

Who's Who in the World

Who'sWho in the World®

**6th edition
1982-1983**

**MARQUIS
Who'sWho**

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Preface

The sixth edition of *Who's Who in the World* provides the most comprehensive coverage yet of international figures in this series of reference volumes. In response to an increasing need for biographical information on distinctive persons on the international scene, the editors have increased the size of the volume by 2,000 names. In addition, the criteria for selection have been carefully reviewed to assure timeliness and broad scope in the areas of endeavor included.

The result is a greater coverage of both the variety of areas of reference interest and the number of persons within each field. The area of government—a key segment of international coverage—includes more positions of importance in all countries. For example, many more ambassadors are now found in the volume. The standard for religion contains leaders of a larger number of denominations. Coverage of business leaders is more comprehensive in its variety of positions and worldwide scope. Careful research has assured global inclusion of key scholars, scientists, and educators whose achievements have international importance. Similarly, the criteria for inclusion for medicine, publishing and broadcasting, international associations, performing arts, and many other areas cover every country.

Selection of a name for inclusion in *Who's Who in the World* is based on reference value. Some individuals become eligible for listing because of position, while others have distinguished themselves by noteworthy achievements in their fields. In both cases, the career of the individual has an international component. The biographee may have career activities that encompass more than one nation, or the person's activities within one country—a head of state, for example—may have international impact. Many of the listees are distinguished by virtue of both position and occupational stature.

In most sketches, the biographical data come from the best available sources—the individuals listed. This information is reviewed by Marquis staff before being written in sketch form. After each biographee has verified and returned a prepublication proof, the sketch is put into final form for publication.

Where reference-worthy individuals fail to submit biographical data, Marquis researchers compile the facts, drawing on a variety of sources to assure accuracy and currency of information. Sketches compiled in this manner are denoted by an asterisk.

In an effort to make this reference volume as useful as possible, researchers have attempted to standardize the English spellings and alphabetizing of names originating in non-Roman alphabets. Arabic names, for example, have a variety of spellings when transposed to English. Based on the advice of an expert in Arabic languages, the Marquis researchers generally have used the spelling-alphabetizing scheme described under Alphabetical Practices (page xiv). However, spelling is always based on the practice of each biographee, whether or not it is compatible with the general rules. Some biographees use a western form of Arabic word order, while others prefer the Arabic word sequence. Biographees residing in non-English-speaking western countries sometimes adopt phonetic spelling based on the pronunciations of the host countries.

Similarly, Chinese names generally have no comma between family and given names, but some biographees have chosen to add the comma. In each case, punctuation follows the preference of the biographee. Where more than one spelling or word order of a name is frequently encountered—in the press, for example—the sketch has been entered under the most commonly used name, with cross-index references under alternate forms.

In assembling this comprehensive world reference source, Marquis *Who's Who* editors and researchers have exercised diligent care in the preparation of each biographical sketch. Despite all precautions, however, errors may occasionally occur. Users of this directory are invited to draw the attention of the publisher to such errors so that corrections can be made in a later edition.

Adele Hast, Ph.D.
Editor-in-Chief

Standards of Admission

The foremost consideration in determining possible biographies for *Who's Who in the World* is the extent of an individual's reference value throughout the world. Such reference interest is determined by either of two factors: (1) The position of responsibility held, or (2) the level of achievement attained by the individual.

Admission based on the factor of position includes the following examples:

Heads of state and other key government officials.

High-ranking military officers.

Chief justices of highest national courts.

Principal officers of selected international business organizations and corporations.

Chief executive officers of major universities and colleges.

Selected members of national academies of science and academies in the humanities.

Heads of international and national health organizations.

Directors of major national cultural, educational, and scientific organizations, such as museums, opera companies, libraries, and research institutes.

Admission based on individual achievement is based on objective qualitative criteria. To be selected, a person must have attained significant achievement. The biographee may scarcely be known in the local community but may be widely recognized in some field of endeavor for noteworthy accomplishment.

Key to Information in this Directory

❶ MÖLLER, WERNER, ❷ banker; ❸ b. Kiel, Germany, Aug. 22, 1919; ❹ s. Gustav Adolf and Lieselotte (Kleim) M.; ❺ grad. Handelsschule, Kiel, 1939; Dozent, U. Heidelberg (Germany), 1946; ❻ m. Sigrid Søderstrom, Oct. 10, 1947; ❼ children—Erich, Käthe. ⓫ Supervising accountant Staatsbank, Frankfurt/Main, Germany, 1948-59, asst. v.p., 1959-61, v.p., 1961-72, pres., chief exec. officer, 1972-77, chmn. bd., 1977—; dir. Staatsbank, Zürich, Switzerland, Bekaert-Belgium, Brussels, Barrère et Cie., Paris; adj. prof. Johann Wolfgang Goethe U., Frankfurt, Frankfurt/Main, 1970—. ⓬ Mem. Bundesrat, 1965-70; mem. Mayor's Com. Environ. Control, Frankfurt/Main, 1971—, chmn., 1976-77; bd. dirs. Frankfurt Trade Fair. Ⓜ Served with German Army, 1939-45. Ⓜ Decorated Great Cross of Merit. Ⓜ Mem. German Bankers Assn. Ⓜ Social Democrat. Ⓜ Lutheran. Ⓜ Clubs: City, Rotary (Frankfurt/Main). Ⓜ Author: *Studies in World Monetary Balance*, 1966. Ⓜ Home: Engelstrasse 5928 Frankfurt/Main Federal Republic of Germany also Sønderborg Denmark Ⓜ Office: 27 Mertonstrasse Frankfurt/Main D 6000 Federal Republic of Germany

Key:

- ❶ Name
- ❷ Occupation
- ❸ Vital statistics
- ❹ Parents
- ❺ Education
- ❻ Marriage
- ❼ Children
- ❽ Career
- ❾ Civic and political activities
- Ⓜ Military record
- Ⓜ Awards and certifications
- Ⓜ Professional and association memberships
- Ⓜ Political affiliation
- Ⓜ Religion
- Ⓜ Clubs (including lodges)
- Ⓜ Writings and special achievements
- Ⓜ Home address
- Ⓜ Office address

The biographical listings in *Who's Who in the World* are arranged in alphabetical order according to the first letter of the last name of the biographee. Each sketch is presented in a uniform order as in the sample sketch above. The many abbreviations used in the sketches are explained in the Table of Abbreviations.

Table of Abbreviations

The following abbreviations and symbols are frequently used in this Directory

* (An asterisk) following a sketch indicates that it was researched by the Marquis Who's Who editorial staff and has not been verified by the biographee.

A.A. Associate in Arts
AAAL American Academy of Arts and Letters
AAAS American Association for the Advancement of Science
AAHPER Alliance for Health, Physical Education and Recreation
A. and M. Agricultural and Mechanical
AAU Amateur Athletic Union
AAUP American Association of University Professors
AAUW American Association of University Women
A.B. Arts, Bachelor of
AB Alberta
ABC American Broadcasting Company
AC Air Corps
acad. academy, academic
acct. accountant
acctg. accounting
ACDA Arms Control and Disarmament Agency
ACLU American Civil Liberties Union
A.C.P. American College of Physicians
A.C.S. American College of Surgeons
ADA American Dental Association
a.d.c. aide-de-camp
adj. adjunct, adjutant
adj. gen. adjutant general
adm. admiral
adminstr. administrator
adminstrn. administration
adminstrv. administrative
adv. advocate, advisory, adviser
advrt. advertising
A.E. Agricultural Engineer
A.E. and P., AEP Ambassador Extraordinary and Plenipotentiary
AEC Atomic Energy Commission
aero. aeronautical, aeronautic
aerodyn. aerodynamic
AFB Air Force Base
AFL-CIO American Federation of Labor and Congress of Industrial Organizations
AFTRA American Federation TV and Radio Artists
agr. agriculture
agrl. agricultural
agt. agent
AGVA American Guild of Variety Artists
agy. agency
A&I Agricultural and Industrial
AIA American Institute of Architects
IAIA American Institute of Aeronautics Astronautics
AID Agency for International Development
AIEE American Institute of Electrical Engineers
AIM American Institute of Management
AIME American Institute of Mining, Metallurgy, and Petroleum Engineers
AK Alaska
AL Alabama
ALA American Library Association
Ala. Alabama
alt. alternate
Alta. Alberta
A&M Agricultural and Mechanical
A.M. Arts, Master of
Am. American, America
AMA American Medical Association

A.M.E. African Methodist Episcopal
Amtrak National Railroad Passenger Corporation
AMVETS American Veterans of World War II, Korea, Vietnam
anat. anatomical
ann. annual
ANTA American National Theatre and Academy
anthrop. anthropological
AP Associated Press
APO Army Post Office
apptd. appointed
apt. apartment
AR Arkansas
ARC American Red Cross
archeol. archeological
archtl. architectural
Ariz. Arizona
Ark. Arkansas
Arts D. Arts, Doctor of
arty. artillery
ASCAP American Society of Composers, Authors and Publishers
ASCE American Society of Civil Engineers
ASHRAE American Society of Heating, Refrigeration, and Air Conditioning Engineers
ASME American Society of Mechanical Engineers
assn. association
asso. associate
asst. assistant
ASTM American Society for Testing and Materials
astron. astronomical
astrophys. astrophysical
ATSC Air Technical Service Command
AT&T American Telephone & Telegraph Company
atty. attorney
AUS Army of the United States
aux. auxiliary
Ave. Avenue
AVMA American Veterinary Medical Association
AZ Arizona

B. Bachelor
b. born
B.A. Bachelor of Arts
B. Agr. Bachelor of Agriculture
Balt. Baltimore
Bapt. Baptist
B.Arch. Bachelor of Architecture
B.A.S. Bachelor of Agricultural Science
B.B.A. Bachelor of Business Administration
BBC British Broadcasting Corporation
B.C., BC British Columbia
B.C.E. Bachelor of Civil Engineering
B.Chlr. Bachelor of Surgery
B.C.L. Bachelor of Civil Law
B.C.S. Bachelor of Commerical Science
B.D. Bachelor of Divinity
bd. board
B.E. Bachelor of Education
B.E.E. Bachelor of Electrical Engineering
B.F.A. Bachelor of Fine Arts
bibl. biblical
biblog. bibliographical
biog. biographical
biol. biological
B.J. Bachelor of Journalism
Bklyn. Brooklyn
B.L. Bachelor of Letters
bldg. building
B.L.S. Bachelor of Library Science

Bldv. Boulevard
bn. battalion
B.&O.R.R. Baltimore & Ohio Railroad
bot. botanical
B.P.E. Bachelor of Physical Education
br. branch
B.R.E. Bachelor of Religious Education
brig. gen. brigadier general
Brit. British, Britannica
Bros. Brothers
B.S. Bachelor of Science
B.S.A. Bachelor of Agricultural Science
B.S.D. Bachelor of Didactic Science
B.S.T. Bachelor of Sacred Theology
B.Th. Bachelor of Theology
bull. bulletin
bur. bureau
bus. business
B.W.I. British West Indies

CA California
CAA Civil Aeronautics Administration
CAB Civil Aeronautics Board
Calif. California
C.Am. Central America
Can. Canada, Canadian
CAP Civil Air Patrol
capt. captain
CARE Cooperative American Relief Everywhere
Cath. Catholic
cav. cavalry
CBC Canadian Broadcasting Company
CBI China, Burma, India Theatre of Operations
CBS Columbia Broadcasting System
CCC Commodity Credit Corporation
CCNY City College of New York
CCU Cardiac Care Unit
CD Civil Defense
C.E. Corps of Engineers, Civil Engineer
CENTO Central Treaty Organization
CERN European Organization of Nuclear Research
cert. certificate, certification, certified
CETA Comprehensive Employment Training Act
CFL Canadian Football League
ch. church
Ch.D. Doctor of Chemistry
chem. chemical
Chem. E. Chemical Engineer
Chgo. Chicago
chirurg. surgical
chmn. chairman
chpt. chapter
CIA Central Intelligence Agency
CIC Counter Intelligence Corps
Cin. Cincinnati
Cleve. Cleveland
climatol. climatological
clin. clinical
clk. clerk
C.L.U. Chartered Life Underwriter
C.M. Master in Surgery
C. & N.W.Ry. Chicago & Northwestern Railway
CO Colorado
Co. Company
COF Catholic Order of Foresters
C. of C. Chamber of Commerce
col. colonel
coll. college
Colo. Colorado
com. committee
comd. commanded
comdg. commanding

comdr. commander
comdt. commandant
commd. commissioned
comml. commercial
commn. commission
commr. commissioner
condr. conductor
Conf. Conference
Congl. Congregational
Conglist. Congregationalist
Conn. Connecticut
cons. consultant, consulting
consol. consolidated
constl. constitutional
constn. constitution
constrn. construction
contbd. contributed
contbg. contributing
contbn. contribution
contbr. contributor
Conv. Convention
coop., co-op. cooperative
CORDS Civil Operations and Revolutionary Development Support
CORE Congress of Racial Equality
corp. corporation, corporate
corr. correspondent, corresponding, correspondence
C.&O.Ry. Chesapeake & Ohio Railway
C.P.A. Certified Public Accountant
C.P.C.U. Chartered property and casualty underwriter
C.P.H. Certificate of Public Health
cpl. corporal
CPR Cardiac Pulmonary Resuscitation
C.P.Ry. Canadian Pacific Railway
C.S. Christian Science
C.S.B. Bachelor of Christian Science
CSC Civil Service Commission
C.S.D. Doctor of Christian Science
CT Connecticut
ct. Court
CWS Chemical Warfare Service
C.Z. Canal Zone

d. daughter
D. Doctor
D.Agr. Doctor of Agriculture
DAR Daughters of the American Revolution
dau. daughter
DAV Disabled American Veterans
D.C., DC District of Columbia
D.C.L. Doctor of Civil Law
D.C.S. Doctor of Commercial Science
D.D. Doctor of Divinity
D.D.S. Doctor of Dental Surgery
DE Delaware
dec. deceased
def. defense
Del. Delaware
del. delegate, delegation
Dem. Democrat, Democratic
D.Eng. Doctor of Engineering
denom. denomination, denominational
dep. deputy
dept. department
dermatol. dermatological
desc. descendant
devel. development, developmental
D.F.A. Doctor of Fine Arts
D.F.C. Distinguished Flying Cross
D.H.L. Doctor of Hebrew Literature
dir. director
dist. district
distbg. distributing
distbn. distribution

distbr. distributor
disting. distinguished
div. division, divinity, divorce
D.Litt. Doctor of Literature
D.M.D. Doctor of Medical Dentistry
D.M.S. Doctor of Medical Science
D.O. Doctor of Osteopathy
D.P.H. Diploma in Public Health
D.R. Daughters of the Revolution
Dr. Drive
D.R.E. Doctor of Religious Education
Dr.P.H. Doctor of Public Health, Doctor of Public Hygiene
D.S.C. Distinguished Service Cross
D.Sc. Doctor of Science
D.S.M. Distinguished Service Medal
D.S.T. Doctor of Sacred Theology
D.T.M. Doctor of Tropical Medicine
D.V.M. Doctor of Veterinary Medicine
D.V.S. Doctor of Veterinary Surgery

E. East
E. and P. Extraordinary and Plenipotentiary
Eccles. Ecclesiastical
ecol. ecology, ecological
econ. economic
ECOSOC Economic and Social Council (of the UN)
E.D. Doctor of Engineering
ed. educated
Ed.B. Bachelor of Education
Ed.D. Doctor of Education
edit. edition
Ed.M. Master of Education
edn. education
ednl. educational
EDP electronic data processing
Ed.S. Specialist in Education
E.E. Electrical Engineer
E.E. and M.P. Envoy Extraordinary and Minister Plenipotentiary
EEC European Economic Community
EEG electroencephalogram
EEO Equal Employment Opportunity
EKG electrocardiogram
E.Ger. German Democratic Republic
elec. electrical
electrochem. electrochemical
electrophys. electrophysical
elem. elementary
E.M. Engineer of Mines
ency. encyclopedia
Eng. England
engr. engineer
engring. engineering
entomol. entomological
environ. environmental, environment
EPA Environmental Protection Agency
epidemiol. epidemiological
Episc. Episcopalian
ERA Equal Rights Amendment
ERDA Energy Research and Development Administration
ESEA Elementary and Secondary Education Act
ESSA Environmental Science Services Administration
ethnol. ethnological
ETO European Theatre of Operations
Evang. Evangelical
exam. examination, examining
exec. executive
exhbn. exhibition
expdn. expedition
expn. exposition
expt. experiment
exptl. experimental

F.A. Field Artillery
FAA Federal Aviation Administration
FAO Food and Agriculture Organization (of the UN)
FBI Federal Bureau of Investigation
FCA Farm Credit Administration
FCC Federal Communication Commission
FCDA Federal Civil Defense Administration
FDA Food and Drug Administration
FDIA Federal Deposit Insurance Administration
FDIC Federal Deposit Insurance Corporation
F.E. Forest Engineer
FEA Federal Energy Administration
fed. federal
fedn. federation
fgn. foreign
FHA Federal Housing Administration
fln. financial, finance
FL Florida
Fla. Florida
FMC Federal Maritime Commission
FOA Foreign Operations Administration
found. foundation
FPC Federal Power Commission
FPO Fleet Post Office
frat. fraternity
FRS Federal Reserve System
FSA Federal Security Agency
Ft. Fort
FTC Federal Trade Commission

G-1 (or other number) Division of General Staff
Ga., GA Georgia
GAO General Accounting Office
gastroent. gastroenterological
GATT General Agreement of Tariff and Trades
gen. general
geneal. genealogical
geod. geodetic
geog. geographic, geographical
geol. geological
geophys. geophysical
gerontol. gerontological
G.H.Q. General Headquarters
G.N.Ry. Great Northern Railway
gov. governor
govt. government
govtl. governmental
GPO Government Printing Office
grad. graduate, graduated
GSA General Services Administration
Gt. Great
GU Guam
gynecol. gynecological

hdqrs. headquarters
HEW Department of Health, Education and Welfare
H.H.D. Doctor of Humanities
HHFA Housing and Home Finance Agency
HI Hawaii
hist. historical, historic
H.M. Master of Humanities
homeo. homeopathic
hon. honorary, honorable
Ho. of Dels. House of Delegates
Ho. of Reps. House of Representatives
hort. horticultural
hosp. hospital
HUD Department of Housing and Urban Development
Hwy. Highway
hydrog. hydrographic

