APPENDIX A

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

NATIONAL SCIENCE BOARD

Terms expire May 10, 1958

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- CHARLES DOLLARD, President (retired), Carnegie Corp. of New York, New York, N. Y.
- T. Keith Glennan, President, Case Institute of Technology, Cleveland, Ohio.
- ROBERT F. LOEB, Bard Professor of Medicine, College of Physicians and Surgeons, Columbia University, New York, N. Y.
- Andrey A. Potter, Dean Emeritus of Engineering, Purdue University, Lafayette, Ind.

Terms expire May 10, 1960

- ROGER ADAMS, Research Professor, Department of Chemistry and Chemical Engineering, University of Illinois, Urbana, Ill.
- THEODORE M. HESBURGH, C. S. C., President, University of Notre Dame, Notre Dame, Ind.
- WILLIAM V. HOUSTON, President, Rice Institute, Houston, Tex.
- Donald H. McLaughlin, President, Homestake Mining Co., San Francisco, Calif.
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- DOUGLAS M. WHITAKER, Vice President for Administration, Rockefeller Institute for Medical Research, New York, N. Y.

Terms expire May 10, 1962

LAURENCE M. GOULD, President, Carleton College, Northfield, Minn.

PAUL M. GROSS (Vice Chairman of the Board and Chairman of the Executive Committee), Vice President and Dean, Duke University, Durham, N. C.

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FREDERICK A. MIDDLEBUSH, President Emeritus and Director of Development Fund, University of Missouri, Columbia, Mo.

Samuel M. Nabrit, President, Texas Southern University, Houston, Tex. Julius A. Stratton, Chancellor, Massachusetts Institute of Technology, Cambridge, Mass.

EDWARD L. TATUM, Professor of Biology, Stanford University, Palo Alto, Calif.

ALAN T. WATERMAN (ex officio), Director, National Science Foundation, Washington, D. C.

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Systematic Biology	Rogers McVaugh
Anthropological and Related Sciences.	HARRY ALPERT

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cal, Physical, and Engineering Sciences.	-
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- FRANK A. GELDARD, Psychological Laboratory, University of Virginia, Charlottesville, Va.
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- George Wald, The Biological Laboratories, Harvard University, Cambridge, Mass.
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- EINAR HILLE, Department of Mathematics, Yale University, New Haven, Conn.
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- RALPH L. SHRINER, Head, Department of Chemistry, State University of Iowa, Iowa City, Iowa.
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- C. N. H. Long, Department of Physiology, Yale University, New Haven, Conn.
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W. MAURICE EWING, Lamont Geological Observatory, Palisades, N. Y.

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JOHN W. VANDERWILT, Colorado School of Mines, Golden, Colo.

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PAUL ZINNER, Chief, Minerals Division, Bureau of Mines, Department of the Interior, Washington, D. C.

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FARRINGTON DANIELS, Chairman, Department of Chemistry, University of Wisconsin, Madison, Wis.

WILLIAM H. DAVIS (Chairman), Davis, Hoxie & Faithfull, 30 Broad Street, New York, N. Y.

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LEON FESTINGER, Department of Psychology, Stanford University, Stanford, Calif.

WILLIAM W. Howells, Department of Anthropology, Harvard University, Cambridge, Mass.

CLYDE KLUCKHOHN, Department of Social Relations, Harvard University, Cambridge, Mass.

RUPERT B. VANCE, Kenan Professor of Sociology, University of North Carolina, Chapel Hill, N. C.

SHERWOOD WASHBURN, Department of Anthropology, University of Chicago, Chicago, Ill.

Advisory Panel for Astronomy

HORACE W. BABCOCK, Mount Wilson and Palomar Observatories, Pasadena, Calif.

GERALD M. CLEMENCE, Director, Nautical Almanac, U. S. Naval Observatory, Washington, D. C.

PAUL HERGET, Director, Cincinnati Observatory, Cincinnati, Ohio.

