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Cards and Addresses

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**JOHN
SIMON
GUGGENHEIM
MEMORIAL
FOUNDATION**

*Fellowships
United States of America*

1954

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

*Fellowships to Assist Research
and Artistic Creation*

UNITED STATES OF AMERICA 1954

IN ORDER to improve the quality of education and the practice of the arts and professions in the United States, to foster research, and to provide for the cause of better international understanding, the John Simon Guggenheim Memorial Foundation, established by the late United States Senator Simon Guggenheim and by Mrs. Guggenheim as a memorial to a son who died April 26, 1922, offers Fellowships, to further the development of scholars and artists by assisting them to engage in research in any field of knowledge and artistic creation in any of the fine arts including music, under the freest possible conditions. Grants also will be made to a limited number of persons who need types of assistance, other than those ordinarily comprehended within the term *fellowship*, to bring their intellectual and artistic capacities to still higher levels of quality. The Fellowships will be awarded by the Trustees upon nominations made by a Committee of Selection.

THE FOUNDATION also offers Fellowships — to assist studies to be carried on in the United States of America — to citizens of all the other American Republics, of the Republic of the Philippines, of Canada and of the British Caribbean.

THE FELLOWSHIPS are awarded to men and women of high intellectual and personal qualifications who have already demonstrated unusual capacity for productive scholarship or unusual creative ability in the fine arts. Fellowships in music are awarded only to composers of music and to scholars who propose research into the history or theory of music.

THE FELLOWS are usually of ages between thirty and forty years; but the Committee of Selection also is empowered to nominate persons older than forty and younger than thirty. The Fellowships are open to citizens (or, in exceptional cases, to permanent residents who are not citizens) of the United States, irrespective of race, color or creed.

DR. JOE MAUK SMITH, Professor of Chemical Engineering, Purdue University: A study of the processes of heat and mass transfer in fixed-bed catalytic reactors.

MISS ELIZABETH SPENCER, Writer; Instructor in English, University of Mississippi: Creative writing.

DR. ADRIAN MORRIS SRB, Professor of Plant Breeding, Cornell University: Research into mutation and the biochemical evolution of microorganisms.

MISS MARION LENA STARKEY, Assistant Professor of English, University of Connecticut: A study of the social, economic, and political aspects of Shays's Rebellion, 1786-1787.

DR. GEORGE LEDYARD STEBBINS, Professor of Genetics, University of California, Davis, California: Studies of hybrid and polyploid strains of forage grasses.

DR. CARL PONTIUS SWANSON, Professor of Botany, Johns Hopkins University: Studies of the effects of combined radiations on the hereditary materials of the living cell.

MR. WALTER MAGNES TELLER, Writer, Plumsteadville, Pennsylvania: A biographical study of the Yankee skipper, Captain Joshua Slocum, 1844-1908.

DR. DAVID HENRY TEMPLETON, Assistant Professor of Chemistry, University of California, Berkeley: A study of the crystal chemistry of rare-earth compounds.

DR. JACOBUS TEN BROEK, Associate Professor of Speech, University of California, Berkeley: A study of the wartime power of the military over civilian citizens.

MR. EDWIN DAISLEY THATCHER, Architect, New York City: Historical and theoretical studies of the ancient Roman methods of heating by hypocaustum.

DR. WILLIAM YORK TINDALL, Professor of English, Columbia University: A study of the literary symbol in our time.

DR. LEONARD HOWARD UNGER, Associate Professor of English, University of Minnesota: A study of the possible uses for literary theory of certain of Freud's terms and concepts.

MR. ROBERT LAWRENCE VAN NICE, Research Associate in Byzantine Architecture, Dumbarton Oaks Research Library of Harvard University, Washington, D. C.: Studies of the structure of Hagia Sophia in Istanbul.

DR. JOHN VERHOOGEN, Professor of Geology, University of California, Berkeley: Studies on temperature distribution inside the earth and of the earth's internal constitution.

DR. MARJORIE JEAN VOLD, Research Associate and Lecturer in Chemistry, University of Southern California, Los Angeles: Studies of the nature and magnitude of the forces operative between colloidal particles.

DR. KURT VON FRITZ, Jay Professor of Greek, Columbia University: Studies of the development of Greek historiography.

DR. ROBERT GEORGE LEESON WAITE, Associate Professor of History, Williams College: Studies of German nationalism since World War II.

DR. WILLIAM EDWARD WALLACE, Associate Professor of Chemistry, University of Pittsburgh: Studies of the properties of solid solutions.

DR. JAMES HAROLD WAYLAND, Associate Professor of Applied Mechanics, California Institute of Technology: Studies of complex fluid flow.

DR. EDWIN JACK WEBBER, Assistant Professor of Spanish, University of California, Berkeley: A study of the origins of the Spanish drama.

DR. WIKTOR WEINTRAUB, Lecturer in Slavic Languages and Literatures, Harvard University: Studies of the history of Polish literature from the Middle Ages to 1939.

DR. PERRY DICKIE WESTBROOK, Assistant Professor of English, New York State Teachers College, Albany, N. Y.: A sociological, historical and cultural study of a typical coastal New England community.

DR. ARTHUR FREDERICK WRIGHT, Associate Professor of Chinese History, Stanford University: A study of the Sui Dynasty in China, 589-617 A. D.

DR. NATHALIA WRIGHT, Assistant Professor of English, University of Tennessee: Studies of the life of Horatio Greenough, 19th century American sculptor.

MR. MAX YAVNO, Photographer, Los Angeles, California: Photography.

DR. ANTONI ZYGMUND, Professor of Mathematics, University of Chicago: Study of the differential properties of the solution of partial differential equations.

COMMITTEE OF SELECTION

The Committee of Selection consisted of Dr. Louis Booker Wright, *Chairman*, Dr. Edgar Anderson, Dr. Henri M. Peyre, Dr. Carl O. Sauer, and Dr. Edwin Bidwell Wilson. The advisory committee for applications from artists consisted of Mr. Louis Bouché, Mr. Oronzio Maldarelli, Mr. Eugene Speicher, Mr. Mahonri Young and Mr. Carl Zigrosser.

New York City
May 25, 1953

HENRY ALLEN MOE,
Secretary General

THE COMMITTEE OF SELECTION seeks evidence that candidates are persons of unusual capacity for research, demonstrated ordinarily by the previous publication of contributions to knowledge of high merit, or that they are persons of unusual and proved creative ability in some one of the fine arts. Definite plans for their proposed study must be presented by all candidates. The Foundation will consult with responsible scholars and artists regarding the ability and promise of the applicants and the value of the projects they present as bearing on the prospects of their advancing to higher levels of accomplishment through holding the Fellowships for which they apply.

APPOINTMENTS are made ordinarily for one year; but plans which require longer or shorter periods also will be considered.

THE GRANTS will in the normal case be \$3,000 for a year of twelve months. Members of the teaching profession who have received sabbatical leave on full or part salary are eligible for appointment; and, in general, the amount of the grant will be adjusted to the needs of each Fellow, considering his other resources and the purpose and scope of his studies.

THE FOUNDATION may subsidize the publication of important contributions to knowledge produced by holders of Fellowships; but it does not undertake to aid in publishing all works so produced.

APPLICATIONS for Fellowships must be made in writing on or before October 15, 1953, by the candidates themselves, in the form prescribed, addressed to Henry Allen Moe, *Secretary General*, John Simon Guggenheim Memorial Foundation, 551 Fifth Avenue, New York 17, N. Y. Final selection of Fellows for 1954-55 will be made in March, 1954. Application forms will be mailed upon request.

FELLOWS OF THE FOUNDATION who seek renewals of their Fellowships must apply before February 1, 1954. Suggestions concerning the form of presentation of such applications will be sent on Fellows' requests.

TRUSTEES OF THE FOUNDATION

MRS. SIMON GUGGENHEIM, *President*

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JOHN SIMON GUGGENHEIM MEMORIAL FELLOWS • 1953

DR. ROBERT KEMP ADAIR, Instructor in Physics, University of Wisconsin: A study of the low lying excited states of heavy nuclei.

DR. JOSEPH RANDLE BAILEY, Assistant Professor of Zoology, Duke University: Ecological studies of the herpetofauna of northeastern Brazil.

MR. ROGER ALLEN BAKER, Painter, New York City: Painting.

MR. LEONARD BASKIN, Artist, Worcester, Massachusetts: Printmaking.

DR. SAMUEL H. BEER, Associate Professor of Government, Harvard University: A study of the structure and function of British political parties.

DR. ARTHUR EUGENE BESTOR, JR., Professor of History, University of Illinois: Studies in the history of American intellectual life from colonial times to the present.

DR. JUSTUS BIER, Professor of the History of Art, University of Louisville: A study of the German sculptor, Tilmann Riemenschneider.

DR. MARION E. BLAKE, Archaeologist, Bradford, Vermont: Studies of the mosaic pavements of Roman Italy.

DR. KONRAD BLOCH, Professor of Biochemistry, University of Chicago: Investigations in the biochemical relationship between terpenes and the steroids of animal tissues.

DR. HAROLD FRANCIS BLUM, Physiologist, National Cancer Institute, and Visiting Lecturer, Princeton University: Studies of the problem of carcinogenesis.

MR. GODFREY BLUNDEN, Writer, New York City: Creative writing.

DR. VIRGIL CARL BOEKELHEIDE, Associate Professor of Chemistry, University of Rochester: Studies of the structure of curariform alkaloids.

MR. EDGAR COLLINS BOGARDUS, Instructor in English, Carnegie Institute of Technology, Pittsburgh: Creative writing.

MR. CLEANTH BROOKS, Professor of English, Yale University: A study of literary criticism in relation to literary history and to literary scholarship.

DR. FELIX BROWDER, Instructor in Mathematics, Boston University: A study of the existence and properties of solutions of elliptic partial differential equations.

MR. MARK BUCCI, Composer, New York City: Musical composition.

DR. ARTHUR WALTER BURKS, Associate Professor of Philosophy, University of Michigan: Studies of the foundations of scientific inference.

DR. GEORGE FRANCIS CARTER, Professor of Geography and Chairman of the Isaiah Bowman School of Geography, Johns Hopkins University: A study of soils, terraces, time and archaeology in the San Diego region of Southern California with reference to the antiquity of man in America.

DR. AMÉRICO CASTRO, Emory L. Ford Professor of Spanish, Princeton University: Studies in European thought and history in the 16th century.

DR. WILLIAM FARR CHURCH, Professor of History, Brown University: A study of political thought in 17th century France.

DR. CARLOS CLAVERÍA, Professor of Romance Languages, University of Pennsylvania: A study of European criticism of Spanish literature.

DR. ANTHONY CALHOUN CLEMENT, Associate Professor of Biology, Emory University, Atlanta, Georgia: Studies in the embryology of the marine snails.

DR. TRISTRAM POTTER COFFIN, Assistant Professor of English, Denison University, Granville, Ohio: An analytical study of American folklore.

DR. LINCOLN CONSTANCE, Professor of Botany and Curator of Seed Plant Collections, University of California, Berkeley: Studies of the flora of extra-tropical South America.

DR. HARRY DONALD CONWAY, Professor of Mechanics, Cornell University: Study of plane stress problems.

DR. JOHN CHAMBERS CROWELL, Assistant Professor of Geology, University of California, Los Angeles: A study of large-scale tectonic displacements in the Alps.

DR. THADDEUS S. DANOWSKI, Professor of Research Medicine, University of Pittsburgh School of Medicine: Studies of the physiologic concomitants of iodine metabolism.

DR. JOHN GILBERT DAUNT, Professor of Physics, Ohio State University: Studies in the field of low temperature physics.

DR. EDWARD SMITH DEEVEY, JR., Associate Professor of Biology and Director of the Geochronometric Laboratory, Yale University: A study of the developmental history of lakes in Northern Italy.

DR. EDWARD D. DELAMATER, Research Professor, Department of Dermatology, and Department of Microbiology, School of Medicine, University of Pennsylvania: Studies of the cytology, cytochemistry and cytogenetics of microorganisms.

DR. ENRICO DE NEGRI, Professor of Comparative Literature, Columbia University: A study of the secularization of the structures of Christian theology in the philosophic and economic systems of Hegel and Marx.

DR. ROBERT HOWLAND DENISON, Curator of Fossil Fishes, Chicago Natural History Museum: Studies of the structure, habit and history of Paleozoic vertebrates.

DR. CHARLES DE TOLNAY, Art Historian, Princeton, New Jersey: Studies of the artistic conceptions of Leonardo da Vinci and their origin.