IA Iowa
IAEA International Atomic Energy Agency
IBM International Business Machines Corporation
IBRD International Bank for Reconstruction and Development
ICA International Cooperation Administration
ICC Interstate Commerce Commission
ICU Intensive Care Unit
ID Idaho
IEEE Institute of Electrical and Electronics Engineers
IFC International Finance Corporation
IGY International Geophysical Year
IL Illinois
Ill. Illinois
illus. illustrated
ILO International Labor Organization
IMF International Monetary Fund
IN Indiana
Inc. Incorporated
Ind. independent
Ind. Indiana
Indpls. Indianapolis
indsl. industrial
Inf. infantry
Info. information
Ins. insurance
Insp. inspector
Insp. gen. inspector general
Inst. institute
instl. institutional
Instn. institution
Instr. instructor
Instrn. instruction
Internat. international
Intro. introduction
IRE Institute of Radio Engineers
IRS Internal Revenue Service
ITT International Telephone & Telegraph Corporation

J.B. Jurum Baccalaureus
J.C.B. Juris Canonici Bachelor
J.C.L. Juris Canonici Lector
J.D. Juris Doctor
J.g. junior grade
jour. journal
Jr. junior
J.S.D. Jurum Scientiae Doctor
J.U.D. Juris Utriusque Doctor
Judge Adv. Gen. Judge Advocate General

Kans. Kansas
K.C. Knights of Columbus
K.P. Knights of Pythias
KS Kansas
K.T. Knight Templar
Ky., KY Kentucky

La., LA Louisiana
lab. laboratory
lang. language
laryngol. laryngological
LB Labrador
lectr. lecturer
legis. legislation, legislative
L.H.D. Doctor of Humane Letters
L.I. Long Island
lic. licensed, license
L.I.R.R. Long Island Railroad
lit. literary, literature
Litt. B. Bachelor of Letters

Litt. D. Doctor of Letters
LL.B. Bachelor of Laws
LL.D. Doctor of Laws
LL.M. Master of Laws
Ln. Lane
L.&N.R.R. Louisville & Nashville Railroad
L.S. Library Science (in degree)
Lt. lieutenant
Ltd. Limited
Luth. Lutheran
LWV League of Women Voters

m. married
M. Master
M.A. Master of Arts
MA Massachusetts
mag. magazine
M.Agr. Master of Agriculture
maj. major
Man. Manitoba
M.Arch. Master in Architecture
Mass. Massachusetts
math. mathematics, mathematical
MATS Military Air Transport Service
M.B. Bachelor of Medicine
MB Manitoba
M.B.A. Master of Business Administration
MBS Mutual Broadcasting System
M.C. Medical Corps
M.C.E. Master of Civil Engineering
mcht. merchant
mcpl. municipal
M.C.S. Master of Commercial Science
M.D. Doctor of Medicine
Md., MD Maryland
M.Dip. Master in Diplomacy
mdse. merchandise
M.D.V. Doctor of Veterinary Medicine
M.E. Mechanical Engineer
ME Maine
M.E. Ch. Methodist Episcopal Church
mech. mechanical
M.Ed. Master of Education
med. medical
M.E.E. Master of Electrical Engineering
mem. member
meml. memorial
merc. mercantile
met. metropolitan
metall. metallurgical
Met. E. Metallurgical Engineer
meteorol. meteorological
Meth. Methodist
Mex. Mexico
M.F. Master of Forestry
M.F.A. Master of Fine Arts
mfg. manufacturing
mfr. manufacturer
mgmt. management
mgr. manager
M.H.A. Master of Hospital Administration
M.I. Military Intelligence
MI Michigan
Mich. Michigan
micros. microscopic, microscopical
mil. military
Milw. Milwaukee
mineral. mineralogical
Minn. Minnesota
Miss. Mississippi
M.I.T. Massachusetts Institute of Technology
mktg. marketing
M.L. Master of Laws
MLA Modern Language Association
M.L.D. Magister Legnum Diplomatic

M.Litt. Master of Literature
M.L.S. Master of Library Science
M.M.E. Master of Mechanical Engineering
MN Minnesota
mng. managing
Mo., MO Missouri
moblzn. mobilization
Mont. Montana
M.P. Member of Parliament
M.P.E. Master of Physical Education
M.P.H. Master of Public Health
M.P.L. Master of Patent Law
Mpls. Minneapolis
M.R.E. Master of Religious Education
M.S. Master of Science
MS Mississippi
M.Sc. Master of Science
M.S.F. Master of Science of Forestry
M.S.T. Master of Sacred Theology
M.S.W. Master of Social Work
MT Montana
Mt. Mount
MTO Mediterranean Theatre of Operations
mus. museum, musical
Mus.B. Bachelor of Music
Mus.D. Doctor of Music
Mus.M. Master of Music
mut. mutual
mycol. mycological

N. North
NAACP National Association for the Advancement of Colored People
NACA National Advisory Committee for Aeronautics
NAD National Academy of Design
N.Am. North America
NAM National Association of Manufacturers
NAPA National Association of Performing Artists
NAREB National Association of Real Estate Boards
NARS National Archives and Record Service
NASA National Aeronautics and Space Administration
nat. national
NATO North Atlantic Treaty Organization
NATOUA North African Theatre of Operations
nav. navigation
N.B., NB New Brunswick
NBC National Broadcasting Company
N.C., NC North Carolina
NCCJ National Conference of Christians and Jews
N.D., ND North Dakota
NDEA National Defense Education Act
NE Nebraska
N.E. Northeast
NEA National Education Association
Nebr. Nebraska
neurol. neurological
Nev. Nevada
NF Newfoundland
NFL National Football League
Nfld. Newfoundland
N.G. National Guard
N.H., NH New Hampshire
NHL National Hockey League
NIH National Institutes of Health
NIMH National Institute of Mental Health
N.J., NJ New Jersey
NLRB National Labor Relations Board
NM New Mexico
N.Mex. New Mexico
No. Northern

NOAA National Oceanographic and Atmospheric Administration
NORAD North American Air Defense
NOW National Organization for Women
N.P. Ry. Northern Pacific Railway
nr. near
NRC National Research Council
N.S., NS Nova Scotia
NSC National Security Council
NSF National Science Foundation
N.T. New Testament
NT Northwest Territories
numis. numismatic
NV Nevada
NW Northwest
N.W.T. Northwest Territories
N.Y., NY New York
N.Y.C. New York City
N.Z. New Zealand

OAS Organization of American States
Ob-Gyn obstetrics-gynecology
obs. observatory
O.D. Doctor of Optometry
OECD Organization of European Cooperation and Development
OECC Organization of European Economic Cooperation
OEI Office of Economic Opportunity
ofcl. official
OH Ohio
OK Oklahoma
Okla. Oklahoma
ON Ontario
Ont. Ontario
ophthal. ophthalmological
ops. operations
OR Oregon
orch. orchestra
Oreg. Oregon
orgn. organization
ornithol. ornithological
OSRD Office of Scientific Research and Development
OSS Office of Strategic Services
osteop. osteopathic
otol. otological
otolaryn. otolaryngological

Pa., PA Pennsylvania
P.A. Professional Association
paleontol. paleontological
path. pathological
P.C. Professional Corporation
PE Prince Edward Island
P.E. Professional Engineer
P.E.I. Prince Edward Island
PEN Poets, Playwrights, Editors, Essayists and Novelists (international association)
penol. penological
P.E.O. women's organization (full name not disclosed)
ptc. private first class
PHA Public Housing Administration
pharm. Pharmaceutical
Pharm.D. Doctor of Pharmacy
Pharm.M. Master of Pharmacy
Ph.B. Bachelor of Philosophy
Ph.D. Doctor of Philosophy
Phila. Philadelphia
philharm. philharmonic
philol. philological
philos. philosophical
photog. photographic

phys. physical
physiol. physiological
Pitts. Pittsburgh
Pkwy. Parkway
Pl. Place
P.&L.E.R.R. Pittsburgh & Lake Erie Railroad
P.O. Post Office
PO Box Post Office Box
polit. political
poly. polytechnic, polytechnical
P.Q. Province of Quebec
P.R., PR Puerto Rico
prep. preparatory
pres. president
Presbyn. Presbyterian
presdl. presidential
prin. principal
proc. proceedings
prod. produced (play production)
prof. professor
profl. professional
prog. progressive
propr. proprietor
pros. atty. prosecuting attorney
pro tem pro tempore
PSRO Professional Services Review Organization
psychiat. psychiatric
psychol. psychological
PTA Parent-Teachers Association
PTO Pacific Theatre of Operations
pub. publisher, publishing, published
publ. publication
pvt. private

quar. quarterly
q.m. quartermaster
Q.M.C. Quartermaster Corps
Que. Quebec

radiol. radiological
RAF Royal Air Force
RCA Radio Corporation of America
RCAF Royal Canadian Air Force
R.D. Rural Delivery
Rd. Road
REA Rural Electrification Administration
rec. recording
ref. reformed
regt. regiment
regtl. regimental
rehab. rehabilitation
rep. representative
Rep. Republican
Res. Reserve
ret. retired
rev. review, revised
RFC Reconstruction Finance Corporation
R.F.D. Rural Free Delivery
rhinol. rhinological
R.I., RI Rhode Island
R.N. Registered Nurse
roentgenol. roentgenological
ROTC Reserve Officers Training Corps
R.R. Railroad
Ry. Railway

s. son
S. South
SAC Strategic Air Command
SALT Strategic Arms Limitation Talks
S.Am. South America
san sanitary
SAR Sons of the American Revolution

Sask. Saskatchewan
savs. savings
S.B. Bachelor of Science
SBA Small Business Administration
S.C., SC South Carolina
SCAP Supreme Command Allies Pacific
Sc.B. Bachelor of Science
S.C.D. Doctor of Commercial Science
Sc.D. Doctor of Science
sch. school
scl. science, scientific
SCLC Southern Christian Leadership Conference
SCV Sons of Confederate Veterans
S.D., SD South Dakota
SE Southeast
SEATO Southeast Asia Treaty Organization
sec. secretary
SEC Securities and Exchange Commission
sect. section
seismol. seismological
sem. seminary
sgt. sergeant
SHAEP Supreme Headquarters Allied Expeditionary Forces
SHAPE Supreme Headquarters Allied Powers in Europe
S.I. Staten Island
S.J. Society of Jesus (Jesuit)
S.J.D. Scientiae Juridicae Doctor
SK Saskatchewan
S.M. Master of Science
So. Southern
soc. society
sociol. sociological
S.P. Co. Southern Pacific Company
spl. special
splty. specialty
Sq. Square
sr. senior
S.R. Sons of the Revolution
S.S. Steamship
SSS Selective Service System
St. Saint
St. Street
sta. station
statls. statistical
stats. statistics
S.T.B. Bachelor of Sacred Theology
stblzn. stabilization
S.T.D. Doctor of Sacred Theology
subs. subsidiary
SUNY State University of New York
supr. supervisor
supt. superintendent
surg. surgical
SW Southwest

TAPPI Technical Association of Pulp and Paper Industry
Tb Tuberculosis
tchr. teacher
tech. technical, technology
technol. technological
Tel.&Tel. Telephone & Telegraph
temp. temporary
Tenn. Tennessee
Ter. Territory
Terr. Terrace
TESL Teaching English as a Second Language
Tex. Texas
Th.D. Doctor of Theology
theol. theological
Th.M. Master of Theology
TN Tennessee
tng. training

topog. topographical
trans. transaction, transferred
transl. translation, translated
transp. transportation
treas. treasurer
TV television
TVA Tennessee Valley Authority
twp. township
TX Texas
typog. typographical

U. University
UAW United Auto Workers
UCLA University of California at Los Angeles
UDC United Daughters of the Confederacy
U.K. United Kingdom
UN United Nations
UNESCO United Nations Educational, Scientific and Cultural Organization
UNICEF United Nations International Children's Emergency Fund
univ. university
UNRRA United Nations Relief and Rehabilitation Administration
UPI United Press International
U.P.R.R. Union Pacific Railroad
urol. urological
U.S. United States
U.S.A. United States of America
USAAF United States Army Air Force
USAF United States Air Force

USAFR United States Air Force Reserve
USAR United States Army Reserve
USCG United States Coast Guard
USCGR United States Coast Guard Reserve
USES United States Employment Service
USIA United States Information Agency
USIS United States Information Service
USMC United States Marine Corps
USMCR United States Marine Corps Reserve
USN United States Navy
USNG United States National Guard
USNR United States Naval Reserve
USO United Service Organizations
USPHS United States Public Health Service
U.S.S. United States Ship
USSR Union of the Soviet Socialist Republics
USV United States Volunteers
UT Utah

VA Veterans' Administration
Va., VA Virginia
vet. veteran, veterinary
VFW Veterans of Foreign Wars
V.I., VI Virgin Islands
vice pres. vice president
vis. visiting
VISTA Volunteers in Service to America
VITA Volunteers in Technical Service
vocat. vocational
vol. volunteer, volume

v.p. vice president
vs. versus
VT., VT Vermont

W. West
WA Washington
WAC Women's Army Corps
Wash. Washington
WAVES Women's Reserve, U.S. Naval Reserve
WCTU Women's Christian Temperance Union
W. Ger. Germany, Federal Republic of
WHO World Health Organization
WI Wisconsin
Wis. Wisconsin
WSB Wage Stabilization Board
WV West Virginia
W. VA. West Virginia
WY Wyoming
Wyo. Wyoming

YK Yukon
YMCA Young Men's Christian Association
YMHA Young Men's Hebrew Association
YM & YWHA Young Men's and Young Women's Hebrew Association
YWCA Young Women's Christian Association
yr. year

zool. zoological

Alphabetical Practices

Names are arranged alphabetically according to the surnames, and under identical surnames according to the first given name. If both surname and first given name are identical, names are arranged alphabetically according to the second given name. Where full names are identical, they are arranged in order of age—with the elder listed first.

Surnames beginning with De, Des, Du, however capitalized or spaced, are recorded with the prefix preceding the surname and arranged alphabetically, under the letter D.

Surnames beginning with Mac and Mc are arranged alphabetically under M.

Surnames beginning with Saint or St. appear after names that would begin Sains, and are arranged according to the second part of the name, e.g., St. Clair before Saint Dennis.

Surnames beginning with prefix Van are arranged alphabetically under letter V. Surnames containing the prefix Von or von are usually arranged alphabetically under letter V; any exceptions are noted by cross references.

Compound hyphenated surnames are arranged according to the first member of the compound. Compound unhyphenated surnames are treated as hyphenated names.

Hyphenated Arabic names beginning Al- or El- are treated as compound hyphenated names, and alphabetized according to the first word. Those beginning with lowercase al- are alphabetized under the second word. Thus, Al-Bahar, Mohammed is listed under Al-, while al-Bahar, Mohammed is found under Bahar, Mohammed al-.

Parentheses used in connection with a name indicate which part of the full name is usually deleted in common usage. Hence Abbott, W(illiam) Lewis indicates that the usual form of the given name is W. Lewis. In such a case, the parentheses are ignored in alphabetizing. However if the name is recorded Abbott, (William) Lewis, signifying that the entire name William is not commonly used, the alphabetizing would be arranged as though the name were Abbott, Lewis.

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Who's Who in the World

ADAHL, JORG, corp. planner; b. Trondheim, Norway, June 16, 1937; came to U.S., 1966; s. Ottar P. and Gurli (Lockra) A.; M.Sc.M.E., Tech. U. Norway, 1961; M.B.A., U. San Francisco, 1973; m. Inger R. Holst, July 13, 1973; children—Erik, Nina. Research fellow Tech. U. Norway, Trondheim, 1961-62; mgr. arc welding devel. NAG, Oslo, 1964-66; mfg. engr. Varian Assos., Palo Alto, Calif., 1966-67; bus. mgr. United Airlines, San Francisco, 1974-75, sr. systems analyst, 1977-81; corp. planner Magnex Corp., San Jose, Calif., 1981—; owner, gen. mgr. Internat. Contacts & Cons., San Mateo, Calif., 1976—, Recipient Certificate of Honor, San Francisco Bd. Suprs., 1973. Mem. Am. Inst. Indsl. Engrs. (Sr.), Leif Erikson League (pres. 1973), Assn. M.B.A. Execs., Norwegian Soc. Profl. Engrs. Club, Young Scandinavians (v.p. 1971). Author: Strength Analysis, Welded Structures, 1967; contrb. articles in various fields to profl. jour.; editor, Nordic Highlights, 1972. Home: 1707 Monticello Rd San Mateo CA 94402 Office: Magnex Corp, San Jose, CA

AAES-JÖRGENSEN, ERIK, biochemist; b. Sdr. Felding, Denmark, Mar. 30, 1918; s. Jørgen David and Helene Margrethe (Aaes) Jørgensen; mag.scient. in biochemistry, U. Copenhagen, 1948, Dr.sc., 1954; m. Tove Annelise Sylvest Pedersen, Oct. 4, 1975; children—Anders, Jesper, Britta, Jørgen, Torben, Erling. Mem. faculty Poly. Inst., Copenhagen, 1948-70, docent, 1959-70; research fellow Hormel Inst., U. Minn., Austin, 1956-58; prof. biochemistry Royal Danish Sch. Pharmacy, Copenhagen, 1970—; cons. Danish Fat Research Inst., 1963—. Mem. Am. Oil Chemists Soc., Am. Inst. Nutrition, European Group Nutritionists, Lipid Forum, Danish Biol. Soc., Danish Biochem. Soc., Danish Nutrition Soc. Author biochemistry textbooks, articles and revs. on lipid biochemistry and nutrition. Home: 40 Ingersvej Charlottelund 2920 Denmark Office: 2 Universitetsparken Copenhagen 2100 Denmark

AAGRE, CURT, mdse. broker; b. Grimstad, Norway, Oct. 11, 1909; s. George and Tecla (Nilsen) A.; student Columbia, 1927-28, N.Y. U., 1929-30; grad. Pace Inst., 1933; postgrad. Harvard, 1948; m. Helen Winter, Oct. 19, 1946; children—Phyllis Kim, Carol Dee. Various positions to asst. div. sales mgr. Corn Products Refining Co., N.Y.C., 1926-40, fgn. rep., Mexico, 1947-48, Europe, 1949-52; asst. sales mgr. Hubinger Co., N.Y.C., 1953-59; sales mgr. Connell Rice & Sugar Co., Westfield, N.J., 1960-63; sales mgr. nat. accounts Olavarria & Co., N.Y.C., 1963; asst. v.p. Lamborn & Co., Inc., N.Y.C., 1964-69, v.p., mgr. diversification program, after 1969, also exec. purchasing staff now pres. Curt Aagre Co., Westfield, N.J. Trustee, Westfield Adult Sch. Served to acting col. AUS, 1941-46. Decorated D.S.M. Mem. Harvard Assn., Am. Inst. Mgmt., Nat. Confectioners Salesmen Assn., N.Y. Sugar Club, N.Y. Preservers Assn., Sales Exec. Club, Candy Exec. Club, VFW, Presbyterians, Club: Rotary (Westfield). Address: 858 Boulevard Westfield NJ 07090

