

## APPENDIX A

### National Science Board, Staff, Committees, and Advisory Panels

#### NATIONAL SCIENCE BOARD

*Terms Expire May 10, 1968*

- \*HARVEY BROOKS, Gordon McKay Professor of Applied Physics and Dean of Engineering and Applied Physics, Harvard University, Cambridge, Mass.
- RUFUS E. CLEMENT, President, Atlanta University, Atlanta, Ga.
- HENRY EYRING, Professor of Chemistry and Metallurgy, University of Utah, Salt Lake City, Utah.
- \*PHILIP HANDLER (Chairman), James B. Duke Professor and Chairman, Department of Biochemistry, Duke University, Durham, N.C.
- KATHARINE E. McBRIDE, President, Bryn Mawr College, Bryn Mawr, Pa.
- EDWARD J. McSHANE, Professor of Mathematics, University of Virginia, Charlottesville, Va.
- EDWARD L. TATUM, Professor, The Rockefeller University, New York, N.Y.
- \*RALPH W. TYLER (Vice Chairman), Director, Center for Advanced Study in the Behavioral Sciences, Stanford, Calif.

*Terms Expire May 10, 1970*

- MARY I. BUNTING, President, Radcliffe College, Cambridge, Mass.
- H. E. CARTER, Head, Department of Chemistry and Chemical Engineering, University of Illinois, Urbana, Ill.
- JULIAN R. GOLDSMITH, Associate Dean, Division of the Physical Sciences, University of Chicago, Chicago, Ill.
- WILLIAM W. HAGERTY, President, Drexel Institute of Technology, Philadelphia, Pa.
- HARVEY PICKER, President, Picker X-Ray Corp., White Plains, N.Y.

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\*Member Executive Committee.

MINA S. REES, Dean of Graduate Studies, The City University of New York, New York, N.Y.

JULIUS A. STRATTON, Chairman of the Board, The Ford Foundation, New York, N.Y.

F. P. THIEME, Vice President, University of Washington, Seattle, Wash.

*Terms Expire May 10, 1972*

CLIFFORD M. HARDIN, Chancellor, University of Nebraska, Lincoln, Nebr.

CHARLES F. JONES, President, Humble Oil and Refining Co., Houston, Tex.

THOMAS F. JONES, Jr., President, University of South Carolina, Columbia, S.C.

\*ROBERT S. MORISON, Professor of Biology and Director, Division of Biological Sciences, Cornell University, Ithaca, N.Y.

E. R. PIORE, Vice President and Chief Scientist, International Business Machines Corp., Armonk, N.Y.

JOSEPH M. REYNOLDS, Vice President for Research, Louisiana State University, Baton Rouge, La.

ATHELSTAN F. SPILHAUS, Professor of Physics, University of Minnesota, Minneapolis, Minn.

RICHARD H. SULLIVAN, President, Reed College, Portland, Oreg.

*Member Ex Officio*

\*LELAND J. HAWORTH, Director, National Science Foundation, Washington, D.C. (Chairman, Executive Committee).

\* \* \*

VERNICE ANDERSON, Secretary, National Science Board, National Science Foundation, Washington, D.C.

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<i>Executive Assistant</i> -----	ROBERT W. JOHNSTON
<i>Deputy Director</i> -----	JOHN T. WILSON

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<i>Associate Director</i> -----	RANDAL M. ROBERTSON
<i>Deputy Associate Director</i> -----	EDWARD P. TODD
<i>Senior Staff Associate</i> -----	RAYMOND J. SEEGER

\*Member Executive Committee.

\*\*As of December 1966.

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<i>Program Director for:</i>	
<i>Developmental Biology</i> -----	LEONARD NELSON
<i>Genetic Biology</i> -----	HERMAN W. LEWIS (Acting)
<i>Section Head for Environmental and Systematic Biology</i> -----	ROBERT K. GODFREY
<i>Program Director:</i>	
<i>Environmental Biology</i> -----	ROBERT F. INGER
<i>Systematic Biology</i> -----	ROBERT K. GODFREY (Acting)
<i>Section Head for Molecular Biology</i> -----	EUGENE L. HESS
<i>Program Director for:</i>	
<i>Biochemistry</i> -----	DAVID W. KROGMANN
<i>Biophysics</i> -----	EUGENE L. HESS (Acting)
<i>Section Head for Physiological Processes</i> -----	DAVID B. TYLER
<i>Program Director for:</i>	
<i>Regulatory Biology</i> -----	DAVID B. TYLER (Acting)
<i>Metabolic Biology</i> -----	JOHN E. NELLOR
<i>Program Director for:</i>	
<i>Psychobiology</i> -----	JOHN F. HALL
<i>Facilities and Special Programs</i> -----	JACK T. SPENCER

