Aerospace Med, 68-80; res physicist data sci div, 80-84, RES PHYSICIST, CLIN SCI DIV, 84- *Concurrent Pos*: Mem comt laser measurements, Am Nat Standards Inst, 76- *Honors & Awards*: Outstanding Tech Achievement Award, US Air Force Sys Command, 71, Outstanding Sci Achievement Award, 75. *Mem*: Am Phys Soc; Optical Soc Am. *Res*: Biophysics of ultrashort pulsed lasers; laser spectroscopy; nonlinear optics; applied optics; robotics. *Mailing Add*: 12530 Elm Country San Antonio TX 78230
- TABOR, CELIA WHITE**, b Boston, Mass, Nov 15, 18; m 46; c 4. BIOCHEMISTRY. Educ: Radcliffe Col, BA, 40; Columbia Univ, MD, 43. *Prof Exp*: Intern med, Mass Gen Hosp, Boston, 44-45; asst resident, Univ Hosp, Vanderbilt Univ, 45-46; res assoc pharmacol, George Washington Univ, 47-49; MEM STAFF, LAB BIOCHEM PHARMACOL, NAT INST ARTHRITIS, METAB & DIGESTIVE DIS & USPHS, 52- *Mem*: AAAS; Am Soc Biol Chemists; Am Soc Pharmacol & Exp Therapeut. *Res*: Biochemistry; enzymatic and metabolic studies of the polyamines. *Mailing Add*: Four North Dr Bethesda MD 20814
- TABOR, CHRISTOPHER ALAN**, b Frederick, Md, Jan 1, 37; m 59; c 1. PLANT PHYSIOLOGY. Educ: NC State Univ, BS, 59, MS, 65. *Prof Exp*: Mem staff bioprod res & develop, Dow Chem Co, 64-65; res forester, 67-77, PLANT PHYSIOLOGIST, FOREST SERV, USDA, 77- *Mem*: Am Soc Plant Physiologists; Bot Soc Am; Scand Soc Plant Physiol; Soc Am Foresters; Int Asn Plant Tissue Cult. *Res*: Physiology of differentiation, growth and development in plants; emphasis on the control of morphogenesis in woody plants. *Mailing Add*: NE Forest Exp Sta PO Box 968 Burlington VT 05402
- TABOR, EDWARD**, b Washington, DC, Apr 30, 47; m 70; c 4. VIROLOGY, CANCER ETIOLOGY. Educ: Harvard Univ, BA, 69; Columbia Univ, MD, 73. *Prof Exp*: Intern pediat, Columbia-Presby Med Ctr, New York, 73-74, resident, 74-75; res investr, Food & Drug Admin, 75-81, sr med investr, Bur Biologics, 81-83, dir, Div Anti-Infective Drug Prods, 83-88; ASSOC DIR, BIOL CARCINOGENESIS, NAT CANCER INST, 88- *Concurrent Pos*: Clin asst prof pediat, Georgetown Univ, 80; asst clin prof child health & develop, George Washington Univ, 88- *Honors & Awards*: US Pub Health Serv Commendation Medal, 79; Unit Commendation, USPHS, 85; Outstanding Serv Medal, USPHS, 86; Outstanding Unit Commendation, USPHS, 87; Spec Citation, US Food & Drug Admin, 88. *Mem*: Fel Infectious Dis Soc Am. *Res*: Non-A and non-B hepatitis; hepatocellular carcinoma; hepatitis A and B; safety and effectiveness of vaccines and antiviral drugs. *Mailing Add*: Nat Cancer Inst Nat Inst Health Bethesda MD 20892
