



RELIABILITY GROUP NEWSLETTER

OCTOBER 1973 Vol. XVIII·Issue 3

Editor: Paul Gottfried

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Editor's Note

Without taking a position, we call your attention to the referendum question on the current IEEE ballot. (See "Your Referendum Vote is Important" in this issue.)

"Material for the January issue must be in the Editor's hands by November 21. Chapter material should be sent directly to the Associate Editor."

Chapter chairmen

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Baltimore, Maryland 21203

Chapter news

Baltimore

The first meeting of the 1973-74 season will be held Monday, September 17, 1973 at the Beltway Motel. The speaker will be Karl Dell, Program Manager, Amecom Division, Litton Systems, Inc. and he will discuss "New Horizons in Quality".

Boston

A kickoff meeting of Chapter officers and committee chairmen was held to develop, discuss and establish plans and responsibilities for the 1973-74 season. A tentative schedule of six chapter meetings, capped by the 12th Annual All Day Spring Reliability Seminar to be held in April 1974, was developed.

The following officers have been elected to serve during the 1973-74 term:

Chairman.	Donald V. Simpson RCA Corporation P. O. Box 588, MS #6 Burlington, MA 01801
Vice Chairman	Norman A. Martel RCA Corporation P. O. Box 588, MS #6 Burlington, MA 01801
Secretary	Eugene R. Carrubba GTE-Sylvania Dept. 522 77 "A" Street Needham Heights, MA 02194
Treasurer	Amy C. Spear RCA Corporation P. O. Box 588, MS #6 Burlington, MA 01801

Connecticut

The first meeting of the 1973-74 season will be held October 16, 1973 at the Millstone Point Nuclear Power Station, Waterford, Connecticut. The subject will be "Reliability at Nuclear Power Stations".

Los Angeles

The Los Angeles Chapter had a busy schedule for 1972-73:

October 18	"Mil-M-38510", J. E. Feldt and T. Bush, National Semiconductor Corporation
November 15	"Reliability Demonstration Testing", C. M. Ryerson, Hughes Aircraft
January 17	"Medical Equipment Failure Models and Safety Hazards", P. Delangis, President, Artificial Kidney Center
February 13	"Realistic Approach to Failure Analysis Techniques", P. Eisenberg, Litton Systems
March 14	"Reliability and System Safety Interrelation- ship", B. Moriarity, TRW Systems Group

April 18

"DOD Standardization and Jan TX Semiconductor Reliability", B. J. DiNardo and W. Dawe, TRW Systems Group

The following officers have been elected to serve during the 1973-74 term:

Chairman

B. J. DiNardo
TRW Systems Group
1 Space Park R4/1174
Redondo Beach, CA 90278

Vice Chairman

Frank C. Friedt
Hughes Aircraft Company
Culver City, CA 92666

Secretary/Treasurer

Kenneth L. Peterson
Douglas Aircraft
3855 Lakewood Boulevard
Long Beach, CA

Philadelphia

The first meeting of the 1973-74 season is scheduled for September 27, 1973 at the Presidential Apts. Mr. W. H. MacWilliams, Head, Data Processing, System Control Dept., Bell Laboratories will discuss "Reliability of Large Real-Time Control Software Systems". The next meeting is scheduled for October 24, 1973. Mr. Frank A. Eble, RCA Corporation will discuss "Maintenance Strategies for Ambiguous Faults".

Twin Cities

The first meeting of the 1973-74 season is scheduled for November 28, 1973 at the CDC Tower. The speaker will be George Haferkorn who will discuss "Reliability and Part Criticality".

Washington

The first meeting of the 1973-74 season will be held at Vitro Laboratories in October. The speaker will be Dr. Carl Harris of The George Washington University. He will discuss "Failure Rate Prediction and Wearout Detection".

Your REFERENDUM VOTE

is Important

Your IEEE ballot this year carries a referendum question proposing the establishment of an affiliated corporation to be composed of all the IEEE Groups and Societies.

Short of recounting the history of events leading up to the referendum and the detailed arguments on both sides of the issue, it is impossible to do justice to the question. In brief, the proponents -- led by the Governing Board of the Computer Society -- argue that an IEEE technical (c) (3) organization is needed to facilitate Group and Society emphasis on technical matters, while IEEE as a whole pursues "professional" matters as directed by last year's constitutional amendment. The opponents -- led by the Board of Directors of IEEE -- argue that such separation is unnecessary and risks splintering of IEEE.

Each Group and Society is authorized to take a position on either side of the question or to remain neutral. Timing has precluded G-R from considering a stand. The decision rests in the membership in any event, and you are urged to consider the question and vote.

Employment Notices

The Newsletter accepts both "Help Wanted" and Position Wanted" Notices on a no-charge basis, subject to the following rules:

- Notices will appear in two successive issues unless cancellation notice is received before editorial deadlines.
- Text for each notice will be limited to ten lines plus identification, with a maximum of 45 characters and spaces per line.
- Notices may be open or blind, but blind "Help Wanted" notices should identify the type of business and the general geographic location of the vacancy.
- Submittals of "Position Wanted" notices should include IEEE membership number.
- "Help Wanted" notices must fall in the "Equal Opportunity - M&F" category. Agreement to this requirement will be considered to be implied by the submittal of the notice and need not appear in the text.

POSITION WANTED

18 yrs exper. in Product Assurance activities incl. program mgmt., Q.A., Q.C., failure reporting & reliability programs pertaining to component parts including IC's for commercial and military equipment. Coordinated & controlled quality of purchased items for mass production of communications equipment & effected yield improvements in the end products through process analyses and implementation of corrective measures. BSEE, MBA.

Reply to Box 3, c/o Editor
Paul Gottfried
9251 Three Oaks Drive
Silver Spring, Md. 20901

HELP WANTED

Electronics reliability design assurance engineer, at least 3 years experience in reliability or maintainability on Navy electronic systems, capable of interfacing with Navy Project Engineers. BSEE required. Send resume to:

Columbia Research Corporation
P. O. Box 485
Gaithersburg, Maryland 20760
Attention: Mr. E. McMahan

Engineers - Many openings in the following areas: Reliability; Electronic Design and Design Analysis; Avionics; Aircraft Armament Systems; Digital Multiplexing; System Safety; Quality Assurance Review of Engineering Documentation; ILS. BS Degree or equivalent required. Send resume to:

Systems Consultants Incorporated
543 Graaf Street
Ridgecrest, California 93555

CALL FOR PAPERS

RELIABILITY PHYSICS Symposium

Papers describing original, unpublished work are solicited for the 1974 IEEE International Reliability Physics Symposium. The Symposium, co-sponsored by G-R and G-ED, will be held at the MGM Grand Hotel, Las Vegas, Nevada, April 2-4.

Areas of interest include Failure Analysis Techniques, Successful Applications of Failure Analysis, Failure Modes & Mechanisms, Reliability Prediction and Improvement, Process Control Related to Reliability, and Component Design Related to Reliability.

Notification of intent to submit an abstract should be sent immediately to

I. A. Lesk, Technical Program Chairman
1974 Reliability Physics Symposium
Motorola Inc.
5005 E. McDowell Rd., MS A112
Phoenix, Arizona 85008

Abstracts are due November 13. Prospective authors must submit both a 50-word descriptive abstract and a 300-500 word summary appropriate to a 20-minute paper clearing stating: (1) the purpose of the work, (2) how it advances the knowledge of reliability physics, and (3) the results of the investigation. The abstract should be typed on a separate sheet and include the title of the talk, author(s) and affiliation, complete return address, and telephone number. Summaries must be submitted in single-side, double-spaced typewritten form suitable for immediate reproduction and review purposes. The title, author's name, affiliation, complete return address and telephone number should appear on the first page, and the author's name and paper title on each subsequent page.