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<i>Division Director</i> -----	JOHN M. IDE
<i>Program Director for:</i>	
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<i>Engineering Energetics</i> -----	R. E. ROSTENBACH (Acting)
<i>Engineering Materials</i> -----	ISRAEL WARSHAW
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<i>Engineering Systems</i> -----	GILBERT B. DEVEY
<i>Special Programs</i> -----	M. S. OJALVO

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<i>Division Director</i> -----	T. O. JONES
<i>Executive Officer</i> -----	G. R. TONEY
<i>Chief Scientist, Office of Antarctic Programs</i> -----	A. P. CRARY

*Division Director—Continued*

*Chief Scientist—Continued*

*Program Director for:*

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<i>Antarctic Atmospheric Physics</i> ---	RAY R. HEER, JR.
<i>Antarctic Earth Sciences</i> -----	MORT D. TURNER
<i>International Cooperation and In-</i> <i>formation</i> -----	HENRY S. FRANCIS, JR.
<i>Field Requirements and Coordi-</i> <i>nation</i> -----	PHILIP M. SMITH

*Section Head for Atmospheric Sciences*— FRED D. WHITE

*Executive Secretary for Interdepart-*  
*mental Committee for Atmospheric*  
*Sciences* ----- SHERMAN W. BETTS

*Program Director for:*

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<i>Meteorology</i> -----	EUGENE W. BIERLY
<i>Solar-Terrestrial Research</i> -----	CLAYTON CLARK (Acting)
<i>Weather Modification</i> -----	PETER H. WYCKOFF

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*Program Director for:*

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<i>Geology</i> -----	RICHARD G. RAY
<i>Geophysics</i> -----	ROY E. HANSON
<i>Oceanography</i> -----	JOHN V. BYRNE

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*Executive Assistant*----- ANDREW W. SWAGO

*Section Head for Astronomy*----- GERARD F. W. MULDER

*Program Director for:*

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<i>Radio Astronomy</i> -----	EVERETT H. HURLBURT

*Section Head for Chemistry*----- M. KENT WILSON

*Program Director for:*

<i>Analytical and Inorganic Chemis-</i> <i>try</i> -----	OREN F. WILLIAMS
<i>Organic Chemistry</i> -----	DONALD A. SPEER
<i>Physical Chemistry</i> -----	RONALD E. KAGARISE

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<i>Program Director for:</i>	
<i>Algebra and Topology</i> .....	RALPH M. KRAUSE
<i>Analysis, Foundations, and Geometry</i> .....	MATTHEW P. GAFFNEY, Jr.
<i>Applied Mathematics and Statistics</i> .....	WILLIAM H. PELL
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<i>Section Head for Physics</i> .....	WAYNE R. GRUNER
<i>Program Director for:</i>	
<i>Elementary Particle Physics</i> .....	J. HOWARD McMILLEN
<i>Elementary Particle Physics Facilities</i> .....	JEROME H. FREGEAU
<i>Nuclear Physics</i> .....	WILLIAM S. RODNEY
<i>Solid State and Low Temperature Physics</i> .....	HOWARD W. ETZEL
<i>Theoretical Physics</i> .....	ARNOLD M. FEINGOLD

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<i>Division Director</i> .....	HOWARD H. HINES
<i>Special Assistant</i> .....	BERTHA W. RUBINSTEIN
<i>Program Director for:</i>	
<i>Anthropology</i> .....	RICHARD W. LIEBAN
<i>Economics</i> .....	HOWARD W. NICHOLSON
<i>Sociology and Social Psychology</i> .....	CARL W. BACKMAN
<i>Special Projects and Facilities</i> .....	MURRAY ABORN
<i>Special Consultant for History and Philosophy of Science</i> .....	DUDLEY SHAPERE

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<i>Deputy Associate Director</i> .....	KEITH R. KELSON
<i>Planning Officer for Planning and Evaluation Unit</i> .....	WILLIAM A. JARACZ