- TABOR, HERBERT**, b New York, NY, Nov 28, 18; m 46; c 4. PHARMACOLOGY, BIOCHEMISTRY. Educ: Harvard Univ, AB, 37, MD, 41. *Prof Exp*: Biochem researcher, Harvard Med Sch, 41-42; intern med, New Haven Hosp, Conn, 42; NIH, CHIEF LAB BIOCHEM PHARMACOL, 43, NAT INST DIABETES, DIGESTIVE & KIDNEY DIS, 61- *Concurrent Pos*: Field ed, J Pharmacol & Exp Therapeut, 60-68; assoc ed, J Biol Chem, 68-71, ed-in-chief, 71- *Mem*: Nat Acad Sci; Am Soc Pharmacol & Exp Therapeut; Am Soc Biol Chem; Am Chem Soc; Am Acad Arts & Sci. *Res*: Biochemistry of amino acids and amines. *Mailing Add*: Nat Inst Diabetes Digestive & Kidney Dis Bldg 8 Rm 223 Bethesda MD 20892
- TABOR, ROWLAND WHITNEY**, b Denver, Colo, June 10, 32; m 57, 70; c 2. GEOLOGY. Educ: Stanford Univ, BS, 54; Univ Wash, MS, 58, PhD(geol), 61. *Prof Exp*: Teaching asst geol, Univ Wash, 57-61; GEOLOGIST, US GEOL SURV, 61- *Mem*: fel Geol Soc Am. *Res*: Field mapping northwestern Washington, stratigraphy, igneous and metamorphic petrology and structure of Olympic and North Cascade Mountains; emphasis on geologic history and hazards; K-Ar geochronology; popular science writing. *Mailing Add*: US Geol Surv 345 Middlefield Rd Menlo Park CA 94025
- TABOR, SAMUEL LYNN**, b Tylertown, Miss, June 10, 45; m. NUCLEAR PHYSICS. Educ: Tulane Univ, BS, 67; Stanford Univ, MS, 68, PhD(physics), 72. *Prof Exp*: Res assoc nuclear physics, Univ Pa, 72-75 & Argonne Nat Lab, 75-77; sr res assoc nuclear physics, Univ Md, 77-79; from asst prof to assoc prof, 79-88, PROF PHYSICS, FLA STATE UNIV, 88- *Mem*: Am Phys Soc; Sigma Xi. *Res*: Nuclear structure and reactions. *Mailing Add*: Dept Physics Fla State Univ Tallahassee FL 32306
- TABOR, THEODORE EMMETT**, b Great Falls, Mont, Dec 28, 40; m 59; c 3. ORGANIC CHEMISTRY. Educ: Univ Mont, BA, 62; Kans State Univ, PhD(org chem), 67. *Prof Exp*: Res chemist, Spec Assignment Prog, Dow Chem Co, 67, res chemist, Prod Dept Lab, 67-72; res specialist, Halogens Res Lab, 72-75, mgr acad educ, 75-78, res leader org chem dept, 78-81; MGR, COOP RES, 81- *Concurrent Pos*: Adj prof, Cent Mich Univ, Mt Pleasant, 79-83. *Mem*: Am Chem Soc; Soc Res Admin. *Res*: Mechanisms of epoxide rearrangements; solvent processing of textiles; fire retardant chemicals for textiles and plastics; specialty organic chemicals product development. *Mailing Add*: Coop Res Dow Chem Co 1801 Bldg Midland MI 48674
- TABORSKY, GEORGE**, b Budapest, Hungary, Feb 12, 28; nat US; m 53; c 2. PROTEIN CHEMISTRY. Educ: Brown Univ, BS, 51; Yale Univ, PhD(biochem), 56. *Prof Exp*: Am Cancer Soc fel, Carlsberg Lab, Denmark, 56-57; from instr to assoc prof biochem, Yale Univ, 57-70, dir grad studies in biochem, 64-67; assoc prof biochem, 70-72, chmn dept, 73-78, PROF BIOCHEM, UNIV CALIF, SANTA BARBARA, 72- *Concurrent Pos*: Prin investr, NIH & NSF res grants, 63- *Mem*: Am Chem Soc; Biophys Soc; Am Soc Biochem Molecular Biol; Am Inst Chemists; NY Acad Sci; Protein Soc. *Res*: Biochemistry of phosphoproteins; protein chemistry; biochemistry of egg yolk; phosphoprotein-metal interactions. *Mailing Add*: Dept Biol Sci Univ Calif Santa Barbara CA 93106