A limited number of late-newspapers (suitable for 10-minute papers) reflecting new developments will be considered if 100-word abstracts and 300-500 word summaries are received by February 16, 1974.

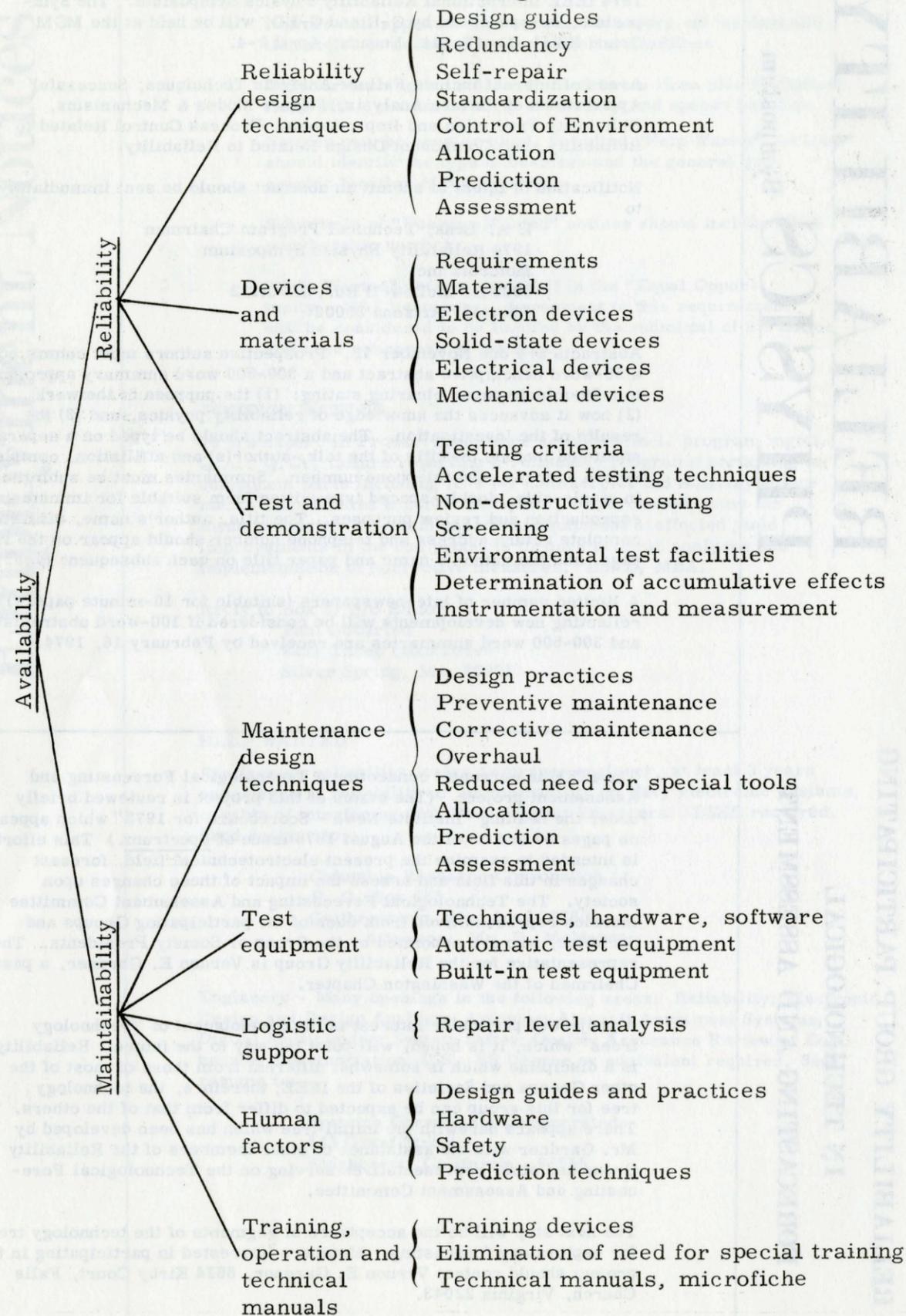
RELIABILITY GROUP PARTICIPATING IN TECHNOLOGICAL FORECASTING AND ASSESSMENT

The IEEE is currently conducting a Technological Forecasting and Assessment project. (The status of this project is reviewed briefly under the heading "Institute News - Scoreboard for 1973" which appears on pages 57 and 58 of the August 1973 issue of Spectrum.) This effort is intended to examine the present electrotechnical field, forecast changes in this field and assess the impact of these changes upon society. The Technological Forecasting and Assessment Committee includes representatives from each of the participating Groups and Societies, who are appointed by the Group or Society Presidents. The representative for the Reliability Group is Vernon E. Gardner, a past Chairman of the Washington Chapter.

A project of particular interest is the development of "Technology trees" which, it is hoped, will point the way to the future. Reliability is a discipline which is somewhat different from those of most of the other Groups and Societies of the IEEE; therefore, the technology tree for this group can be expected to differ from that of the others. There appears herewith the initial tree which has been developed by Mr. Gardner with the assistance of other members of the Reliability Group and other representatives serving on the Technological Forecasting and Assessment Committee.

The next step will be the acceptance of segments of the technology tree for exploratory forecasting. Members interested in participating in the project should contact Vernon E. Gardner, 6624 Kirby Court, Falls Church, Virginia 22043.

Technology Tree



conferences

November 12-14	44th National ORSA Meeting, Town & Country Hotel, San Diego, California
November 13-16	Third Symposium on Reliability in Electronics (Scientific Society for Telecommunication), Hungarian Academy of Sciences, Budapest, Hungary
1974	
January 27-February 1	1974 IEEE Power Engineering Society Winter Meeting, Statler Hilton Hotel, New York City
January 29-31	1974 Annual Reliability and Maintainability Symposium (G-R, ASQC, ASME, AIIE, ASM, AIAA, IES), Biltmore Hotel, Los Angeles, California
February 13-15	1974 IEEE International Solid-State Circuits Conference (Solid-State Circuits Council, Philadelphia Section, University of Pennsylvania), Philadelphia Marriott Motor Hotel
April 1-5	1974 IEEE Power Engineering Society Underground Transmission and Distribution Conference, Convention Center, Dallas, Texas
April 2-4	1974 International Reliability Physics Symposium (G-R, G-ED), MGM Grand Hotel, Las Vegas, Nevada
April 3-4	1974 ASME/IEEE Joint Railroad Conference, Pittsburgh, Pennsylvania
April 22-24	1974 IEEE International Symposium on Circuits and Systems (S-CS), Sir Francis Drake Hotel, San Francisco, California
April 22-26	EUROCON 74 (European Conference on Electro-technics) (Region 8 et al.), R.A.I. Congress Centre, Amsterdam, The Netherlands
May 11	First Canadian Reliability Symposium (Ottawa Chapter of the Society of Reliability Engineers), Carleton University, Ottawa, Ontario
July 1-5	1974 Conference on Precision Electromagnetic Measurements (The Royal Society and IEE with URSI, IERE et al.), London, England

SOFTWARE RELIABILITY PROCEEDINGS AVAILABLE

Copies of the proceedings of the IEEE Symposium on Computer Software Reliability (April 30-May 2, 1973) are available free to G-R members as long as the supply (200) lasts. Only one copy per member, please. Address your request to

D. I. Troxel
RCA
Bldg. 13-5-2
Camden, N.J. 08102

short COURSES

Newsletter policy with respect to short-course announcements, as established by the AdCom, is to provide publication for information only. No endorsement is implied, and no check on course content or instructor qualifications has been accomplished.