AALUND, OLE, veterinarian, educator; b. Gentofte on Zealand, Denmark, Apr. 26, 1930; s. Anders Peter and Vita (Juby-Smith) Aa.; D.V.M., Royal Vet. and Agrl. U., 1955, D.V.Sc. (Ph.D.), 1968; postgrad. in Immunol. Studies, U. Calif., Davis, 1962-64; m. Ilse Kindt, Nov. 5, 1955; children—Anders, Karen. Asst. prof. Royal Vet. and Agrl. U., Copenhagen, 1955-56, 59-60, 65-70, asso. prof., 1970-74, prof. preventive medicine, 1974—; gen. practice vet. medicine, Ørting, Denmark, 1956-57; with Danish Meat Research Inst., Roskilde, 1957-58, Danish Acad. Tech. Scis., Copenhagen, 1961-62; asst. specialist U. Calif., Davis, 1962-64. Chmn. council anti-torture research Internat. Sci. Soc.; mem. Danish sect. med. groups Amnesty Internat.; mem. Gammel Holte vestry, 1973-80. Served with Danish Med. Corps, 1955-56. Recipient award for immunochem. and serol. research Meml. Fund of Prof. C.O. Jensen, 1966. Mem. Am. Assn. Immunologists, Danish Assn. Allergy and Immunology, Danish Assn. Tchrs. of Preventive Medicine (council 1977—), Danish Vet. Med. Assn., Danish Soc. Protection of Animals (council 1976—), Danish Soc. Vet. Pathology and Hygiene, Sigma Xi. Contrb. papers and revs. to internat. jour. Home: 63 Højledet Holte Denmark DK2840 Office: 13 Bülowsvej, Copenhagen V, Denmark DK-1870

AAQUIST JOHANSEN, SVEND, composer, conductor; b. Lyngby, Denmark, Dec. 7, 1948; s. Frede and Tove Johansen; student musicology U. Copenhagen, 1969-75; student piano and conducting Royal Danish Conservatory Music, 1967-74. Debut, 1969; founder L.U.T. contemporary music assn., 1970; editor Danish Mus. Rev., 1971-70; music producer new music Denmark Radio, 1972—; compositions include: (chamber orch.) Pentagram, 1969, Songs in Between, 1970, (brass quintet) Salut-Salut, 1970, (flute, oboe, viola, horn) Floes-Winter-music, 1972, (10 brass players) Solla Famire Dots, 1972, (band or orch. without strings) Unite, 1974, (chamber ensemble) ke-TJAK, 1973, For Two/Ten Pianos, 1974, Wiegienled (Brecht), 1974, A Prelude to Universal Brotherhood for 36-100 Tubas and Two Percussion Groups, 1977, (cello solo) The Lilacs Shall Bloom in May, They Shall!, 1978, (orch.) Sinfonia, 1976, (commd. by City of Stockholm) (orch., choir and solos) Sisyphus Sings, 1979, (dance theatre) Malinche, 1979; contr. contemporary music in concert, radio, TV, internat. festivals; mem. Danish State Music Council, 1972-77. Danish Composers stipendium, 1975-77. Mem. Internat. Soc. Contemporary Music (chmn. Danish sect. 1980—), Danish Composers Soc. (dir. 1973), Soc. Publn. Danish Music (dir. 1975), Office: 7i Rialtovej Copenhagen DK-2300 S Denmark

AARNIO, AULIS ARVI, lawyer; b. Kymi, Finland, May 14, 1937; s. Arvid Valdemar and Aune Helena (Lehtinen) A.; m. Marja-Liisa Vahanen, Dec. 26, 1960 (div. 1981); children—Kari Aulis, Annamaria. Admitted to bar, 1961; mem. faculty U. Helsinki Law Sch., 1968—, prof. family and succession law, 1970—; research prof. Acad. Finland, 1974—. Served with Finnish Navy, 1964. Grantee Finnish founds. Mem. Acad. Scis., Finland (hon.), Internat. Vereinigung Rechts und Sozialphilosophie. Author: Legal Reasoning, 1976; Legal Point of View, 1977; Denkweisen der Rechtswissenschaft, 1979; also articles; chief editor Oikeustiede-Jurisprudencia, 1972—. Home: 36270 Huutjarvi Finland Office: 15 Hallituskatu, Helsinki 00100, Finland

AARNIO, PAAVO, ret. govt. ofcl., economist; b. Helsinki, Finland, Feb. 20, 1908; s. Herman and Elin Johanna (Weekman) A.; B.A., Helsinki U., 1937, M.A., 1938; m. Rauha Maria Vuorinen, Apr. 6, 1939. Bank clk., Helsingin Osakepankki, Helsinki, 1928-32, bank mgr., 1933-39; sec. Del. for Fgn. Trade, Govt. of Finland, 1940-42, refendary Ministry of Commerce and Industry, Helsinki, 1942-46,

comml. counsellor, 1947-71; vice chmn. Bd. Wages and Salaries Helsinki, 1972-75, Bd. Personnel Questions, 1975-77. Mem. diaspora com. Finnish Ch., Helsinki, 1965-74; bd. dirs. Del. for Service Abroad, 1957-70. Served to lt. inf., Finnish Army, 1939-42, 44. Decorated Liberty Cross with swords and oak leaves, White Rose of Finland, Order of Knights of Leopold II; recipient Gold medal award Finnish Mktg. Fedn., 1967. Mem. Assn. Bus. Economy, Finnish Assn. Polit. Economy, Internat. Inst. Adminstrv. Scis. (dir. 1961—), Soc. Econ. Research (hon. mem.), Finnish Civil Servants Union (dir. 1948-51, Gold medal award 1964, plaque 1968, Flag of Honor 1978, hon. chmn. Helsinki dist. 1979—), Assn. Civil Servants of State Council (hon. chmn. 1972—, flag of honor 1977), Union of Young Power (chmn. 1971), Ct. of Ins., Union of Finnish Liberal Pensioners (chmn. 1976—), Assn. Bank Ofcls. (Flag of Honor 1968), Latin-Am. Assn. in Finland (chmn. 1963-69, 72—), African Soc. in Finland (chmn. 1964—), League Friendship Soc. (vice chmn. 1977-80, chmn. 1981), Paasikivi Soc. Liberal Party. Mem. Evangelic Lutheran Ch. Contrb. numerous articles on econs. to profl. jour., newspapers, reference books. editor: History of the Ministry of Commerce and Industry, 1964. Address: 8 Mechelininkatu 00100 Helsinki 10 Finland

AARON, CHLOE WELLINGHAM, TV exec.; b. Santa Monica, Calif., Oct. 9, 1938; d. John Rufus and Grace (Lloyd) Wellingham; B.A., Occidental Coll., 1961; M.A., George Washington U., 1966; m. David Laurence Aaron, Aug. 11, 1962; 1 son, Timothy Wellingham. Free-lance journalist, 1965-70; dir. Public Media program Nat. Endowment for Arts, Washington, 1970-76; sr. v.p. programming Public Broadcasting Service, Washington, 1976-81; pres. Chloe Aaron Assos., 1981—, mem. trustee com. on film Museum Modern Art, N.Y.C.; mem. film and video com. Whitney Mus. Art; mem. nat. adv. bd. Center for the Book, Mem. Nat. Acad. TV Arts and Scis., Internat. Radio and TV Soc., Am. Women in Radio and TV. Office: 609 Fifth Ave New York NY 10017

AARON, MERIK ROY, educator, fin. exec.; b. N.Y.C., May 22, 1947; s. Harry and Gertrude S. (Scherl) A.; B.A., L.I. U., 1969, M.A., 1971; prof. diploma Hofstra U., 1974; Ed.D., Nova U., 1982. Dist. sci. coordinator Carle Place (N.Y.) Public Schs., 1969-80; dist. sci. supr. Lawrence (N.Y.) Public Schs., 1980—; founder, pres. G.N.S. Investment Fund, N.Y.C., 1971—; v.p. Mervic Enterprises, Huntington, N.Y., 1978—; adj. prof. Nassau Community Coll., Syracuse (N.Y.) U. Trustee Carle Pl. Bd. Edn., N.Y. Recipient 1st ann. contrib. to sci. edn. award Nassau County Sci. Suprs. Assn., 1981, achievement award Nat. Sci. Suprs. Assn., 1981. Named Educator of Yr., Carle Place Public Schs., 1978. Mem. Nat. Assn. Investment Clubs, Nat. Sci. Tchrs. Assn., Nat. Sci. Suprs. Assn., Nassau County Sci. Suprs. Assn. (pres. 1979), N.Y. State Sci. Suprs. Assn. (pres. 1982-83), Nassau County Republican Chmn.'s Club, Clubs: Civic, Kiwanis (pres. 1982-83), Masons (officer). Home: 104 Ward St Westbury NY 11590

AARONSON, DAVID ERNEST, lawyer, educator; b. Washington, Sept. 19, 1940; s. Edward Allan and May (Rosett) A.; B.A. in Econ., George Washington U., 1961, M.A., 1964, Ph.D., 1970; LL.B., Harvard U., 1964; LL.M. (E. Barrett Prettyman fellow), Georgetown U., 1965. Research asst. Office of Commr., Bur. Labor Stats., U.S. Dept. Labor, Washington, 1961; admitted to D.C. bar, 1965, Md. bar, 1975, U.S. Supreme Ct. bar, 1969; staff atty. legal intern program Georgetown Grad. Law Center, Washington, 1964-65; research asso. patent research project dept. econs. George Washington U., Washington, 1966; asso. firm Aaronson and Aaronson, Washington, 1965-67, partner, 1967-70; mem. faculty Am. U. Law Sch., Washington, 1970—, prof. Sch. Justice, Coll. Public and Internat. Affairs, 1981—, dep. dir. Law and Policy Inst. abroad in Jerusalem, Israel, summer, 1978; interim dir. clin. programs Md. Criminal Justice Clinic, 1971-73, founder prosecutor criminal litigation clinic, 1972; vis. prof. Law Sch. of Hebrew U., Jerusalem, summer, 1978. Mem. council Friendship Heights Village Council, 1979, recipient Outstanding Community Service award, 1980. Named Outstanding Tchrr., Am. U. Law Sch., 1978, 81. Mem. Am. Bar Assn., Am. Trial Lawyers Assn., D.C. Bar Assn. (chmn. criminal code rev. com. 1971-73), Md. State Bar Assn., Montgomery County (Md.) Bar Assn., Am. Econ. Assn., Phi Beta Kappa, Omicron Delta Kappa, Delta Sigma Rho, Phi Delta Epsilon. Author: Maryland Criminal Jury Instructions and Commentary, 1975; (with N.N. Kittrie and D. Saari) Alternatives to Conventional Criminal Adjudication: Guidebook for Planners and Practitioners, 1977; (with B. Hoff, P. Jaszi, N.N. Kittrie and D. Saari) The New Justice: Alternatives to Conventional Criminal Adjudication 1977; (with C.T. Dienes and M.C. Mushens) Decriminalization of Public Drunkenness: Tracing the Implementation of a Public Policy, 1982; contrb. articles to legal and public policy jour. Office: Myers Hall Room 201 A, American Univ Law School, Massachusetts and Nebraska Ave NW, Washington, DC 20016

AARTS, CHRISTIANUS JOSEPHUS MARIA, ednl. adminstr.; b. Eindhoven, Netherlands, Jan. 29, 1919; s. Johannes and Everdina Hendrika Maria (Eskes) A.; M. Physics and M. Math., U. Utrecht (Netherlands), 1948, D.Sc., 1952; m. Imelda Elisabeth Maria Hennekam, July 20, 1943. Dir., Hennekam, Roosendaal, Netherlands, 1943-53; mng. dir. phys. labs. U. Utrecht, 1952-58; founder, dir. Faculty of Sci., U. Nijmegen (Netherlands), 1957—; bd. dirs. Nat. Inst. High Energy Physics of Netherlands; mem. sect. computer sci. Academic Council Netherlands. Recipient Pro Mundi Beneficio medala Brazilian Acad. Human Sci., 1975, medal of Merit Quene Juliana of The Netherlands, 1977; decorated officer Order of Orange Nassau, 1982. Fellow Brit. Computer Soc.; mem. phys. socs. Utrecht, Netherlands, Italy, European, Am. phys. socs., Am. Assn. Physics Tchrs., Acoustical Soc. Am., Optical Soc. Am., Health Physics Soc. (U.S.), Am. Geophys. Union, AAAS, ASTM, Soc. Indsl. and Applied Math. (U.S.), Am. Soc. Info. Sci., Assn. Computing Machinery (U.S.), N.Y. Acad. Scis., Netherlands Soc. Informatics, SHARE European Assn. (pres. 1972-77, dir. 1967—), Utrecht Soc. Arts and Scis., Brit. Soc. History Sci. Roman Catholic. Club: Royal Automobile of Netherlands. Author: Investigation of an Arc-Discharge, 1952. Home: Van Randwijckweg 22 6573 EJ Beek bij Nijmegen, The Netherlands Office: Toernooiveld 6525 ED, Nijmegen, The Netherlands

ABA, IVAN, journalist; b. Gyöngyös, Hungary, Mar. 20, 1923; s. Dező and Ella (Venetianer) A.; Dr. Econs., Jozsef Nador Müszaki es Gazdasagtudományi Egyetem, 1948; Dr. Law and Polit. Scis.,

Pazmany Peter Tudomanyegyetem, 1947; m. Judit Bartal, Apr. 2, 1952; children—Zsuzsa, Zoltan. Editor, Haladas, 1947-51, Tobbtermeles, 1952-57, Muszaki Elet, 1955-81, (Technical Magazine, 1967—) Forum, 1977-81, Auto-Motor, 1981—; lead main sect. Press of Fedn. Tech. and Sci. Socs., 1956-81; cons. editor Lapkiado V. Recipient award Order of Labor. Mem. Nat. Assn. Hungarian Journalists. Writings include: (novels) The Hermit of Vasarhely, 1955, Witches of Szeged, 1963, The Traitor, 1965; Technical-scientific Research in Hungary, 1965, How It Works?, 1958, The World Industry, 1968, The Country of Forests, 1954; 2 guidebooks. Clubs: Feszek Arts, Hungarian Automobile. Home: 38 Ulaszlo Budapest H 1114 Hungary Office: 9-11 Lenin Korut Budapest H 1906 Hungary

ABAJIAN, HENRY KRIKOR, mech. engring. exec.; b. Aintab, Turkey, Dec. 8, 1909; s. Hagop H. and Vartouhi (Haleblian) A.; came to U.S., 1923, naturalized, 1933; M.E., Rensselaer Poly. Inst., 1933; m. Gladys Lucy Mahsergian, Jan. 12, 1942; 1 dau., Carol. Design engr. Wallace & Tiernan Co., Am. La France Foamite Corp., Heald Machine Co., 1933-40; design specialist Consol. Vultee Aircraft Corp., 1940-46; project engr. Willys Overland Motors, Gen. Tire & Rubber Co., Marquardt Aircraft, Hycon Mfg. Co., 1946-51; v.p., dir., engring. Resdel Industries, 1951-54, pres. chmn. bd., chief exec. officer, from 1954, chmn. bd., 1981; chmn. bd., chief exec. officer Resdel Engring. Corp., 1965—, Mfrs. Assistance Corp., 1970-81, Fanon/Courier Corp., 1971-81, Resdel Internat., 1972-81. Registered profl. engr., Calif. Mem. U.S. Power Squadron, Sigma Xi, Congregationalist (chmn.). Club: Masons. Home: 2052 Midlothian Dr Altadena CA 91001 Office: 300 E Live Oak Ave, Arcadia, CA 91006

ABALKHAIL, MOHAMMED ALI, fin. minister Saudi Arabia; b. Bureuda, Saudi Arabia, 1935; B.Sc., Cairo U., 1956; 4 children. With Ministry of Communications, Saudi Arabia, dep. minister fin. and nat. economy, 1964, vice minister, 1970, minister of state for fin. and nat. economy and mem. Council Ministers, 1971, minister of fin. and nat. economy, 1975—; chmn. bd. dirs. Saudi Internat. Bank, London, Public Investment Fund, Internat. Public Adminstrn., Pension & Retirement Fund, Saudi Fund for Devel.; dir. Supreme Consultative Council of Petroleum and Minerals, Royal Comm. for Indsl. Estates in Jubail and Yanbo, Saudi Arabian Airlines Corp., Council of Labour Power. Recipient Niger medal leader statues, Pakistan Crescent medal, Neila medal 1st class, Order de Merite du Grand, Isabel La Catolka - Grau-Cruz, Order of Mahabotra Obbrandana, medaille du Mérite, Meddaile Nationale Leonard Rang Commandeur, Grand Cross medal, others. Address: Ministry of Fin and Nat Economy Riyadh Saudi Arabia*

ABARQUEZ, RAMON FABELLA, JR., physician; b. Manila, July 9, 1928; s. Ramon F. and Guadalupe Y. (Fabella) A.; A.A., U. Philippines, 1948, M.D., 1953; m. Florencia V. de Jesus, Feb. 25, 1956; children—Ramon Fabella, Roy, Rowena. Internat. Philippine Gen. Hosp., 1952-53; resident Mary Johnston Hosp., Manila, 1953-56, Cumberland-Bklyn.-Jewish Med. Center, N.Y.C., 1956-57, Bellevue Div. Cornell Med. Sch., N.Y.C., 1957-60; practice medicine specializing in cardiology, 1961—; mem. staff St. Luke's Hosp., Cardinal Santos Meml. Hosp., Philippine Gen. Hosp., Med. Center Manila, Philippine Heart Center for Asia (all Philippines); cardiology cons. Philippine Air Lines, 1971-77; sr. cardiologist San Miguel Corp., 1967—; mem. faculty dept. medicine U. Philippines, 1961—, prof. cardiology, 1977—, exec. officer cardiology sect., 1963-74, chief cardiology sect., 1974—; chief sect. clin. cardiology Philippine Heart Center for Asia, 1975-78, chief sect. on electrophysiology, 1979—; head tech. com. degenerative diseases Nat. Sci. Devel. Bd. Philippines, 1981—; chmn. exec. bd. F. Tanco Meml. Award in Cardiology, 1979—; dir., exec. bd. NRC Philippines, 1978—; mem. exec. bd. Philippine Council Health Research, 1981—; mem. med. adv. bd. Heart Found. Philippines, 1972—, Trustee, Gen. Emilio Aguinaldo Coll. Medicine, 1979—, Recipient Cultural Heritage award Republic of Philippines, 1963; N.Y. Heart Assn. fellow, 1958-59; Rockefeller Found. fellow, 1958-61; Lederle Cyanamid grantee, 1970. Diplomate Philippine Bd. Internal Medicine, Philippine Bd. Cardiology (head 1981—), Fellow Am. Coll. Cardiology, Philippine Coll. Cardiology, Philippine Heart Assn. (research award 1977), Philippine Coll. Physicians; mem. Philippine Med. Assn., Manila Med. Soc., Internat. Soc. Hypertension, Philippine Assn. Advancement of Sci., Internat. Order of De Molay (Legion of Honor award 1966), U. Philippines Med. Alumni Soc., Phi Kappa Mu, Clubs: Masons (32 deg.), Baguio Green Valley Country, Contrb. research articles on cardiology to profl. jour.; editorial bd. Philippine Jour. Internal Medicine, 1975-78. Home: 13 Marikit St West Triangle Homes Quezon City Philippines Office: Room 413, Medical Arts Bldg, Philippine Heart Center, Manila, Philippines