GEOFFREY KELLER, Director, Perkins Observatory, Delaware, Ohio.

NICHOLAS U. MAYALL, Lick Observatory, Mount Hamilton, Calif.

W. W. Morgan, Yerkes Observatory, University of Chicago, Williams Bay, Wis.

LYMAN SPITZER, Jr., Director, Princeton Observatory, Princeton University, Princeton, N. J.

KAJ AA. STRAND, Director, Dearborn Observatory, Northwestern University, Evanston, Ill.

ALBERT E. WHITFORD, Director, Washburn Observatory, University of Wisconsin, Madison, Wis.

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PAUL C. CROSS, Department of Chemistry, University of Washington, Seattle, Wash.

WILLIAM S. JOHNSON, Department of Chemistry, University of Wisconsin, Madison, Wis.

JOHN G. KIRKWOOD, Department of Chemistry, Yale University, New Haven, Conn.

- HARRY F. LEWIS, Vice President, Institute of Paper Chemistry, Appleton, Wis.
- FREDERICK A. MATSEN, Department of Chemistry, University of Texas, Austin, Tex.
- HERMANN I. SCHLESINGER, Department of Chemistry, University of Chicago, Chicago, Ill.
- ERNEST H. SWIFT, Department of Chemistry, California Institute of Technology, Pasadena, Calif.
- WILLIAM G. YOUNG, Dean, Division of Physical Sciences, University of California, Los Angeles, Calif.

Advisory Panel for Earth Sciences

- CHARLES H. BEHRE, Jr., Department of Geology, Columbia University, New York, N. Y.
- Hugo Benioff, Division of Geological Sciences, California Institute of Technology, Pasadena, Calif.
- M. King Hubbert, Chief Research Consultant, Shell Oil Co., Houston, Tex.
- WALTER H. MUNK, Scripps Institution of Oceanography, La Jolla, Calif.
- WILLIAM T. PECORA, United States Geological Survey, Washington, D. C.
- SVERRE PETTERSSEN, Department of Meteorology, University of Chicago, Chicago, Ill.
- RICHARD J. RUSSELL, Dean of Graduate School, Louisiana State University, Baton Rouge, La.
- PHILIP J. SHENON, 1339 Third Avenue, Salt Lake City, Utah.
- HAROLD C. UREY, Institute for Nuclear Studies, University of Chicago, Chicago, Ill.

Advisory Panel for Engineering Sciences

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- THOMAS J. DOLAN, Head, Department of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill.
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- George W. Gleeson, Dean, School of Engineering, Oregon State College, Corvallis, Oreg.
- John H. Hollomon, Manager, Metal Research Department, General Electric Company, Schenectady, N. Y.
- RICHARD C. JORDAN, Head, Department of Mechanical Engineering, University of Minnesota, Minneapolis, Minn.
- FREDERICK C. LINDVALL, Chairman, Division of Engineering, California Institute of Technology, Pasadena, Calif.

- Kurt F. Wendt, Dean, College of Engineering, University of Wisconsin, Madison, Wis.
- ABEL WOLMAN, Department of Sanitary Engineering, Johns Hopkins University, Baltimore, Md.

Advisory Panel for Environmental Biology

- W. D. BILLINGS, Department of Botany, Duke University, Durham, N. C. Murray F. Buell, Department of Botany, Rutgers University, New Brunswick, N. J.
- George L. Clarke, Biological Laboratories, Harvard University, Cambridge, Mass.
- W. J. Hamilton, Jr., Department of Conservation, Cornell University, Ithaca, N. Y.
- ARTHUR D. HASLER, Chairman, Department of Zoology, University of Wisconsin, Madison, Wis.
- ROBERT E. HUNGATE, Department of Bacteriology and Public Health, Washington State College, Pullman, Wash.
- THOMAS PARK, Department of Zoology, University of Chicago, Chicago, Ill.
- C. Ladd Prosser, Department of Physiology, University of Illinois, Urbana, Ill.
- Paul B. Sears, Chairman, Conservation Program, Yale University, New Haven, Conn.