University of Arizona

11th Annual Reliability Engineering and Management Institute: November 11-20. Eight days, \$500; various subsets at reduced cost. Contact: Gen. B. H. Pochyla, Director of Conferences and Institutes, Division of Continuing Education, The University of Arizona, Tucson, Arizona 85721

Detroit Research Institute

Economics of Reliability: Week of March 18, 1974. One week?, \$345. Contact: Dr. Arvid W. Jacobson, Detroit Research Institute, 21900 Greenfield Road, Oak Park, Michigan 48237

The George Washington University

Effective Quality Management: November 14-16. Three days, \$230. Contact: Continuing Engineering Education Program, The George Washington University, Washington, D. C. 20006

Standards and Calibration Laboratories: December 3-7. (Co-sponsored by National Bureau of Standards). Five days, \$325.

Mathematical Models for the Environmental Sciences: December 10-14. Five days, \$340.

Statistical Methods in Reliability -- Application of Recent Developments to Reliability Problems: December 10-14. Five days, \$340.

University of Wisconsin

Nondestructive Testing: December 4-5. Two days, \$100. Contact: University of Wisconsin-Extension, Department of Engineering, 432 North Lake Street, Madison, Wisconsin 53706

publications

From IEEE:

Papers from INTERCON-74, packaged by sessions at \$1.00-2.50 per set or by general subject matter in eight volumes at \$4.00-\$8.00-\$12.00.

From the National Bureau of Standards, available through the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402:

Methods of Measurement for Semiconductor Materials, Process Control, and Devices (Quarterly Report October 1-December 31, 1972), NBS Tech Note 773, SD Catalog No. C13.46:773, 56 pages, \$0.80.

Recorded Magnetic Tape for Information Interchange (800 CPI, NPZI), FIPS Publication 3-1, June 30, 1973, SD Catalog No. C13.52:3/1, 4 pages, \$0.20.

Standard Reference Materials - 1973 Catalog, NBS Special Publication 260, April, 1973, SD Catalog No. C13.10:260-1973 cat, 96 pages, \$1.25.

Frequency Stability Specification and Measurement: High Frequency and Microwave Signals, NBS Tech Note 632, SD Catalog No. C13.46:632, January, 1973, 70 pages, \$0.65.

membership roster

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BALTIMORE

JOHN W ADOLPHSEN
J L RENNETT
WOODLEY C BLACKWELL JR
J P BRACH JR
T K BROWN
A G RUSH JR
M A DEAN
STEPHEN M ENGEL
M K FROME
A T HAMILL
H N HARRIS
J R HECK
ARCADY P IWASKIW
THOMAS T JACKSON
J A JENNINGS JR
H C JONES
DONNA L KASPERSEN
D B KEITAN
C R KNIGHT
R G KNYSH
RICHARD A KOWALSKI
S W KRUTE
GEORGE H LEINWEBER
EUGENE R LEVITT
W A MACREHAN JR
A C MARTIN
J W MARTIN
R M MASON JR
N J MC AFEI
M A MCGREGOR
L G MC PHERSON
J MILLER
RAYMOND D NEHEM
W D PALMER
W B REESE
LE ROY L RESSER
W A SCANGA
E E SCHEKEMAN
W G SCHULZ
R H SEIDL
JOHN P TUREK
E L VICTOR JR
R T WALSH
L L WILLIAMS

CENTRAL PENNSYLVANIA

H W DURRWACHTER 2ND
CHARLES W HAMRY
E W SCHMIDT
JAMES W VOGELSONG

CINCINNATI

ROGER W CLEM
H M FULDNER

CLEVELAND

ROGER A BINDT
LYNN A BLYTH
ROBERT C CRAFT
JOHN W GROSS
R H KUHNAPPEL
L W MAGYOSZY-WOLF
GEORGE S SAMTJLENKO
F C SILLACER
C P STOCKER
J V WERME
NORMAN R WHFELOCK

NEW HAMPSHIRE

P A BODMER
RAYMOND V CALVESIO
A F FREISINGER
R R GORDON
C N SMITH
T E WOODRUFF

PROVIDENCE

JOHN J BAILEY JR
W DANDRETA
STEPHEN A DIAS
DANIEL DRUMHELLER
M F MC KEAG
W C SCANLON
RICHARD B TURCOTTE

DAYTON

JAMES W BROWN JR
ROBERT I DAVIS
RICHARD W GRIMM
JAMES L KOENIG
T T KWO
BERNARD H LIST
L W MAGYAR
T L REGULINSKI
WILLIAM J SOKUP JR
F R TAYLOR
THOMAS E TYSON
R E WORTHY

DELAWARE BAY

R H LEE

EASTERN SHORE

C J FRAMPTON

JOHNSTOWN

DAVID L GINGERICH SR

ERIE

C A BURKHARD
C L HACKNEY
MAX SAPSOWITZ
THOMAS L VENABLE

LEHIGH VALLEY

GEORGE J MEYERS JR
D S PECK
W E SAWYER
LESTER E WENGER

LIMA

THOMAS M DAUTENHAHN
J T MITCHELL

NORTH CENTRAL OHIO

PAUL T ROBERTSON SR
GERALD C TUCKER

PHILADELPHIA

S L ARBOTT
W R ALEXANDER
G ASHENORF
T L AUERBACH
JAMES K BANNON
HARVEY R BARTON JR
J W BEATTY
GORDON H BECKHART
JOHN J BURKE JR
J W BURROWS
J E CASEY
MARTIN F CHAMOW
CAYWOOD C COOLEY JR
J J DAVARO
J W DRUM
EDWARD R EMERY
E P FEYERHERM
CONRAD J FOWLER
STEVEN C GARCIA
E E GARFIELD
W H GIANELLE
A B GITTELMAN
W C GLEITER
HARRY J GRAY
JOHN A AIKO
S HALPERN
C R HEISING
J C HERMAN
I HYAMS
L R JONES JR
A P KAWALEC
SUBHASH R KHADPE
HARRY KIMEL
R KOPPERSTEIN
N R KORNFIELD
ANDREW KOWAL
H N KRITIKOS
N H KUTNER
J D LESHER
R F MAGYARICS
R MAYER
V R MONS HAW
M J MOZENTER
A G NEWMAN
R NUNNALLY
M M OFLAHERTY
F E OLIVETO
R H OVERDEER
S F PESZKA
M H PLOFNER
H PUESCHNER
KANT I PURDHIT
M RAHEISON
H E REESE JR
W J RYAN
H E SCHOCK JR
B R SCHWARTZ
DAN SHELLKOFF
WILLIAM A SHERIDAN
WILLIAM G SLOWIK
HAROLD E SPAULDING
JAMES F TALRUTT JR
R W TAVOSO
BENJAMIN W TERES
B TIGER
KARL L TWENSEN
DAVID I TROXEL
L J VANBASSELAERE
JAMES S VERDI
W A FISHER
ALFRED S WALL
WILLIAM R WALTZ
W T WEIR
E J WESTCOTT
MYRON A WILSON
H J WOLL
BRUCE F WOLLENBERG
H L WUERFFEL

PITTSBURGH

RAYMOND F CHICK
J T DALY
F T DAY
ASHOK D INGLE
C I JONES
CHARLES H KARR
A G POKRANT
GEORGE POPOVICH
J E PRIEST
JOHN S SHINCovich
W E SHUPSKY
T L STEPHENS
SOUTHERN NEW JERSEY
D A FISHER
A R MOSS
JOHN J WOJCIECHOWICZ