DR. MARTIN DEUTSCH, Associate Professor of Physics, Massachusetts Institute of Technology: A study of nuclear transitions and radiations.

DR. WILLIAM CLYDE DEVANE, Dean of Yale College, and Professor of English, Yale University: Studies of the life and works of Robert Browning.

DR. INGRITH JOHNSON DEYRUP, Associate Professor of Zoology, Barnard College: A study of the interrelationships of water and electrolyte exchanges of mammalian tissues.

MISS ANGELA DILLER, Instructor in Music, Mills College: Studies of the teaching of music with special reference to the piano.

MR. OWEN VINCENT DODSON, Writer; Associate Professor of Drama, Howard University, Washington, D. C.: Creative writing.

DR. JOSEPH DORFMAN, Professor of Economics, Columbia University: Studies of the development of American economic thought, 1918-1933.

MR. HENRY BRYAN DORITY, Composer, Clarksville, Tennessee: Musical composition.

DR. ANDREAS DORPALEN, Professor of History and Government, St. Lawrence University, Canton, New York: Studies of the life and times of the German historian and publicist Heinrich von Treitschke, 1834-1896.

DR. WALLACE WARNER DOUGLAS, Assistant Professor of English, Northwestern University: A study of the works and thought of William Wordsworth.

DR. ELLEN NEALL DUVALL, Associate Professor of Physical Education, Richmond Professional Institute, College of William and Mary: Research into the kinesiology of functional anatomy.

DR. CHESTER VERNE EASUM, Professor of History, University of Wisconsin: Studies of the history of the Hohenzollern Empire, 1871-1918.

DR. FRED R. EGGAN, Professor of Anthropology, University of Chicago: A study of the social and cultural structure of the Sagada Igorots of the Mountain Province, North Luzon, Philippines.

DR. HANS ALBERT EINSTEIN, Associate Professor of Hydraulics, University of California, Berkeley: Studies of the transportation of sediment by flowing water.

DR. ARTHUR ALPHONSE EKIRCH, JR., Associate Professor of History, American University, Washington, D. C.: A study of the history of the liberal tradition in the United States.

COL. ROBERT REED ELLIS, Corps of Engineers, U. S. Army: A study of the history of the Corps of Engineers, Confederate States Army.

DR. RUPERT EMERSON, Professor of Government, Harvard University: A study of the development in recent decades of the nationalist movements of the non-white peoples of the world.

MISS IRENE EMERY, Laboratory of Anthropology, Santa Fe, New Mexico: Studies of the structure of primitive textiles.

DR. JOHN THOMPSON EMLÉN, JR., Professor of Zoology, University of Wisconsin: Research into the phylogeny of behavior in swallows and other passerine birds.

MR. PAUL HAMILTON ENGLE, Professor of English, State University of Iowa: Creative writing.

PROFESSOR JOSEPH ANDORFER EWAN, Associate Professor of Botany, Tulane University: Studies of the history of botany in the United States, 1780-1820.

DR. W. MAURICE EWING, Professor of Geology, Columbia University; Director, Lamont Geological Observatory, and Associate in Submarine Geology, Woods Hole Oceanographic Institution: Studies of the fluidity of the core of the earth.

DR. HENRY ALAN FAIRBANK, Assistant Professor of Physics, Yale University: Studies of the superfluidity of liquid helium at very low temperatures.

DR. BERNARD TAUB FELD, Associate Professor of Physics, Massachusetts Institute of Technology: Researches into the interactions involved in the production of mesons by nucleons and by electromagnetic radiation.

DR. LLOYD NOEL FERGUSON, Associate Professor of Chemistry, Howard University, Washington, D. C.: A study of the distribution of enzymes in the cytoplasm of amoeba and other organisms.

MR. PAUL FETLER, Composer; Instructor in Music Theory and Composition, University of Minnesota: Musical composition.

MR. JAMES THOMAS FLEXNER, Writer, New York City: Studies of the history of American painting, 1760-1830.

DR. LESLIE LAWRENCE FOLDY, Associate Professor of Physics, Case Institute of Technology, Cleveland, Ohio: Investigations of the electromagnetic properties of nucleons and nuclear systems.

MR. GEORGE HOWARD FORSYTH, JR., Professor of Fine Arts, University of Michigan: Studies of Paleochristian architecture.

DR. CHARLES FRANKEL, Associate Professor of Philosophy, Columbia University: Studies in the philosophy of history and politics with special reference to the foundations of liberalism.

DR. DAVID GROVER FREY, Associate Professor of Zoology, Indiana University, and Director of the Indiana Lake and Stream Survey: Studies of the microfossils in the sediments of lakes of east-central Austria.

DR. EDWARD HIRSCH FRIEDEN, Assistant Professor of Biochemistry and Nutrition, Tufts College Medical School, Boston, Massachusetts: Studies of the relation of chemical structure to the biological activity of proteins.

MR. CARL GANS, Engineer, The Babcock and Wilcox Company, Pittsburgh: Taxonomic and ecological studies of certain south Brazilian snakes.

DR. CLINTON HARVEY GARDINER, Assistant Professor of History, Washington University, St. Louis, Missouri: A biographical study of the artisan-conquistador Martín López.

MR. WILLIAM A. GARNETT, Photographer, Altadena, California: Photography.

DR. ANTHONY NICHOLAS BRADY GARVAN, Assistant Professor of American Civilization, University of Pennsylvania: A study of early Pennsylvania architecture and town planning, 1680-1750.

DR. GORDON E. GATES, Biologist, Bangor, Maine: Studies of the earthworms of Burma.

DR. JAMES EDWARD GERALD, JR., Professor of Journalism, University of Minnesota: A study of the effects on the press of the United Kingdom of the government's economic control policies, 1939-1952.

DR. CHARLES MERWIN GILBERT, Associate Professor of Geology, University of California, Berkeley: Studies of the detrital sediments formed as a result of mountain-making processes.

DR. MARGARET GILMAN, Professor of French, Bryn Mawr College, Bryn Mawr, Pennsylvania: A study of the conception of poetry, and related problems, in French literature, 1700-1850.

DR. WERNER GOLDSMITH, Assistant Professor of Engineering Design, University of California, Berkeley: A study of phenomena incident to the collision of two solid bodies.

DR. RUDOLF B. GOTTFRIED, Associate Professor of English, Indiana University: A study of historical writing in England, 1500-1625.

MR. HOWARD JAY GRAHAM, Bibliographer, Los Angeles County Law Library: Studies of the Fourteenth Amendment with special reference to the doctrine of corporate personality, 1860-1890.

DR. ROBERT M. GRANT, Research Associate, Federated Theological Faculty, University of Chicago: Studies in the history of early Christian thought.

MR. FRANCIS JOSEPH BYRNE HACKETT, Writer, Newtown, Connecticut: Studies of the life and times of Charles the Fifth of Spain.

DR. GORDON S. HAIGHT, Professor of English, Yale University: Studies of the letters of George Eliot.

DR. LEONARD HERBERT HALL, Assistant Professor of Physics, University of California, Santa Barbara: A theoretical calculation of acoustic relaxation times in liquids.

DR. ROBERT ANDERSON HALL, JR., Professor of Linguistics, Cornell University: A study of Melanesian and Australian Pidgin English.

DR. ALFRED B. HARBAGE, Professor of English, Harvard University: A study of the methods of staging and acting Shakespeare's plays.

MRS. ETA HARICH-SCHNEIDER, Musician, New York City: Studies of Japanese mediaeval music.

DR. ABRAM L. HARRIS, Professor of Economics, The College, University of Chicago: A study of the history of economic progress and social reform.

DR. WILLIAM H. P. HATCH, Professor Emeritus of Literature and Interpretation of the New Testament, Episcopal Theological School, Cambridge, Massachusetts: Textual studies of Greek manuscripts of the New Testament.

DR. ANNA GRANVILLE HATCHER, Associate Professor of Romance Linguistics, Johns Hopkins University: Research in the field of comparative syntax.

DR. PETER HAVAS, Associate Professor of Physics, Lehigh University, Bethlehem, Pennsylvania: Studies in the relativistic theory of interacting elementary particles.

DR. WAYNE E. HAZEN, Associate Professor of Physics, University of Michigan: Studies of V-particles in the cosmic-ray group.

DR. ALBERT EDWARD HEINS, Professor of Mathematics, Carnegie Institute of Technology, Pittsburgh: Studies of the application of function-theoretic methods to boundary value problems in diffraction theory.

DR. CHARLES BIXLER HEISER, JR., Associate Professor of Botany, Indiana University: Taxonomic and cytogenetic studies of cultivated species of peppers.

DR. LEON A. HEPPEL, Senior Surgeon, Public Health Service, Bethesda, Maryland: Studies in the field of ribonucleic acid chemistry.

DR. MARGARET TRABUE HODGEN, Professor of Sociology, University of California, Berkeley: Research into the origins of social studies in 17th century Europe.

DR. SIDNEY HOOK, Professor of Philosophy, and Chairman of the Department, New York University: The impact of Marxist philosophy on contemporary European thought.

MR. ALAN HOVHANESS, Composer, Boston: Musical composition.

DR. WITOLD HUREWICZ, Professor of Mathematics, Massachusetts Institute of Technology: Studies of the theory of deformation in topology.

DR. COLIN OSBORNE HUTTON, Professor of Mineralogy, Stanford University: Studies of rare-element minerals in New Zealand and Australia.

MR. ANDREW W. IMBRIE, Composer; Assistant Professor of Music, University of California, Berkeley: Musical composition.

DR. GEORGE JURA, Associate Professor of Chemistry, University of California, Berkeley: Studies of the physics of the solid state.

DR. ARTHUR ROBERT KANTROWITZ, Professor of Aeronautical Engineering and Engineering Physics, Cornell University: A study of the dynamics of gases at very high temperatures.

DR. ALFRED LATIMER KELLOGG, Associate Professor of English, Rutgers University, New Brunswick, New Jersey: A study of the development of Chaucer's philosophical ideas.

DR. ERNST KITZINGER, Associate Professor of History of Arts, Dumbarton Oaks Research Library of Harvard University, Washington, D. C.: Studies in the history of Early Christian and Byzantine arts.

DR. ALFRED GEORGE KNUDSON, JR., Army Medical Officer, United States Army Hospital, Fort Riley, Kansas: Studies of certain biochemical syntheses thought to be controlled genetically.

DR. HENRY KOFFLER, Professor of Bacteriology, Purdue University: Studies of the intermediary metabolism of microorganisms.

MR. MISCH KOHN, Artist; Assistant Professor of Art, Institute of Design, Chicago, Illinois: Printmaking.

MR. YOSHIO KONDO, Terrestrial Malacologist, Bernice P. Bishop Museum, Honolulu, T. H.: Studies in the malacology of the Pacific Ocean area.

DR. MILTON R. KONVITZ, Professor of Industrial and Labor Relations, Cornell University: A study on the Bill of Rights, as those rights have been formulated and defined by American courts.

DR. EUGENE NICHOLAS KOZLOFF, Associate Professor of Biology, Lewis and Clark College, Portland, Oregon: Studies of the commensal and parasitic protozoa of land and freshwater mollusks.

DR. LESTER TOUBY KURTZ, Professor of Agronomy, University of Illinois: Studies of the several chemical forms of soil magnesium and the abilities of plants to use them.

DR. HERBERT AUGUST LAITINEN, Professor of Chemistry, University of Illinois: Studies of oscillographic techniques in the study of the rates of electrode reactions involving cobalt complexes.

MR. CLAY LANCASTER, Instructor and Lecturer, Columbia University and Cooper Union, New York City: Studies of the influence of eastern art upon modern decorative arts and architectural design.

MR. ARMIN LANDECK, Artist; Art Teacher, Brearley School, New York City: Printmaking.

DR. MABEL LOUISE LANG, Associate Professor of Greek, Bryn Mawr College, Bryn Mawr, Pennsylvania: A study of changing standards of weights and measures throughout Athenian history.

MR. MAURICIO LASANSKY, Artist; Professor of Art, State University of Iowa: Printmaking.

MR. HAL LEHRMAN, Writer and Lecturer, New York City: Studies in the economics of the Republic of Israel.

MR. JOHN LESSARD, Composer, St. James, New York: Musical composition.

DR. ROBERT STANLEY LIVINGSTON, Professor of Physical Chemistry, University of Minnesota: Studies of the processes of photosynthesis.