TABORSKY, GERALD J. JR., b Madison, Wis, Oct 26, 48. **MEDICINE.** Educ: Marquette Univ, BS, 71; Univ Southern Calif, PhD(biomed eng), 76. Prof Exp: RES ASSOC PROF, DEPT MED, UNIV WASH, 76- Mem: Am Diabetes Asn; Am Physiol Soc; Endocrine Soc. Res: Pancreatic somatostatin; neurocontrol of pancreatic islets. Mailing Add: Dept Med Univ Wash Seattle WA 98195

TACHIBANA, DORA K., b Cupertino, Calif, Dec 19, 34. **IMMUNOLOGY, MEDICAL MICROBIOLOGY.** Educ: San Jose State Col, BA, 56; Stanford Univ, MA, 62, PhD(immunol), 64. Prof Exp: Pub health microbiologist trainee, Calif State Dept Pub Health, 56-57; clin lab technician trainee, San Jose Hosp, Calif, 57; pub health microbiologist, Santa Clara County Pub Health, 57-59; NIH fel immunol, Czech Acad Sci, 64-65; lab instr & res asst, Stanford Univ, 65-66; asst prof microbiol & immunol, San Francisco State Col, 66-69; res assoc med, Sch Med, Stanford Univ, 70; assoc prof, 70-75. **PROF IMMUNOL & MICROBIOL, CALIF COL PODIATRIC MED, 75-Concurrent Pos:** Fac res award, San Francisco State Col, 68-69; clin lab dir, Calif Podiatry Hosp, San Francisco, 70-79; consult, Bur Med Devices-Immunol Div, Food & Drug Admin, 80-88. **Mem:** Am Soc Microbiol; Am Asn Immunol; Sigma Xi; Am Asn Univ Professors; AAAS. Res: Microbial flora of the foot. Mailing Add: Dept Basic Sci Calif Col Podiat Med 1210 Scott St San Francisco CA 94115

TACHIBANA, HIDEO., b Los Altos, Calif, June 30, 25; m 64, 84; c 2. **PLANT PATHOLOGY.** Educ: Univ Calif, Davis, BS, 57; Wash State Univ, PhD(plant path), 63. Prof Exp: RES PLANT PATHOLOGIST, USDA, 63- Mem: Am Phytopath Soc; Int Soc Plant Path; Crop Sci Soc Am; AAAS; Am Soc Agr; Sigma Xi. Res: Soybean diseases; brown stem rot; breeding and screening for disease resistance; gene and pest management. Mailing Add: Plant Path Iowa State Univ 415 Bessey Ames IA 50011

TACHMINDJI, ALEXANDER JOHN., b Athens, Greece, Feb 16, 28; US citizen; m 65. **HYDRODYNAMICS.** Educ: Durham Univ, BSc, 49, BSc(hons), 50; Mass Inst Technol, SM, 51. Prof Exp: Eng, Swann, Hunter & W Richardson, 45-46; res assoc naval archit, Mass Inst Technol, 50-51; mem res staff, Ship Div, David W Taylor Model Basin, US Navy, 51-54, head res & propeller br, 54-59; head tactical warfare group, weapons syst eval div, Inst Defense Anal, 59-64; asst dir res & eng support div, 64-67, dep dir sci technol div, 67-69, dir syst eval div, 69-72; dir tactical technol off, Defense Advan Res Proj Agency, Dept Defense, 72-73, dep dir, Defense Advan Res Proj Agency, 73-75; chief scientist, 75-76, vpres 76-84, gen mgr, 79-84, SR VPRES, MITRE CORP, 84- **Concurrent Pos:** Consult, Am Bur Shipping, 56-59, Anti-Submarine Warfare Comd, Defense Sci Bd, 65-70 & Naval Surface Warfare Panel, 75; ed, J Defense Res, 69; mem publ comt, Am Inst Aeronaut & Astronaut. **Mem:** Fel AAAS; Soc Naval Architects & Marine Engrs; assoc fel Am Inst Aeronaut & Astronaut; Opers Res Soc Am; fel Royal Inst Naval Architects. Res: Cavitation; super cavitation; potential theory; ship vibration and noise; systems analyses; hydroelasticity. Mailing Add: Mitre Corp 7525 Colshire Dr McLean VA 22102