SUSQUEHANNA

H F DE FREES
J M FORMAN
HAROLD N HILLEGASS
R E MC NICKLE
BILLY MURPHY
J H WHITLEY

WASHINGTON

J D AHLGREN
WILLY S AHS
DONALD G ALBERTSON
ROBERT A ALDRICH
ROGER M ALLEN
C J ANDRASCIO
HAROLD ASCHER
CALVIN L BAKER
RONALD A BALLINGALL
K E BEILSTEIN JR
E B BELL
G L BEYER JR
R D BIRD
W B BISHOP
ALVIN C BLANKENSHIP
R J BOEILHO
JOSEPH M BRACEWELL
LFTIGHTON B BROWN
J W BRUSH
VLADIMIR I RUBNOV
P E CHESBROUGH
MAX H COGGINS
EDWARD J COHEN
R T COLANDRENE
JOHN E CONDON
A CONSTANTINIDES
WILLIAM T CRADDOCK
A J DELLINGER
D B DINGER
L M DORNEY
W A ELLIS
F E FROLE
IRWIN F FEIGENBAUM
J P FERRARO
F T FLOOD
J FONG
ERNEST H FORMAN
H J FOX
RICHARD W FRENIEP
J H FRITZEL
F G GALLAGHER JR
J R GARAFOLA
V E GARDNER
L C GILLS
LAWRENCE GOLDMUNTZ
PAUL GOTTFRIED
KURT GREENE
R C HAMILTON
HENRY N HARTT
ROBERT L HEUSER
L D HOCKING
R D HOLAROOK
J R HOLMES
M W HOROWITZ
WILLIAM J HUCK JR
J JANSEN
C M JAGUES
W R JENKINS
ERNEST R JERVIS
GARY R KAHLER
G J KATO
H J KENNEDY
YURI P KHOMENKO
GERARD F KIERNAN
D C KOCHENDORFER
A D KRALL
RICHARD F KYLE
KENNETH W LARSEN
W J RYAN
H E SCHOCK JR
B R SCHWARTZ
DAN SHELLKOFF
WILLIAM A SHERIDAN
WILLIAM G SLOWIK
HAROLD E SPAULDING
JAMES F TALRUTT JR
R W TAVOSO
BENJAMIN W TERES
B TIGER
KARL L TWENSEN
DAVID I TROXEL
L J VANBASSELAERE
JAMES S VERDI
W A FISHER
ALFRED S WALL
WILLIAM R WALTZ
W T WEIR
E J WESTCOTT
MYRON A WILSON
H J WOLL
BRUCE F WOLLENBERG
H L WUERFFEL

Region Three

ALABAMA

B D CARROLL
FRANK J MAHONEY 3RD

ATLANTA

ALLAN S COLF
R S DUGGAN JR
KEITH R HARRIS
ROBERT C HYERS
KENNETH D WARD

CANAVERAL

EARLE H BARBER
T M BARLOW JR
RICHARD A BEWERSE
C M BIRD
FREDERICK B BUONI
RONALD A COOPER
ROBERT H FUENEHAUSFN
CLARENCE GASTON
J J GRILLI
JACK HARRISON
ROBERT E HILTON JR
ROBERT J JEFFREY
D R LOVITT
JACK R LYKINS
THOMAS F NOVAK
FRANCIS R STIMP
C J VAN LEEUWEN
LEE R WEBSTER

CENTRAL VIRGINIA

R C KITCHEN
EDWARD G MENAKER
EDGAR CELKERS JR

CHARLOTTE

J A BRATOF

CHATTANOOGA

FRANK E ISRAILL

EAST TENNESSEE

DOUGLAS W ALDRIDGE
HUGH A MILLER
M WARKEN JR

EVANSVILLE-OWENSBORO

A WILLIAMS

FLORIDA WEST COAST

VICTOR K AUBREY
P H BETTS
EDWARD R BIONDI
C G BYRD
A J CARLTON
T G CLINTON
ROBERT P DALTON
J R DANGLER
W DE MIRANDA
RICHARD F FILIPOWSKY
WALDO R GERMAN
H L GOLDBERG
STEWART P GOLDIE
M R GONZALEZ
RICHARD W HART
H W HUNT
T G JACY
ERNEST F MC KENZIE
MARY F NCEL
M P SMITH
HAROLD Z SNYDER
BRUCE W SUTER
ALBERT A ZIMMERMAN

FORT WALTON

ALBERT A LOSCHIAVO

GAINESVILLE

DONALD L FRASER JR
ROGER W KRUMM
EGNHARD J MUTH

HAMPTON ROADS

RANDALL J CARRIER
JOHN W DENSON JR
HAROLD W DRYER
JOHN R MILLS
J W ROUZIE

HUNTSVILLE

K E BALL
K BLYTHE
DONALD L SINBACK
NOZER D SINGPURWALLA
ARTHUR R SIZEMORE
RONALD J SPEIGHT
H W STREET
ALFRED C STRING JR
MARUVADA SURYANARAYANA
J W THOMAS JR
D M THOMPSON
HENRY H VARHUS

Continued...

HUNTSVILLE
F S LYNN JR
DARRELL G LINTON
ARTHUR J MUELLER
ROBERT R PARKER
STEVEN F ROSING
D C SOLLBERGER
J A STANFORD
J R WHITE
SAMUEL WOLIN
JACKSONVILLE
J J BERRY
MEMPHIS
JIM HARKINS
JERRY E SNIPES

Region Four

CEDAR RAPIDS
E A HAREGEF
MILDRED A LAHR
A J SCOTT

CENTRAL ILLINOIS
JOSEPH E FYRER
W W GREEN
V H HAINS
K MC GEE
W J POPPELBAUM

CENTRAL INDIANA
H G BEAR
S D BICKEL
H E BRADLEY
G N BURKHART JR
K W DOWERSBERGER
CELSO L FORTOUL
PATRICK N JERRELL
CLIFFORD C PETERSEN
BETTY J RESENER
B D TAGUE
JOHN TEMONEY JR
DANIEL G WAYNE

CHICAGO
R T ANDERSON
E ARGOUDELIS
H D BERG
J E BRICK
C A BUSCHKE
P E CLAWSON
J F DE GROOTE
T J DUNSHEATH
H C EDWARDS
ROD J GARCIA
MORTON E GOLDBERG
F H HILBERT
G T JACOBI
R KAPOUN
HOWARD KATZ
STEVEN KRAVITZ
H E LENSE
W G LESLIE
M S LINDBERG JR
A LOCK
HENRY A MALEC
H L MARSZALEK
SHAW H MATTHEWS 3RD
P A MIHALKANIN
RICHARD F NISS
D C OLIVA
F D REESE
ROBERT M SCHARDING
RAYMOND L SCHIRMER
JOHN H SIMM
ROBERT S SISLER
D S ITHY
OM P SRIVASTAVA
C W N THOMPSON
T R ULM
G VLACH
E L WILSON
STEPHEN S YAU
R H YERKE

MISSISSIPPI
ALVIN L SLAYTON
NASHVILLE
R F SCHULTS
NEW ORLEANS
G J FOUNDAS
PAUL H KAEPPLE
JAMES B SENNETT
ORLANDO
JOHN A BAUER
L R BROWN
EDWIN J LEMANSKI
PHILIP A TONEY
PALM BEACH
STEVEN KARLIK JR
PANAMA CITY
LYLE BURNETT
VIRGINIA MOUNTAIN
BENJAMIN S BLANCHARD
ORMAN K CLSEN
JOHNNY E SARTIN