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<i>Division Director</i> -----	HOWARD D. KRAMER
<i>Deputy Division Director</i> -----	FRANCIS G. O'BRIEN
<i>Program Director for:</i>	
<i>Advanced Science Education</i> -----	JAMES E. OGG
<i>Faculty and Postdoctoral Fellow-</i> <i>ships</i> -----	HALL TAYLOR
<i>Graduate Fellowships and</i> <i>Traineeships</i> -----	FRANCIS G. O'BRIEN (Acting)
<i>Senior Fellowships</i> -----	MARJORY R. BENEDICT

## Division of Pre-College Education in Science

<i>Division Director</i> -----	NEVILLE L. BENNINGTON
<i>Section Head for Teacher Education</i> ---	C. RUSSELL PHELPS
<i>Program Director for:</i>	
<i>Summer Study</i> -----	WILLIAM E. MORRELL
<i>Research Training and Academic</i> <i>Year Study</i> -----	J. DONALD HENDERSON
<i>Section Head for Student and Curri-</i> <i>culum Improvement</i> -----	CHARLES A. WHITMER
<i>Program Director for:</i>	
<i>Pre-College Course Content Im-</i> <i>provement</i> -----	LAURENCE O. BINDER
<i>Student and Cooperative Pro-</i> <i>gram</i> -----	HOWARD J. HAUSMAN

## Division of Undergraduate Education in Science

<i>Division Director</i> -----	LYLE W. PHILLIPS
<i>Program Director for:</i>	
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<i>College Teacher Programs</i> -----	REINHARD L. KORGEN
<i>Instructional Scientific Equipment</i> <i>Program</i> -----	JAMES C. KELLETT, Jr. (Acting)
<i>Special Projects</i> -----	DONALD SCHWARTZ (Acting)
<i>Undergraduate Student Programs</i> ---	DONALD C. MCGUIRE

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<i>Deputy Associate Director</i> -----	HOWARD E. PAGE
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<i>Section Head for Science Facilities</i> -----	JOSHUA M. LEISE
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<i>Section Head for University Science Development</i> -----	DENZEL D. SMITH
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<i>Program Director for Institutional Grants</i> -----	J. MERTON ENGLAND

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<i>Deputy Planning Director</i> -----	GEOFFREY KELLER
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<i>Staff Associate</i> -----	J. RICHARD MAYER

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## Office of Economic and Manpower Studies

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<i>Staff Associate</i> -----	KATHRYN S. ARNOW
<i>Section Head for Statistical Surveys and Reports</i> -----	KENNETH SANOW
<i>Study Director for:</i>	
<i>Analytical Studies</i> -----	RICHARD M. BERRY
<i>Government Studies</i> -----	BENJAMIN L. OLSEN
<i>Industry Studies</i> -----	THOMAS J. HOGAN
<i>Universities and Nonprofit Insti- tutions Studies</i> -----	JOSEPH H. SCHUSTER
<i>Section Head for Sponsored Surveys and Studies</i> -----	THOMAS J. MILLS
<i>Staff Associate for Science Manage- ment Studies</i> -----	ZOLA BRONSON
<i>Study Director for:</i>	
<i>Foreign Studies</i> -----	JOSEPH P. KOZLOWSKI
<i>National Register of Scientific and     Technical Personnel</i> -----	MILTON LEVINE
<i>Science Education Studies</i> -----	(Vacant)
<i>Scientific Manpower Studies</i> -----	NORMAN SELTZER
<i>Special Analysis</i> -----	ROBERT W. CAIN

### Data Processing Center

<i>Head</i> -----	EDWARD M. McCORMICK
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<i>Head</i> -----	BURTON W. ADKINSON
<i>Deputy Head</i> -----	HENRY J. DUBESTER
<i>Section Head for Studies and Support</i> ---	WILLIAM S. BARKER
<i>Program Director for:</i>	
<i>Research and Studies</i> -----	RICHARD SEE
<i>Information Systems</i> -----	HAROLD E. BAMFORD, Jr.
<i>Information Services</i> -----	GORDON B. WARD
<i>Special Projects</i> -----	JERRY S. KIDD
<i>Head, Chemical Information Unit</i> ---	PAUL D. OLEJAR
<i>Section Head for Science Information Coordination</i> -----	ERNEST R. SOHNS
<i>Program Director for:</i>	
<i>Domestic Science Information</i> -----	ARTHUR L. KOROTKIN
<i>Foreign Science Information</i> -----	EUGENE PRONKO