DR. HELEN NIÑA TAPPAN LOEBLICH, Geologist, U. S. Geological Survey, Washington, D. C.: Taxonomic studies of the *Foraminifera*.

MR. NIKOLAI LOPATNIKOFF, Composer; Professor of Music, Carnegie Institute of Technology, Pittsburgh: Musical composition.

DR. RUTH CHARLOTTE BARCAN MARCUS, Scholar, Evanston, Illinois: A study in modal logic and its applications.

DR. ARTHUR EARL MARTELL, Professor of Chemistry, Clark University, Worcester, Massachusetts: Investigation of the stabilities of transition metal complexes of optically active peptides.

MR. BOHUSLAV MARTINU, Composer, New York City: Musical composition.

DR. JAMES WALLACE MARVIN, Professor of Botany, University of Vermont: Studies of sap pressures and flow in the sugar maple tree.

DR. BRIAN HAROLD MASON, Associate Professor of Geology, Indiana University: A study of certain igneous rocks in the Kaikoura Mountains of New Zealand.

DR. GARRETT MATTINGLY, Professor of European History, Columbia University: Studies of the political, military and diplomatic events centering on the defeat of the Spanish Armada.

DR. DAVIS MCENTIRE, Associate Professor of Social Welfare, University of California, Berkeley: A study of population problems and policies in Italy with special reference to the role of emigration.

DR. CHARLES KEITH McLANE, Assistant Professor of Physics, University of Wisconsin: Studies of the properties of matter at demagnetization temperatures.

DR. JAMES GILMER McMANAWAY, Consultant in Literature and Bibliography, The Folger Shakespeare Library, Washington, D. C.: Studies of the life of William Shakespeare.

DR. ROBERT DOUTHAT MEADE, Professor of History, Randolph-Macon Woman's College, Lynchburg, Virginia: Studies of the life and times of Patrick Henry.

DR. HEINRICH MEYER, Professor of German, Muhlenberg College, Allentown, Pennsylvania: Studies of Spinoza and his critics.

MRS. REBA PAEFF MIRSKY, Musician and writer, New York City: Studies of the lives of children in Zulu society.

MR. CONRAD VERNON MORTON, Curator, United States National Museum: Studies of the ferns of Guatemala.

DR. WALTER H. MUNK, Associate Professor of Geophysics, University of California, Scripps Institution of Oceanography, La Jolla: A study of the effect of winds on ocean currents.

DR. HOWARD LEE NOSTRAND, Professor of Romance Languages, University of Washington, Seattle: Studies of the place of the humanities in higher education in the United States.

DR. JOHN LAWRENCE ONCLEY, Professor of Physical Chemistry, Harvard University: A study of the size, shape and electrical symmetry of protein molecules.

DR. OYSTEIN ORE, Sterling Professor of Mathematics, Yale University: Studies into the early history of the theory of probability.

DR. VICTOR AMANDUS OSWALD, JR., Associate Professor of German, University of California, Los Angeles: A study of the works of the Austrian man of letters, Hugo von Hofmannsthal.

DR. GERALD BRUCE OWNBEY, Associate Professor of Botany and Curator of the Herbarium, University of Minnesota: Studies of the prickly poppy genus *Argemone*.

MR. HAROLD PARIS, Artist, New York City: Printmaking.

DR. ROBERT GHORMLEY PARR, Associate Professor of Chemistry, Carnegie Institute of Technology, Pittsburgh: Studies of the electronic structure of molecules.

DR. J. ROLAND PENNOCK, Professor of Political Science, Swarthmore College, Swarthmore, Pennsylvania: A comparative study of legislative policy-making by Congress and by the British Parliament, with particular reference to the field of housing legislation.

MR. CLARENCE J. PFAFFENBERGER, Public School Teacher, San Francisco, California: A study of predicting adult performance from early behavior in guide dogs.

DR. RALPH SAUL PHILLIPS, Associate Professor of Mathematics, University of Southern California, Los Angeles: Studies of semi-group theory.

MR. THOMAS HAL PHILLIPS, Writer, Kossuth, Mississippi: Creative writing.

DR. HORTENSE POWDERMAKER, Associate Professor of Anthropology, Queens College: A study of the effect of mass communications on a group of native African peoples.

MR. FREDERIC RAMSEY, JR., Writer, Stockton, New Jersey: A study of the Afro-American music of Alabama, Louisiana, and Mississippi, 1860-1900.

DR. CAROLINE ROBBINS, Professor of History, Bryn Mawr College, Bryn Mawr, Pennsylvania: Studies in the transmission of the English tradition of liberty.

DR. J. BARKLEY ROSSER, Professor of Mathematics, Cornell University: Studies in the fields of mathematical logic and number theory.

DR. CLINTON LAWRENCE ROSSITER, III, Associate Professor of Government, Cornell University: A historical study of American political conservatism.

DR. EDWARD HETZEL SCHAFER, Assistant Professor of Oriental Languages, University of California, Berkeley: Study of the history of Chinese civilization in medieval times.

MR. CHARLES SCHUCKER, Painter, New York City: Painting.

DR. BENJAMIN ISADORE SCHWARTZ, Assistant Professor of History, Harvard University: A study of the intellectual development of modern China from the end of the 19th century until the Communist assumption of power.

DR. ALLEN BREWSTER SCOTT, Associate Professor of Chemistry, Oregon State College, Corvallis: Studies of the magnetic and optical qualities of color centers in ionic crystals.

DR. ROBERT LORENTZ SCRANTON, Associate Professor of Classics, Emory University, Atlanta, Georgia: A study of the architectural development of medieval Corinth in Greece.

DR. ABRAHAM SEIDENBERG, Assistant Professor of Mathematics, University of California, Berkeley: Studies of decision methods in differential algebra.

DR. EDGAR FINLEY SHANNON, JR., Assistant Professor of English, Harvard University: A study of Tennyson's literary career, 1851-1892.

MR. KARL JAY SHAPIRO, Poet; Editor of *Poetry*, Chicago, Illinois: Creative writing.

DR. JOHN CLARK SHEEHAN, Professor of Chemistry, Massachusetts Institute of Technology: Studies of the isolation and synthesis of peptides.

DR. ARNOLD JOHN FREDERICK SIEGERT, Professor of Physics, Northwestern University: Investigations in the field of statistical mechanics and random processes.

DR. SAMUEL SILVER, Professor of Engineering Science, University of California, Berkeley: Studies on the diffraction of electro-magnetic waves by apertures in an infinite plane sheet.

DR. ERNEST SIRLUCK, Assistant Professor of English, University of Chicago: Studies of the relation between Milton's political theory and the course of the governments during the Puritan Revolution.

DR. JAMES HINTON SLEDD, Assistant Professor of English and Linguistics, University of Chicago: Studies of the development of colloquial English and linguistic thought in England and America.

**JOHN
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*Fellowships
United States of America*

1955

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

*Fellowships to Assist Research
and Artistic Creation*

UNITED STATES OF AMERICA 1955

IN ORDER to improve the quality of education and the practice of the arts and professions in the United States, to foster research, and to provide for the cause of better international understanding, the John Simon Guggenheim Memorial Foundation, established by the late United State Senator Simon Guggenheim and by Mrs. Guggenheim as a memorial to a son who died April 26, 1922, offers Fellowships, to further the development of scholars and artists by assisting them to engage in research in any field of knowledge and artistic creation in any of the fine arts including music, under the freest possible conditions. Grants also will be made to a limited number of persons who need types of assistance, other than those ordinarily comprehended within the term *fellowship*, to bring their intellectual and artistic capacities to still higher levels of quality. The Fellowships will be awarded by the Trustees upon nominations made by a Committee of Selection.

THE FOUNDATION also offers Fellowships — to assist studies to be carried on in the United States of America — to citizens of all the other American Republics, of the Republic of the Philippines, of Canada and of the British Caribbean.

THE FELLOWSHIPS are awarded to men and women of high intellectual and personal qualifications who have already demonstrated unusual capacity for productive scholarship or unusual creative ability in the fine arts. Fellowships in music are awarded only to composers of music and to scholars who propose research into the history or theory of music.

THE FELLOWS are usually of ages between thirty and forty years; but the Committee of Selection also is empowered to nominate persons older than forty and younger than thirty. The Fellowships are open to citizens (or, in exceptional cases, to permanent residents who are not citizens) of the United States, irrespective of race, color or creed.

THE COMMITTEE OF SELECTION seeks evidence that candidates are persons of unusual capacity for research, demonstrated ordinarily by the previous publication of contributions to knowledge of high merit, or that they are persons of unusual and proved creative ability in some one of the fine arts. Definite plans for their proposed study must be presented by all candidates. The Foundation will consult with responsible scholars and artists regarding the ability and promise of the applicants and the value of the projects they present as bearing on the prospects of their advancing to higher levels of accomplishment through holding the Fellowships for which they apply.

APPOINTMENTS are made ordinarily for one year; but plans which require longer or shorter periods also will be considered.

THE GRANTS will in the normal case be \$3,000 for a year of twelve months. Members of the teaching profession who have received sabbatical leave on full or part salary are eligible for appointment; and, in general, the amount of the grant will be adjusted to the needs of each Fellow, considering his other resources and the purpose and scope of his studies.

THE FOUNDATION may subsidize the publication of important contributions to knowledge produced by holders of Fellowships; but it does not undertake to aid in publishing all works so produced.

APPLICATIONS for Fellowships must be made in writing on or before October 15, 1954, by the candidates themselves, in the form prescribed, addressed to Henry Allen Moe, *Secretary General*, John Simon Guggenheim Memorial Foundation, 551 Fifth Avenue, New York 17, N. Y. Final selection of Fellows for 1955-56 will be made in March, 1955. Application forms will be mailed upon request.

FELLOWS OF THE FOUNDATION who seek renewals of their Fellowships must apply before February 1, 1955. Suggestions concerning the form of presentation of such applications will be sent on Fellows' requests.

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JOHN SIMON GUGGENHEIM MEMORIAL FELLOWS • 1954

DR. BERNI JULIAN ALDER, Instructor in Chemistry, University of California, Berkeley. Statistical mechanical investigations of mixtures with respect to their thermodynamic and dielectric behavior.

DR. ROBERT WAYNE ALLARD, Associate Professor of Agronomy, University of California, Los Angeles. A biometrical study of the inheritance of metrical characters in wheat hybrids.

DR. LUIS VALENTINE AMADOR, Research Associate in Neurology and Neurological Surgery, Illinois State Neuropsychiatric Institute, Chicago. Studies of the anatomical relationships of the interior of the human brain.

DR. MAYNARD ANDREW AMERINE, Professor of Enology, University of California, Davis. Biochemical studies of certain factors influencing the quality of wine.

DR. NEAL RUSSELL AMUNDSON, Professor of Chemical Engineering, University of Minnesota. Mathematical analysis and synthesis of the industrial chemical reactor.

DR. MILTON VASIL ANASTOS, Associate Professor of Byzantine Theology, Dumbarton Oaks Research Library of Harvard University. Studies in the intellectual history of the age of the Emperor Justinian I.

DR. ENRIQUE ANDERSON-IMBERT, Professor of Spanish, University of Michigan. Studies in the history of the Spanish language and literature.

DR. STUART PRATT ATKINS, Associate Professor of German, Harvard University. A study of popular moral and religious prose literature in 16th century Germany.

DR. WILLIAM J. BAERG, Professor Emeritus of Entomology, University of Arkansas. Studies of the life histories of tarantulas and scorpions.

MR. JAMES ARTHUR BALDWIN, Writer, New York City. Creative writing.

DR. FRED BASOLO, Associate Professor of Chemistry, Northwestern University. Studies of the mechanisms of substitution reactions in complex ions.

MR. STEPHEN BECKER, Writer, New York City. Creative writing.

DR. SAMUEL F. BEMIS, Professor of History, Yale University. Studies of the life and times of John Quincy Adams.

DR. WERNER BERGMANN, Sterling Professor of Chemistry, Yale University. A study of the organic chemistry and evolution of invertebrates.

DR. RICHARD BERNHEIMER, Professor of History of Art, Bryn Mawr College, Pennsylvania. Studies of the Italian sources of architectural romanticism.

DR. BERNHARD BLUME, Professor of German, Ohio State University. Studies of symbolism in German poetry.

DR. CARL JULIUS BODE, Professor of English, University of Maryland. Studies of mid-19th century American culture.

DR. HENRY GEORGE BOOKER, Professor of Electrical Engineering, Cornell University. Studies of the physics of the outer atmosphere.