ABATTI, ENRIQUE LUIS, lawyer, author; b. Quilmas, Argentina, Apr. 8, 1950; s. Enrique Luis and Maria Elena (Etchegaray) A.; Lawyer, U. Buenos Aires, 1976; m. Rosa Linda Denari, Apr. 5, 1979; children—Alejandro, Enrique. Admitted to bar, 1976; sec. Centro Argentino de Berecho Inmobiliario y Propiedad Horizontal, 1977, First Nat. Conf. Legal Aspect of Renting, 1981; editor, speaker in field. Mem. Argentine Fedn. Lawyers Assn. (sec. nat. conf.), La Plata Lawyers Assn., Argentine Acad. Renting, Center Investigation of Environ. Law, Civil Law Inst. Roman Catholic. Author: New Renting Law, 1976; Bargain and Sale Contracts, 1977; Renting Contracts and Judicial Proceedings, 1979; The Leasing Contract, 1979; 1500 Commercial, Civil, Labor, Rural Contracts, 1980, others; contrb. articles to legal jour. Office: 684 p q 25 M T de Alvear, Buenos Aires, Argentina 1395

ABATZOPOULOS, LEANDROS, mfg. co. exec.; b. Athens, Greece, Apr. 25, 1950; s. Alexander and Smaro (Kalogeropoulou) A.; M.B.A., Calif. Western U., 1980; diploma in mktg. Inst. Mktg., Eng., 1975. Product mgr. Ifestos Engring. S.A., Geneva, Switzerland, 1975-77; mktg. analyst in E.C.S. S.A. (Electronic Comml. Services), Athens, 1978-80; mktg. mgr. EVGA S.A., Athens, 1981—; negotiator and project execution expert. Served with Greek Armed Services, 1970-72. Mem. Inst. Mktg. of Eng., Marketeers in Greece. Clubs: Diving, Hunting, Author: Definition of Objectives In Marketing Planning Through Marketing Research, 1980; contrb. articles to profl. jour. Home: 10 Koumarianou Athens Greece 707 Office: 88 Iera Odos, Athens, Greece 301

ABBADO, CLAUDIO, conductor; b. Milan, Italy, June 26, 1933; s. Michelangelo and Maria Carmela (Savagnone) A.; diploma in pianoforte Giuseppe Verdi Conservatory, Milan, 1952; diploma in composition, 1955; diploma in conducting Vienna Acad. Music, 1958; m. Gabriella Cantalupi; children—Daniele, Alessandra, Sebastian. Conducting debut Orchest. Filarmonica, Trieste, 1958; U.S. debut with N.Y. Philharmonic, 1963; music dir. La Scala, Milan, 1968; permanent cond. Vienna Philharmonic, 1971—; prin. guest cond. London Symphony Orchest., 1971, prin. cond., 1979—; mus. dir. European Community Youth Orchest., 1977—; guest cond. prin. orchs. in Europe and Am.; cond. prin. opera houses, 1961—; Recipient Koussevitzky conducting prize, 1958; Dimitri Metropoulos prize, N.Y., 1963; Diapason prize, 1966; Grand Prix du Disque, 1967; Deutsche Schallplatten prize, 1968; Mozart medal Mozart Gemeinde, Vienna, 1973. Address: Piazzetta Bossii 20121 Milan Italy*

ABBAMONTE, GIUSEPPE MARIA, lawyer; b. Naples, Italy, Mar. 17, 1923; s. Orazio and Lucia Maria (diNapoli) A.; degree in law U. Naples, 1944, libera docenza in const. law, 1956, in public law, 1955; m. Maria Clementina Boccia Sept. 8, 1958 (dec. 1966); children—Lucia, Orazio; m. 2d, Maria Pia Studieri, Dec. 22, 1969. Judge, Naples, 1947-55, Rome, 1956-58; prof. law U. Macerata, 1958-62, U. Bari, 1962-64, Naval Inst. U. Naples, 1964-66, Faculty Law, U. Naples, 1966—; avv. Upper Ct., 1962—; mem. Giannini Comm., 1975-76, Regional Comm. for Intervention in Earthquake Zone Zampiana, 1980-81. Mem. Lawyers Assn. (council 1968-69, sec. 1968-69), Nat. Assn. Univ. Profs. Roman Catholic Clubs: Lions, Circolo di Unione, Circolo Canottieri Napoli. Author: Il Processo Costituzionale Italiano, Vol. 1, 1957, Vol. 11, 1961; Libertà E Convinzione, 1964; Principi di Diritto Finanziario, 1974; Codice Tributario, 1979-80, also others. Office: 6 Gramsci Naples Italy

ABBAN, FRANK ADAMS, internist; b. Sekondi, Ghana, June 13, 1925; s. Jacob Adams and Rosa (Last) A.; student St. Augustine's Coll., Cape Coast, 1941-42, Bradford Coll. Eng., 1951-52; M.D., Vienna U., 1962; M.I.M., Postgrad. Med. Acad., Vienna, 1964, D.P.M., 1964, D.Psych., 1965; m. Isabella Hayfron, Jan. 28, 1967; children—Rita, Frank Adams, Joseph Willie. Intern, Vienna Gen. Hosp., 1962-63; asst. physician Zofinggen Hosp., Switzerland, 1964-65; physician Korle-Bu Teaching Hosp., Accra, Ghana, 1965-67; chief cons. physician St. Francis Clinic, Accra, 1967-68, specialist med. practitioner, 1968—; med. dir. St. Francis Research Clinic, Accra, 1972. Recipient cert. of merit for sci. and cultural activities Accademia Internazionale Leovincio, Rome, 1980, Redemptor Hominis medal Pope John Paul II, 1980. Fellow Vienna Acad. Internal Medicine, West African Coll. Physicians; mem. Ghana Med. Soc., Internat. Soc. Human Ecology, Intermedic Physicians, Internat. Fedn. Hygiene, Preventive Medicine and Social Medicine, Clubs: Internat. Dancing (Bradford); Ridge Tennis (Accra); Knight of Marshall (supreme councillor). Author: Obesity and Diabetes, 1963; Hypertension, 1964; Sickle Cell Book, 1972. Research on hypertension and hemoglobinopathy. Home and office: PO Box 6041 Accra Ghana

ABBOTT, BENJAMIN EDWARD, JR., corp. exec.; b. Washington, Dec. 7, 1928; s. Benjamin Edward and Agnes (Campbell) A.; B. Indls. Engring., U. Fla., 1953; m. Elianna Gray, May 22, 1955; children—Celeni, Dawn, Mark, Scott. Indsl. engr. E.I. DuPont de Nemours & Co., Martinsville, Va., 1951; Allis Chalmers, Wil., 1953, Pensacola (Fla.) Naval Air Sta., 1955-61; m. mem. exec. staff Dr. Werner von Braun, Marshall Space Flight Center, NASA, Huntsville, Ala., 1961-68; v.p., dir. Investors Corp. of Am., Birmingham, Ala., 1968-75, Internat. Resorts, Inc., 1970-75; pres. Prof. Realty Services Inc., Birmingham, 1977-78, Energy Systems Engrs., Inc., Birmingham, 1978—; dir. Pacific Am. Corp., San Francisco, Life Ins. Co. of Am., Birmingham, 1966-75. Served to lt. (j.g.) USNR, 1953-55. Registered prof. engr., Ala., Fla. Mem. Nat. Soc. Prof. Engrs., Assn. Energy Engrs., Pi Kappa Phi. Home: Route 2 Box 116-B Alpine AL 35014

ABBOTT, DAVID HENRY, mfg. co. exec.; b. Milton, Ky., July 6, 1936; s. Carl and Rachel (Miles) A.; B.S., U. Ky., 1960, M.B.A., 1961; m. Joan Shefchik, Aug. 14, 1976; children—Kristine, Gina, Beth. With Ford Motor Co., Louisville, Mpls. and Dearborn, Mich., 1961-69; div. controller J.I. Case Co., Racine, Wis., 1970-73, gen. mgr. service parts supply, 1973-75, v.p., 1975—, v.p./gen. mgr. constr. equipment div., 1975-77, v.p./gen. mgr. Drott div., 1977-79, exec. v.p. worldwide constr. equipment div., 1979-81; pres., chief operating officer Portec, Inc., Oak Brook, Ill., 1981—; Mem. Constr. Industry Mfrs. Assn. (dir.), AED Industry Roundtable, U.S. C. of C. (constr. action council). Republican. Lutheran. Club: Kiwanis. Home: 41 Steeple Ridge Ct Oak Brook IL 60521 Office: 300 Windsor Dr Oak Brook IL 60521

ABBOTT, DONALD FRANKLIN, mfg. co. exec.; b. Sidney, Ohio, Nov. 23, 1941; s. Carl J. and Grace (Davidson) A.; student U. Richmond, 1959-60, Edison State U., 1978; children—Gregg, Eric. With Sidney Oliver Stone (H Trucks), Sidney, 1960-62; machine tool rebuilder Sidney Machine Service, Inc., Sidney, 1962-76, pres., owner, 1977—; Mem. Nat. Tooling and Machining Assn., Nat. Assn. Mfrs., Sidney-Shelby County C. of C., Am. Motorcycle Assn. Republican. Baptist. Club: Moose. Home: 13000 CR 25A Anna OH 45302 Office: PO Box 198, Sidney, OH 45365

ABBOTT, EDWARD LEROY, ins. co. exec.; b. Dayton, Ohio, Dec. 18, 1930; s. Roy Edward and Mildred Eileen (Filler) A.; A.B., Wittenberg U., 1952; postgrad. Ohio State U., 1952-53; m. Elizabeth Joan Grahame, June 8, 1957; children—Jay Edward, Julie Beth. With Northwestern Mut. Life Ins. Co., 1956-73, regional mgr., Washington, 1973-74, fin. v.p., real estate Acacia Mut. Life Ins. Co., Washington, 1973-74, fin. v.p., 1974-78, treas., 1976-82, exec. v.p., 1978—; dir., fin. v.p., treas. Acacia Nat. Life Ins. Co., 1974—; chmn. bd. Acacia Fund Corp., 1975-79, Acacia Investment Mgmt. Co., 1975-79; dir. Acacia Fin. Corp., Ednl. Products Inc.; trustee Westport Co. Mem. Friends of Kennedy Center. Served with U.S. Army, 1954-55. Mem. Mortgage Bankers Assn. Am., Washington Bld. Trade, Mortgage Bankers Assn. Met. D.C., Am. Council Life Ins., Internat. Platform Assn., Alpha Tau Omega. Republican. Home: 6605 Goldsboro Rd Falls Church VA 22042 Office: 51 Louisiana Ave NW Washington DC 20001

ABBOTT, JOHN BILLINGTON, banker; b. Manchester, N.H., Mar. 27, 1941; s. John Arthur and Nancy (Clough) A.; B.A., Columbia U., 1965; M.A. in Econ., U. Calif., Berkeley, 1967; m. Maria Dolores Montoya, Sept. 2, 1967; children—John Clough, Elizabeth M. Pres., dir. gen. Societe de Credit Pour l'Acquisition et l'Amelioration des Immeubles S.A., Paris, 1974-79; gen. mgr., citicorp country corporate officer, v.p. Citibank, Montevideo, Uruguay, 1980—; Dir. Alianza Para la Cultura de EEUU y Uruguay, 1981—; chmn. Council of the Ams., Uruguay, 1980—; Mem. Am. C. of C. (dir. 1980-81). Am. Assn. in Uruguay (dir., treas. 1980—). Home: Licia 6793 Montevideo Uruguay Office: Casilla de Correo 690, Montevideo, Uruguay

ABBOTT, LAWRENCE, author, economist; b. Cornwall, N.Y., July 9, 1902; s. Ernest Hamlin and May Louise (Kleberg) A.; ed. Storm King Sch., 1909-19; A.B. cum laude with honors in Music, Harvard U., 1924; A.M., Columbia U., 1945, Ph.D., 1951; m. Ann Sands

Tatham, Oct. 22, 1932; children—Vaughan, Sarah Tatham, Pauline Sands Abbott McMurtry; m. 2d, Marie Bohrn Lambert, Dec. 9, 1966. Advt. writer, publicity writer and mgr. country inn, 1924-33; contrb. to The Outlook mag. including a monthly music rev. column Rolls and Discs, 1925-28; mem. writing staff program dept. NBC, 1934-42; contbg. editor Time mag., 1942-43; mem. faculty Hotchkiss Sch., 1943-47; instr. econs. Columbia U., 1947-51; asso. prof. econs. Mt. Holyoke Coll., 1951-53; asso. prof. econs. Union Coll., 1953-56, prof., 1956-68, prof. emeritus, 1968—; chmn. dept. econs., 1962-66; Fulbright lectr. Pierce Coll., Athens, Greece, 1966-67. Chmn. publs. com. World Federalist Edn. Fund., 1973—; sec. World Federalists U.S.A., 1975—; bd. dirs. World Federalists Assn., 1974—, exec. com., 1979—; del. Tokyo Congress, World Assn. World Federalists, 1980. Mem. Am. Econ. Assn., AAUP, Royal Econ. Soc. Clubs: Century. Author: NBC Music Appreciation Hour, Student's Workbooks and Teacher's Guide, 1936-41; Approach to Music, 1940; Listener's Book on Harmony, 1941; Quality and Competition, 1955; Economics and the Modern World, 1960, rev., 1967; World Federalism: What? Why? How?, 1975; (song) The Ghost of John McCrae, 1928. Home: 259 High St Coventry CT 06238

ABBOTT, WOODROW ACTON, brokerage firm exec., former air force officer; b. Eubank, Ky., Dec. 16, 1919; s. William Thomas and Susie Ellen (Gastineau) A.; student Butler U., 1939-43; B.S., U. Md., 1955, postgrad. student, 1956; m. Lois Marie Scooby, May 17, 1944; children—Woodrow Acton II, Celesta Ann, Teletha Gay. Comm. 2d lt. USAAF, 1943, advanced through grades to brig. gen. USAF, 1969; B-17 pilot, ETO, 1944-45; assigned Far East Air Force, 1950-52; with SAC, 1956-71, comdr. 92d Wing, 1966-67, 93d Wing, 1968-69, 307th Strategic Wing and 4258th Strategic Wing, Thailand, 1969-70, 42d Air Div., 1970-71; insp. gen. SAC, 1971-73; dir. intelligence J-2, also insp. gen. U.S. Readiness Command, MacDill AFB, Fla., 1972-77; pres. Oaml. Mktg. Corp., Tampa, Fla., 1977—; Decorated D.S.M. with oak leaf cluster, Legion of Merit with 2 oak leaf clusters, D.F.C., Meritorious Service medal, Air medal with 6 oak leaf clusters, Air Force Commendation medal with 2 oak leaf clusters, Army Commendation medal, Purple Heart; Supreme Command Forward badge 1st class (Thailand). Mem. Delta Sigma Pi. Clubs: Tampa (Fla.) Yacht and Country; Merced (Calif.) Golf and Country. Home: 1192 Paseo Verde Dr Merced CA 95340 Office: Suite 14, Tioga Plaza, Merced, CA 95340

ABBOUD, EMILIO, corp. exec.; b. Buenos Aires, Argentina, July 3, 1942; s. Bahij and Huda (Antoun) A.; student Argentinian schs.; m. Licreia S. Estevez, Jan. 1, 1970; 1 son. Emilio. Gen. mgr. Bahij Aboud y Hnos., Buenos Aires, 1962-70, pres., 1970-79; dir. Delter SA, 1965-68, Nascas SA, 1961-69, Acambuco SA, MBC Producciones, Fenargen; ops. mgr. CTC Coordinadora Tecnica Comml. SA, 1970-73, SOCMAS SA, Buenos Aires; sales mgr., dir. Sun Flame, 1977-79. Clubs: San Andres Golf, Mar Del Plata Golf. Office: 940 Ave Eduardo Madero Buenos Aires 1106 Argentina*

ABDALLAH, AHMED, pres. Comoro; b. 1919. Former businessman; rep. Comoros Islands in French Senate, 1959-72; pres. Govt. Council, 1972-73, of Govt., 1973-75; leader Union democratique des Comoros, 1974, Parti pour l'Independence et l'Unité des Comoros, 1974-75; head of state, 1975, pres. Comoros, 1975; overthrown in coup, 1975; pres. Fed. Islamic Republic of Comoros, 1978—; pres. politicomil. directory, minister of justice and civil service, 1978—; Address: Office of Pres Mononi Comoro

ABDEL-AAL, HUSSEIN KAMEL, chem. engr., educator; b. Cairo, Jan. 3, 1935; s. Abdel-Aal Mohamed and Sania Mohamed (Amr) Hassanin; B.S., Alexandria U., 1956; M.S. (Egyptian Govt. scholar), Tex. A&M U., 1962, Ph.D., 1965; m. Nemat, Mohamed Hamdy, Apr. 10, 1959; children—Iman, Mona, Mohamed. Process engr. Govt. Petroleum Oil Refinery, Suez, 1956-59, Homs Oil Refinery, Syria, 1959-60; research asst. Tex. A&M U., 1962-65, vis. prof., 1980-81; sr. researcher petroleum tech. NRC, Cairo, 1965-66, head chem. engring. dept. pilot plant, 1966-70; postdoctoral fellow U. Manchester (Eng.) Inst. Sci. and Tech., 1970-71; mem. faculty U. Petroleum and Minerals, Dhahran, Saudi Arabia, 1971—; prof. chem. engring., 1975—, chmn. dept., 1972-74; cons. to industry. Mem. Syndicate Engring. Profession, Am. Inst. Chem. Engrs., Internat. Assn. Hydrogen Energy (dir.), N.Y. Acad. Scis., Soc. Petroleum Engrs., Sigma Xi, Phi Lambda Upsilon. Moslem. Contrb. articles to prof. journals, chpts. to books. Address: U. Petroleum and Minerals 59 PO Box 144 Dhahran Saudi Arabia