## OFFICE OF INTERNATIONAL SCIENCE ACTIVITIES

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<i>Deputy Head</i> -----	ROBERT FLEISCHER
<i>Section Head for International Science Development</i> -----	PAUL R. SHAFFER
<i>Coordinator, Foreign Science Development</i> -----	HOWARD FONCANNON
<i>Program Director, India Program</i> ---	MAX HELLMANN
<i>Program Director, Latin American Program</i> -----	JAY DAVENPORT (Acting)
<i>Head, International Organizations Staff</i> -----	RAY MAYHEW
<i>Head, Program Analysis Staff</i> -----	ROBERT HULL
<i>Program Director, U.S.-Japan Cooperative Science Program</i> -----	J. E. O'CONNELL
<i>Science Liaison Staff</i>	
<i>Head, NSF/New Delhi</i> -----	GORDON HIEBERT (Acting)
<i>Head, NSF/San Jose</i> -----	DUNCAN CLEMENT
<i>Head, NSF/Tokyo</i> -----	WALTER HODGE

## MOHOLE PROJECT OFFICE

<i>Head</i> -----	DANIEL HUNT, Jr.
<i>Executive Assistant</i> -----	MILLER F. SHURTLEFF
<i>Field Operations Chief</i> -----	A. R. McLERRAN

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<i>Head</i> -----	CLARENCE C. OHLKE
<i>Congressional Liaison Officer</i> -----	THEODORE W. WIRTHS
<i>Public Information Officer</i> -----	ROLAND D. PAINE, Jr.

## OFFICE OF THE GENERAL COUNSEL

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<i>Deputy General Counsel (Head, Legal Office)</i> -----	CHARLES F. BROWN
<i>Deputy General Counsel (Special Projects)</i> -----	CHARLES MAECHLING, Jr.

## ADMINISTRATIVE MANAGER

<i>Administrative Manager</i> -----	F. C. SHEPPARD
<i>Deputy Administrative Manager</i> -----	HENRY BIRNBAUM
<i>Head, Contracts Office</i> -----	ROBERT D. NEWTON
<i>Head, Grants Office</i> -----	WILLIAM E. FEE, Jr.
<i>Head, Management Analysis Office</i> -----	ELLIS R. MOTTUR
<i>Administrative Services Officer</i> -----	HOWARD TIHLA
<i>Personnel Officer</i> -----	CALVIN C. JONES

**COMPTROLLER**

*Comptroller*----- **AARON ROSENTHAL**  
*Deputy Comptroller and Budget Officer.* **LUTHER F. SCHOEN**  
*Finance Officer*----- **EDWARD B. GARVEY**  
*Head, Indirect Cost (Rate) Determination Office*----- **LOUIS SIEGEL**  
*Head, Internal Audit Office*----- **WILFORD G. KENER**

## ADVISORY COMMITTEES, COUNCILS, AND COMMISSIONS

### ADVISORY COMMITTEE FOR BIOLOGICAL AND MEDICAL SCIENCES

- Lawrence R. Blinks, Hopkins Marine Station, Stanford University, Pacific Grove, Calif.
- Harry Eagle, Albert Einstein College of Medicine, New York, N.Y.
- James D. Ebert, Department of Embryology, Carnegie Institution of Washington, Baltimore, Md.
- E. A. Evans, Jr., Department of Biochemistry, University of Chicago, Chicago, Ill.
- Chauncey G. Goodchild, Department of Biology, Emory University, Atlanta, Ga.
- Paul J. Kramer, Department of Botany, Duke University, Durham, N.C.
- William D. Lotspeich, Department of Physiology, School of Medicine and Dentistry, University of Rochester, Rochester, N.Y.
- Ernst Mayr, Museum of Comparative Zoology, Harvard University, Cambridge, Mass.
- Conrad G. Mueller Jr., Center for Neural Sciences, Indiana University, Bloomington, Ind.
- William D. Neff, Department of Psychology, Indiana University, Bloomington, Ind.
- A. Geoffrey Norman, Vice President for Research, University of Michigan, Ann Arbor, Mich.
- Charles Olmsted, Department of Botany, University of Chicago, Chicago, Ill.
- Ray D. Owen, Division of Biological Sciences, California Institute of Technology, Pasadena, Calif.
- Marcus Rhoades, Department of Botany, Indiana University, Bloomington, Ind.
- Edgar Zwilling, Department of Biology, Brandeis University, Waltham, Mass.