AFFILIATION OF S.C.
SECTION

COASTAL SOUTH CAROLINA
RONALD E COFFEY
E K WIMPY
PIEDMONT
H V DE MATOS

AFFILIATION OF N.C.
SECTIONS

CENTRAL NORTH CAROLINA
H E COBB
RALPH E KUEHN
JAMES H PATE

EASTERN NORTH CAROLINA
JAVAD S CHITSAZ
RALPH EVANS
EUGENE C KOONCE JR
ANDREW F SETLA

MILWAUKEE
J A BECKER
J C BOUTON
R C CASE
JOHN J ERB
KENNETH GOLDSTEIN
F KOVACHIK
DAVID B MARCINIAK
PATRICK F MC KAY
R C NIERENDORF
A PAALU
RICHARD E RTERS
LOUIS W SMITH

NEBRASKA
WAYNE J FLICKINGER
H A KELLER
RICHARD LEEFK
WILLIAM A SHORTT

NORTHEAST MICHIGAN
WILLIAM HOLL

NORTHEASTERN WISCONSIN
R C BALES

ROCK RIVER VALLEY
C W ANDERSEN
R J WEIHERMAN

SOUTH BEND

ROBERT E RAYMOND
DARWIN F SIMONAITIS
EDWARD J WOODFIN

SOUTHEASTERN MICHIGAN
DENNIS M BRINK
D U BROSTE
C J GARRE
E D GILBERT
RICHARD M GRNYA
THOMAS C HAEUSLER
JAY W HALL
CLARENCE E HARRISON JR
JACK E HUNSICKER
MICHAEL W MC CALLUM
JAMES E MC GRATH
HENRY H MILSON
R H MYERS
TODD L RACHEL
A J ROUSSEAU
CELSO L FORTOUL
PATRICK N JERRELL
CLIFFORD C PETERSEN
BETTY J RESENER
B D TAGUE
JOHN TEMONEY JR
DANIEL G WAYNE

SOUTHERN MINNESOTA
CHARLES C BERGHOFF
JOSEPH K MC LAUGHLIN
TOLEDO
S T JUTILA
LARRY J SCHMERSAL
W Q WAGNER

TWIN CITIES
F D BARKER
A G BEZAT
DAVID M BROWN
JOHN W CENTER
R D GJERTSON
DAVID M HACKL
DEAN L HOOPER
V M JORDAL
PREDRAG KOVIJANTIC
BERNARD KOZBERG
GARY C KULBITSKI
LAWRENCE D LEE
L G LINDGREN
D W LOWRY
H W LUEDTKE
R L MARTIN
D F MILLER
P L MORAWETZ
RICHARD J NEWELL
STEPHEN J PECH
HAROLD A PEDERSEN
R F RAPPTEL
PETER W RAUEN
JOHN W READ
JANICE T TUTTLE
J P VAN OSS
L WERNER
GERALD I WILLIAMS

WEST MICHIGAN
EUGENE L BOBIK
D M HESLING
DALE A NOTERBOOM
RICHARD H PIPE
L M YIKE

FORT WAYNE
SONG PAI LEE
D J RANSCOM
ALAN R SHOWALTER
WILLIAM L ULLOM

ILLINOIS VALLEY
D BUER SCHINGER

IOWA-ILLINOIS
H H GATTNER
VLADIMIR P SEMIENKO

MADISON
JOHN KRISSEL
KURT J LAWLER

MILWAUKEE
J A BECKER
J C BOUTON
R C CASE
JOHN J ERB
KENNETH GOLDSTEIN
F KOVACHIK
DAVID B MARCINIAK
PATRICK F MC KAY
R C NIERENDORF
A PAALU
RICHARD E RTERS
LOUIS W SMITH

NEBRASKA
WAYNE J FLICKINGER
H A KELLER
RICHARD LEEFK
WILLIAM A SHORTT

NORTHEAST MICHIGAN
WILLIAM HOLL

NORTHEASTERN WISCONSIN
R C BALES

ROCK RIVER VALLEY
C W ANDERSEN
R J WEIHERMAN

Region Five

CENTRAL TEXAS
ROBERT J CARLISLE 3RD
LEWIS S FOUNTAIN
W A HEWLEY
DONALD J KOSCO
RICHARD M SOLANO
S A SZYGENDA

DALLAS
J L ALLENSWORTH
GENE J BARTSCH
CARL J RENNING
W R M BIRKHALTER
CHARLES N BUTLER
F E CHEW
DAVID CLIFTON
J L FIKI
WILSON W FORTNER
ROBERT C FRINK
RICHARD B HASTINGS
J D E HASTY
D R HOFFMAN
ROBERT J JONES
RICHARD G KARM
A J KOELLING
J W LANGSTON
J L LESLIE
WILLIAM J NILES
JERRY L BENOIR
W C PITTS JR
P R SANDERS
J E SANDRIDGE
H F SCHANTZ
C M SCHWALM
CHARLES R THOMAS
R W WATSON
JAMES W WATTS
RAYMOND E WILSON

DENVER
JOHN R ADAMS
RYRON D ASHRY
P G BAIRC
ALBERT D BARNES
DOUGLAS A BENZEL
R A DINZL
FREDRIC G FLETCHER
D L HOWARD
HOMER A JEFFERS JR
LARRY G KEATING
ROGER A LONG
RAY A MAGNUSON
R C SCHEAFER
R M SHUFFLER
M J SHUMAKER
P R SIGNORELLI
R M WAINWRIGHT
JACK M WATSON

EL PASO
FEDERICO BERNAL
PETER O OLSON
A J RACE
J J RUCKS
ANTONIN WOOD

FORT WORTH
MANFRED SCHOPER

HOUSTON
ABDELKADER D AYOUB
HOMER J HARKER
PATRICK J HASTY
SAMUEL J KEENE JR
B J NANKERVIS
A D PATTON
JOHN C REESER
A C SKELLIE
JAMES C SMITH JR

KANSAS CITY
ARTHUR M BREIPPHL
ROY E BRUNSON
WILLIAM H CURD JR
CHRIS D FEDDE
RAYMOND L FRENCH
DORIS GROSS
LELAND R JOHNSON JR
RICHARD L MC KINNEY
K L MORTON

OKLAHOMA CITY
B B BODENDORF
D A TODD

SAINT LOUIS
GERALD GARDEN
W R CUTHILL
D S CZEKANSKI
LINDON C FINLEY
D R JANNING
G M JOHNSON
DENNIS P KOCH
FRED KORTRIGHT
ATLURI R KUMAR
FRANCIS P MATHUR
J J MC GARRY JR
KEYHAN MCLAVI
J H MUTCHEK
RAYMOND J NEVENNER JR
C G RIEPL
J H SCHMICKLEY
W B SHELLEY

SAN DIEGO
E M BARNES
VERNON A BLUHM
ARNOLD BFOUNSTEIN
C BURGI
MARTIN CADEMY
B R CORSON
F P HOLMAN
B T IWATA
IRWIN M JACOBS
M F KRIPP
W A MILLER
EDWARD R MORRISON
W G NAGY
ROGER G NEWELL
NICHOLAS PANOS
W F PICKETT