ABD-EL-AZIZ, AHMED AMIN, cons. engr.; b. Egypt, Feb. 14, 1919; s. Amin Abd-El-Aziz Soliman and Hanneh Mohamed; grad. in Engring., Cairo U., 1943; m. Maha Abdelmar Mekky, Aug. 13, 1954; children—Mohamad, Amr, Osama, Dina. Chief engr. municipalities and rural affairs, Govt. of Egypt, 1943-54, gen. dir. water dept., 1954-60, dir. municipalities and rural affairs dept. Ghazra Strip, 1960-62; tech. dir., mem. bd. Ind. Engring. Enterprises Co., Cairo, Egypt, 1962-73, chmn. bd., 1973-80; chmn. bd. Egytka Co., 1973-80; pvt. practice cons. engr., Cairo, 1980—; instr. Zakazik U., 1962. Housing com., Nat. Democratic Party, Recipient El-Gomhoria award 4th degree, 1957, decoration medal 1st degree, 1975, cert. of honor, 1979. Mem. Egyptian Corp. Engrs. (lectr.). Moslem. Clubs: Gezira Sporting, Engrs. Club of Egypt. Active reconstr. Suez Canal area, 1973, Port Said, Suez and Ismailia cities, Central Cairo Telephone Network; contrb. articles to newspapers and mags. Home and Office: 23 Bahgat Ali St Zamalek Cairo Egypt

ABD-EL-BARY, HOSSAM AHMED, civil engr.; b. Assiut, Egypt, Mar. 2, 1933; came to U.S., 1969, naturalized, 1974; s. Ahmed Abd-El-Bary and Fkria Ahmed (Mahmoud) Taher; B.S. in C.E., Ain Shams U., Egypt, 1957; M.S. in C.E., Calif. State U., 1972; E.C.E., U. So. Calif., 1974; Ph.D., Calif. Western U., 1975; m. Leila Abbas El-Kadi, Nov. 4, 1965; children—Yahya, Samar. Irrigation engr. Ministry of Irrigation, Egypt, 1957-62; chief engring. dept. Ministry of Land and Reclamation, Syria, 1962-63; project mgr. Arab Contractors, Osman Ahmed Osman, Egypt, 1964-69; hwy. engr. Calif. Dept. Transp., Los Angeles, 1969-75; chief engr. Idea Center Cons. Firm, Saudi Arabia, 1976-77; tech. adv. Soliman A. Mosly Establishment Saudi Arabia, 1978-81, Saudi Amoudi Group, Jeddah, Saudi Arabia, 1981—; cons. in field. Mem. Syndicate of Engrs., World Constrn., Nat. Geog. Soc., Middle East Constrn., Internat. Mgmt. Assn., Alam Altigara. Democrat. Moslem. Club: McGraw Hill Book. Contrb. articles to prof. journals. Office: PO Box 2779 Jeddah Saudi Arabia

ABDELGHANI, MOHAMED BEN AHMED, Algerian prime minister; Comm. French Armed Forces, advanced through grades to col., 1969, comdr. 4th mil. region, 1965-67; pres. Revolutionary Ct., Oran, 1969; comdr. 5th mil. region, Constantine; minister of Interior Govt. of Algeria, 1976-79, prime minister, 1979—; mem. Revolutionary Council. Address: Prime Ministers Office Algiers Algeria*

ABDEL HAMID, MOSTAFA HAMDY, fin. co. exec.; b. Cairo, Egypt, Apr. 2, 1930; s. Ismail Mohamed and Hussein (Nafousa) Abdel Hamid; B.S. in Engring., Am. U., Cairo, 1948; diploma Nat. Inst. Mgmt. Devel., 1962; m. Bahia Abdeen, Sept. 1, 1962; children—Adel, Osama, Hanan, Hany. Engring. mgr. Koldair Co., 1952-58, factory

mgr., 1967-68; gen. mgr. cons. engring. office, Kuwait, 1968-78; chmn. bd. Al Salam Investment Co., S.A.A., Cairo, 1978—; Mem. ASHRAE, Kuwait Engring. Assn., Egyptian Engring. Syndicate, Moslem. Patentee solar energy application, U.S. Home: 2 9 Meadi Cairo Egypt Office: 58 Guiza St, Dokki, PO Box 39 Orman, Cairo, Egypt

ABDEL-KHALIK, AHMED RASHAD, educator; b. Egypt, May 30, 1940; came to U.S., 1964, naturalized, 1975; s. Mohamed A. and Gamilah A. (El-Morsey) A.; B.Com. with honors in Acctg., Cairo (Egypt) U., 1961; M.B.A., Ind. U., 1965, M.A. in Econ., 1966; Ph.D. (Ernst and Ernst fellow), U. Ill., 1972; m. Maria E. Chaves, June 30, 1973; children—Jasmine C., Justin C. Asst. to controller, main office Nat. Bank of Egypt, 1961; instr. Cairo U., 1961-64, U. N.C., Charlotte, 1967-69; teaching asst. U. Ill., 1969-72; asst. prof. Columbia U., N.Y.C., 1972-74, asso. prof., 1974-75; asso. prof. Duke U., Durham, N.C., 1975-77; Walter J. Matherly prof. acctg. U. Fla., Gainesville, 1977-80, grad. research prof. acctg., 1980—; dir. Acctg. Research Center, Sch. Acctg., 1977—; vis. Winspear Found. Disting. prof. U. Alta. (Can.), 1982-83. Mem. Am. Acctg. Assn. (dir. research 1980-82), Am. Fin. Assn., Am. Econ. Assn., Am. Inst. Decision Scis., Fin. Execs. Inst., Beta Alpha Psi. Editor: (with Keller) The Impact of Accounting Research on Practice and Disclosure, 1978, Financial Information Requirements for Security Analysts, 1978; Government Regulation of Accounting and Information, 1980; The Economic Effects of Lessees of Accounting for Leases, 1981; founding editor Jour. Acctg. Intl., 1981—; contrb. articles to prof. journals. Home: 8409 SW 1st Pl Gainesville FL 32601 Office: Acctg Research Center U. Fla., Gainesville, FL 32611

ABDEL-MEGUID, ABDEL-RAZZAK A. K., economist, former Egyptian dep. prime minister for econs. and fin.; b. Alexandria, Egypt, May 4, 1931; s. Abdel Kader and Zakia (Khatab) A.-M.; B.Sc., Alexandria U., 1950; postgrad. (Alexandria U. fellow) U. Birmingham U., 1954; B.Litt. (U. Assuit fellow), Oxford U., 1957; Ph.D. (Ford Found. fellow), U. Tex., 1962; m. Violet Brooks, Jan. 28, 1955; children—Amina, Randa, Karima. Dir. gen. Asswam (High Dam) Regional Planning Authority, 1963-67; UN chief adviser, Ceylon, 1967-70; sr. economist World Bank, 1970-74; minister of planning Egyptian Ministry Planning, 1975-77; dep. sec. gen. UN, 1977-78; dep. prime minister for econ. and fin. affairs Govt. of Egypt, Cairo, 1980-82; prof. econs. U. Tex., Am. U., Washington, Econ. Devel. Inst., Washington; now senator for Alexandria; founding mem. Nat. Democratic Party. Mem. Pugwash Continuing Com.; dir. Center for Research on New Internat. Econ. Order, Oxford. Recipient King Farouk award for public fin. Mem. Commerce and Econ. Assn. Cairo. Acad. Arts and Scis. (Colombo, Sri Lanka), Moslem. Clubs: Automobile, Zamalik Sporting, Mardi Sporting, Rotary. Author: 24 vols. on regional devel. in Egypt, 1970. Office: 9 Shagaret El Dar, Zamalik, Cairo, Egypt*

ABDEL MEGUID, AHMAD ESMAT, Egyptian diplomat; b. Alexandria, Egypt, Mar. 22, 1923; s. Fahmy Abdel-Meguid; grad. Faculty Law, Alexandria U., 1944; Ph.D. in Internat. Law, U. Paris (France), 1951; m. Eglal Abou-Hamda, 1950; three sons. Head Brit. desk Ministry Fgn. Affairs, Cairo, 1954-54; counsellor Egyptian mission to European Office of U.N. Geneva, 1957-61; asst. dir. legal dept. Ministry Fgn. Affairs, Cairo, 1961-63; minister counsellor Egyptian embassy, Paris, 1963-67; head cultural and tech. assistance dept. Ministry Fgn. Affairs, Cairo, 1967-68; official spokesman of Egyptian Govt., 1968-69; ambassador to France, 1969-70; minister of state for cabinet affs., Cairo, 1970-72; rep. to U.N. N.Y.C., 1972—; chmn. Egyptian del. to Cairo Prep. Peace Conf., Geneva, 1977. Contrb. articles to Revue Egyptienne de Droit International. Address: Permanent Mission Egypt UN 36 E 67th St New York NY 10021

ABDEL-SALAM, EKRAM AHMED, educator; b. Cairo, Mar. 5, 1932; s. Abdel-Salam Ahmed and Sokeina Hussein (Gemeie) A.; M.B., B.Ch., Cairo U., 1955, M.Sc. in Pediatrics, 1958, M.Sc. in Medicine, 1959, M.D., 1961; m. Ahmed Ehsan Abdel-Megid, Aug. 17, 1956; children—Iman, Amgad, Asser. Intern and resident in pediatrics Faculty of Medicine, Cairo U., registrar, sr. registrar pediatric dept., 1957-62, lectr., 1962-69, asst. prof., 1969-73, prof. pediatrics, 1973—, head human genetics unit, 1963—; genetic cons. Nat. Child Welfare Org., 1975—, Nat. Inst. Planning and Stats., 1979—, Handicapped Children Soc., 1979—; cons. prof. pediatrics Inst. Phys. Therapy, Cairo U., 1977—, Winner State Research Prize in Med. Scis., Acad. Sci. Research and Tech., Egypt, 1979; recipient Nat. Sci. and Art decoration, Pres. of Egypt, 1980. Mem. Internat. Soc. Neurochemistry, Internat. Pediatric Assn., Internat. Coll. Pediatrics, Am. Soc. Human Genetics, Clin. Genetic Soc. (U.K.), Genetical Soc. (U.K.), Am. Soc. Tropical Medicine and Hygiene, Royal Soc. Tropical Medicine (U.K.), Swiss Soc. Tropical Medicine and Parasitology, Royal Soc. Medicine (U.K.), Egyptian Pediatric Assn., Egyptian Med. Assn., Internat. Med. Women's Assn., Egyptian Assn. Child Welfare, N.Y. Acad. Scis. Moslem. Clubs: Rotary, Cairo U. Faculty, Gizera (Cairo). Author: Spotlights on Medical Genetics, 3d ed., 1978. Home: 111 Abdel-Aziz Saoud str Manial Cairo Egypt Office: 11 Falaki Square, Cairo, Egypt also Dept Pediatrics, Faculty of Medicine, Cairo U., Cairo, Egypt

ABDI, PETRUS SUHADI, priest; b. Sragen-Solo-Java, Indonesia, June 16, 1934; s. Stephanus and Theresia (Rasminah) Harjosukatmo; Fac.Theol.Licentiatu, Gregorian U., Rome, 1962, Canon Law Licentiate, 1964. Ordained priest, Roman Catholic Ch., 1961; tchr. St. Paul Sem., Palembang, Indonesia, 1964-65; parish priest Baturaja, S. Sumatra, 1965-72; gen. vicar and parish priest Cathedral parish, Palembang and diocesan social del. 1973-78; gen. vicar, dir. diocesan office for human devel., Sumatra, Indonesia, 1973—; dir. regional/inter-diocesan office for human devel. apostolate, 1979—; dir. diocesan office for Cath. family welfare, 1974—; Exec. dir. Assn. Voluntary Health Services Indonesia, 1976—; Home: 18 Jin Tasik Palembang Indonesia Office: 52 Jlm Kol Atmo, Palembang, Indonesia

ABDINE, ABDEL ELAH, engring. cons.; b. Damascus, Syria, May 24, 1939; s. Mohammad Baderine and Tamimim Abdine; B.Arch., U. Cairo, 1963; Dr. Architecture, U. Budapest, 1966; m. Huda Dahman, Aug. 15, 1972; children—Baria, Basem. Chief architect Ministry Public Works, Damascus, 1967-72; lectr. Damascus U., 1969-72; prof. architecture U. Tripoli (Libya), 1972-78; cons. Arab-African Cons. Engrs., Tripoli, 1973-77; engring. cons. prof. architecture U. Jordan, Amman, 1978—; UN Tech. Assistance fellow, 1972; recipient citation Supreme Bd. Sch., Damascus, 1968. Mem. Assn. Syrian Engrs. and Architects, World Fedn. Sci. Workers (London), Internat. Hosp. Fedn. (London). Club: Al Hussein Sport City (Amman). Contrb. articles to prof. journals. Home and office: PO Box 35221 Amman Jordan

ABDNOR, JAMES, U.S. senator; b. Kennebec, S.D., Feb. 13, 1923; s. Samuel J. and Mary (Webby) A.; B.A. in Bus. Adminstrn., U. Nebr., 1945. Tchr., coach, Presho, S.D., 1946-48; farmer, rancher, Kennebec, 1945—; lt. gov. State of S.D., 1969-70; mem. 93d-96th Congresses from S.D.; U.S. senator, 1981—; Chmn. S.D. Young Republicans, 1953-55; mem. S.D. Senate, 1956-69, pres. pro-tem, 1967-68. Served with AUS. Mem. Kennebec Jr. C. of C. (past pres.). Am. Legion, S.D. Wheat Producers, S.D. Stockgrowers, S.D. Farmers Union, S.D. Farm Bur., Isaak Walton League, Sigma Chi, Mason, Elk. Office: 4327 Dirksen Senate Office Bldg Washington DC 20510

ABDOOL, NAZIR, physician; b. Fyzabad, Trinidad, W.I., Apr. 14, 1933; s. Hakim and Jamiran (Gaffoor) A.; student McGill U., 1954; M.B., B.S., London U. Med. Sch., 1962; m. Homaida Rahaman, Nov. 1, 1963; children—Rehan Ansari, Natasha Ayesha. Ho. surgeon, U. Hosp. W.I., 1963; resident San Fernando Gen. Hosp., 1963-64; practice medicine, San Fernando, Trinidad, W.I., 1964—; examiner ins. cos., oil cos. Chmn., Islamic Edn. Bd., 1963-70; mem. Trinidad and Tobago Med. Bd., 1963—; Mem. Med. Protection Soc. U.K., Family Physicians Assn. Home: 274 Windy Dr Gulf View La Romain San Fernando Trinidad West Indies Office: 66 Cipero St, San Fernando, Trinidad, West Indies

ABDULAH, FRANK OWEN, diplomat of Trinidad and Tobago; b. W.I., Nov. 8, 1928; M.A., Oxford (Eng.) U.; grad. master Queen's Royal Coll., 1953. Asst. supt. Trinidad and Tobago Police Force, 1956; aide de camp to gov. gen. Federated W. Indies, 1957; joined W. Indies Diplomatic Service, 1960; 2d sec. U.K. embassy, Rio de Janeiro, 1961; with Trinidad and Tobago Civil Service, 1962; asst. sec. Ministry External Affairs, 1962; 2d sec. Trinidad and Tobago High Commn., Kingston, Jamaica, 1963. 1st sec., London, 1964; rep. Trinidad and Tobago to various internat. meetings on coffee and sugar, 1965. 66; counsellor Trinidad and Tobago High Commn., Ottawa, 1968-70; del. 22d session GATT, 1965; dep. rep. to UN, 1970-73; permanent Sec. Ministry External Affairs, 1973-75; ambassador to UN, 1975—; Address: Permanent Mission Trinidad and Tobago 8th Floor 801 2d Ave New York NY 10017

ABDULGHANI, ABDUL AZIZ, vice-pres. Yemen Arab Republic; b. Haifan, Yemen Arab Republic, July 4, 1939; s. Abdulghani Saleh and Tohma (Moqbel); ed. Colo. Coll.; M.A. in Econ., Colo. U.; m. Aceya Hamza, 1966; children—Mohammed, Omar, Osama, Walid, Bassam, Hanan. Minister of health Yemen, 1967-68, of economy, 1968-69, 70-71; chmn. tech. office Bd. Planning, 1969-70; gov. Central Bank of Yemen, 1971-75; prime minister Yemen, 1975-80, v.p., 1980—; Address: PO Box 38 Sana'a Yemen Arab Republic

ABDUL HALIM MU'ADZAN SHAH, (IBNI AL-MARHUM SULTAN BADLISHAH, sultan of Kedah; b. Alor Star, Kedah, Nov. 28, 1927; s. Sultan Badlishah of Kedah; grad. Sultan Abdul Hamid Coll., Alor, 1949; diploma social sci. and public adminstr., Wadham Coll., Oxford (Eng.) U., 1955; D.Polit.Sci. (hon.), Thammasat U., Bangkok, Thailand; m. Tunku Hajiah Bahiyah, Mar. 1956; 3 children. With Dist. Office, then Treasury, Alor State, from 1955; raja muda of Kedah, 1949-57, regent, 1957-58, sultan, 1958—; dep. king, then king Conf. of Rulers, 1965-75; col.-in-chief Royal Malay Regt., 1975. Decorated D.K., 1964, D.K.M., 1971, D.M.N., 1959, D.U.K., 1958, S.P.M.K., 1964, D.K., 1969, D.K. (Pehang), 1970; 1st class Order Rising Sun (Japan), 1970; Bitang Maha Putha, Klas Satu (Indonesia), 1970; hon. knight grand cross Order Bata (U.K.), 1972; asso. knight Order St. John, 1972; Order Rammata, (Thailand), 1973. Address: care Press Attache Malaysian Embassy 2401 Massachusetts Ave NW Washington DC 20008