TACHOVSKY, THOMAS GREGORY., b Los Angeles, Calif, Feb 1, 47; m 68; c 2. **IMMUNOLOGY, VIROLOGY.** Educ: Gonzaga Univ, BS, 68; Univ Rochester, PhD(microbiol), 74. Prof Exp: Lab technician microbiol, Sch Med, Univ Rochester, 71-74; fel immunol, 74-76, res asst, 76-77, asst prof immunol, Wistar Inst, 77-; **MEM TECH STAFF, CAMBRIDGE RES LAB.** **Mem:** Sigma Xi; Am Soc Microbiol; AAAS. Res: Neuroimmunology; multiple sclerosis; immunopathology of central nervous system diseases; neurovirology. Mailing Add: Ortho Diag Sys 195 Albany St Cambridge MA 02139

TACK, PETER ISAAC., b Marion, NY, Apr 15, 11; m 37; c 2. **FISH BIOLOGY.** Educ: Cornell Univ, BS, 34, PhD(agr), 39. Prof Exp: Asst biologist, State Conserv Dept, NY, 39-40, biologist, 40; instr zool, 40-43, asst prof & res asst, 43-46, assoc prof & res assoc, 46-50, prof fisheries & wildlife, 50-70, chmn dept, 50-69, prof fisheries, wildlife & zool, 70-78, **EMER PROF FISHERIES & WILDLIFE, MICH STATE UNIV, 77-Concurrent Pos:** Mem, Governor's Botulism Control Comn, 64-65. **Mem:** Am Soc Limnol & Oceanog; Am Fisheries Soc; Am Soc Ichthyologists & Herpetologists. Res: Pond fish culture; population fluctuations of whitefish in Northern Lake Michigan and effects of pumped storage generating facility on Lake Michigan ecology. Mailing Add: 314 Brittany Dr Lansing MI 48906-1613

TACKER, MARTHA MCCLELLAND., b Mineral Wells, Tex, Jan 16, 43; m 67; c 3. **BIOCHEMISTRY, SCIENCE WRITING.** Educ: Concordia Col, MN(Chem), 64; Baylor Col Med, PhD(biochem), 69. Prof Exp: Res assoc biochem, Baylor Col Med, 69-70; res asst gastroenterol, Mayo Grad Sch Med, Univ Minn & Mayo Found, 70-71; instr physiol, Baylor Col Med, 71-74; **BIOMED COMMUN CONSULT, 74-Concurrent Pos:** Sci writer and ed, 74- **Mem:** AAAS; Sigma Xi; fel Am Med Writers Asn; Coun Biol Ed; Soc Tech Commun; fel Am Med Womens Asn. Mailing Add: 300 Forest Hill Dr West Lafayette IN 47906

TACKER, WILLIS ARNOLD, JR., b Tyler, Tex, May 24, 42; m 67; c 3. **CARDIOVASCULAR PHYSIOLOGY, MEDICAL EDUCATION.** Educ: Baylor Univ, BS, 64, MD & PhD(physiol), 70. Prof Exp: Intern med, Mayo Clin, 70-71; mem fac physiol, Baylor Col Med, 71-74; **MEM FAC BIOMED ENG, PURDUE UNIV, WEST LAFAYETTE, 74-Mem:** Am Physiol Soc; Asn Advan Med Instrumentation. Res: Life-threatening arrhythmia therapy; new teaching techniques and devices; diagnostic and therapeutic devices development. Mailing Add: Biomed Eng Ctr Purdue Univ West Lafayette IN 47906

TACKETT, JAMES EDWIN, JR., b Los Angeles, Calif, Oct 8, 37; m 62; c 3. **ANALYTICAL CHEMISTRY.** Educ: Occidental Col, BA, 60; Univ Calif, Riverside, PhD(chem), 64. Prof Exp: Chemist, Union Carbide Corp, WVa, 64-65; sr res chemist, 65-77, mgr Anal Dept, 77-83, SR RES CHEMIST, DENVER RES CTR, MARATHON OIL CO, 83- **Mem:** Am Chem Soc; Sigma Xi. Res: Applied spectroscopy; thermal analysis; analytical separations; application of nuclear magnetic resonance and Fourier transform infrared to the study of aqueous polymer systems. Mailing Add: Denver Res Ctr Marathon Oil Co PO Box 269 Littleton CO 80160