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- Thomas F. Jones, President, University of South Carolina, Columbia, S.C.
- William R. Marshall, Jr. (Chairman), Associate Dean, College of Engineering, University of Wisconsin, Madison, Wis.
- Charles L. McCabe, Deputy Assistant Secretary of Commerce for Science and Technology, Department of Commerce, Washington, D.C.
- Glenn Murphy, Head, Department of Nuclear Engineering, Iowa State University, Ames, Iowa

- Nathan M. Newmark, Head, Department of Civil Engineering, University of Illinois, Urbana, Ill.
- Max S. Peters, Dean, College of Engineering, University of Colorado, Boulder, Colo.
- William G. Shepherd, Vice President for Academic Administration, University of Minnesota, Minneapolis, Minn.
- William E. Shoupp, Vice President, Research Laboratories, Westinghouse Electric Corp., Pittsburgh, Pa.

#### ADVISORY COMMITTEE FOR INSTITUTIONAL RELATIONS

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- Bryce Low Crawford, Jr., Dean, Graduate School, University of Minnesota, Minneapolis, Minn.
- John Ray Dunning, Dean, School of Engineering and Applied Science, Columbia University, New York, N.Y.
- Clifford M. Hardin, Chancellor, University of Nebraska, Lincoln, Nebr.
- Douglas M. Knight, President, Duke University, Durham, N.C.
- Emil M. Mrak, Chancellor, University of California (Davis), Davis, Calif.
- Frank W. Putnam (Chairman), Director, Division of Biological Sciences, Indiana University, Bloomington, Ind.
- Clarence Scheps, Executive Vice President, Tulane University, New Orleans, La.

#### ADVISORY COMMITTEE FOR MATHEMATICAL AND PHYSICAL SCIENCES

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- Wayland C. Griffith (Chairman), Director of Research, Missiles and Space Division, Lockheed Aircraft Corporation, Palo Alto, Calif.
- John D. Roberts, Professor of Organic Chemistry, Crellin Laboratory, California Institute of Technology, Pasadena, Calif.
- Frederick T. Wall, Vice Chancellor for Research, University of California, La Jolla, Calif.
- Harold F. Weaver, Director, Radio Astronomy Laboratory, University of California, Berkeley, Calif.
- Fred L. Whipple, Director, Astrophysical Observatory, Harvard University, Cambridge, Mass.
- Raymond L. Wilder, Research Professor of Mathematics, Department of Mathematics, University of Michigan, Ann Arbor, Mich.
- Robert R. Wilson, Director, Laboratory of Nuclear Studies, Cornell University, Ithaca, N.Y.
- John R. Winckler, Professor of Physics, University of Minnesota, Minneapolis, Minn.

## ADVISORY COMMITTEE FOR SCIENCE EDUCATION

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Bryce L. Crawford, Jr., Dean, Graduate School, University of Minnesota, Minneapolis, Minn.

Edward C. Creutz, Vice President, Research and Development, General Atomic, San Diego, Calif.

Mark H. Ingraham (Chairman), University of Wisconsin, Madison, Wis.

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J. W. Maucker, President, State College of Iowa, Cedar Falls, Iowa

Norman H. Nachtrieb, Department of Chemistry, University of Chicago, Chicago, Ill.

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Richard H. Sullivan, President, Reed College, Portland, Oreg.

W. Gordon Whaley, Dean, Graduate School, University of Texas, Austin, Tex.

## ADVISORY COMMITTEE FOR SOCIAL SCIENCES

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Joseph B. Casagrande, Department of Anthropology, University of Illinois, Urbana, Ill.

Marshall Clagett, Institute for Advanced Study, Princeton, N.J.

Pendleton Herring (Chairman), President, Social Science Research Council, New York, N.Y.

Horace M. Miner, Department of Anthropology, University of Michigan, Ann Arbor, Mich.

Frederick Mosteller, Department of Mathematical Statistics, Harvard University, Cambridge, Mass.

William H. Sewell, Department of Sociology, University of Wisconsin, Madison, Wis.

M. Brewster Smith, Department of Psychology, University of California, Berkeley, Calif.

James Tobin, Cowles Foundation for Research in Economics, Yale University, New Haven, Conn.

David B. Truman, Dean of the College, Columbia University, New York, N.Y.