ABDULKADIR, ABUBAKAR, banker; b. Zaria, Nigeria, June 13, 1940; s. Alhaji and Saadatu A.; B.A., Ahmadu Bello U., Zaria, 1967; M.Sc. in Econ., U. Pitts., 1973; m. Ayesha Abdulkadir, Mar. 29, 1969; children—Hauwa, Ibrahim, Sirajo. Sec., Small Industries Credit Scheme, Kaduna, Nigeria, 1967-70; gen. mgr. Kaduna Investment Co., 1975-79; chief indsl. officer City of Kaduna, 1978-79; permanent sec. Ministry of Trade and Industry, Kaduna, 1979; mng. dir. Nigerian Indsl. Devel. Bank Ltd., Lagos, 1980—; Mem. Nigerian Econ. Soc. Office: Box 2357 Lagos W Nigeria

ABDULLAH IBN ABDULAZIZ, crown prince Saudi Arabia; b. 1924; s. Abdulaziz (dec.); ed. in religion, chivalry and politics. Pres., N.G. Saudi Arabia, 1965—; sec. dep. prime minister, 1975—; crown prince, 1982—; Address: Royal Palace Riyadh Saudi Arabia*

ABDUL RAHMAN, SENU BIN, Malaysian mem. of Parliament; b. Jitra, Kedah, Malaysia, Oct. 10, 1919; s. Abdul Rahman bin Tahir and Hamidah binti (Saad) Abdul Rahman; B.A. in Polit. Sci., UCLA, 1954; m. Fatimah bte Abdullah, Feb. 2, 1939; children—Normi, Norma, Norishah, Norsita, Noryati, Normala, Azam, Tchr., Alor Setar, Kedah, Malaysia, 1939-41; sec.-gen. Sebarbas, Kedah, 1945-47; sec.-gen. United Malay Nat. Orgn., Kuala Lumpur, 1955-57; ambassador to Indonesia, 1957-62, Fed. Republic of Germany, 1962-64; mem. Parliament, Govt. of Malaysia, 1964-69. Minister of Info. and Broadcasting, 1966. Minister of Culture, Youth and Sports, 1966-69; sec.-gen. United Malay Nat. Orgn., 1969-78; mem. Parliament, Govt. of Malaysia, 1973—; nat. leader United Malay Nat. Orgn. Youth, 1964-71; dir. United Malaysian Banking Corp., Gestetner Malaysia Berhad, United Gen. Ins. Author: Mental Revolution, 1970; Our Security is Not Guaranteed, 1974. Home: 6 Jalan Kampong Pandan Kuala Lumpur Malaysia Office: Suite 803 8th Floor Campbell Complex Jalan Campbell, Kuala Lumpur, Malaysia

ABDUL-SHANI, ABDUL AZIZ, Yemeni vice pres.; b. Haifan, Yemen Arab Republic, July 4, 1939; s. Abdulghani Saleh and Tohma Moqbel A.; student Teaching Tng. Coll., Aden; B.Sc. in Econ., M.Sc. in Econ., U. Colo.; m. Aceya Hamza, 1966; children—Muhamad, Hanan, Omar, Usama, Walid. Prin. tchr. English Gelqais Coll., 1964-67; minister of health Govt. of Yemen Arab Republic, 1967-68, minister of economy, 1968-69, 70-71, former minister of interior, prime minister, 1975-80, v.p., 1980—; chmn. Tech. Office Bd. Planning, 1969-70; gov. Central Bank of Yemen, 1971-75. Office: Office of the Vice President Sana'a Yemen Arab Republic*

ABE, KAORU, endocrinologist; b. Tokyo, Dec. 2, 1933; s. Masanosuke and Haruko (Ikeda) A.; M.D., Tokyo U., 1958, D.Med.Sci., 1963; m. Etsuko Koike, Dec. 26, 1959; children—Junichi, Mina. Mem. staff Tokyo U. Hosp., 1959-63; research fellow Vanderbilt U. Hosp., Nashville, 1964-67; instr. medicine Vanderbilt U. Med. Sch., 1967-69; head treatment research sect. endocrinology div. Nat. Cancer Center Research Inst., Tokyo, 1972-75, chief div., 1975—; vis. prof. Keio U. Med. Sch. Grantee Ministry Health and Welfare, Ministry Edn., Sci. and Culture, Naito Research Found. Mem. Japanese Endocrine Soc., Japanese Cancer Assn., Soc. Gastroenterology, Soc. Cancer Therapy, Am. Endocrine Soc. Author, editor in field. Home: 2-60 Nagaura Yokosuka Kanagawa 237 Japan Office: 5-1-1 Tsukiji Chuo-ku Tokyo 104 Japan

ABE, KOBO, author; b. Tokyo, Japan, Mar. 7, 1924; grad. Tokyo U., L.H.D., Columbia, 1975. Recipient 25th Akutagawa prize, 1951, Post-war Lit. prize, 1950, Kishida prize for drama, 1958, Yomiuri Lit. prize, 1962, 75, Tanizaki prize for drama, 1967. Mem. Am. Acad. Arts and Scis. (ign. hon.). Author: The Road Sign at the End of the Road, 1948; The Red Cocoon, 1950; The Crimes of S. Karma, 1951; Hunger Union, 1954; The Uniform, 1955; Hunt for a Slave, 1955; Animals are Forwarding to their Natives, 1957; The Fourth Unglacial Period, 1959; Here is a Ghost, 1959; Eyes of Stone, 1960; The Woman in the Dunes, 1962; The Face of Another, 1964; You are Guilty Too, 1965; Buyo Enomoto, 1965; Friends, 1967; The Ruined Map, 1967; The Man Who Became a Stick, 1969; Inter Ice Age Four, 1970; Premeditated Act of Uncertain Consequences, 1971; Guidebook, 1971; The Box Man, 1973; Love's Spectacles are Colored Glass, 1973; Green Stocking, 1974; Wee, 1975; Secret Rendez-vous, 1977. Address: 1-22-10 Wakaba Cho Chofu City Tokyo Japan

ABE, SHINTARO, Japanese minister of internat. trade and industry; b. Apr. 29, 1924; Mem. Japanese Ho. of Reprs., 1958—; pvt. sec. to Prime Minister Nobusuke Kishi, 1957-58; former dep. sec.-gen. Liberal Democratic Party, former v.p. diet policy com., chmn. diet policy com., 1976-77, chmn. policy affairs research council, 1979-81; minister of Agr. and Forestry, 1974-76; chief cabinet sec., 1977-78; minister of Internat. Trade and Industry, 1981—; former polit. reporter Mainichi newspaper. Office: Ministry of Internat Trade and Industry Tokyo Japan

ABE, TAKESHI, physician; b. Nagato, Japan, May 15, 1916; s. Jirokichi and Satsu (Tsubono) A.; M.D., Tokyo Imperial U., 1941, Ph.D., 1951; m. Michiko Takahashi, May 12, 1945; children—Ken, Yo, Ryo, Kei. Asst. dept. medicine U. Tokyo Med. Sch., 1942-50, head student health center, 1950-62, instr. medicine, 1962-71; prof. medicine Teikyo U. Med. Sch., 1971—, dir. center clin. lab., 1971—, dean Med. Sch., 1980—; Served as lt. Japanese Navy, 1943, Fellow ACP; mem. Internat. Com. Thrombosis and Hemostasis (sr.), Internat. Com. Standardization Hematology (dir., past pres.), World Fedn. Hemophilia (med. adv. bd.), Japanese Soc. Clin. Hematology (pres. 1979), Japanese Soc. Hematology (past pres.), Japanese Soc. Thrombosis and Hemostasis (chmn. bd. 1978), also internat. soocs. hematology, hemorheology, thrombosis and hemostasis, blood infusion, cardiology, Buddhist. Club: Tokyo Kiwanis. Author papers in field; editor clin. hematology Japanese Soc. Thrombosis and Hemostasis. Home: 36-5 Kitazawa 1 Chome Setagaya-ku Tokyo 155 Japan Office: 11-1 Kaga, 2 Chome Itabashi-ku, Tokyo 173, Japan

ABE, YUZURU, steel co. exec.; b. Tokushima Prefecture, Japan, Jan. 28, 1916; B.A. in Econ., Tokyo Imperial U., 1938; married; 2 sons. With Japan Iron & Steel Co. Ltd., Tokyo, 1938-65; dir. Yawata Iron & Steel Co. Ltd., 1965-70; mng. dir. Nippon Steel Corp., 1970-73, sr. mng. dir., 1973-77, exec. v.p., 1977-80; pres. Nishin Steel Co. Ltd., Tokyo, 1980—; Pres., Japan Rugby Football Union, Decorated Blue Ribbon medal (Japan). Mem. Japan Fed. Econ. Orgns. (exec. bd.), Japan Iron and Steel Fedn. (exec. bd.), Internat. Iron and Steel Inst. (dir.). Home: 49-11 1-chome Asagaya-kita Suginami-ku Tokyo 166 Japan Office: 4-1 3-chome, Marunouchi Chiyoda-ku, Tokyo 100, Japan

ABEHSERA, ALBERT, bank exec.; b. Larache, Morocco, Mar. 7, 1948; s. Jacob and Clara (Bensabat) A.; B.A. in Spanish, U. Aix-Marseille (France), 1971, M.Sc. with distinction in Econ., 1972; M.B.A. with distinction in Fin., Wharton Grad. Sch. Bus., U. Pa., 1973; m. Monique Amsellem, Nov. 15, 1969; children—Muriel, Jacques, Audrey. Asso., Am. Express Internat. Devel. Co. Inc., N.Y.C., 1973-74; asst. treas. Bankers Trust Co., N.Y.C., 1974-75; v.p., head Investment Banking Group for Europe and Africa, Am. Express Internat. Banking Corp., London, 1975—; dir. AMEX Bank Ltd., London. Home: 12 Vane Close Hampstead London NW3 England Office: 120 Moorgate London EC2P England

ABEL, THOMAS SAMUEL, JR., banking and fin. cons.; b. Wahiawa, Hawaii, Aug. 28, 1930; s. Thomas Sutherland and Eva (Powers) A.; B.S. in History, Davidson Coll., 1953; grad. Pacific Coast Banking Sch., U. Wash., 1966; m. Elizabeth Saunders, Oct. 17, 1954 (died. 1968); children—Forrest, Miller, Scott, Jay, m. 2d, Marjorie Christenson, Aug. 2, 1969 (div. 1979); 1 dau., Julie. With 1st Nat. Bank Hawaii, Honolulu, 1957—; asst. mgr. Kahului br., 1958-61, loan officer, Honolulu, 1961-64, asst. v.p., credit mgr., 1964-66, v.p., br. supr., 1966-68; pres. GT Corp., 1968-71; exec. v.p. Island Fed. Savs. & Loan Assn., 1971-73; pres. THC Fin. Corp., 1973-75; bus. cons., 1975—; sec.-treas., dir. internat. Tech. Assos., Inc., 1977-79; v.p. Abel, Baron & Assos. Ltd., Honolulu, 1979—; Instr., Am. Inst. Banking, 1963-69; pres. G.T. Corp. Bd. dirs. Jr. Achievement of Maui, 1960-61; foreman Oahu Grand Jury, 1968-69. Served to 1st lt. USAF, 1953-57. Mem. Robert Morris Assn., Hawaii Assn. Credit Mgmt. (died. 1965-67, treas. 1967-68), Maui C. of C. (past dir.), Sigma Chi. Office: 1000 Bishop St Suite 507 Honolulu HI 96813

ABEL, WOLFGANG OTHENIO LOTHAR, plant geneticist; b. Berlin, Germany, Apr. 4, 1932; s. Wolfgang Lothar Friedrich and Juliane (Versluis) A.; Ph.D., U. Vienna, 1956; m. Gisela Frischeisen, Aug. 20, 1958; children—Brigitte, Norbert, Gernot. Asst., U. Cologne, 1956-59; asst. Max Planck Institut für Pflanzen-genetik, Ladenburg, 1959-71; asso. prof. U. Heidelberg, 1971-75, dean faculty of biology, 1972-74; prof. U. Hamburg, 1975—; vis. prof. dept. genetics U. Calif., Berkeley, 1972; mng. dir. Institut für Allgemeine Botanik, Hamburg U., 1977-81. Mem. Deutsche Botanische Gesellschaft, Genetische Gesellschaft, Roman Catholic. Home: 59 Frensenstr Hamburg BRD 2000 West Germany Office: 6-8 Jungiusstr, Hamburg 2000, West Germany

ABELA, WISTIN, Maltese minister of econ. devel.; b. Zejtun, Malta, Oct. 19, 1933; student Royal U. Malta; m. Catherine Abela; 3 children. Former sect. leader Malta Drydocks; pres. Labour League of Youth, Zejtun; pres. dist. com. Malta Labour Party Club; auditor Malta Labour Party; mem. gen. council Gen. Workers' Union; mem. Maltese Parliament, 1966—; minister of devel. Govt. of Malta, 1974-76, minister of devel., energy, port and telecommunications, 1976-81; dep. prime minister and minister of econ. devel., 1981—; Office: Ministry of Econ Devel Valletta Republic of Malta

ABELE, HOMER E., judge; b. Wellston, Ohio, Nov. 21, 1916; s. Oscar and Margaret (Burke) A.; LL.B., Ohio State U., 1953, J.D., 1970; m. Addie Riggs, 1938; children—Terrell Ann, Peter Burke, Andy. Mem. CCC, 1935-36; with Anchor Hocking Glass Corp., Lancaster, Ohio, then Austin Powder Co., McArthur, Ohio, to 1941; patrolman Ohio State Hwy. Patrol, Van Wert, 1941-43, 46; admitted to Ohio bar, 1954, U.S. Supreme Ct. bar; solicitor, McArthur; Vinton County rep. Ohio Gen. Assembly, 1949-52; asst. to campaign mgr. Sen. Robert A. Taft, Republican Nat. Conv., Chgo., 1952; Legis. counsel Spl. Transp. Com., 1953-57; del. Rep. Nat. Conv., San Francisco, 1956; Rep. nominee for Congress, 10th Ohio Dist., 1958; mem. 88th Congress from 10th Dist. Ohio; judge 4th dist. Ohio Ct. of Appeals, 1967-77, presiding judge, 1977-78; chief justice Ct. Appeals of Ohio, 1978. Past state dept. judge advocate Am. Legion Ohio; chmn. ct. sect. Am. Legion Buckeye Boy's State, 1969-79, pres., 1981, 82; program chmn. McArthur Devel. Assn.; Vinton County trustee Southeastern Ohio Regional Council. Served with USAF, 1943-46. Mem. Am. Legion (exec. officer to past state comdr.), Ohio, Vinton County bar assns., Ohio Bar Found. Club: McArthur Lions (past pres.). Home: McArthur OH 45651 Office: 4th Appellate Dist McArthur OH 45651

ABELO, GASTON EDUARDO, assem. exec.; b. Barranquilla, Colombia, June 25, 1932; s. Manuel Domingo and Julieta (Chagín) A.; grad. in Law, Coll. Mayor Nuestra Señora del Rosario, 1953; m. Maria Teresa Polo, May 19, 1960; children—Gaston, Julieta, Maria Teresa, Virginia. Exec. dir. Barranquilla C. of C., 1956-69; faculty comm. law U. Atlantico, Barranquilla, 1956-60, dir. law dept., 1959-60; exec. pres. Colombian Confedn. Chambers of Commerce, Bogota, 1969—; exec. sec. Andean Confedn. Chambers of Commerce, Bogota, 1978—; Bd. dirs. Commn. Mixta de Comercio Exterior de Colombia, 1976-82. Inst. Colombiano de Normas Tecnicas, 1978-82, Bolsa Nacional Agropecuaria, 1980-82, Corporacion Financiera Popular, 1980-82. Recipient Order of Merit of Progress, Colombian-Am. c. of C., 1979.

Mem. Am. C. of C. Execs. Roman Catholic. Club: Country. Author: The Chambers of Commerce in Colombia, 1972, 80. Home: Calle 127 A 31A-34 Interior 11 Bogota Colombia Office: Colombian Confedn Chambers Commerce, Carrera 9, 16-21 Piso 10, Bogota, Colombia

ABELOV, STEPHEN LAWRENCE, uniform co. exec.; b. N.Y.C., Apr. 1, 1923; s. Saul S. and Ethel (Esternan) A.; B.S., N.Y. U., 1945, M.B.A., 1950; m. Phyllis S. Lichtenson, Nov. 18, 1945; children—Patricia C. (Mrs. Marvin Demoff), Gary M. Asst. div. mgr. Nat. Silver Co., N.Y., 1945; sales rep. Angelica Uniform Co., N.Y., 1945-50, asst. sales mgr., 1950-56, western regional mgr., Los Angeles, 1956-66, v.p. Angelica Uniform Co. of Calif., 1958-66, nat. v.p. sales, 1966-72, v.p. Angelica Corp., 1968—; v.p. mktg. Angelica Uniform group, 1972—, exec. v.p., 1980—; vis. lectr. mktg. N.Y. U. Grad. Sch. Bus. Adminstr. Vice comdr. Am. Legion; mem. vocat. adv. bd. VA; adv. bd. Woodcraft Rangers; dist. chmn. United Fund. Mem. Am. Assn. Contamination Control (dir.), Am. Soc. for Advancement Mgmt. (chpt. pres.), Sales and Mktg. Execs. Assn., Am. Mktg. Assn., Health Industries Assn. Am. (dir.), St. Louis Council on World Affairs, Los Angeles C. of C., N.Y. U. Alumni Assn., Phi Epsilon Pi (treas.), Clubs: B'nai B'rith (past pres.), Men's (exec. v.p.), N.Y. U.; Town Hall; Aqua Sierra Sportsmen. Contbr. articles to prof. journals. Home: 9821 Log Cabin Ct Ladue MO 63124 Office: 700 Rosedale Ave, Saint Louis, MO 63112

ABERCROMBIE, MARY LOUISE, plastic packaging co. exec.; b. Woodruff, S.C., Dec. 11, 1937; d. Paul Henry and Valma Mary (Perry) Fincher; student bus. Young Harris Jr. Coll., 1954-55; children—Kathryn Darlene, Robert Perry, Laura Lynn. Sec. patent dept. Cryovac div. W.R. Grace & Co., Duncan, S.C., 1962-65, sec. purchasing dept., 1968-73, purchasing asst., 1973-76, buyer, 1976—; sec. purchasing and physics dept. U. N.C., Chapel Hill, 1965-66. Mem. Purchasing Mgmt. Assn. Carolinas-Va. (2d vice chmn. Upper S.C. chpt. 1979-80). Home: 620 Edwards St Woodruff SC 29388 Office: Cryovac div WR Grace & Co, PO Box 464, Duncan, SC 29334