PROFESSOR DAVID DODGE BOYDEN, Associate Professor of Music, University of California, Berkeley. Studies of the history of violin playing.

DR. CARL BENJAMIN BOYER, Professor of Mathematics, Brooklyn College. Studies in the history of the theory of the rainbow.

DR. VICTOR HENRI BROMBERT, Instructor in French, Yale University. A study of the intellectual as a tragic hero in the contemporary French novel.

MR. LLOYD ARNOLD BROWN, Director, Peabody Institute Library, Baltimore, Maryland. Studies of the history of the mapping of America.

DR. TRUESDELL SPARHAWK BROWN, Associate Professor of History, University of California, Los Angeles. Studies in the field of Hellenistic historiography.

DR. EVELINE MABEL BURNS, Professor of Social Work, New York School of Social Work, Columbia University. A comparative study of social security systems.

DR. ROBERT HARZA BURRIS, Professor of Biochemistry, University of Wisconsin. Studies of hemoglobin with special reference to biological nitrogen fixation.

DR. EDWIN HARRISON CADY, Professor of English, Syracuse University. Studies of the life and times of William Dean Howells.

MR. LOUIS CALABRO, Composer, New York City. Musical composition.

MR. KENNETH CALLAHAN, Artist, Seattle, Washington. Creative painting.

DR. RONDO EMMETT CAMERON, Assistant Professor of Economics and History, University of Wisconsin. Studies in European economic history, especially of the *Crédit Mobilier* of France.

DR. ROBERT KENNETH CARR, Professor of Law and Political Science, Dartmouth College. A comparative study of civil liberties in the United States and Great Britain.

DR. JOHN PHILIP CARTER, Associate Professor of Business Administration, University of California, Berkeley. Studies in the economics of western European transportation.

DR. JOAQUÍN CASALDUERO, Professor of Romance Languages, New York University. Studies of meaning and form in Spanish baroque comedy.

DR. KENNETH E. CASTER, Professor of Geology and Geography, University of Cincinnati. Comparative studies of the Devonian faunas of South Africa and Brazil.

DR. YUEN REN CHAO, Professor of Oriental Languages and Linguistics, University of California, Berkeley. Studies of Chinese grammar.

DR. DOUGLAS GEORGE CHAPMAN, Associate Professor of Mathematics, University of Washington. Studies of the size and dynamic structure of wild animal populations.

DR. SHIING-SHEN CHERN, Professor of Mathematics, University of Chicago. Studies in the field of differential geometry.

DR. RALPH COHEN, Assistant Professor of English, University of California, Los Angeles. A study of English philosophy and literary theory in the 18th century.

DR. JANE COSTELLO, Assistant Professor of Fine Arts, New York University. Studies of the drawings of Nicolas Poussin.

DR. GRANT COTTAM, Assistant Professor of Botany, University of Wisconsin. Studies of the interrelations of plants and their environment.

DR. DONALD JAMES CRAM, Associate Professor of Chemistry, University of California, Los Angeles. A study of transannular effects in large ring compounds.

DR. RAYMOND E. CRIST, Professor of Geography, University of Florida. Studies of the colonization and settlement of the eastern slope of the South American Andes.

DR. LESTER GILBERT CROCKER, Professor of Romance Languages, Goucher College, Baltimore, Maryland. Studies of 18th century European ethical thought.

DR. WILLIAM LORAN CROSTEN, Professor of Music, Stanford University. Historical studies of the aesthetics and dramaturgy of opera.

DR. JAMES IRVING CRUMP, Assistant Professor of Chinese Language and Literature, University of Michigan. Studies of Chinese fiction.

DR. ARPAD ISTVAN CSAPO, Lecturer, Department of Obstetrics, Johns Hopkins University Medical School; Staff Member, Department of Embryology, Carnegie Institution of Washington. Studies of uterine muscle physiology and function.

MR. MERCE CUNNINGHAM, Choreographer and dancer, New York City. Creative activity in the field of choreography.

DR. HERBERT BASHFORD CURRIER, Associate Professor of Botany, University of California, Davis. Studies in the nature of protoplasmic surface of plant cells.

DR. JOHN SHELTON CURTISS, Professor of History, Duke University. Studies in the history of the Russian Army under Nicholas I, 1825-1855.

DR. JOSEPH DAINOW, Professor of Law, Louisiana State University Law School. Studies in the fields of legal codification and civil code revision.

DR. ELIAS DENISSOFF, Professor of Philosophy, University of Notre Dame, South Bend, Indiana. A study of the interrelationships between Eastern and Western thought.

DR. KARL WOLFGANG DEUTSCH, Professor of History and Political Science, Massachusetts Institute of Technology. Studies of the development of the idea of political community in Switzerland.

DR. MARY ETHEL DICHMANN, Associate Professor of English, Southwestern Louisiana Institute, Lafayette, Louisiana. A study of the literary relationship of William Wordsworth, Matthew Arnold and T. S. Eliot.

DR. DAVID HOWARD DICKASON, Associate Professor of American Literature, Indiana University. A study of the interrelations of American literature and the plastic arts in the 19th century.

DR. MARK J. DRESDEN, Assistant Professor of Iranian Languages and Civilization, University of Pennsylvania. Studies of the grammar of the Khotanese language.

DR. LESLIE W. DUNBAR, Chief, Community Affairs Branch, U.S. Atomic Energy Commission, Aiken, South Carolina. Studies of the rationalist tradition in political philosophy .

DR. JOHN WYATT DURHAM, Associate Professor of Paleontology, University of California, Berkeley. Studies of the classification of the irregular echinoids.

DR. NATHAN EDELMAN, Assistant Professor of French, Columbia University. Studies of the influence of Gothic art in 17th century France.

DR. JOHN T. EDSALL, Professor of Biological Chemistry, Harvard University. Studies of protein structure.

DR. EDGAR OWEN EDWARDS, Assistant Professor of Economics, Princeton University. A study of the determinants of investment by the individual firm in a free enterprise economy.

DR. ALBERT EDWARD JOHN ENGEL, Associate Professor of Geology, California Institute of Technology. Studies of sedimentary deposits with relation to early earth history.

DR. DAVID V. ERDMAN, Assistant Professor of English, University of Minnesota. Studies in the literary and social history of the Romantic period in English literature.

DR. RALPH O. ERICKSON, Associate Professor of Botany, University of Pennsylvania. Studies of the morphogenesis of the shoot apex, leaf and stem in higher plants.

DR. HERMAN FESHBACH, Associate Professor of Physics, Massachusetts Institute of Technology. A theoretical study of the meson-nucleon interaction and of nucleon-nucleon forces.

DR. PAUL J. FLORY, Professor of Chemistry, Cornell University. Studies of the applications of high polymer theory to biological systems.

DR. HENRY M. FOLEY, Associate Professor of Physics, Columbia University. A study of hyperfine spectra and related nuclear structure problems.

DR. WILLIAM A. FOWLER, Professor of Physics, California Institute of Technology. A study of the structure of nuclei and of the nature of nuclear forces.

DR. SYDNEY JOSEPH FREEDBERG, Assistant Professor of Art, Wellesley College, Wellesley, Massachusetts. A study of the High Renaissance style in Roman and Florentine painting.

DR. HERBERT FRIEDMANN, Curator of Birds, Smithsonian Institution, Washington, D. C. Studies of the digestion of beeswax by the honey-guide birds.

DR. ROBERT FRIEDMANN, Associate Professor of History, Western Michigan College of Education, Kalamazoo. Studies of German 16th and 17th century Anabaptist church history.

DR. DAVID H. FRISCH, Associate Professor of Physics, Massachusetts Institute of Technology. A study of theoretical models of nuclear fission.

DR. FRITIOF MELVIN FRYXELL, Professor of Geology, Augustana College, Rock Island, Illinois. Studies of the history of American geology and Western exploration, centering on the Hayden Survey of 1867-79.

DR. ARTHUR LAYTON FUNK, Associate Professor of History and Humanities, University of Florida. A study of the French Committee of National Liberation.

MR. NAUM GABO, Artist, Middlebury, Connecticut. Creative activity in the fine arts with special reference to kinetic constructions.

DR. HANS GAFFRON, Professor of Biochemistry, University of Chicago. Studies of the efficiency of the process of photosynthesis.

DR. WALTER GALENSON, Associate Professor of Industrial Relations, University of California, Berkeley. Studies of economic and social factors in trade union development in Western Europe and the United States.

DR. THEODOR HERZL GASTER, Professor of Comparative Religion, Dropsie College, Philadelphia. Studies of the Samaritans.

DR. HENRY SNYDER GEHMAN, Professor of Old Testament Literature, Princeton Theological Seminary. Studies in the history of religious thought.

DR. ALEXANDER GERSCHENKRON, Professor of Economics, Harvard University. Studies of certain phases of the industrial development of Europe.

DR. CHARLES COULSTON GILLISPIE, Assistant Professor of History, Princeton University. Studies in the history of French science during the Revolutionary and Napoleonic periods.

MR. NATHAN GLAZER, Writer, New York City. Studies of the position of Jews in American political, economic, and cultural life.

DR. LOUIS GOTTSCHALK, Professor of History, University of Chicago. Studies of Lafayette in the French Revolution, 1789-1792.

DR. VIRGINIA GRACE, Historian, American School of Classical Studies, Athens, Greece. Studies of trade in the ancient Mediterranean as documented by stamped wine jars.

DR. EDWARD H. GRAHAM, Assistant Chief, Soil Conservation Service, U.S. Department of Agriculture. A comparative study of the use of land resources in certain countries of the new and old worlds.

DR. LEO GREBLER, Research Professor, Institute for Urban Land Use and Housing Studies, Columbia University. A study of the new land use patterns in the rebuilding of bombed European cities.

DR. JOSEPH HAROLD GREENBERG, Associate Professor of Anthropology, Columbia University. A field investigation of the spread of the Hausa language of Northern Nigeria.

DR. JORGE GUILLÉN, Professor of Spanish Literature, Wellesley College, Wellesley, Massachusetts. Creative writing.

DR. FRANK ROSS NEWMAN GURD, Assistant Professor of Physical Chemistry, Harvard University Medical School. A study of the actions between insulin and a certain lipoprotein fraction of blood plasma.

DR. HERBERT SANDER GUTOWSKY, Assistant Professor of Chemistry, University of Illinois. A study of radio frequency and microwave spectra in relation to the structure of matter.

DR. LESTER GUTTMAN, Assistant Professor, Institute for Study of Metals, University of Chicago. A study of the structure of liquid metal solutions.

MR. EDWARD L. HABER, Painter, Lockport, New York. Creative painting.

DR. DONALD JAMES HANAHAN, Associate Professor of Biochemistry, University of Washington. A study of the enzymatic processes involved in the metabolism of complex lipides in the mammalian organism.

DR. OSCAR HANDLIN, Professor of History, Harvard University. A study of the influence of the continuing settlement of the United States upon social and cultural institutions.

MRS. ETA HARICH-SCHNEIDER, Musician, New York City. Studies of Japanese mediaeval music.

DR. EVELYN BYRD HARRISON, Classical Scholar, American School of Classical Studies, Athens, Greece. Studies of ancient Greek stone sculpture.

MR. LOU HARRISON, Composer, Redwood City, California. Musical composition.

DR. FREDERICK HARTT, Associate Professor of the History of Art, Washington University, St. Louis, Missouri. Studies of the art of Andrea del Castagno.

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PROFESSOR F. A. HAYEK, Professor of Social and Moral Science, University of Chicago. Studies in Italy, Sicily and Greece on the diary of John Stuart Mill and on the creative powers of free civilization.

MR. ANTHONY EVAN HECHT, Poet, and Instructor in English, Bard College, Annandale-on-Hudson, New York. Creative writing.

DR. HEINRICH HENEL, Professor of German, University of Wisconsin. Studies in the history of German poetry, 1819-1928.

DR. ABRAHAM JOSHUA HESCHEL, Associate Professor of Jewish Ethics and Mysticism, Jewish Theological Seminary, New York City. Studies of the life of Rabbi Israel Baal Shem, 1690-1760.

DR. MAGNUS RUDOLPH HESTENES, Professor of Mathematics, University of California, Los Angeles. Study of the applications of the theory of linear spaces to the calculus of variations.

MISS MARGUERITE HIGGINS, Correspondent, *New York Herald Tribune*. A study of Communist tactics in international negotiation.

DR. ANDREW REUBEN HILEN, JR., Assistant Professor of English, University of Washington. Studies of the correspondence of Henry Wadsworth Longfellow.