PORTLAND
R H CARPENTER
JAMES W DEER
J D GRIMES
VAL S LAVA
R A POULIN
CARLYLE SCHWARTZ
R E SHOW
J L STOLL

RICHLAND
M L FAUGHT
F J OBLACK

SACRAMENTO
R W ANDERSON
P J DUGAL
JAMES L FUND
A F HOFFLICH
T T KISHARA
G G NORTH
PATRICK REYNOLDS

SAN DIEGO
E M BARNES
VERNON A BLUHM
ARNOLD BFOUNSTEIN
C BURGI
MARTIN CADEMY
B R CORSON
F P HOLMAN
B T IWATA
IRWIN M JACOBS
M F KRIPP
W A MILLER
EDWARD R MORRISON
W G NAGY
ROGER G NEWELL
NICHOLAS PANOS
W F PICKETT

M STITCH
T SIJMERLIN
J R TUDDOR
TONY VILLARI

SHREVEPORT
J T MILLER

SOUTH PLAINS
P B NEAL

TULSA
J E HANKINS
P D JOHNSON
L V LEGG
JOHN QUINN 4TH

Region Six

ALBUQUERQUE
P H BIRCHER
CHANG-C CHENG
ROBERT HUTCHINS
L J PADDISON
C H PURDUE
E M RORY
M SUNDT
H E WALKER
J D WILLIAMS

FORT HUACHUCA
DAVID E MARTIN
WALTER F WAGNER JR

HAWAII
GENESON COLOMA
STEVEN P GOUBEIA
KATSUJI HOSOKAWA
CLARENCE K KIURO

IDAHO
G W YOUNG

LAS VEGAS
DOUGLAS E PROCTOR

PHOENIX
P C BOYD JR
R D BRADLEY
MELVIN D BRAMAN
ROBERT G COOK
RANDALL C COOK
GLENN E EVENSEN
WILLIAM T FITCH
T J GLEICHAUF
T H GREER
M C HALLECK
THOMAS H HOWELL
M C JENSEN
R L JONES
H P KENYON JR
D G MARK
V I MINKEL
DANIEL E NORLE
LOUIS PLOTKIN
R E SAMUELSON
FRANK A SCHNEIDER
W L STEINMANN
ROBERT M WARHOLA

PORTLAND
R H CARPENTER
JAMES W DEER
J D GRIMES
VAL S LAVA
R A POULIN
CARLYLE SCHWARTZ
R E SHOW
J L STOLL

RICHLAND
M L FAUGHT
F J OBLACK

SACRAMENTO
R W ANDERSON
P J DUGAL
JAMES L FUND
A F HOFFLICH
T T KISHARA
G G NORTH
PATRICK REYNOLDS

SAN DIEGO
E M BARNES
VERNON A BLUHM
ARNOLD BFOUNSTEIN
C BURGI
MARTIN CADEMY
B R CORSON
F P HOLMAN
B T IWATA
IRWIN M JACOBS
M F KRIPP
W A MILLER
EDWARD R MORRISON
W G NAGY
ROGER G NEWELL
NICHOLAS PANOS
W F PICKETT

Continued...

SAN DIEGO

WILLIAM A PLOCK
KEITH N SARGENT
J P SILVERSTEIN
ALONSO E SWITH
G L STIEHL
ROBERT J STOKELY
RICHARD J TOMMEY
RODGER E TURNAFF JR
SELAN K VEISEL
F VIRGADAMO
W I WOOLFORD
T W WRIGHT

SAN FRANCISCO
W R ARBOTT
J R ALLGATER
J K AMUNDSON
ROBERT L ANDERSEN
M H BAER
ARTHUR E RAYCE
R N BEAN
R C BECKLUND
WILLIAM J BEECHER
R A BLOCKINGER
BARRY R BORGERSON
G BOWERS
HOWARD H BRAUER
JAMES T BROTHERS
MICHAEL BUCHER
BERTRAM W BURRIS
H R CALDWELL
FRANK C CAMERON
F C CASSETTARI
KING S CHAW
WILLIAM CHOW
GEORGE O COMPTON
A D CONNER
RICHARD C CORNWELL
W P CRAINE
E S DEAN JR
WILLIAM S DRUMMOND
A P EGERMAN
T H FLAM
DOUGLAS G FAIRBAIN
W L FINCH
R A FOLSON JR
L G REDERICK
WARREN GELLER
P J GILLOT
FREDERICK M HALF
HANS W HANSEN JR
BRUCE J HARRIS
DEXTER HARTRE
J D HOFFMAN
R M HUBBARD
DONALD J HUISMAN
DOROTHY A HUTSON
T H JACOBS
JULIANNE J JEDEKA
S E JOHNSON
F KAPLOFF
ROBERT C KARPEN
CARL H KATO
KENNETH C KELLY
V G KIDD
C R KIME
JAMES H KING JR
THOMAS J KING
MELVIN R KLINE
L D LANE JR
C E LEAKE
R E LEE
HERBERT T LIM
ROBERT O MAGATAGAN
W R MALDON
R E MANKWANG
HOMER H GRANT JR
G HENSEL
L K LEE
JOHN R MALSON
SAT T SUNG
G W YIM

SEATTLE
GORDON J ROETTCHER
ROBERT J RURNS
W E CURRIE
RICHARD A DRAWZ
VANCE T FAGAN
W FLOWER
ROBERT GIESE
A F HIXENBAUGH
JOSEPH A KALIN
VICTOR T KALATA
J W MICKEL
DAVID M MOOSE
R E PATRICELLI
KI PUNCHES
DWIGHT H SAWIN 3RD
W F THISIUS
P S THOMAS

SPOKANE
LOUIS E SIMS

TUCSON
ROBERT E DAVIES JR
RICHARD C HARRIS
DIMITRI KECECIOGLU
H KOERNER
V M LOCKWOOD
A A ST GERMAIN

UTAH
ALFRED G BULLETT
LEON E SABINE

LOS ANGELES COUNCIL
BUENAVENTURA
F W BAIJGARTNER
JOHN A BORDERS
PAULO S CASTILLO JR
J A CONNOR
ROY E DEEM
C M DE WITT 3RD
J L GLASS
R W JACK
ALEXANDER PALOS
P PERINGER
I E WALENTA
ROBERT A YOUNG

CHINA LAKE
WILLIAM A MARSH

FOOTHILL
RICHARD L CRAMER
JOHN B CYRILACTS
D M GOODMAN
J F GRAY
B W GRIER
G W HENNESSY
DENNIS D HUFFMAN
FRED KRALL
C A KROHN
VIRGIL L LOVITT
DONALD G MAC DOUGALL
D E NISSEN
M E SANDELL
DONALD S TOOMB
G W WOOD

MET. LOS ANGELES
GERALD W BOTTRELL
EUGENE W COLEMAN
IRVING DUGATCH
DAVID K FUNG
HOMER H GRANT JR
G HENSEL
L K LEE
JOHN R MALSON
SAT T SUNG
G W YIM

ORANGE COUNTY
M F ADAM
K W ANDERSON
JOHN ROZANIC
JOHE E COOLIDGE
C F DEININGER
STANLEY R DEMES
B J DI NARDO
JOHN R DONAN
DAVID W ELY
A EPP JR
DONALD L EWING
D C FLEMING
J G FOUNTAIN
F C FRIEDT
LESLIE FUNG
J ROBERT FUNK
A FURSA
B J GAUDREAU
PATRICK E KENNEDY
PAUL R KING
THEODORE LAVOOT
C T LEE
DON H MATSUMIYA
JAMES L MAYRELL
DOUGLAS E MC CORMAC
C M MILLER
JEAN R MILLER
J R MATEGA
A R PARK
ELMER PHIBBS
GENE R POTTER
JOHN C PROUDFIT