ÅBERG, BERTIL GUSTAV, biochemist; b. Stockholm, Sweden, Oct. 12, 1925; s. Erik Martin and Irene Marie-Louise (Haasum) A.; M.D., Karolinska Institutet, Stockholm, 1953; m. Eva Nordenfelt, Jan. 20, 1973; children by previous marriage—Martin, Lars, Fredrik. Intern. Karolinska sjukhuset, 1952-54; asst. prof. clin. chemistry, 1955—; prof. clin. chemistry and radiobiology Royal Vet. Coll., Stockholm, 1954-72; dir. research and devel. AB Kabi Stockholm, 1969-77, corp. dir. research and devel., 1977-80; pres. KabiGen AB, 1978—; Vice pres. bd. Stockhol Philhar. Orch., 1975—; Decorated comdr. Royal Order Polar Star, knight Order White Rose Finland. Mem. Soc. Parliament Mems. and Scientists (v.p. 1970—), Swedish Med. Soc., Med. Soc. Finland, N.Y. Acad. Scis., Health Physics Soc. Lutheran. Club: Sällskapet. Editor: (with Frank P. Hungate) Radioecological Concentration Processes, 1967. Home: Erik Dahlbergs Allé 3 S-115 24 Stockholm Sweden Office: KabiGen AB, S-112 87 Stockholm, Sweden

ABERLE, GERD, economist; b. Stolp, Ger., Sept. 30, 1938; s. Eugen and Martha (Hieby) A.; diploma U. Cologne, 1962, Ph.D., 1965; m. Yolande Madeleine Heilmann, Jan. 22, 1966; 1 dau., Viola. Lectr., U. Cologne, 1968-70, prof., 1971-73; prof. Justus-Liebig U., Giessen, W. Ger., 1973—; mem. sci. adv. bd. Fed. Ministry of Transport, Bonn, W. Ger.; mem. adv. bd. Fed. Ministry of Bldgs. and Space Planning, Bonn. Mem. List-Gesellschaft, Gesellschaft für Wirtschafts-u. Sozialwiss., Deutsche Verkehrswissenschaftliche Gesellschaft (dir.). Club: Rotary. Author 6 books; editor Transport Internat.; contbr. articles to prof. journals. Home: 20 Waldstrasse D-6305 Alten-Buseck Federal Republic Germany Office: 62 Licher Strasse, D-6300 Giessen, Federal Republic Germany

ABERNATHY, BOBBY FRANKLIN, oil co. exec.; b. Athens, Tex., June 25, 1933; s. George R. and Mary Lou (Jernigan) A.; B.S., U. Tex., Austin, 1955; m. Donna Jean Childers, Feb. 28, 1963; children—Julie Ann, Scott Franklin. With Amoco, 1955-72, chief engr., 1968-72; exec. v.p., dir. Quasar Petroleum Ltd., Calgary, Alta., Can., 1972-76; v.p. Am. Quasar Petroleum Co., Ft. Worth, 1973-76; sr. v.p. exploration and prodn., dir. Champlin Petroleum Co., Ft. Worth, 1976-81; dir. Calvee Pipe Line Co. Del. to Tex., 1976-81. Republican Conv., 1964-68. Recipient Cedric K. Ferguson award, 1965. Mem. Ind. Petroleum Assn. Am. (exec. com.), West Tex. C. of C. (dir.), Am. Inst. Mining and Metall. Engrs., Soc. Petroleum Engrs. of AIME (Disting. lectr.), Am. Petroleum Inst., N.Mex. Oil and Gas Assn., Internat. Oil Scouts Assn., Ft. Worth Wildcatters (exec. com.), Phi Theta Kappa, Sigma Gamma Epsilon, Tau Beta Pi. Methodist. Clubs: Ft. Worth, Shady Oaks Country, Ft. Worth Petroleum. Home: 2005 Mt Royal Terr Fort Worth TX 76107 Office: 1600 Oil & Gas Bldg Fort Worth TX 76106

ABERSTEN, LENNART ROLF KARL, constrn. co. exec.; b. Stockholm, Sweden, Jan. 7, 1937; s. Rolf and Stina (Soderberg) A.; M.S. in Mining Engring., Kungliga Tekniska Högskolan, Stockholm, 1962; m. Enrica Lo Po, Aug. 29, 1972. Engr., Swedish State Power Bd., Letsi, Seitevare, 1962-65; planning engr. Skanska Cementgjuteriet, Marviken, Sweden, 1965-69; sr. cons. Nitro Consult A.B., Stockholm, Sweden, 1969-70; gen. mgr. Nitro Consult s.r.l., Milan, Italy, 1970-72; tech. mgr. Rock Blasting s.r.l., Milan, 1972-74; owner Consulenza Appalti, Edili Minerari, Milan, 1975—; Home: 9 Via Rapisardi Milano Italy 20161 Office: 21 Via C Poma Milano, Italy 20129

ABHAU, WILLIAM CONRAD, operations analyst, ret. naval officer; b. Baltimore County, Md., Apr. 5, 1912; s. William Conrad and Gertrude (Lewis) A.; B.S., U.S. Naval Acad., 1935; M.S., Naval Postgrad. Sch., 1956; grad. Naval War Coll., 1957; m. Harriet Elliot Sanders, Oct. 17, 1942; children—Elliot, Marcy. Commnd. officer USN, advanced through grades to rear adm., 1964; gunnery officer USS New Jersey, World War II; asso. with Navy Research and Devel. effort, 1945-70, with specialization in weapon control systems, evaluation of weapons systems effectiveness, and anti-submarine warfare devices; comdr. U.S.S. E. A. Greene, 1947-48, Escort Squadron 16, 1953-54, U.S.S. Waccamaw, 1957-58, U.S.S. Helena, 1961-62, Cruiser-Destroyer Flotilla Four, 1963, Manned Spacecraft Recovery Force, Atlantic, 1966-67, Anti-Submarine Warfare Systems Project, Washington, 1967-70; ret., 1970; with Inst. Def. Analyses, 1970—, Decorated Legion of Merit, Bronze Star. Mem. Ops. Research Soc. Am. Clubs: Annapolis Yacht; Army and Navy (Washington). Author mil. studies. Home: 201 Scott Circle Annapolis MD 21401 Office: 400 Army-Navy Dr Arlington VA 22202

ABI-ASSI, NAJAH RAYMOND, press group advt. exec.; b. Lebanon, Feb. 5, 1949; s. Raymond Joseph and Linda (Khalifeh) Abi-A.; Atty. in Law, St. Joseph U., Beirut, 1977. Admitted 1st instance, Beirut, 1977, avocat à la cour, 1982; practiced law, Beirut, 1977-80; advt. dir. Dar Assayad Press Group, pub. house, Beirut, 1980—; Club: Automobile Touring. Home: PO Box 84 Beirut Lebanon Office: PO Box 1038, Beirut, Lebanon

ABIARA, ROBERTO GONZALES, constrn. co. exec.; b. Manila, Philippines, Oct. 18, 1932; s. Pedro Gamo and Francisca Liboon (Gonzales); B.S. in Mech. Engring., U. So. Philippines, 1960; B.S. in Indsl. Engring., Colegio de San Jose Recoletos, 1962, postgrad. in

Mgmt. Engrng., 1964; m. Leticia B. Ferraren, Oct. 26, 1958; children—Arthur F., Virgilio Luis F., Mariano Miguel F., Joselito Jaime F., Francisco Salvador F., Mary Angelina F. Mechanic, project engr., project supt., v.p., gen. supt. Indsl. Supply and Engrng. Corp., Mabolco, Cebu City, Philippines, 1956-70; pres., gen. mgr. Roblett Indsl. Constrn. Corp., Makati, Philippines, 1971-75, pres., chmn. bd., 1976—; engrng. cons. B.F. Goodrich Philippines, Inc., Cebu City, 1971—; lectr. Colegio de San Jose Recoletos, 1969-70. Named Engr. of Yr., Iligan City, 1968; Outstanding Engrng. Alumnus, Colegio de San Jose Recoletos, 1969; 1 of 10 Outstanding Young Men in Engrng. and Tech., Cebu, 1970, 1 of 10 Exemplary Young Citizens in Tech., Cebu, 1971; Outstanding Alumnus in Engrng., U. So. Philippines, 1974; Outstanding Businessman of Mandaue City, Cebu Jaycees, 1975; Disting. Citizen in Industry, Cebu C. of C., 1980. Mem. Philippine Soc. Mech. Engrs. (nat. pres., 1977-78), Cebu Council of Mgmt. (dir. 1975-76), Assn. Mgmt. and Indsl. Engrs. of Philippines, Cebu Contractors Assn. (dir., auditor 1975-78, award of achievement in indsl. plant constrn. and installation 1974, Internat. Contractor of Yr. award, 1980), United Technol. Orgn. Cebu (gov., 1975-76), Safety Orgn. of Philippines (dir. Cebu chpt. 1972-74), ASME (asso.), Am. Assn. Cost Engrs., Mandaue Indsl. and Comm. Assn., Philippine Contractors Assn., Employers Confedn. of Philippines, Philippine Chamber of Commerce and Industry, Roman Catholic, Club: KC. Office: 5468 South Superhighway Makati Philippines

ABLETT, DOROTHY MARY, designer-craftsman; b. Cairo, July 1, 1918; d. Norman Lloyd and Ellen Elizabeth (Rogers) A.; B.Ed. in Art, U. London, 1940, art tchrs. diploma, 1941, Art tchr. Bedford Modern Sch., 1941-42; arts and crafts tchr. Lowther Coll., 1944-47; lectr. in art Bishop Otter Coll. of Edn., 1942-43; secondary tchr. St. Albans Sch., 1947-51; asst. to county art organizer, Hertfordshire, 1947-51; weaving, spinning and dyeing designer, 1954—; tchr. textiles Nottinghamshire U., 1941. Fellow Soc. Designer-Craftsmen U.K.; mem. Guild Sussex Craftsmen, Guild Weavers, Spinners and Dyers (hon.), Brit. Crafts Centre London, Sussex Crafts Council, Rottingdean Women's Inst. (handicraft sec. 1963-67, 77-79). Mem. Ch. of Eng. Home: 72 Westbrook Lustrells Vale Saltden Sussex BN2 8FZ England

ABLON, ARNOLD NORMAN, accountant; b. Ft. Worth, July 12, 1921; s. Esir R. and Hazel (Dreeben) A.; B.S., La. State U., 1941; M.B.A., Northwestern U., 1942; m. Carol Sarbin, July 25, 1962; children—Jan Ellen, Elizabeth Jane, William Neal, Robert Jack. Lectr. accounting So. Meth. U., 1946-47; auditor Levine's Dept. Stores, 1947-49; accountant Peat, Marwick, Mitchell & Co., 1946-47; sr. partner Arnold N. Ablon and Co., C.P.A.s; partner W.T. Troth and Arnold Ablon, investments, Dallas; pres., dir. Ablon Enterprises, Inc.; dir. 1st Continental Enterprises, Inc., Hunsaker Truck Lease, Inc. Bd. dirs. Greenhill Sch., Spl. Care Sch., St. Mark's Sch. of Tex., June Shelton Sch., Temple Emanuel. Served to capt. AUS, 1942-45. Mem. Am. Inst. C.P.A.s, Tex. Soc. C.P.A.s, Nat. Assn. Cost Accountants, Clubs: Masons, Shriners; Variety Internat., Columbian, Dallas, City (Dallas). Home: 9129 Clearlake Dallas TX 75225 Office: Republic Nat Bank Bldg, Dallas, TX 75201

ABOSEDE, BABATUNDE OLUGBEMIGA, mfg. co. exec.; b. Lagos, Nigeria, May 6, 1945; s. Michael Ayoola and Dorcas Olatunji A.; B.Sc. with honors in Chemistry, U. Lagos, Nigeria, 1970; m. Olayinka Abiola, July 7, 1975; children—Olugbemiga Moyo, Okubanke. Tchr. chemistry Remo Divisional High Sch., Sagamu, Nigeria, 1970; lab. chemist PZ Industries Ltd., Ikeja, Nigeria, 1970-72, asst. prodn. mgr., 1973-75, prodn. mgr., 1975-76, plant mgr., sr. exec., 1977—; lectr. U. Lagos, Dir. Lagos State Waste Disposal Bd., Nigeria, 1979—. Mem. Instn. Works Mgrs., Cosmetics Soc. Gt. Britain, Chem. Soc. Nigeria, Club: Lagos Lawn Tennis. Home: PO Box 10338 Marina Lagos Nigeria Office: P M B 21132, Ikeja, Lagos, Nigeria

ABPLANALP, GLEN HAROLD, civil engr.; b. Youngsville, N.Y., Nov. 9, 1914; s. William P. and Elizabeth (Tremper) A.; C.E., Rensselaer Poly. Inst., 1936; J.D., Fordham U., 1943; m. Marion Clark, Sept. 5, 1937; children—Diane Abplanalp Gimmule, Jeffrey. Admitted to N.Y. bar, 1943; asst. dist. mgr. Wallace & Tiernan Co. Inc., Newark, 1936-43; sec-treas. Glenwal Co. Inc., Ridgewood, N.J., 1946-47; cons. engr. Havens & Emerson, Inc., N.Y.C. and Saddle Brook, N.J., 1947—, prin. engr., 1955-59, gen. partner, 1959-70, vice chmn., 1970-77, v.p., 1977-80, staff cons., 1980—; lectr. in field; head coop. research project on upper Passaic River, 1965—; cons. N.J. Commr. Health, 1964—. Dir. Met. Youth for Christ. Served as Lt. comdr. USNR, 1943-46. Recipient Pres's. plaque Constrn. Specifications Inst., 1963, 64, 67, 77. Cert. of Appreciation, 1982; named N.J. Man of Yr.; registered prof. engr., N.Y., N.J., Conn. Pa., Fla., Tenn., Ga., Mich., Wis., Tex., Md., N.C. Fellow Constrn. Specifications Inst. (pres. 1960-61), ASCE, Am. Cons. Engrs. Council (chmn. contract documents com.) mem. Nat. Soc. Prof. Engrs. (past com. chmn.), Am. Arbitration Assn. (nat. panel), Am. Water Works Assn. (engrng. and constrn. div.), Water Pollution Control Fedn., VFW, Pi Kappa Alpha, Presbyterian, Clubs: Masons, Shriners. Contrb. articles to prof. journals; legal editor *The Specifier*, 1960—. Home: 539 Grove St Ridgewood NJ 07450 Office: 299 Market St, Saddle Brook, NJ 07662

ABRAHAM, ABRAHAM KURUDAMANNIL, cardiologist; b. Ayroor, India, Mar. 14, 1942; s. Abraham Kurudamannil and Kanda Abraham Chacko; M.B.B.S., Christian Med. Coll., Vellore, India, 1966, D.M., 1976; M.D., B.J. Med. Coll., Ahmedabad, India, 1973; m. Baby Zachariya, Jan. 12, 1970; children—Sandra, Ann. Lectr. dept. cardiology Med. Coll., Vellore, to 1978; head dept. cardiology All India Cardiac Centre, Perambur, Madras, 1978—. Served with Indian Army, 1967-71. Fellow Am. Coll. Cardiology, Coll. Chest Physicians, Indian Soc. Electrocardiology; mem. Assn. Physicians India, Cardiol. Soc. India, Club: Ry. (Madras). Home: Kurudamannil Ayroor Alleppey India Office: Railway Hosp. Constable Rd, Madras 600 023, India

ABRAHAM, GEORGE, research physicist and engr.; b. N.Y.C., July 15, 1918; s. Herbert and Dorothy (Jacoby) A.; Sc.B., Brown U., 1940; S.M., Harvard U., 1942; Ph.D., U. Md., 1947; postgrad. M.I.T., George Washington U.; m. Hilda Mary Wenz, Aug. 26, 1944; children—Edward H., Dorothy J., Anne H., Alice J. Chmn. bd., pres. bd. Intercollegiate Broadcasting System, N.Y., 1941—; radio engr. RCA, Camden, N.J., 1941; with Naval Research Lab., Washington, 1942—, head sci. edn., head exptl. devices and microelectronics sects., 1945-69, head systems applications Office of Dir. Research, 1969-75, research physicist Office Research and Tech. Applications, cons., 1975—; lectr. U. Md., 1945-52, George Washington U., 1952-67, Am. U., 1979; indsl. cons.; mem. Bd. of Registration for Prof. Engrs., D.C.; mem. D.C. Engrs. Bd. Chmn. bd. Canterbury Sch., Accokeek, Md.; mem. schs. and scholarships com. Harvard U.; active PTA, Boy Scouts Am. Served to capt. USNR, World War II. Recipient Group Achievement award Fleet Ballistic Missile Program, U.S. Navy, 1963; Edison award Naval Research Lab., 1971, Research Publ. award, 1974, Patent awards, 1959-75, others; registered prof. engr., D.C. Fellow IEEE (Harry Diamond award 1981), Washington Acad. Scis. (pres. 1974-75), N.Y. Acad. Scis., AAAS; mem. Am. Phys. Soc., Am. Assn. Physics Tchrs., Am. Soc. Naval Engrs., Washington Soc. Engrs.