Advisory Panel for Genetic and Developmental Biology

- ROBERT W. BRIGGS, Lankenau Hospital Research Institute, Philadelphia, Pa.
- RALPH E. COMSTOCK, Institute of Statistics, North Carolina State College, Raleigh, N. C.
- JAMES D. EBERT, Director, Carnegie Institution of Washington Department of Embryology, Baltimore, Md.
- CLIFFORD GROBSTEIN, National Cancer Institute, National Institutes of Health, Bethesda, Md.
- JOSHUA LEDERBERG, Department of Genetics, University of Wisconsin, Madison, Wis.
- HERSCHEL MITCHELL, Biology Division, California Institute of Technology, Pasadena, Calif.
- G. LEDYARD STEBBINS, Division of Genetics, University of California, Davis, Calif.
- RALPH H. WETMORE, Director, The Biological Laboratories, Harvard University, Cambridge, Mass.

Advisory Panel for History, Philosophy, and Sociology of Science

I. Bernard Cohen, Widener Library, Harvard University, Cambridge, Mass.

PHILIPP G. FRANK, American Academy of Arts and Sciences, Cambridge, Mass.

JOHN F. FULTON, Yale University School of Medicine, New Haven, Conn. ROBERT B. LINDSAY, Department of Physics, Brown University, Providence, R. I.

RICHARD H. SHRYOCK, Institute for the History of Medicine, Johns Hopkins University, Baltimore, Md.

JOSEPH J. SPENGLER, Department of Economics, Duke University, Durham, N. C.

Advisory Panel for Mathematical Sciences

DAVID H. BLACKWELL, Department of Mathematics, University of California, Berkeley, Calif.

RALPH P. Boas, Department of Mathematics, Northwestern University, Evanston, Ill.

Henri F. Bohnenblust, California Institute of Technology, Pasadena, Calif.

RICHARD D. Brauer, Department of Mathematics, Harvard University, Cambridge, Mass.

WILLIAM S. MASSEY, Department of Mathematics, Brown University, Providence, R. I.

EDWARD J. McShane, Department of Mathematics, University of Virginia, Charlottesville, Va.

MINA REES, Dean of Faculty, Hunter College, New York, N. Y.

PAUL C. ROSENBLOOM, Department of Mathematics, University of Minnesota, Minneapolis, Minn.

HASSLER WHITNEY, Department of Mathematics, Institute for Advanced Study, Princeton, N. J.

Advisory Panel for Molecular Biology

ALLAN H. BROWN, Department of Botany, University of Minnesota, Minneapolis, Minn.

M. Delbrück, Division of Biology, California Institute of Technology, Pasadena, Calif.

JOHN T. EDSALL, Biological Laboratories, Harvard University, Cambridge, Mass.

RALPH O. ERICKSON, Botany Department, University of Pennsylvania, Philadelphia, Pa.

FRANK H. JOHNSON, Department of Biology, Princeton University, Princeton, N. J.

- HENRY A. LARDY, Chairman, Research Department, Enzyme Institute, University of Wisconsin, Madison, Wis.
- HOWARD K. SCHACHMAN, Virus Laboratory, University of California, Berkeley, Calif.
- DAVID SHEMIN, Department of Biochemistry, College of Physicians and Surgeons, Columbia University, New York, N. Y.
- BIRGIT VENNESLAND, Department of Biochemistry, University of Chicago, Chicago, Ill.