SANTA BARBARA
ROBERT A ANDERSON
DAVID A HILL
GEORGE J HUDAK
ROBERT J MC MILLIN
WILLIAM OLIVERI
CLAUDIA H SCOTT
C N STOLL
WAYNE R SUTTON

SANTA MONICA BAY
ROBERT ARANY
A AVIZIENIS
F I BIEN
C R DERNHAM
JOHN DOSHAY
THOMAS M DRNAS
T G EDDY
SAMUEL D FALAKI
JACK E FORT
ROBERT H GACA
D W GADE
A L GICHTIN
E J GOZZI
BERNARD HATHAWAY
JOHN C KINZEL
G F LAULE
ROBERT G MCINTURFF
GEORGE W NOLDE
ALLAN D PACKLER
R A RODRIGUEZ
HERMAN D RUE
ALBERT H SAMUELS
G S SEKELY
R C TERZIAN
MARY D THOMPSON
H B WATERMAN

SOUTH BAY HARBOR
FRED G ALBRIGHT
ROBERT S BABIN
RICHARD A BRUCE
R J CARY JR
WILLIAM F CASHIN JR
ROBERT B CHAMBERLATIN

SAN GABRIEL VALLEY
CONSTANTINE S ANANIADIS
WILFRIED B BARTEL
H BOICE JR
D E BROWN
CHARLES K CHEN
R F CLINE
H S DODGE
R D JABLONSKY
J KLIMBERG
FRANK A MACALUSO
H MAYER
RALPH E WEST
J T WILSON

Continued...

SEATTLE

GORDON J ROETTCHER
ROBERT J RURNS
W E CURRIE
RICHARD A DRAWZ
VANCE T FAGAN
W FLOWER
ROBERT GIESE
A F HIXENBAUGH
JOSEPH A KALIN
VICTOR T KALATA
J W MICKEL
DAVID M MOOSE
R E PATRICELLI
KI PUNCHES
DWIGHT H SAWIN 3RD
W F THISIUS
P S THOMAS

SPOKANE
LOUIS E SIMS

TUCSON
ROBERT E DAVIES JR
RICHARD C HARRIS
DIMITRI KECECIOGLU
H KOERNER
V M LOCKWOOD
A A ST GERMAIN

UTAH
ALFRED G BULLETT
LEON E SABINE

LOS ANGELES COUNCIL
BUENAVENTURA
F W BAIJGARTNER
JOHN A BORDERS
PAULO S CASTILLO JR
J A CONNOR
ROY E DEEM
C M DE WITT 3RD
J L GLASS
R W JACK
ALEXANDER PALOS
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WILLIAM F CASHIN JR
ROBERT B CHAMBERLATIN

Continued...

RALPH RANALLI
JERRY R REAM
ALFRED R ROBINSON JR
JULIAN ROSENBAUM
W G RUNGGAITIS JR
HENRY S SAKAI
C WYDE SAMPSON
BRUCE E SHARP
J E SWISTOK
J E VALSTAR
G H WELLS
ROBERT E WOOD
R F YODER

SAN FERNANDO VALLEY
EDWARD J ALTHAUS
H J BARR
L M BAUM
I RAZOVSKIY
T N BOWERS
E D COCHRAN
J E COCHRAN
JEROME L DEITZ
D EDGERTON JR
ZANTINE GREENWOOD
ANDREW C GUNTER
J A HARRINGTON
P L HILLMAN
WILLIAM J HODGES
JAMES E HOUSTAD
S J HORNBYAK
J R ISKEN
HERBERT G JACKS
K KASAI
LAWRENCE A KAUFMAN
G F KUJAWSKI
W X LAMR
RALPH A LAMM
G R LANE
L W MATONAK
J C MC ADAM
D R MEYER
Z MILUNAS
D M PAYNE
STAN PRO
T QUART
W M QUINN
SAMUEL M RICE
D R RINGOLD
G L ROBERTSON
L G SANDERSON
JEFFREY B SCHNEIDER
J H SCHULMAN
WILLIAM F SMITH
D SWISHER
JOHN VISSER

SAN GABRIEL VALLEY
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H S DODGE
R D JABLONSKY
J KLIMBERG
FRANK A MACALUSO
H MAYER
RALPH E WEST
J T WILSON

SANTA BARBARA
ROBERT A ANDERSON
DAVID A HILL
GEORGE J HUDAK
ROBERT J MC MILLIN

FRANCE

B P JOLY
MICHEL KARSKY
W MAZEL
DANIEL A MOREAU
P P NAMIAN
A OJDARD
J C PELPEL
M J H PONTE
MAURICE QUIOT
ANDRE RAULT
PIERRE RENARD
J H ROBIEUX
JEAN J SAMUELI
A SARAZIN
JEAN A SUAU
PIERRE J TOURNOIS
F P VALENTIN

GERMANY (WEST)

ALFRED BECKER
C W BUSCH
GOTTFRIED FARWER
HELMUT GETSSLER
J HENRICI
BERND K KNOERR
W H SCHOENFELD
HEINZ SCHWARZER
HANS STRACK
G ULBRICHT
GUNTER G WERER

GREECE

JOHN HATZIS

IRAN

M Y AFSHAR
YADOLLAH PARVIZI

ISRAEL

D AVIVI
YAKOV BEERY
DOV BIRAN
URI BLOCH
DAVID BRONSTEIN
E CASPI
MELVIN H COHEN
M DISHON
U GALIL
J GILAT
ELIEZER J LEVY
F MARIUS
GURION MELTZER
RUBEN OREN
S SAMUEL
MEYER B SHULMAN
D SPIRA
D TABAK
CLARA WIDRO
JOSEPH ZADICARIO

MIDDLE & SOUTH ITALY

MARIO BRUNELLI
ILIO E CAPPETTI
GIUSEPPE CIRILLO
CATELLO D AURIA
ELIO A FAGNONI
G GOMMELLINI
T LEARDINI
UMBERTO MENGALI
DINO OLIVETTI
U PIZZARELLI
C ROMAGNOLI
GIORGIO STRINI
U TIRERIO
A ZANINI

NORTH ITALY

ETTORE ACCENTII
LUIGI RONAVOGLIA
LINO BCFANTINI
GIANCARLO BONGHI
A CIARAMELLA
G COTTAFAVA
GIORGIO DE LOTTO
A D DEROSSI
G DE VITO
C EGIDI
P G MORRA
G E PERONA
PAOLO L PERONI
G QUAZZA
LUIGI RIVARA
P SCHIAFFINO
GIAN F COMMAZZOLLI
GUIDO VANNUCCHI
ANTONIO VANZI
GUIDO P VULPETTI
C ZANELLI

NORWAY

DAG T GJESSING
PER J JORGENSEN
ERIK MACK
K R MEISINGSET
K E SORRYE
O J TVEIT

POLAND

TADEUSZ CIBOROWSKI

SPAIN

RICARDO ALVAREZ-ISASI
JUAN I ASTN
JORDI G AYZA
G G CASTRO
ANTONI CZECHOWSKI

J A DE ARTIGAS SANZ
JUAN A DEL GIORGIO
NARCISO GARCIA-REDONDO
VALENTIN M PARRA
JOSE I PASTOR
PEDRO SANZ
RICARDO VALLE-SANCHEZ