DR. CHARLTON HINMAN, Assistant Professor of English, Johns Hopkins University. Studies of the text of Shakespeare's plays.

DR. HAJO HOLBORN, Professor of History, Yale University. Studies of the history of Germany since 1500.

DR. DONALD FREDERICK HORNIG, Professor of Chemistry, Brown University. Quantum theoretical studies of molecular structure.

DR. NORMAN HAROLD HOROWITZ, Professor of Biology, California Institute of Technology. A study of the role of the genes in the synthesis of enzymes.

MR. JULIUS HORWITZ, Writer, Brooklyn, New York. Creative writing.

MR. ALAN HOVHANESS, Composer, Boston, Massachusetts. Musical composition.

DR. DAVID NEWTON HUME, Associate Professor of Chemistry, Massachusetts Institute of Technology. Investigation of mixed anion complexes of metal ions.

DR. ARTHUR GROVER HUMES, Associate Professor of Biology, Boston University. Studies in parasitology, especially of the Copepoda concerned in the transmission of Dracunculosis.

DR. ARTHUR WILLIAM HUMMEL, Retired Chief, Division of Orientalia, Library of Congress. Studies of Chinese history and culture.

DR. CORNELIUS SEARLE HURLBUT, JR., Associate Professor of Mineralogy, Harvard University. Studies of the mineralogy of pegmatites.

DR. JOHN BARROWS IRWIN, Professor of Astronomy, Indiana University. Photoelectric studies of the light-curves of southern, long period cepheid variables.

DR. SEARS REYNOLDS JAYNE, Assistant Professor of English, University of California, Berkeley. Studies of Renaissance Platonism and its influence upon English literature, 1460-1660.

DR. ROY NEWELL JERVIS, Public School Teacher, Battle Creek, Michigan. Studies of social and economic consequences of recent deforestation in Oriente Province, Cuba.

MR. HUNTER JOHNSON, Composer, Benson, North Carolina. Musical composition.

DR. SAMUEL FREDERICK JOHNSON, Assistant Professor of English, New York University. A study of the responses of Shakespeare's audiences to his tragedies.

PROFESSOR W. DENIS JOHNSTON, Professor of English, Mount Holyoke College, South Hadley, Massachusetts. Studies of Jonathan Swift and his circle, and the writing of a play on that theme.

DR. HARDIN BLAIR JONES, Associate Professor of Medical Physics and Physiology, University of California, Berkeley. Studies of the relationship between metabolic functional change and age.

DR. MARGARET ATWOOD JUDSON, Professor of History, New Jersey College for Women, Rutgers University. Studies in the history of thought in England, 1640-1660.

DR. MORTIMER R. KADISH, Assistant Professor of Philosophy, Western Reserve University, Cleveland, Ohio. A philosophical study of science as part of modern cultural experience.

DR. HAYWARD KENISTON, Visiting Lecturer in Romance Languages, Duke University. Studies of Francisco de los Cobos, Chief Secretary of the Emperor Charles V of Spain.

DR. RUSSELL AMOS KIRK, Writer, East Lansing, Michigan. Studies of recent changes in traditional British society.

DR. MAX KLEIBER, Professor of Animal Husbandry, University of California, Davis. Studies of the bioenergetic and biokinetic principles in animal nutrition.

DR. ELLIS ROBERT KOLCHIN, Associate Professor of Mathematics, Columbia University. Study of certain questions in the Galois theory of differential fields.

MR. YOSHIO KONDO, Terrestrial Malacologist, Bishop Museum, Honolulu, T. H. Studies of the malacology of the Pacific Ocean area.

DR. GEORGE FRED KOSTER, Staff Member, Lincoln Laboratory, Massachusetts Institute of Technology. A study of the electronic structure of diamond.

DR. THOMAS SAMUEL KUHN, Assistant Professor of General Education and History of Science, Harvard University. Studies of the sources and pre-conditions of scientific concepts.

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MR. JOSEPH L. LASKER, Artist, and Visiting Instructor, University of Illinois. Creative painting.

DR. WALTER McCLELLAN LAUER, Professor of Chemistry, University of Minnesota. Studies of the mechanism of substitution in the aromatic unit of organic compounds.

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DR. BRYCE DALE LYON, Assistant Professor of History, Harvard University. A comparative study of administrative institutions of medieval western Europe.

DR. ARTHUR AARON MAASS, Assistant Professor of Government, Harvard University. Comparative studies of the development of water rights and water law in the Western United States and certain European nations.

DR. JOANNE STARR MALKUS, Marine Meteorologist, Woods Hole Oceanographic Institution. Studies in the field of atmospheric convection and cloud physics.

DR. JOHN HENRY MANLEY, Professor of Physics, University of Washington. Studies of certain aspects of the collective and single-particle model of the nucleus.

DR. ROBERT EUGENE MARSHAK, Professor of Physics, University of Rochester. Researches in fields of meson physics.

DR. BERTHE MARIE MARTI, Professor of Latin, Bryn Mawr College. A study of medieval interpretations of the Roman stoic writers.

DR. FRIEDERICH IGNAZ MAUTNER, Assistant Professor of Mathematics, Johns Hopkins University. Research on unitary representations of locally compact topological groups.

DR. ARTHUR J. MAY, Professor of History, University of Rochester. Studies in the history of the Hapsburg Monarchy, 1914-1920.

MR. DAVID THOMPSON WATSON McCORD, Writer; Executive Secretary, Harvard Fund Council. Studies of the life and art of Edward Lear, 1812-1888.

PROFESSOR JOHN FRANCIS McDERMOTT, Associate Professor of English, Washington University, St. Louis. A study of graphic artists' representations of the middle west, 1790-1860.

DR. LADISLAS J. MEDUNA, Professor of Psychiatry, University of Illinois College of Medicine. Studies of biological substances with specific affinity to animal and human brain tissue.

DR. PETER H. MISCH, Professor of Geology, University of Washington. Studies of the geology of the northern Cascades of the State of Washington.

DR. SAMUEL HOLT MONK, Professor of English, University of Minnesota. A study of literary criticism in Restoration England.

MR. WRIGHT MORRIS, Writer and photographer, Wayne, Pennsylvania. Creative writing.

DR. PETER REED MORRISON, Associate Professor of Physiology and Zoology, University of Wisconsin. Comparative physiological studies of certain Australian mammals.

DR. HALLAM LEONARD MOVIUS, JR., Associate Professor of Anthropology, Harvard University. Studies of the origin and development of Upper Palaeolithic culture.

DR. ARTHUR LESLIE NEAL, Associate Professor of Biochemistry, Cornell University. A study of the biochemical relationship between plant pathogenic nematodes and their host plants.

DR. HANS NEURATH, Professor of Biochemistry, University of Washington. Studies with European authorities in the physical chemistry of proteins.

DR. ADA BLANCHE NISBET, Instructor in English, University of California, Los Angeles. A study of Charles Dickens and his relations with America.

DR. MAN CHIANG NIU, Research Associate, Department of Biology, Stanford University. Studies of the problem of embryonic induction and organization.

DR. HOWARD W. ODUM, Professor of Sociology, University of North Carolina. Studies of the regional character and folk culture of the South.

DR. CHESTER THOMAS O'KONSKI, Assistant Professor of Chemistry, University of California, Berkeley. Studies of aqueous solutions of macromolecules.

DR. MARION OWNBEY, Professor of Botany, State College of Washington. Studies of the interrelationships of species, especially of the genus *Tragopogon*.

MR. HAROLD PARIS, Artist, New York City. Creative printmaking.

MR. BRYAN PATTERSON, Curator of Fossil Mammals, Chicago Natural History Museum; Lecturer in Geology, University of Chicago. Studies of South American fossil vertebrates.

DR. ANN LOUISE PERKINS, Executive Editor of Dura Publications, Yale University. Studies of the archaeological history of Mesopotamia.

MR. BERNARD PERLIN, Painter, New York City. Creative painting.

DR. BEN EDWIN PERRY, Professor of Classics, University of Illinois. Studies of ancient Greek and Roman fables.

MISS JULIA AMANDA PERRY, Composer, New York City. Musical composition.

MR. CLARENCE J. PFAFFENBERGER, Public School Teacher, San Francisco, California. A study of the prediction of adult performance from early behavior in guide dogs for the blind.

DR. GEORGE CLAUDE PIMENTEL, Assistant Professor of Chemistry, University of California, Berkeley. Studies of experimental techniques in infrared spectroscopy.

DR. ROBERT ARMSTRONG PRATT, Professor of English, University of North Carolina. Studies in the history of the development of moral ideas in the Middle Ages.

DR. JOHANNES MAX PROSKAUER, Assistant Professor of Botany, University of California, Berkeley. Morphological studies of hepatic plants.

DR. MALCOLM JARVIS PROUDFOOT, Associate Professor of Geography, Northwestern University. A study of migration to the United Kingdom since 1939.

DR. ERNST PULGRAM, Associate Professor of Romance Languages and Classical Linguistics, University of Michigan. Studies in the linguistic history of Italy.

DR. HANS RADEMACHER, Professor of Mathematics, University of Pennsylvania. Studies of generalized modular functions belonging to real quadratic fields.

DR. NORMAN FOSTER RAMSEY, JR., Professor of Physics, Harvard University. Consultation and experimentation with European physicists with a view to the development of new ideas in the field.

DR. MELVIN WARREN REDER, Professor of Economics, Stanford University. A comparative study of the economic status of the aged in the United States and certain European countries.

DR. LLOYD GEORGE REYNOLDS, Sterling Professor of Economics, Yale University. An analysis of recent trends of wage rates in France, Sweden, Great Britain and the United States.

DR. MAX RHEINSTEIN, Professor of Comparative Law, University of Chicago. A study of the law of conflict of laws.

DR. MAX TOFIELD ROGERS, Associate Professor of Chemistry, Michigan State College, East Lansing. Studies of molecular structure.

DR. MAXWELL A. ROSENLICHT, Assistant Professor of Mathematics, Northwestern University. Study of noncomplete algebraic group varieties.

DR. EDWARD SHEARMAN ROSS, Curator of Entomology, California Academy of Sciences, San Francisco. Photographic studies of living insects in tropical environments.

DR. JUAN ROURA-PARELLA, Professor of Romance Languages and Humanities, Wesleyan University, Middletown, Connecticut. Studies of the philosophy of Wilhelm Dilthey.

MR. HENRY ROX, Sculptor, and Associate Professor of Art, Mount Holyoke College, South Hadley, Massachusetts. Creative sculpture.

DR. CARL P. RUSSELL, Superintendent, National Park Service, Yosemite Park, California. Studies of the history of the American West.

DR. WILLIAM FREDERICK SAGER, Associate Professor of Chemistry, George Washington University, Washington, D. C. Studies of the oxidation of organic systems by chromic acid and similar reagents.

PROFESSOR ROBERT L. SANDERS, Professor of Music, Brooklyn College. Musical composition.

MISS MAY SARTON, Poet, Cambridge, Massachusetts. Creative writing.

DR. CARL EMIL SCHORSKE, Associate Professor of History, Wesleyan University, Middletown, Connecticut. A study of the emergence of characteristic 20th century modes of thought in the period 1890-1914.

DR. ROBERT LANE SCOTT, Assistant Professor of Chemistry, University of California, Los Angeles. Studies of liquids and solutions, including those of high molecular weight.

DR. ARTHUR HAWLEY SCOUTEN, Associate Professor of English, University of Pennsylvania. Studies of the history of the London stage, 1660-1800.

DR. CHARLES SEYMOUR, JR., Associate Professor and Curator of Renaissance Art, Yale University. Study of 15th century Italian Renaissance sculpture.

PROFESSOR DENNIS GRANVILLE SHEPHERD, Professor of Mechanical Engineering, Cornell University. A study of the combustion of liquid fuels in an air stream adjacent to a surface.

DR. HARRISON SHULL, Assistant Professor of Physical Chemistry, Iowa State College. A theoretical study of the spectral properties of substituted benzenes.

DR. LEWIS PEARSON SIMPSON, Associate Professor of English, Louisiana State University. Studies of the symbolic significance of the idea of the "Republic of Letters."

DR. CHARLES S. SINGLETON, Professor of Italian Literature, Harvard University. Studies of the poetry of Dante's *Divine Comedy*.