TACKETT, JESSE LEE., b Dublin, Tex, Sept 20, 35; m 55; c 3. **SOIL PHYSICS.** Educ: Tex A&M Univ, BS, 57; Auburn Univ, MS, 61, PhD(soil physics), 63. Prof Exp: Instr agron, Tarleton State Col, 57-59; asst, Tex A&M Univ, 59-60; res soil scientist, Soil & Water Conserv Res Div, Agr Res Serv, USDA, 63-65; assoc prof agr, 65-70, PROF AGR & DEAN SCH AGR & BUS, TARLETON STATE UNIV, 70- **Mem:** Am Soc Agron; Soil Sci Soc Am. Res: Soil aeration and strength; plant growth relations. Mailing Add: Dean of Agr & Bus Tarleton State Univ Tarleton Sta Stephenville TX 76402

TACKETT, STANFORD L., b Virgie, Ky, Sept 5, 30; m 51; c 4. **ANALYTICAL CHEMISTRY.** Educ: Ohio State Univ, BS, 57, PhD(chem), 62. Prof Exp: Instr chem, Ohio State Univ, 61-62; asst prof, Ariz State Univ, 62-66; assoc prof, 66-69, chmn dept, 74-83, PROF CHEM, INDIANA UNIV PA, 69- **Concurrent Pos:** Consult, Off Res Anal, Holloman AFB, 63; NIH res grant, 64-66. **Mem:** Am Chem Soc; Meteoritical Soc. Res: Analytical chemistry and electro-analytical techniques; chemistry of meteorites; chemistry of cyanocobalamin; environmental chemistry. Mailing Add: Weyandt 143 Indiana Univ of Pa Indiana PA 15705

TADE, WILLIAM HOWARD., b Hillsboro, Iowa, Sept 6, 23; m 46; c 4. **PATHOLOGY, PHYSIOLOGY.** Educ: Univ Iowa, BA, 50, DDS, 54, MS, 60, PhD(physiol), 61. Prof Exp: From asst prof to assoc prof, 61-71, PROF ORAL PATH, COL DENT, UNIV IOWA, 71- **Mem:** AAAS; Am Acad Oral Path; Am Dent Asn; Int Asn Dent Res. Res: Histochemistry of dental pulp; keratinization of mucosa. Mailing Add: Dept Oral Path Univ Iowa Iowa City IA 52242

TADEPALLI, ANJANEYULU S., **CARDIOVASCULAR PHARMACOLOGY, PHYSIOLOGY.** Educ: Univ Pittsburgh, PhD(pharmacol), 72. Prof Exp: SR RES SCIENTIST, BURROUGHS WELLCOME RES LABS, 80- **Mem:** Am Soc Pharmacology; Soc for Neurosci; Int Soc Hypertension. Mailing Add: Dept Pharmacol Burroughs Wellcome Co Res Labs 3030 Cornwallis Rd Research Triangle Park NC 22709

TADJERAN, HAMID., b Teheran, Nov 30, 52. **NUMERICAL ANALYSIS.** Educ: Am Univ Beirut, BS, 74; Univ Colo Boulder, MS, 78, PhD(appl math), 80. Prof Exp: NSF res asst, Univ Colo, 78-80, US Geol Surv res assoc, 80; lectr math & comput sci, Univ Calif, Davis, 80-81; asst prof comput sci & math, Univ N.C., Wilmington, 81-; AT DEPT MATH SCI, UNIV TULSA. **Mem:** Soc Indust & Appl Math; Am Math Soc. Res: Numerical solution of differential equations; step size control. Mailing Add: Dept Math Sci Univ Tulsa 600 S Col Ave Tulsa OK 74104