SWEDEN

L AROSFNUS
SVEN CHRISTENSSON
A V EHNBERG
STELLAN EKBERG
A L ELFVING
S G GERTZELL
S G GRANLER
LENNART GUSTAFSSON
PETTER HESSEN
G JANCKE
L KARLSTEDT
MAGNUS KOCH
G LINDSTROM
L E LOFGREN
G A MARKESJO
R N NILSSON
LARS F NORLIN
JAN-PETER OCKLIND
A J OLSSON
O PERERS
T P PERSSON
D RAMSKOLD
S SJOGREN
P G SOLDERS
H B THOREN
PAUL VAN GEMST
LARS G VITRSBERG
G WEDELL
AKE WERNERSSON
GUNNAR WIDEROTH

SWITZERLAND

A E BACHMANN
JEAN C REUCHAT
A BIRLOTTI
F EGGIMANN JR
H A ELSNER
HEINRICH H ERNI
M P FORRER
HEINZ H FREY
JOHANNES A GUTMANN
RONALD J HUG
STEFAN M KUDELSKI
GUIDO J LANG
M A MEYER
ROLAND MEYLAN
MAX J MILZ
R F OXLEY
I SCHERRER
RAINER SCHICK
M STRUTT
H E THIEMANN
WILLEM G VAN DER TOUW
D H VAN ZUYLEN
R P WELLINGER
A J ZEIER

UNITED KINGDOM &
REPUBLIC OF IRELAND

D ASHBY
EDWARD S ATKIN
RONALD A BARRS
ROGER G BENNETTS
P CARMICHAEL
N J CLARK
ANTHONY L CONSALVI
C S DEN BRINKER
G W A DUMMER
ROGER FROW
I G GILROY
A R HALFORD
R JENSEN
ERIC W KIRK
IAN KIRKPATRICK
NOEL J MACGREGOR
MAURICE H MC FADDEN
M A MILLWARD
R H MURPHY
J R PCLLARD
H G K SCHOTTEN
PATRICIA L SHOVE
ANTHONY J B SWAIN
RICHARD J VOWLES
Z F VOYNER
J WELSH
M F WHITE
J E WILKS
K F WILLIAMS
A G WILSON

YUGOSLAV

FRANK KRANJC
J VIRANT

NO ESTABLISHED SECTION

MOSA N ALI
GYORGY ALMASSY
VACLAV CHLOUBA
F W GUNDLACH
VACLAV POLIVKA
W W RIEDLER
SAIYYAD M SALEEM MOINI
L SZANTO

Region Nine

ARGENTINA

FRANCO CAGNASSO
EDUARDO A LAPADULA
GUILLERMO H MAROTTA

CENTRAL AMERICA

CHARLES V LEWIS

COLOMBIA

FERNANDO REY-URIBE

MEXICO

JORGE ANGELES-ALVAREZ
J A ESTEVA
CARLOS P GUTIERREZ
LORENZO G JULIEN
MARIO T LANG
CARLOS NUNEZ A
GUILLERMO RIVERA
OSCAR L ROCHIN
LARS M RUNBECK

PERU

JOSE S GAMERO
JOIME J GRANDEZ-GOMEZ
JOSE F LOAYZA
J A PRADO
OSCAR M RENTEROS

PUERTO RICO &

VIRGIN ISLANDS

GERALD J HADDOCK

VENEZUELAN

LUIS E AGUILAR
CARLOS E ALVAREZ B
MANUEL FLINT-HALPERN
PAUL J SMYTH

NO ESTABLISHED SECTION

R RAMPERSAD

BRAZIL COUNCIL

RIO DE JANEIRO

NICHOLAS BROOKING
RAJIL COLCHER
M F LIPPINCOTT
SILVA T MOURILHE
JACY F PINTO

SAO PAULO

MIGUEL J ABDALLA
A COHEN
F DE MENDONCA
JOSE KOVACS
FUMITAKA NISHIMURA
PEDRO SAVADOVSKY
F L SHERMAN
ANGELO VIAN

Region Ten

AUSTRALIAN

ROGER L BOLDEN
LOUIS W DAVIES
R J C DAVIES
ROGER F EVANS
ANGUS FOWLER
ROSS A GAWLER
HSUEN-REN HWA
F P LEVI
R J MORGAN
SELWYN V RUSSELL

HONG KONG

K W SCHOLZ
CHING LAI SHENG

INDIA

C D GANDHI
MANGHO J KIRPALANI
K B MISRA
G P NAGARKAR
V S NAZIR-AHMED
JAY D SHARMA

NEW ZEALAND

L F BENNETT

TOKYO

EIZO ABE
OSAMU ABE
KENICHI AIHARA
MORIO AKIYAMA
TADAHIKO AKIYAMA
KASABURO AMAKASU
FUMIO ANDOW
SABURE AOTI
YOSHIMASA AOKI
KIYOSHIGE ECHIKAWA
YOSHIKAZU FUJINO
MASAO FUKATA
MITSUO GEN
KOOSUKE HARADA
KIYOHITO HASHIGUCHI
KAZUMASA HIRAI
HARUO HIROSE
KOJI HIROSE
KOICHI HOSOKAWA
MASARU IBUKA
MASAO IDE
YOSHIO IHARA
KUNIZO IWAMOTO
SHINGO IWASE
NOBORU IZEKE
IKUZO IZUMI
SADAHIKO KATO
TADASU KAWANO
MATSUNAGA KINASE
SHUNKICHI KITASAKI
DAIJIRO KOBAYASHI
TETSUJI KOBAYASHI
SATARO KENNO
OSAMU KONOSU
GENZABURO KURASHI
K KURODA
MITSUO KUSANO
SHIGEYA KUWABARA
KUNIO MANO
TAKENOBU MATSUMURA
MASAO MATSUO
FUMIO MINOZUMA
SHOICHI MITANI
SHOTA MIYAIRI
TAKEO MIYATA
E MIYAZAWA
MITITADA MORISUE
KEITARU MORITA
TOKIO MUTO
YUKIO NAKAGOME
JIRO NAKAMURA
HIDEO NAKANO
OSAMU NISHINO
YASUJIRO NIWA
TSUTOMU NOMURA
NOBUO NUMASAKI
M NUMOTO
SUKIRO OBATA
NORIOMI OCHIAI
NAOYUKI OGASAWARA
SHINCHIRO OGAWA
KANICHI OHASHI
TOSHIMI OHKUBO
TAKASHI OHKA
KENZO OKUDA
TSUNEHIKO OKURA
SHUNICHI OMORI
KOICHI OSHIMA
SEIGO OUCHI
KEN-ICHI OWAKI
YONG J PARK
YUKIHARU SAMESHIMA
MASAFUMI SASAKI
T SAWAMURA
HIDEO SHIMA
CHOSUKE SUGI
MASAHIRO SUZUKI
IKUO TAKEDA
MASATAKA TAKEDAI
OKADA TAKEO
IKUO TANAKA
KATSUSHI TANAKA
FUSAO TANIGUCHI
HIROTSUGU TAOKA
KAZUMA TATEISHI
N TATSUMI

KAZUTO TOGINO
RYUICHI TOMIYASU
MASAHI TOMONO
KISHIO TSURU
YOSHIHIRO TSUNODA
MASAMI UCHINAMI
YOSHIHIKO UEMURA
TERUHIRO UMEZU
HAJIME YAMAGUCHI
MASARU YAMANO
KENJI YAMAUCHI
DAIGORO YASUKAWA
H YOKOHAMA
S YOSHIDA
TSUGUO YOSHIDA
TAKEO YOSHINO

OVERSEAS MILITARY

GEORGE S BRYAN
LARRY L BURK
D K CHURCH
NORMAN L CRAIG

NO ESTABLISHED SECTION

INKU KANG
NAM K LEE
WU-IL LEE
GIL S SULLIT JR
PHILIP M TURBITT JR
S C VICHAI
TAE S YIM