Advisory Panel for Physics

- SAMUEL K. ALLISON, Director, Enrico Fermi Institute for Nuclear Studies, University of Chicago, Chicago, Ill.
- ROBERT B. BRODE, Department of Physics, University of California, Berkeley, Calif.
- DAVID M. DENNISON, Chairman, Department of Physics, University of Michigan, Ann Arbor, Mich.
- GAYLORD P. HARNWELL, President, University of Pennsylvania, Philadelphia, Pa.
- KARL F. HERZFELD, Chairman, Department of Physics, Catholic University of America, Washington, D. C.
- CECIL T. LANE, Department of Physics, Yale University, New Haven, Conn.
- ROBERT E. MARSHAK, Chairman, Department of Physics, University of Rochester, Rochester, N. Y.
- WOLFGANG K. H. PANOFSKY, Director, High Energy Physics Laboratory, Stanford University, Stanford, Calif.
- JOHN C. SLATER, Department of Physics, Massachusetts Institute of Technology, Cambridge, Mass.

Advisory Panel for Psychology

- FRANK A. BEACH, Department of Psychology, Yale University, New Haven, Conn.
- CARL I. HOVLAND, Department of Psychology, Yale University, New Haven, Conn.
- Lyle H. Lanier, Department of Psychology, University of Illinois, Urbana, Ill.
- Quinn McNemar, Department of Psychology, Stanford University, Stanford, Calif.
- W. D. Neff, Department of Psychology, University of Chicago, Chicago, Ill.
- Benton J. Underwood, Department of Psychology, Northwestern University, Evanston, Ill.

Advisory Panel for Regulatory Biology

- R. H. Burris, Department of Biochemistry, University of Wisconsin, Madison, Wis.
- ARTHUR W. GALSTON, Osborn Botanical Laboratory, Yale University, New Haven, Conn.
- I. C. Gunsalus, Department of Bacteriology, University of Illinois, Urbana, Ill.
- WILLIAM D. McElroy, Director, McCollum-Pratt Institute, Johns Hopkins University, Baltimore, Md.
- A. M. PAPPENHEIMER, Jr., Department of Microbiology, New York University College of Medicine, New York, N. Y.
- SIDNEY ROBERTS, Department of Physiological Chemistry, University of California, Los Angeles, Calif.
- ELMER STOTZ, School of Medicine and Dentistry, University of Rochester School of Medicine, Rochester, N. Y.
- E. L. Tatum, Department of Biological Sciences, Stanford University, Palo Alto, Calif.
- ALFRED E. WILHELMI, Department of Biochemistry, Emory University College of Medicine, Atlanta, Ga.

Advisory Panel on Scientific Manpower Information

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- HAROLD GOLDSTEIN, Assistant Chief, Division of Manpower and Employment Statistics, Bureau of Labor Statistics, United States Department of Labor, Washington, D. C.
- ALBERT KAY, Director, Office of Manpower Supply, Department of Defense, Washington, D. C.
- CHARLES V. Kidd, Director, Research Planning Branch, National Institutes of Health, Bethesda, Md.
- RAY W. MAYHEW, Owens-Illinois Glass Co., Toledo, Ohio.
- James C. O'Brien, Director of Personnel, Department of Health, Education, and Welfare, Washington, D. C.
- PHILIP N. Powers, Internuclear Co., Clayton, Mo.
- M. H. TRYTTEN, Director, Office of Scientific Personnel, National Academy of Sciences-National Research Council, Washington, D. C.
- J. FLETCHER WELLEMEYER, Staff Advisor on Personnel Studies, American Council of Learned Societies, Washington, D. C.
- DAEL WOLFLE, Executive Officer, American Association for the Advancement of Science, Washington, D. C.

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- CLARK KERR, Chancellor, University of California, Berkeley, Calif.
- CLYDE KLUCKHOHN, Department of Social Relations, Harvard University, Cambridge, Mass.
- Donald G. Marquis, Chairman, Department of Psychology, University of Michigan, Ann Arbor, Mich.
- HAROLD W. STOKE, Dean, Graduate School of Arts and Science, New York University, New York, N. Y.
- SAMUEL S. WILKS, Department of Mathematics, Princeton University, Princeton, N. J.
- Donald R. Young, General Director, Russell Sage Foundation, New York, N. Y.