TAEGTMEYER, HEINRICH., b Forst, Ger, Feb 14, 41; m 66; c 3. **CARDIOLOGY, MUSCLE PHYSIOLOGY.** Educ: Univ Freiburg, MD, 68, Univ Oxford, PhD(biochem), 81. Prof Exp: Clin fel med, Harvard Med Sch, 71-73, res fel, 73-76, instr, 76-79; asst prof, 81-87, ASSOC PROF MED, UNIV TEX MED SCH, HOUSTON, 87- **Honors & Awards:** LB Johnson Award, Am Heart Asn, 83. **Mem:** Am Heart Asn; Am Col Cardiol; Am Col Physicians; Am Fedn Clin Res; Int Soc Heart Res. Res: Metabolic regulation and control of energy metabolism in heart and skeletal muscle. Mailing Add: Div Cardiol Univ Tex Health Sci Ctr Sch Med 6431 PO Box 20708 Houston TX 77225

TAEUSCH, H WILLIAM., **PULMONARY DEVELOPMENT, PULMONARY SURFACTANT.** Educ: West Reserve Med Sch, MD, 65. Prof Exp: ASSOC PROF PEDIAT, SCH MED, HARVARD UNIV, 74- Mailing Add: Dept Pediat Sch Med Harvard Univ 25 Shattuck St Boston MA 02115

TAFF, LAURENCE GORDON., b New York City, NY, Feb 5, 47; m 82; c 1. **ASTROMETRY, CELESTIAL MECHANICS.** Educ: City Col NY, BS, 67, MA, 68; Univ Rochester, PhD(physics & astron), 73. Prof Exp: Lectr physics, City Col NY, 67; res assoc, Dept Physics & Astron, Univ Rochester, 73; res assoc, Dept Physics, Univ Pittsburgh, 73-75; PROF STAFF, LINCOLN LAB, MASS INST TECHNOL, 75- **Concurrent Pos:** Prin investr, Lincoln Lab, Mass Inst Technol, 81. **Mem:** Am Phys Soc; Am Astron Soc; Astron Soc Pac; Royal Astron Soc. Res: Celestial mechanics and gravitation including local applications (artificial satellites to clusters of galaxies); applied mathematics and astrometry. Mailing Add: Lincoln Lab Mass Inst Technol Boston MA 02173

TAFFE, WILLIAM JOHN., b Albany, NY, Feb 3, 43; m 65; c 2. **COMPUTER SCIENCE, EDUCATION.** Educ: Le Moyne Col, NY, BS, 64; Univ Chicago, SM, 67, PhD(geophys), 68. Prof Exp: Res physicist, Air Force Cambridge Res Labs, 68-69; asst prof physics, Colby Col, 69-71; from asst prof to prof natural sci, 71-81, PROF COMPUT SCI & CHMN DEPT, PLYMOUTH STATE COL, 81- **Concurrent Pos:** Vis prof, Univ NH, Durham, 79-; mem, NH Post Secondary Educ Accreditation Teams, 82-88. **Mem:** Asn Comput Mach; Sigma Xi; Inst Elec & Electronics Engrs Comput Soc. Res: Computer science education. Mailing Add: Dept Comput Sci Plymouth State Col Plymouth NH 03264

TAFLOVE, ALLEN., b Chicago, Ill, June 14, 49; m 77; c 2. **ELECTROMAGNETIC FIELDS & WAVES, NUMERICAL MODELING.** Educ: Northwestern Univ, BS, 71, MS, 72, PhD(elec eng), 75. Prof Exp: Assoc engr, IIT Res Inst, Chicago, 75-77, res engr, 77-80, sr engr & group leader electronics, 80-84; assoc prof, 84-88, PROF ELEC ENG, NORTHWESTERN UNIV, 88- **Concurrent Pos:** Prin investr, US Air Force Rome Air Develop Ctr, 77-81 & 82-84, Global Anal, 81-82, Elec Power Res Inst, 81-83 & 84, Sci Appln Inst, 82-84, Lawrence Livermore Lab, 85-87, NASA, 85-87, NSF, 85-, Lockheed Corp, 85-, & Off Naval Res, 88-; consult, Lawrence Livermore Nat Lab, 85-87, Lockheed Corp, 85- & Naval Res Lab, 85-; guest ed, Wave Motion, 88. **Mem:** Sigma Xi; AAAS; sr mem Inst Elec & Electronics Engrs; NY Acad Sci; Int Union Radio Sci. Res: Development and application of very large scale computational electromagnetics software; numerical modeling of electromagnetic wave interactions with complex