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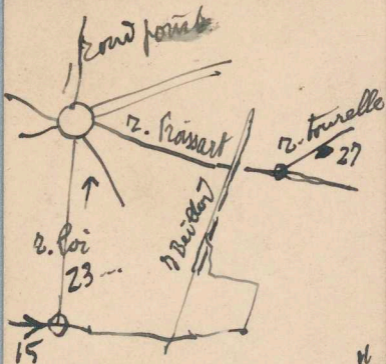
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- Finsler, Paul, Prof. Dr.** (Zürich, Schweiz)
Hotel Bristol.
- Fjeldstad, J. Ekman, Dr.** (Bergen, Norge)
Fru Fjeldstad
Hotel Nobel, Karl Johansgt. 33.
- Flamant, Mme, Prof.** (Strasbourg, Frankrike)
Hotel Savoy, Universitetsgt. 11.
- Flamant, Paul, Prof.** (Strasbourg, Frankrike)
Hotel Savoy, Universitetsgt. 11.
- Flores, Antonio I., Dr.** (Madrid, Spania)
Hotel Regina, Rådhusgt. 26.
- Földes, Stefan,** (Berlin)
Studenterhjemmets Hotel, Underhaugs-
veien 15.
- Fog, David, Dr.** (København, Danmark).
- Fraenkel, Adolf, Prof. Dr.** (Jerusalem, Palestina)
Hotel Regina, Rådhusgt. 26.
- Frank, Philipp, Prof. Dr.** (Praha, Tsjekkoslovakia)
Hotel Belvédère, Karl Johansgt. 35.
- Fréchet, Maurice, Prof.** (Paris)
Mme Fréchet
Norums Pensjonat, Bygdø Allé 53
- Freudenthal, Hans, Dozent Dr.** (Amsterdam, Holland)
Frau Freudenthal
Brækhus Pensjon, Holtegt. 26.

- Frisch**, Ragnar, Prof. Dr. (Oslo)
Slemdalsvn. 98. Vinderen.
- Frostman**, Otto, Docent Dr. (Lund, Sverige)
Fru Frostman
Hotel Regina, Rådhusgt. 26.
- Frugoni**, E. L. Ing. (Buenos Aires, Argentina).
- Fuchs**, Boris, Dozent (Tomsk, U. S. S. R.)
- Fueter**, R., Prof. (Zürich, Schweiz)
Frau v. Schulthess-Bodmer
Hotel Bristol.
- Fujiwara**, Matsusaburó, Prof. (Tohoku, Sendai, Japan)
Grand Hotel.
- Færden**, Fredrik, Major (Oslo)
„Glitne“, Drammensveien 4.
- Gandz**, Solomon, Prof. Dr. (New York, U. S. A.)
adr. Fru B. Lundervold, Arbingsgt. 13¹¹.
- Gelfond**, A. O., Prof. (Moskva, U. S. S. R.)
Forbundshospitset, Holbergs plass 1.
- Geppert**, Harald, Prof. Dr. (Gießen, Tyskland)
Rådhushotellet, Tordenskjolds Plass.
- Gillis**, Josef, Dr. (Sunderland, England)
Hotel Bristol.
- Givens**, Wallace (Princeton, N. J., U. S. A.)
Mr. C. M. Hughes
Aggersborgs Pensjonat, Bogstadveien 11.
- Godeaux**, Lucien, Prof. (Liège, Belgia)
Norums Pensjonat, Bygdø Allé 53.

- Golab**, Stanislaw, Dr. (Krakow, Polen)
 Mme Golab
 adr. Lektor Sverre Nordberg,
 Jac. Aallsgt. 30^{III}.
- Gran**, Olaf, Direktør (Oslo)
 Fru Gran
 Livsforskr.selskapet Gjensidige,
 Karl Johansgt. 16.
- Gran Olsson**, R., Dosent Dr. (Trondheim, Norge)
 Fru Gran Olsson.
- Graustein**, Mrs. (Cambridge, Mass., U. S. A.)
 Bristol Hotel.
- Graustein**, William C., Prof. (Cambridge, Mass., U. S. A.)
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- Grossmann**, K. H., Dr. (Zürich, Schweiz)
 Hotel City, Skippergt. 19.
- Grottdal**, Ivar, Sekretær (Oslo)
 Fru Grottdal
 Forsikringsrådet, Klingenberggt. 2.
- Grunsky**, H., Dr. (Berlin)
 Pensjon „Ro“, Sven Brunsgt. 9.
- Grünbergs**, E., cand. math. (Paris)
 Norums Pensjonat, Bygdø Allé 53.
- Guldberg**, Fru Professor (Oslo)
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- Guldberg**, Sven D., Stud. akt. (Oslo)
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- Gumbel**, E. I., Chargé de recherches (Lyon, Frankrike)
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Hotel Westminster, Karl Johansgt. 45.
- Haenzel, Gerhard, Prof. Dr.** (Karlsruhe, Tyskland)
Rådhushotellet, Tordenskjolds Plass.
- Hagstroem, Karl-Gustav, Dr.** (Saltsjöbaden, Sverige)
Fru Hagstroem.
Grand Hotel.
- Hall, Philip, M. A.** (Cambridge, England)
Pensjon Ritz, Fredrik Stangsgt. 3.
- Halpern, Ada, lic. ès sc. math.** (Genève, Schweiz)
Mme Irène Halpern.
Grand Hotel.
- Hamel, Georg, Prof. Dr.** (Berlin)
Hotel Bristol.
- Harbitz, Georg, Aktuarkandidat** (Oslo)
Kirkeveien 147 D.
- Harris, Isabel, Prof.** (Richmond, Va., U. S. A.)
Oslo Misjonshotel, Kirkegt. 5.
- Hartree, D. R., Prof.** (Manchester, England)
Mrs. Hartree
Miss K. Grundwell
Hotel Belvedere, Karl Johansgt. 35.
- Hasse, Helmut, Prof. Dr.** (Göttingen, Tyskland)
Pensjon Frogner, Fredrik Stangsgt. 33.
- Hassé, H. R., Prof.** (Bristol, England)
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Vettakollen Turisthotel, Skådalen.

- Haugland, Arne**, Student (Oslo)
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Åsaveien 22^{III}, Vestre Aker.
- Hecke, Erich**, Prof. Dr. (Hamburg, Tyskland).
Hotel Westminster, Karl Johansgt. 45.
- Heegaard, Poul**, Prof. Dr. (Oslo)
Fru Heegaard
Holmenbukta.
- Heilbronn, Hans.**, Dr. (Cambridge, England)
Pensjon Frogner, Fredrik Stangsgt. 33.
- Heisig, Herbert**, Dr. (Leipzig, Tyskland).
Pensjon Ritz, Fredrik Stangsgt. 3.
- Hessaby, M.**, Prof. Dr. (Téhéran, Iran)
Pensjon Frogner, Fredrik Stangsgt. 33.
- Hesselberg, H. T.**, Dr. (Oslo)
Fru Hesselberg
Sophus Liesgt. 10.
- Hesselberg, Ivar**, Direktør (Oslo)
Fru Hesselberg
Livsforsikr.selsk. Idun, Kirkegt. 24.
- Heywood, H. B.**, Dr. (North Harrow, Middlesex,
England)
Gabelhus Pensjonat, Gabelsgt. 16.
- Higman, Graham** (Oxford, England)
Gabelhus Pensjonat, Gabelsgt. 16,
- Hirsch, Kurt A.**, Dr. (Cambridge, England)
Mrs. Hirsch
adr. Abrahamsen, Linstowsgt. 7.
- Hlavatý, Václav**, Prof. Dr. (Praha, Tsjekkoslovakia)
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Hotel Regina, Rådhusgt. 26.

- Hodge**, W. V. D., M. A. (Cambridge, England)
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- Hoel**, Trygve, Aktuar (Oslo)
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- Horák**, Zdenek, Dr. (Praha, Tsjekkoslovakia).
- Hurewicz**, Witold, Dozent Dr. (Amsterdam, Holland)
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- Hyen**, Liou Tsyun, Prof. (Canton, Kina).
- Hylleraas**, Egil A., Dr. (Bergen, Norge)
Fru Hylleraas.
- Hössjer**, Gustav, Docent (Malmö, Sverige)
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- Idtse**, Theodora, (Chicago, Ill., U. S. A.)
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- Institut Mathématique** (Nancy, Frankrike)
- Inverarity**, W. M. M. A. (Renfrewshire, Scotland)
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- Ivanoff**, A., Dr. (Sofia, Bulgaria)
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- Jaccottet**, Charles, Dr. (Lutry, Schweiz)
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- Janet**, Maurice, Prof. (Caen, Frankrike)
Mme Janet
Hotel Regina, Rådhusgt. 26.

- Jarník**, Vojtěch, Prof. (Praha, Tsjekkoslovakia)
Mme Jarníková
Hotel Regina, Rådhus gt. 26.
- Jebsen**, G. S., Cand. mag. (Oslo)
adr. A. Johannesen, Odens gt. 25¹.
- Jeffery**, G. B., Prof. (London).
- Jelitai**, József, Dr. (Budapest, Ungarn)
Dr. Frau Mariá Lajos
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veien 15.
- Jessen**, Børge, Prof. Dr. (København, Danmark)
Fru Jessen
Hotel Continental, Stortingsgt. 24.
- Joffe**, Solomon A., (New York, U. S. A.)
Mrs. Joffe
Grand Hotel, Karl Johansgt. 31.
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- Johnson**, Marie M., Prof. (Oberlin, Ohio, U. S. A.)
Mrs. Ellen Johnson
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- Jouravsky**, André, Prof. (Leningrad, U. S. S. R.)
- Julia**, Gaston, Prof. (Paris)
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- Junnila**, Arvo, Mag. phil. (Helsingfors, Finland)
Hotel Rose, Drammensveien 97.
- Jørgensen**, Aage, cand. mag. (København, Danmark)
adr. fru Grundtvig, Bygdø Allé 13.

- Kaczmarz**, Stefan, Dozent Dr. (Lwów, Polen)
Rynnings Pensjonat, Huitfeldtsgt. 22.
- Kampé de Feriet**, J., Prof. (Lille, Frankrike).
- Kantorovitch**, L., Prof. Dr. (Leningrad, U. S. S. R.).
- Kantz**, Georg, Prof. Dr. (Graz, Østerrike)
Pensjon Frogner, Fredrik Stangsgt. 33.
- Karamata**, Jovan, Dozent, (Zemun, Jugoslavia)
Frau Karamata
Fräulein Nada Stefanović.
Aggersborgs Pensjonat, Bogstadveien 11.
- Kasner**, Edward, Prof. (New York, U. S. A.).
- Kaufmann**, Boris, Dr. phil. (Cambridge, England).
Pensjon „Ro“, Sven Brunsgt. 9.
- Keeping**, Ernest S., Prof. (Edmonton, Alberta, Canada)
Mrs. Keeping
Aggersborgs Pensjonat, Bogstadveien 11.
- Keldysch**, Mstislaw, Maître de conférences, (Moskva,
U. S. S. R.)
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- Kerékjártó**, B. de Prof. (Szeged, Ungarn)
Forbundshospitet, Holbergs plass 1.
- Khintchine**, A. Prof. Dr. (Moskva, U. S. S. R.).
Hotel Westminster, Karl Johansgt. 45.
- Kiebel**, I. (Leningrad, U. S. S. R.).
- Kivikoski**, Ensio, Prof. (Helsingfors, Finland)
Hotel Rose, Drammensveien 97.
- Kloostermann**, H. D., Dr. (Leiden, Holland)
Rådhushotellet, Tordenskjolds plass.

- Knudsen**, Arne, Aktuarkandidat, (Oslo)
Blommenholm, pr. Oslo.
- Köthe**, Gottfried, Dozent Dr. (Münster i W., Tyskland)
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- Koebe**, Paul, Prof. Dr. (Leipzig, Tyskland).
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- Kössler**, M., Prof. Dr. (Praha, Tsjekkoslovakia).
- Kogbetliantz**, Ezzvand, Prof. Dr. (Téhéran, Iran)
Mme Kogbetliantz
Pensjon Frogner, Fredrik Stangsgt. 33.
- Kolman**, Ernest, Prof. Dr. (Moskva, U. S. S. R.).
- Kolmogoroff**, André, Prof. Dr. (Moskva, U. S. S. R.)
Hotel Westminster, Karl Johansgt. 45.
- Korínek**, Vladimír, Prof. (Praha, Tsjekkoslovakia)
Pensjon Ritz, Fredrik Stangsgt. 3.
- Kotchine**, Nicolas, Prof. Dr. (Moskva, U. S. S. R.).
- Kowalewski**, G., Prof. Dr. (Dresden, Tyskland).
- Kraitchik**, Maurice, Agrégé à l'Université (Bruxelles,
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Mme Kraitchik
Hotel Belvédère, Karl Johansgt. 35.
- Krieger**, Miss Cypra C. Dr. (Toronto, Canada)
Hotel Regina, Rådhusgt. 26
- Kristensen**, Sigurd, Cand. Mag. (København, Danmark)
Fru Kristensen
adr. Fru Marie Rynning, Huitfeldtsgt. 22^{II}.
- Kryloff**, M. Nicolas, Prof. Dr. (Kieff U. S. S. R.)
Hotel K. N. A., Parkveien 68.