Advisory Panel for Systematic Biology

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- LIBBIE H. HYMAN, American Museum of Natural History, New York, N. Y.
- DAVID D. KECK, Head Curator, New York Botanical Garden, New York, N. Y.
- Reminston Kellogg, Director, United States National Museum, Washington, D. C.
- KARL P. SCHMIDT, Emeritus Curator, Chicago Natural History Museum, Chicago, Ill.
- A. C. Smith, Curator, United States National Museum, Washington, D.C. WILLIAM C. Steere, Dean, Graduate School, Stanford University, Stan-
- ford, Calif.

 NORMAN R. STOLL, Rockefeller Institute for Medical Research, New York,

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- Peter J. W. Debye, Cornell University, Ithaca, N. Y.

N. Y.

- PAUL M. DOTY, Harvard University, Cambridge, Mass.
- EDWIN R. GILLILAND, Massachusetts Institute of Technology, Cambridge, Mass.
- CARL S. MARVEL, University of Illinois, Urbana, Ill.
- HERMAN F. MARK, Director, Polymer Research Institute, Polytechnic Institute of Brooklyn, Brooklyn, N. Y.
- G. STAFFORD WHITBY, University of Akron, Akron, Ohio.

Advisory Panel for Astronomical Observatory

IRA S. Bowen, Director, Mount Wilson and Palomar Observatories, California Institute of Technology, Pasadena, Calif.

ROBERT R. McMath, Director McMath-Hulbert Observatory, University of Michigan, Pontiac, Mich.

Bengt Stromgren, Director, Yerkes and McDonald Observatories, University of Chicago, Williams Bay, Wis.

OTTO STRUVE, Director, Leuschner Observatory, University of California, Berkeley, Calif.

ALBERT E. WHITFORD, Director, Washburn Observatory, University of Wisconsin, Madison, Wis.

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PAUL J. FLORY, Department of Chemistry, Cornell University, Ithaca, N. Y.

FRANK R. MAYO, Stanford Research Institute, Menlo Park, Calif.

THERALD MOELLER, Department of Chemistry, University of Illinois, Urbana, Ill.

CARL C. Monrad, Department of Chemical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa.

CHARLES G. OVERBERGER, Head, Department of Chemistry, Polytechnic Institute of Brooklyn, Brooklyn, N. Y.

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JOHN PETER HAGEN, Naval Research Laboratory, Washington, D. C.

RUDOLPH MINKOWSKI, Mount Wilson and Palomar Observatories, Pasadena, Calif.

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Columbus, Ohio.

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MERLE A. Tuve, Director, Department of Terrestrial Magnetism, Carnegie Institution of Washington, Washington, D. C.

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Jule G. Charney, School of Mathematics, Institute for Advanced Study, Princeton, N. J.

GERALD M. CLEMENCE, Director, Nautical Almanac, United States Naval

Observatory, Washington, D. C.

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WALTER H. MUNK, Scripps Institution of Oceanography, La Jolla, Calif.

J. BARKLEY ROSSER, Department of Mathematics, Cornell University, Ithaca, N. Y.

MARTIN SCHWARZSCHILD, Department of Astronomy, Princeton University, Princeton, N. J.

EDWARD TELLER, Department of Physics, University of California, Livermore, Calif.

S. M. Ulam, Los Alamos Scientific Laboratory, Los Alamos, N. Mex.

JOHN VON NEUMANN, Commissioner, Atomic Energy Commission, Washington, D. C.

Advisory Panel for University Research Reactors

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LAWRENCE R. HAFSTAD, Vice President, General Motors Corp., Detroit, Mich.

DONALD H. LOUGHRIDGE, Dean, Northwestern Technological Institute, Evanston, Ill.

JOSEPH B. PLATT, Department of Physics, University of Rochester, Rochester, N. Y.

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CHAUNCEY STARR, North American Aviation, Inc., Los Angeles, Calif.

EUGENE P. WIGNER, Department of Physics, Princeton University, Princeton, N. J.

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