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Launor F. Carter, Senior Vice President, Research and Technology Division, Systems Development Corp., Santa Monica, Calif.  
 Martin M. Cummings, Director, National Library of Medicine, Department of Health, Education, and Welfare, Washington, D.C.  
 Merrill M. Flood, University of Michigan, Mental Health Research Institute, Ann Arbor, Mich.  
 Thomas F. Jones, Jr., President, University of South Carolina, Columbia, S.C.  
 Dan Lacy, Managing Director, American Book Publishers Council, New York, N.Y.  
 Henry C. Longnecker, Manager, Science Information Department, Smith Kline & French Laboratories, Philadelphia, Pa.  
 W. Kenneth Lowry, Manager, Technical Information Libraries, Bell Telephone Laboratories, Murray Hill, N.J.  
 Foster E. Mohrhardt, Director, National Agricultural Library, U.S. Department of Agriculture, Washington, D.C.  
 L. Quincy Mumford, Librarian of Congress, Washington, D.C.  
 J. Roger Porter, Head, Department of Bacteriology and Professor, University of Iowa, Iowa City, Iowa.  
 Ralph R. Shaw, Dean of Library Activities, University of Hawaii, Honolulu, Hawaii.  
 H. Burr Steinbach, Chairman, Department of Zoology, University of Chicago, Chicago, Ill.  
 Robert G. Vosper, Librarian, University of California at Los Angeles, Los Angeles, Calif.  
 Thomas J. Wilson, Director, Harvard University Press, Cambridge, Mass.  
 Frederick Y. Wiselogle, Director, Development, Squibb Institute for Medical Research, New Brunswick, N.J.

#### COMMISSION ON WEATHER MODIFICATION\*

John Bardeen, Department of Physics, University of Illinois, Urbana, Ill.  
 A. R. Chamberlain (Chairman), Vice President for Administration, Colorado State University, Fort Collins, Colo.  
 William C. Colman, Executive Director, Advisory Commission on Intergovernmental Relations, Washington, D.C.  
 John C. Dreier, Visiting Professor of Latin American Affairs, School of Advanced International Studies, Johns Hopkins University, Washington, D.C.  
 Leonid Hurwicz, Department of Economics, University of Minnesota, Minneapolis, Minn.  
 Thomas F. Malone, Second Vice President, Research Department, Travelers Insurance Co., Hartford, Conn.  
 Arthur W. Murphy, Professor of Law, Columbia University Law School, New York, N.Y.  
 Summer T. Pike, Vice President, Trident Packing Co., Inc., Lubec, Maine

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\* This Commission was terminated as of December 1965.

- William S. von Arx, Woods Hole Oceanographic Institution, Woods Hole, Mass.  
 Gilbert F. White, Department of Geography, University of Chicago, Chicago, Ill.  
 Karl M. Wilbur, Department of Zoology, Duke University, Durham, N.C.

### ADVISORY PANELS

#### ADVISORY PANEL FOR ANTARCTIC PROGRAMS

- Paul C. Daniels, Lakesville, Conn.  
 Richard M. Goody, Director, Blue Hill Observatory, Harvard University, Cambridge, Mass.  
 Laurence M. Gould (Chairman), Professor of Geology, College of Mines, University of Arizona, Tucson, Ariz.  
 Laurence Irving, Director, Institute of Arctic Biology, University of Alaska, College, Alaska.

#### ADVISORY PANEL FOR ANTHROPOLOGY

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 Harry W. Basehart, Department of Anthropology, University of New Mexico, Albuquerque, N. Mex.  
 Dell Hymes, Department of Anthropology, University of Pennsylvania, Philadelphia, Pa.  
 Irving Rouse, Department of Anthropology, Yale University, New Haven, Conn.  
 Lauriston Sharp, Department of Anthropology, Cornell University, Ithaca, N.Y.  
 Evon Z. Vogt, Department of Anthropology, Harvard University, Cambridge, Mass.

#### ADVISORY PANEL FOR ASTRONOMY

(Chairman: Marshal H. Wrubel)

##### *Radio Astronomy*

- A. Edward Lilley, Harvard College Observatory, Cambridge, Mass.  
 Cornell H. Mayer, U.S. Naval Research Laboratory, Washington, D.C.  
 Gart Westerhout, Department of Physics and Astronomy, University of Maryland, College Park, Md.

##### *Optical Astronomy*

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