- Kuniyeda, M.**, Prof. Dr. (Tokyo, Japan).
Grand Hotel.
- Kupradzé, Victor**, Prof. Dr. (Tiflis, U. S. S. R.).
- Kuratowski, C.**, Prof. Dr. (Warszawa, Polen)
- Lange-Nielsen, Fr.**, Direktør, (Oslo)
Fru Lange-Nielsen.
Mogens Thorsensgt. 9.
- Larson, Julius**, Ing. (Tösse, Sverige)
adr. fru Grundtvig, Bygdø Allé 13.
- Lauritzen, Svend**, Mag. Scient. (København, Danmark)
Hotel Nobel, Karl Johansgt. 33.
- Lavrentieff, Michel**, Prof. Dr. (Moskva, U. S. S. R.)
Hotel Norge, Stortingsgt. 8—10.
- Lefschetz, Salomon**, Prof. (Princeton, N. J., U. S. A.).
Mrs. Lefschetz
Søstrene Larsens Hotel, Karl Johansgt. 39
- Lehmer, D. N.**, Prof. Dr. (Berkeley, Calif., U. S. A.).
- Leimanis, Eugène**, Chargé de Cours, (Riga, Latvia)
Norums Pensjonat, Bygdø Allé 53.
- Leja, François**, Prof. Dr. (Warszawa, Polen)
Pensjon Ritz, Fredrik Stangsgt. 3.
- Lemaître, Georges** Prof. (Louvain, Belgia)
Hotel Astoria, Akersgt. 21.
- Lenzen, Victor F.**, Ph. D. (Berkeley, U. S. A.).
Hotel Fønix, Dronningensgt. 19.
- Lepage, Th. H. J.**, Prof. (Bruxelles, Belgia)
Norums Pensjonat, Bygdø Allé 53.
- Lettenmeyer, F.**, Dr. (München, Tyskland).

- Lietzmann**, Walter, Prof. Dr. (Göttingen, Tyskland)
Norums Pensjonat, Bygdø Allé 53.
- Lindelöf**, Ernst, Prof. (Helsingfors, Finland).
Hotel Rose, Drammensveien 97.
- Linder**, Arthur, Dr. (Bern, Schweiz)
Pensjon Ritz, Fredrik Stangsgt. 3.
- Livens**, G. H. Prof., (Cardiff, England).
- Ljunggren**, Wilhelm, Lektor, (Bergen, Norge).
- Locher**, Louis, Prof. Dr. (Winterthur, Schweiz)
Frau Locher-Ernst.
- Lochs**, Gustav, Dr. (Kennelbach, Vorarlberg, Østerrike)
Stortingsmannspensjonatet, Fritznersgt. 21.
- Logsdon**, M. I. Mrs., Prof. Dr. (Chicago, Ill., U. S. A.)
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- Loor de**, Barend, Dr. (Pretoria, South African Union)
Mrs. de Loor.
Forbundshospitset, Holbergs plass 1.
- Lorch**, E., Director (New York, U. S. A.)
Hotel Fønix, Dronningensgt. 19.
- Lorey**, Wilh. Prof. Dr. (Frankfurt a/M. Tyskland).
- Loukas**, K., Prof. (Hellas)
- Lukács**, Eugen, Dr. (Wien, Østerrike)
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- Luse**, Eva May, Prof. Dr. (Cedar Falls, Iowa, U. S. A.)
Miss Clara Luse
Norums Pensjonat, Bygdø Allé 53.
- Lusin**, Nicolas, Prof. Dr. (Moskva, U. S. S. R.).

- Lusis**, Arveds, Maitre de conférences, (Riga, Latvia)
Frau Lusis.
Hotel Belvedere, Karl Johansgt. 35.
- Løvenskiold**, Henny, fru (Oslo)
Bærums Verk, Bærum.
- McConnell**, A. J., Prof. (Dublin, Irland)
Mrs. McConnell
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- McCrea**, W. H., Prof. Dr. (London)
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- Macintyre**, A. J. Dr. (Sheffield, England).
- McShane**, E. J., Prof. (Charlottesville, Va, U. S. A.)
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- Magennis**, A. T., Prof. (Cork, Irland)
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- Mahler**, Kurt, Dr. (Groningen, Holland)
Studenterhjemmets Hotel, Underhaugs-
veien 15.
- Mandelbrojt**, S., Prof. (Clermont-Ferrand, Frankrike)
Pensjon Ritz, Fredriks Stangsgt. 3.
- Marke**, P. W., Mag. Scient. (København, Danmark)
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- Markoff**, André, Dr. (Leningrad, U. S. S. R.)
Grand Hotel
- Martin**, W. T., Dr. (Princeton, N. J., U. S. A.)
Aggersborgs Pensjonat, Bogstadveien 11.
- Marty**, F. Prof. (Marseille, Frankrike)
Hotel Nobel, Karl Johansgt. 33.
- Mason**, Ruth G., Dr. (Frederick, Md., U. S. A.)
Norums Pensjonat, Bygdø Allé 53.

- Mathiessen**, R., cand. mag. (København, Danmark)
- Matsumura**, S., Prof. (Taihoku, Formosa, Japan).
- Mayr**, Karl, Prof. Dr. (Graz, Østerrike)
adr. Frk. Lundeby, Incognitogt. 24 B.
- Mazur**, Stanislaw, Dr. (Lwów, Polen).
- Meidell**, Birger, Prof. (Oslo)
Frognerveien 102.
- Menger**, Karl, Prof. (Wien, Østerrike)
Brækhus Pensjonat, Holtegt. 26.
- Merlin**, Emile, Prof. (Gand, Belgia).
Oslo Misjonshotel, Kirkegt. 5.
- Metzner**, Prof. Dr. Ministerialrat, (Berlin, Tyskland).
- Milloux**, Henri, Prof. (Bordeaux, Frankrike)
Mme Milloux
Fru L. Roesen, Eilert Sundtsgt. 40.
- Milne**, E. A. Prof. (Oxford, England)
Søstrene Larsens Hotel, Karl Johansgt. 39.
- Molina**, Edward, C. Switching Theory Engineer
Mrs. Molina (New York, U. S. A.)
Hotel Bristol.
- Mollerup**, J., Prof. Dr. (København, Danmark).
Pensjon Norum, Bygdø Allé 53.
- Moore**, Thomas W., Dr. (Annapolis, Md., U. S. A.)
adr. Fru Anna Gjerde, Camilla Colletts
vei 10.
- Moovert**, Thomas W., Dr. (Minneapolis, Minn., U. S. A.).
- Mordell**, L. J., Prof. (Manchester, England)
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Miss Mordell
Pensjon Ritz, Fredrik Stangsgt. 3.

- Morenus**, Eugenie M., Prof. Dr. (Sweet Briar, Va., U. S. A.)
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- Moritz**, Robert E., Prof. Dr. (Seattle, Wash., U. S. A.)
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- Morley**, Frank, Prof. (Baltimore, Md., U. S. A.)
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- Motzkin**, Theodor, Dr. (Jerusalem, Palestina)
Mrs. Motzkin
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- Mulholland**, H. P., Dr. (Newcastle, England)
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- Mullemeister**, Hermance, Miss (Seattle, Wash., U. S. A.)
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- Muschelišvili**, N., Prof. Dr. (Tiflis, U. S. S. R.)
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- Musselman**, J. R., Prof. Dr. (Cleveland, Ohio, U. S. A.)
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- Müntz**, Herman, Prof. Dr. (Leningrad, U. S. S. R.)
Mme Müntz
Pensjon Frogner, Fredrik Stangsgt. 33.
- Nagell**, Trygve, Prof. (Upsala, Sverige).
- Nagy**, Jules S., Prof. Dr. (Szeged, Ungarn).
- Naudy**, Marthe, Melle (Paris, Frankrike)
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- Nemenyi**, Paul, Dr. (København, Danmark)
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- Neugebauer**, Otto, Prof. Dr. (København, Danmark)
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- Neumann**, Bernhard H., Dr. (Cambridge, England)
adr. Lektor Sverre Nordberg, Jacob
Aallsgt. 30^{III}.
- Nevanlinna**, Rolf, Prof. (Helsingfors, Finland)
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Hotel Belvedere, Karl Johansgt. 35.
- Neville**, E. H. (Reading, England)
Mrs. M. Neville
Pensjon Norum, Bygdø Allé 53.
- Newman**, Maxwell H. A., M. A. (Cambridge, England)
Mrs. Newman
Pensjon Frogner, Fredrik Stangsgt. 33.
- Nielsen**, Jakob, Prof. (København, Danmark)
Hotel Norge, Stortingsgt. 8—10.
- Noether**, Fritz, Prof. Dr. (Tomsk, U. S. S. R.)
Pensjon Frogner, Fredrik Stangsgt. 33.
- Nordlund**, J. O., Dr. (Hudiksvall, Sverige)
Michelsens Pensjonat, Anton Schjødtsgt. 4.
- Norman-Johannessen**, Kai, Aktuarkandidat (Bergen,
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- Novikoff**, Pierre, Prof. (Moskva, U. S. S. R.)
- Nuut**, J., Dozent (Tartu, Estland)
adr. Helga Wittusen, St. Olavsgt. 13.

- Nyström**, E. J., Dozent (Helsingfors, Finland)
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- Næss**, Almar, Rektor Dr. (Levanger, Norge)
- Nørlund**, N. E., Prof. Dr. (København, Danmark)
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- Obrechhoff**, N., Prof. Dr. (Sofia, Bulgaria)
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- Odhnoff**, Waldemar, Fil. lic. (Stockholm, Sverige)
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- Offord**, Albert Cyril, Dr. (Cambridge, England)
Regina Hotel, Rådhusgt. 26.
- Oguiewetzki**, I., Prof. (Dniebtopetrowsk, U. S. S. R.).
- Oldenburger**, R., Dr. (Chicago, U. S. A.)
Mrs. Oldenburger
Gabelhus Pensjonat, Gabelsgt. 16.
- Omara**, M. A. (Kairo, Egypt)
Pensjon Ritz, Fredrik Stangsgt. 3.
- Onicescu**, Octav, Prof. (Bucuresti, Romania)
Mme Onicescu
adr. Erichsen, Cort Adellers gt. 18^{II}.
- Oppegaard**, K. F., Ingeniør (Oslo)
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- Ore**, Øystein, Prof. Dr. (New Haven, Conn., U. S. A.)
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Henrichsensgt. 3.
- Orlicz**, W., Dr., (Lwów, Polen).
- Orloff**, M. Chr., (Kieff, U. S. S. R.).

- Oseen**, C. W., Prof. Dr. (Stockholm, Sverige)
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- van Oss**, Dr. S. L. (Oegstgeest, Holland)
- Ottestad**, Per Dr. (Oslo)
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- Paatero**, V., Dr. (Helsingfors, Finland)
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- Pál**, I. F., Dosent dr. (København, Danmark)
Pensjon „Ro“, Sven Bruns gt. 9^{III}.
- Palazzo**, Elena, Prof. Dr. (Roma, Italia)
Mme Palazzo
Dr. Livia de Angelis
adr. Fru Hansen, Bergsliensgt. 2.
- Palmström**, Henrik, Aktuar (Oslo)
Fru Palmström
Livsforsikr.selsk. „Brage“, Prinsensgt. 22.
- Pantazi**, A., Prof. Dr. (Bucuresti, Romania)
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adr. Fru Rynning, Huitfeldtsgt. 22.
- Du Pasquier**, L. G., Prof. Dr. (Neuchâtel, Schweiz)
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- Peschl**, Ernst. Dr. (Jena, Tyskland).
- Perkins**, F. W., Prof. (Hannover, New Hampshire,
U. S. A.)
Mrs. Perkins
Miss G. Perkins
Hotel Nobel, Karl Johans gt. 33.