(pres. 1974, award 1981), Philos. Soc. Washington, AAUP, Sierra Club, Sigma Xi, Sigma Pi Sigma, Tau Beta Pi, Sigma Tau, Eta Kappa Nu, Iota Beta Sigma. Clubs: Cosmos, Harvard (Washington), Appalachian Mountain (Boston); Sierra (San Francisco). Contrb. chpts. to books, articles to prof. journs.; patentee in field. Home: 3107 Westover Dr SE Washington DC 20020 Office: Naval Research Lab Washington DC 20375

ABRAHAM, GERALD ERNEST HEAL, musical historian; b. Newport, Isle of Wight, Mar. 9, 1904; s. Ernest and Dorothy Mary (Heal) A.; D.Mus. (hon.), U. Durham, U. Liverpool, U. Southampton; D.F.A. (hon.), U. Calif., Berkeley; m. Patsie Robinson, May 2, 1936; 1 dau., Frances. Prof. music Liverpool (Eng.) U., 1947-62; asst. controller music BBC, 1962-67; Bloch prof. music U. Calif., Berkeley, 1968-69; gen. editor New Oxford History of Music, 1969—. Decorated comdr. Order Brit. Empire. Fellow Brit. Acad.; mem. Royal Musical Assn. (pres. 1969-74), Am. Musicological Soc. (corr. mem.). Author: *Studies in Russian Music*, 1936; *Chopin's Musical Style*, 1939; *Slavonic and Romantic Music*, 1968; *The Tradition of Western Music*, 1976; *Concise Oxford History of Music*, 1979. *

ABRAHAM, JUAN CARLOS, orthopedic surgeon; b. Santa Fe, Argentina, Mar. 3, 1927; s. Amado and Emilia (Obaid) A.; Bachelor, Nat. U. del Litoral, Rosario, Argentina, 1943, Med. Surgeo, 1950, M.D., 1961; m. Nancy Trippitt, Sept. 11, 1954; children—Mary, John Charles, Claude, Leonhard. Fellow, Hospital Angerich, Buenos Aires, 1951, Hospital Provincial Santa Fe, 1951-54; cons. orthopedics Centro de Rehabilitación Poliomieltitis, 1954-65; 2d chief surgeon Hospital Provincial Santa Fe, 1966-72, chief surgeon traumatology and orthopedic service, 1972—; orthopedics chair U. Rosario. Served with Argentine Army, 1950. Grantee for research in leprosy. Mem. Latin Am. Soc. Traumatology and Orthopedics, Argentine Soc. Traumatology and Orthopedics, Argentine Soc. Leprosy, Argentine Soc. Surgery of Hand. Jewish. Clubs: Jockey; Capilla del Monte (Cordoba, Argentina). Home: 3119 General Lopez Santa Fe 3000 Argentina Office: 2189 General Urquiza, Santa Fe 30000, Argentina *

ABRAHAM, PAUL LESLIE, banker; b. Andover, S.D., Mar. 1, 1921; s. Paul Leo and Mary Cecilia (Langhammer) A.; student U. Mo., 1941-43; B.S., Rockhurst Coll., 1948; m. Mary Carolyn Beeve, Jan. 9, 1946; 1 son, Thomas Richard. Asst. trust officer First Nat. Bank, Kansas City, Mo., 1955-60, trust officer, 1960-63, v.p., 1963-67, sr. v.p., 1967—; mem. Greater Kansas City Clearing House Assn. Chmn. adminstrn. com. Rockhurst Coll., 1960, hon. dir., 1971—; mem. gift and bequest com. Avila Coll., 1970—; hon. bd. dirs. Bapt. Meml. Hosp., Kansas City, Mo.; chmn. bd. Payment and Telecommunications Cooperation. Served with USAAF, 1943-45. Decorated Air medal with 2 bronze clusters, D.F.C. Mem. Am., Mo. bankers assns., Am. Inst. Banking. Home: 5311 Chadwick St Shawnee Mission KS 66205 Office: 14 W 10th St Kansas City MO 64105

ABRAHAM, WILLIAM ISRAEL, economist; b. Phila., Mar. 3, 1919; s. Benjamin and Mary (Shenker) A.; B.A., U. Pa., 1940; M.B.A., U. Chgo., 1942; Ph.D., Columbia U., 1953; m. Janet Elizabeth Margaret Cole, May 29, 1945; children—Stephen Benjamin, Roger Douglas, Susan Edith, Charles Raymond. Statistician, UN Secretariat, 1946-61; prof. econs. N.Y. U., 1961-74; vis. prof. econs. and S.E. Asia studies Yale U., 1965; econs. adv., inst. asso. Harvard U. Inst. Internat. Devel., 1972-76; project mgr. devel. nat. integrated statis. system UNDP, Bolivia, 1977-80, Sri Lanka, 1980—. For Found. vis. adv. U. Singapore, 1970; cons. in field. Served with AUS, 1943-45. Mem. Internat. Assn. Research Income and Wealth, Am. Econ. Assn. Clubs: Colombo Yacht, Colombo Swimming. Author: *National Income and Economic Accounting*, 1969; also reports. Home: 3663 Maple Ave Oakland CA 94602 Office: UNDP PO Box 1505 Colombo Sri Lanka

ABRAHAMS, ROBERT DAVID, lawyer, author; b. Phila., Sept. 24, 1905; s. William and Anne (David) A.; LL.B., Dickinson Sch. Law, 1925, LL.D., 1973; m. Florence Kohn, Nov. 21, 1929 (dec. Sept. 23, 1975); children—Richard Irving, Roger David, Marjorie (Mrs. Clifford Slavin); m. 2d, Jane Sunstein Freedman, Jan. 27, 1977. Admitted to Pa. bar, 1925; sec. to commr. gen. to Europe for Sesqui-Centennial Expn., 1925; asst. city solicitor, 1927-32; editor Independent (weekly), 1932; consul at Phila. for Dominican Republic, 1931-62; asst. chief counsel Legal Aid Soc. Phila., 1933-50, chief counsel, 1950-73; now partner Abrahams & Loewenstein. Faculty law Temple U.; exec. dir. Community Legal Service, 1966-67. Bd. dirs. Pa. Prison Soc., pres., 1968-72; bd. dirs., trustee Dickinson Sch. Law Pres., Community Health Center, 1945-52, Jewish Family Service, 1951-54; mem. expert com. on Low Cost Legal Service, Am. Bar Survey of Legal Profession. Founder, curator Horatio Nelson Mus., Nevis, W. Indies. Decorated Order of Duarte, 1945, Order of Christopher Columbus, 1957 (Dominican Republic). Mem. Nat. Legal Aid Assn. (v.p. 1957, Reginald Heber Smith award 1962), Internat., Am., Pa., Phila. (chmn. com. on pub. service 1961-62, cons. 1962-65, Fidelity Bank award 1972) bar assns., Tau Epsilon Rho. Democrat. Jewish. Mason. Clubs: Locust, Franklin Inn. Author: *Come Forward (verse)*, 1928; *New Tavern Tales (fiction)*, 1930; (with M.J. Meyer) *Handbook of Pennsylvania Collection Practice*, 1931; *The Pot Bellied Gods (verse)*, 1932; *Death After Lunch (novel)*, 1941; *Death in 1-2-3 (novel)*, 1942; *Three Dozen (verse)*, 1945; *Mr. Benjamin's Sword*, 1948; *Room for a Son (novel)*, 1951; *The Commodore (novel)*, 1954; *The Uncommon Soldier (novel)*, 1958; *Sound of Bow Bells (novel)*, 1962; *Humphrey's Ride (novel)*, 1964; *The Bonus of Redonda*, 1967; *Beginnings*, 1975; *The Daddy's Ear*, 1980. Contrb. verse, prose to Sat. Eve. Post, Esquire, Story, other mags.; contrb. prof. articles to law journs. Founder, Phila. Neighborhood Law Office Plan, 1st successful legal service plan for persons in middle income group, 1939. Home: 1014 W Horter St Philadelphia PA 19119 also Morning Star Fig Tree Nevis West Indies Office: Land Title Bldg Philadelphia PA 19110

ABRAHAMSE, LEONARD GEORGE, banker; b. Newlands, Cape Town, South Africa, Jan. 10, 1922; s. St. John Christiaan and Mildred Irene (Peters) A.; B.Com., U. South Africa, 1948; m. Nellie Beatrice Sherratt, Nov. 24, 1945; children—Margaret Sheevaun, Loraine Joyce, Susan Patricia. With Shell South Africa, 1939-48, in Philippines, London, Ceylon, Brazil, 1948-58, 1st South African mng. dir. Shell Co. S.A. Ltd., Shell Mocambique, Shell S.W.A., chmn. S.A. Refinery Co. Ltd., 1960-62, dir. Shell Internat. Petroleum Ltd., London, 1963-66, also B.I.P.M. and Shell U.K. Ltd., Shellmess and B.P. Ltd., U.K.; dir. Shell Petroleum Ltd. and Shell Petroleum N.V. Ltd., The Hague, 1966-70, also S.I.P.C. and B.I.P.M., Shell Francaise, Shell Italiana, Shell Nederland; chmn. Syfrets Trust Ltd., Syfrets Trust Holdings Ltd., No. Engring. Investments Africa Ltd., NEI Africa Holdings (Pty) Ltd.; dir. South African Mut. Life Assurance Soc. and asso. cos., Gold Fields of South Africa Ltd., C. G. Smith Ltd. and asso. cos., Union Acceptances Ltd., Nampak Ltd., others. Chmn. council U. Cape Town, 1976; chmn. U. Cape Town Found.; mem. Press Council, 1977; v.p. Manpower and Mgmt. Found. South Africa, 1971; trustee South Africa Found. Served with South African Forces, 1940-45. Mem. South African Inst. Mgmt., Inst. Dirs. Mem. Ch. of Eng. Home: Minerva Rathfelder Ave Constantia 7800 South Africa Office: PO Box 206, Cape Town 8000, South Africa

ABRAM, MORRIS BERTHOLD, lawyer, former univ. pres.; b. Fitzgerald, Ga., June 19, 1918; s. Sam and Irene (Cohen) A.; A.B. summa cum laude, U. Ga., 1938; J.D., U. Chgo., 1940; B.A. (Rhodes scholar), Oxford U., 1948, M.A., 1953; LL.D., Davidson Coll., 1972, Yeshiva U., 1975; m. Jane Maguire, Dec. 23, 1943 (div. 1974); children—Ruth, Ann, Morris Berthold, Jonathan Adam, Joshua Anthony; m. 2d, Carlyn Feldman Fisher, Jan. 25, 1975. Partner, Paul, Weiss, Rifkind, Wharton & Garrison, N.Y.C., 1962-68; pres. Brandeis Univ., Waltham, Mass., 1968-70; partner law firm Paul, Weiss, Rifkind, Wharton & Garrison, N.Y.C., 1970—. Pros. staff Internat. Mil. Tribunal, Nurnberg, Germany, 1946; asst. to dir. Com. for Marshall Plan, 1948; regional counsel WSJ; gen. counsel Peace Corps, 1961; mem. subcom. on prevention of discrimination and protection of minorities UN, 1963-65; U.S. rep. UN Commn. Human Rights, 1965-68; mem. exec. com. President's Nat. Com. Community Relations, 1964-68; chmn. Moreland Act Commn. on Nursing Homes and Residential Facilities, 1975-76. Pres. Family Serv. Soc. of Fulton, DeKalb, Cobb counties, 1957-59; chmn. Atlanta Citizens Crime Com., 1958-60; nat. pres. Am. Jewish Com., 1963-68. Bd. dirs. 20th Century Fund; pres. Field Found., 1965—; bd. dirs. Morehouse Coll., Inst. Internat. Edn., Council Fgn. Relations; trustee Weizmann Inst. Sci., 1966—, Sarah Lawrence Coll., 1971-74, Inst. Internat. Edn., 1969-74; chmn. United Negro Coll. Fund, 1970-79; chmn. bd. Benjamin N. Cardozo Law Sch., Yeshiva U., 1975-79; mem. Nat. Adv. Council Econ. Opportunity, 1967-68; chmn. Pres.'s Commn. Study of Ethical Problems in Medicine and Biomed. and Behavioral Research, 1979—. Served to maj. USAAF, 1941-45. Decorated Legion of Merit, 1946. Fellow (hon.) Pembroke Coll., Oxford U. Fellow Am. Coll. Trial Lawyers; mem. Lawyers Club Atlanta, N.Y. State, Am., Ga., Atlanta bar assns., Assn. Bar City N.Y., Phi Beta Kappa, Omicron Delta Kappa, Phi Kappa Phi. Co-author: *How to Stop Violence in Your Community*, 1950. Home: 15 W 81st St New York NY 10024 Office: 345 Park Ave New York NY 10022

ABRAMOVICI, AVY, violinist; b. Galati, Romania, Dec. 15, 1935; s. Max and Paulina (Balter) A.; M.A. with honors (George Enescu scholar), Mus. High Coll., Bucharest, Romania, 1958; diploma in higher mus. studies Bartok Sem., Budapest, 1967; m. Suzana Victoria Roman, Nov. 10, 1961; children—Daniel-Levy, Gabriel-Levy, Michael-Levy. Leader symphonic orch. C. Porumbescu mus. acad., Bucharest, 1958-60, prof. violin, 1962—; first violinist George Enescu Philharm. Orch., Bucharest, 1960—, concertmaster, 1976—; leader (Cameral) Bucharest Philharm. Chamber Orch., 1963-73, Pro Arte Quartet, 1974—, Concertino Quintet, 1974—; rec. artist for Romanian Electrecord Co.; concertmaster Chamber Orch., Dinu Lipatti, 1981; solo violinist, leader symphonic and cameral orch.; prof. Musical Acad. Recipient honors Nat. Competitions Young Soloists, 1955, 57, 59, 61, medal of Cultural Merit 1st class State Council of Romania, 1968. Mem. Theater and Mus. Artists Assn. Bucharest. Recs. include 6 Sonatas for Violin and Cembalo (Bach), Sonata No. 1. for Violin and Piano (Enesco), Concerto for Violin and Orch. (Vieru), Echos for Violin Solo (Niculescu), Sonata for Violin and Piano (Hrisanide), Trio (Constantinescu). Home: Serban-Voda 106 70519 Bucharest Romania

ABRAMOW-NEWERLY, JAROSLAW, playwright; b. Warsaw, Poland, May 17, 1933; s. Igor and Barbara (Abramow) Newerly; M.A., Warsaw U., 1955; children—Magdalena, Barbara, Maria. Editor-in-chief *Od Nowa*, 1956; editor drama dept. Polish Radio, 1960-66; lit. adviser Teatr Ludowy, Warsaw, 1970-72; playwright, 1954—; dramas include: *Remanent*, 1962, *Aniol na dworcu*, 1965, *Derby w palacu*, 1966, *Ucieczka z wielkich balwarow*, 1969, *Wyciąg do nieba*, 1971, *Klik-klak*, 1972, *Darz Bor*, 1974, *Skok przez siebie*, 1977, *Dno nieba*, 1977; *Kto mi spiewał sevendae*, 1980; collection of plays: *Dramaty*, 1975. Recipient Pietak Literary award, 1965, Koscielski Literary award, 1967. Mem. Polish Writers Union, Internat. P.E.N. Club, Internat. Theatre Inst. Address: 13 Dąbrówki Warsaw 03-909 Poland

ABRAMS, HERBERT KERMAN, physician, educator; b. Chgo., 1913; B.S., Northwestern U.; M.D., M.S., U. Ill., 1940; M.P.H., Johns Hopkins, 1947. Intern. Cook County Hosp., Chgo., 1940-41; chief Bur. of Adult Health, Calif. Health Dept., 1947-52; dir. Chgo. Union Health Service, 1953-66; dir. dept. community medicine Chgo. Med. Sch.-Mt. Sinai Hosp., Chgo., 1966-68; dir. Martin Luther King Neighborhood Health Center, Chgo., 1966-68; prof., head dept. family community medicine U. Ariz., Tucson, 1968-78, dir. El Rio Santa Cruz Neighborhood Health Center, Tucson, 1969-75, dir. Ariz. Center for Occupational Safety and Health, 1978—. Served with USPHS, Wash., Chlua, South Am. Vice pres. Am. Public Health Assn., 1981-82. Mem. AMA, Am. Public Health Assn., Assn. Tchrs. Preventive Medicine, Am. Occupational Med. Assn. Office: Ariz Center Occupational Safety and Health Ariz Health Scis Center U Ariz Tucson AZ 85724

ABRAMS, JULIUS, engr.; b. Butrimantzi, Lithuania, Oct. 27, 1902; s. Harry Isaac and Etta (Ginsberg) A.; brought to U.S., 1903; B.C.E., Northeastern U., 1925, D.Eng. (hon.), 1973; m. Eva Hodess, June 2, 1926; children—Fay Rosalind (Mrs. Louis Wilgoren), Benjamin Emanuel, Philip. Civil and constrn. engr. Gleason Engrng. Corp., Wellesley, Mass., 1932-36; chief engr. B.A. Gardett Corp., 1936-40; civil engr. supt. J. Slotnik Co., Boston, 1940-43; engr. Joseph Bennett Co., Boston, 1943-45; pres. Poley-Abrams Corp., Brookline, Mass., 1945—; chmn. bd. J. Abrams Constrn. Corp., Brookline; dir., past pres. Asso. Gen. Contractors of Mass.; mem. Spl. Commn. Concerning State and County Bldgs. for Commonwealth of Mass.; participant 4th World Congress Engrs. and Architects, Tel Aviv, 1976, ASCE Conf. on Engrs. as a Prof., Rochester Inst. Tech., 1978. Past chmn. Greater Boston Hillel Com.; chmn. bd. of examiners Brookline Bldg. Dept.; past mem. designer selection bd. Commonwealth Mass. Mem. corp. U. Indsl. Mgmt., Northeastern U., Lesley Coll. Named Outstanding Civil Engrng. Alumnus, Northeastern U., 1981. Registered prof. engr. Mass. Fellow Am. Inst. Constructors; mem. Nat. Soc. Prof. Engrs., Am. Arbitration Assn. Am. Soc. Engrng. Edn., Am. Council Constrn. Edn., Alpha Epsilon Pi. Republican. Clubs: Masons, B'nai Brith (past pres. Architects-Engrs. lodge). Home: 210 Nahanton St Newton MA 02159 Office: 45 Bartlett Crescent, Brookline, MA 02147

ABRAMS, WILLIAM BERNARD, drug co. exec.; b. Atlantic City, July 15, 1922; s. Joseph Salzberg and Zelda (Coleman) A.; B.S., Rutgers U., 1944; M.D., Jefferson Med. Coll., 1947; m. Berenda Weinberg, Mar. 4, 1945; children—James C., Andrew P., Joseph T., Julie A. Intern. Atlantic City Hosp., 1947-48; instr. bacteriology Jefferson Med. Coll., 1948-49; research fellow Children's Hosp., Phila., 1949-50; fellow in cardiology Phila. Gen. Hosp., 1950-51; fellow NIH, 1949-51; practice medicine specializing in internal medicine, Newark, 1955-58, Irvington, N.J., 1958-59; asso. in medicine Jefferson Med. Coll., Phila., 1959-64, adj. prof. medicine, 1977—; research asso. prof. medicine Hahnemann Med. Coll., Phila., 1964-67, vis. prof., 1977—; clin. asso. prof. medicine N.J. Coll. Medicine, 1967-75; attending physician in medicine Newark City Hosp., 1964-75; dir. clin. pharmacology Newark Beth Israel City Hosp., 1960-71; asso. medicine Newark Presbyn. Hosp., 1965-75; dir. dept. clin. pharmacology Hoffmann-LaRoche, Inc., Nutley, N.J., 1960-71; v.p. clin. research Ayerst Labs., N.Y.C., 1971-75; exec. dir. clin. pharmacology Merck, Sharp & Dohme, Inc., West Point, Pa., 1975—.