- Perrin**, M. Louis (Reims, Frankrike)
Pensjon Ritz, Fredrik Stangs gt. 3.
- Persson**, K. F. E., Fil. lic. (Stockholm, Sverige)
Rådhushotellet. Tordenskjolds plass.
- Péter**, Rózsa, Dr. (Budapest, Ungarn)
Brækhus Pensjonat, Holtegt. 26.
- Petersen**, Richard, Dosent Dr. (København, Danmark)
Fru Petersen
Grand Hotel.
- Petterson**, Erik L., Fil. lic. (Hässelby Villastad, Sverige)
Herr Curt Landon
Fru I. Landon
Stortingsmannspensjonatet, Fritznersgt. 21.
- Pfeiffer**, G. Prof. Dr. (Kieff, U. S. S. R.)
Pensjon Ritz, Fredik Stangs gt. 3.
- Phillip**, Erik, Ing. (Stockholm, Sverige)
Grand Hotel.
- Piccard**, Sophie, Dr. (Neuchâtel, Schweiz)
Mme E. Piccard
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- Poiter**, Rey (Madrid, Spania).
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- Popken**, Jan, Dr. (Groningen, Holland).
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- Potron**, Maurice, Prof. Dr. (Paris).
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- Privaloff**, J. J., Prof. Dr. (Moskva, U. S. S. R.).
- Przibram**, Hans Prof. (Wien)
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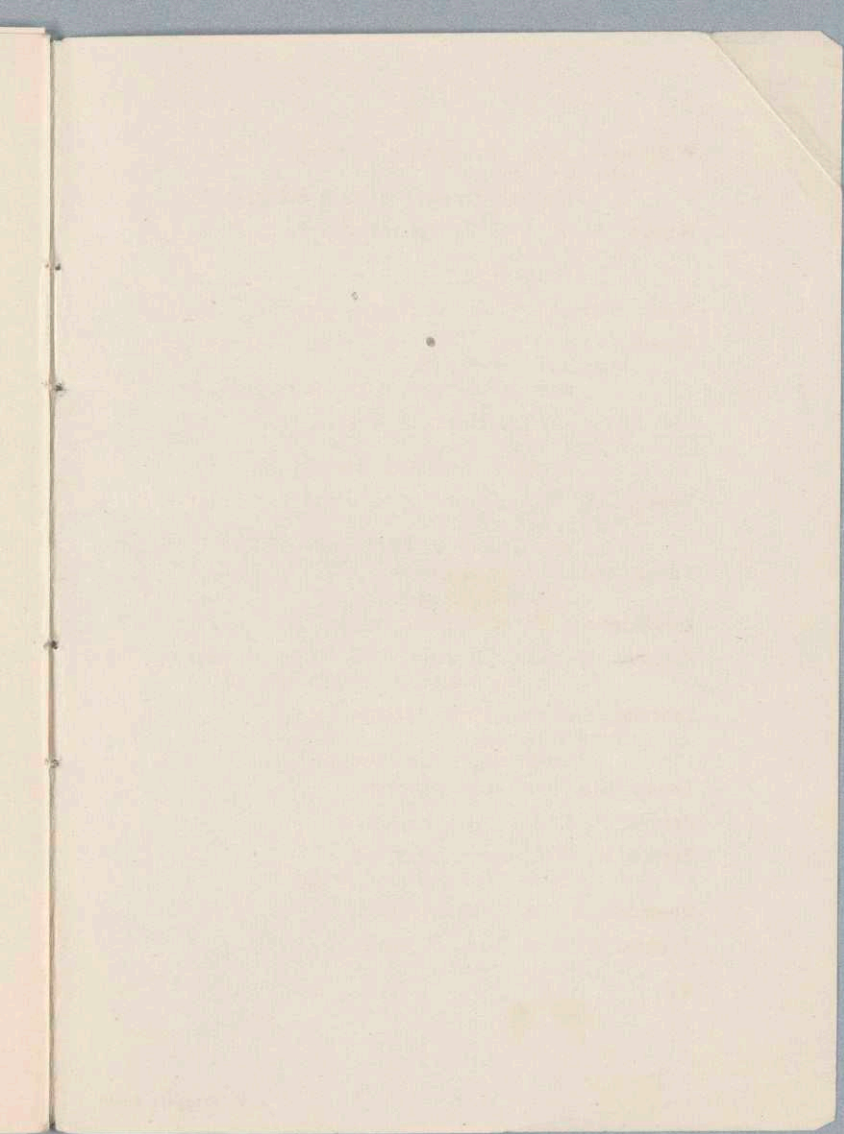
- Timms, Geoffrey Dr.** (Fife, Scotland)
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- Timpe, Aloys, Prof. Dr.** (Berlin)
Frau Timpe
adr. Kristina Lundervold, Arbinsgt. 13.
- Todd, John Arthur Dr.** (Liverpool, England)
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- Todd, John** (Belfast, Irland)
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Miss Hester Williams
Miss Christine Williams.

- Williamson**, John, Dr. (Dundee, Scotland)
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- Zarankierwicz**, K. (Warszawa, Polen).
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- Zylinski**, E. Prof. (Lwow, Polen).



On the Queen Elizabeth;

[ca. 1951]

Mr. & Mrs. Bert Macleech
Tourist K-18

NAMES & ADDRESSES

France

Mr. and Mrs. Donald MacJannet
MacJannet Camps
Talloires
Hte. Savoie

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Chez. Mme. Parra-Parez

Dr. Henri Chevalier
133 Boulevard Malesherbes
Paris XVII

(Wrote to you in Nov. sending an article published in Figaro on Cyb. You wrote you hoped to see him in Paris.)

Mlle. L. Labioz
Clairfleurie, Maison d'enfants
Trevignin
Savoie, France.

(Wrote in November about a deaf child; you said you might call her and come to see her when you're near Savoie.)

M. G.Th. Guilbaud
Institut de Science Economique Applique
33 Boulevard des Capucines
Paris 2

(From Richard Goodwin, Harvard, Econ. Dept. who wrote: "He is interested in economic theory, networks, econ. statistics, & theory of games. You will find him lively...")

Switzerland

Professor B. Van der Pol
22 Chemin Krieg
Geneva.

M. Gilbert Michel
bei Kriemler
Beckhammerstrasse 33
Zurich 6/57

(You wrote him that you'd like to see him, and asked him to write you at once c/o C.N.R.S. in Paris.)

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NATIONAL ACADEMY OF SCIENCES - NATIONAL RESEARCH COUNCIL
2101 Constitution Avenue, Washington 25, D. C.

MEMBERS AND COMMITTEES OF THE

DIVISION OF MATHEMATICS

July 1, 1957

Chairman: Paul A. Smith

Vice Chairman and

Chairman Designate: S. S. Wilks

Executive Secretary: Harold W. Kuhn

Past Chairman: A. A. Albert

Executive Committee

Chairman: P. A. Smith

M. R. Hestenes

Deane Montgomery

R. F. Rinehart

J. B. Rosser

J. L. Walsh

(Elected by the Division at Annual Meeting, May 18, 1957)

MEMBERS OF THE DIVISION

REPRESENTATIVES OF SOCIETIES

Term Expires

June 30

American Mathematical Society

C. B. Allendoerfer, University of Washington	1959
K. O. Friedrichs, New York University	1960
S. C. Kleene, University of Wisconsin	1959
D. H. Lehmer, University of California	1958
N. H. McCoy, Smith College	1960
N. E. Steenrod, Princeton University	1958

Mathematical Association of America

H. M. Gehman, University of Buffalo	1959
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Institute of Mathematical Statistics

W. A. Wallis, University of Chicago	1960
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Biometric Society, Eastern North American Region

J. W. Tukey, Princeton University	1959
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National Academy of Sciences, Mathematics Section

J. L. Walsh, Harvard University	1959
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	<u>Term Expires</u> <u>June 30</u>
<u>American Physical Society</u>	
Valentine Bargmann, Princeton University	1960
<u>Association for Symbolic Logic</u>	
J. B. Rosser, Cornell University	1960
<u>Econometric Society</u>	
K. J. Arrow, Center for Advanced Study in the Behavioral Sciences	1960
<u>Operations Research Society of America</u>	
Robert F. Rinehart, Case Institute of Technology	1958
<u>Society for Industrial and Applied Mathematics</u>	
George W. Patterson, University of Pennsylvania	1958
<u>MEMBERS AT LARGE</u>	
A. A. Albert, University of Chicago	1958
M. R. Hestenes, University of California	1959
A. S. Householder, Oak Ridge National Laboratory	1958
Nathan Jacobson, Yale University	1959
Deane Montgomery, Institute for Advanced Study	1958
C. E. Shannon, Massachusetts Institute of Technology	1960
<u>LIAISON REPRESENTATIVES</u>	
<u>Office of Ordnance Research, United States Army</u>	
J. J. Gergen, Acting Director, Mathematical Sciences Division, Office of Ordnance Research, Box CM, Duke Station, Durham, North Carolina	1959
<u>Office of Naval Research</u>	
F. J. Weyl, Director, Mathematical Sciences Division, Office of Naval Research, Washington 25, D. C.	1959
<u>Air Force Office of Scientific Research</u>	
M. M. Andrew, Chief, Mathematics Division, Air Force Office of Scientific Research, Air Research and Development Command, Attn: SROAM, Washington 25, D. C.	1959
<u>National Science Foundation</u>	
L. W. Cohen, Program Director for Mathematical Sciences, National Science Foundation, Washington 25, D. C.	1959
<u>National Bureau of Standards</u>	
E. W. Cannon, Chief, Applied Mathematics Division, National Bureau of Standards, Washington 25, D. C.	1959
<u>Atomic Energy Commission</u>	
J. R. Pasta, Physics and Mathematics Branch, Division of Research, Atomic Energy Commission, Washington 25, D. C.	1959

REPRESENTATIVES OF THE DIVISION OF MATHEMATICS ON THE NAS-NRC
COMMITTEE ON BASIC RESEARCH, ADVISORY TO THE OFFICE OF ORDNANCE RESEARCH

L. V. Ahlfors	1958	Nathan Jacobson	1959	R. F. Rinehart	1959
T. W. Anderson, Jr.	1958	M. R. Hestenes	1960	N. E. Steenrod	1959

COMMITTEES OF THE DIVISION OF MATHEMATICS

(The Chairman of the Division is, in accordance with the bylaws, a member of all committees of the Division)

(All committees listed below were appointed by the Chairman of the Division with the approval of the Executive Committee and of the President of the National Academy of Sciences - National Research Council)

(Note: All following committee appointments terminate June 30 of the year indicated unless otherwise stated)

Nominating Committee

(Nominates members of the Division and Committee members)

Chairman:	P. A. Smith	1958		
	M. R. Hestenes	1958		
	N. E. Steenrod	1958		

Committee on Postdoctoral Fellowships

(Appraises applications in the field of mathematics and makes recommendations to the NSF Postdoctoral Fellowship Evaluation Board in the Natural Sciences concerning National Science Foundation Fellowships. This board also evaluates applications in pure and applied mathematics for research associateships in the programs of the National Bureau of Standards and the Naval Research Laboratory)

Chairman:	P. A. Smith	1958	Edwin Hewitt	1960
	Nelson Dunford	1958	L. H. Loomis	1958
	Wallace Givens	1959	G. B. Price	1959

Committee on Mathematics

Advisory to the Committee on International
Exchange of Persons (Fulbright Committee)

(Appraises applications for Fulbright awards in the field of mathematics)

Chairman:	J. B. Rosser	1957		
	D. G. Bourgin	1957	E. J. McShane	1957
	Fritz John	1957	D. C. Spencer	1957

Committee on Mathematics
Advisory to the Office of Naval Research

Chairman: S. S. Cairns 1958
L. V. Ahlfors 1958 S. Kakutani 1958
R. P. Dilworth 1960 I. Kaplansky 1960
M. H. Heins 1958 L. Zippin 1960

United States National Committee
International Mathematical Union

(Makes recommendations to the National Academy of Sciences - National Research Council in all matters pertaining to the International Mathematical Union)

Chairman: Saunders Mac Lane 1959
A. A. Albert 1961 L. V. Ahlfors 1959
Richard Courant 1959 Richard Brauer 1961
Deane Montgomery 1961 J. L. Doob 1959
S. S. Wilks 1959 Nathan Jacobson 1961
(Nominated by the Policy Committee) (Nominated by the Division)

Committee on Applications of Mathematics

(Takes all actions it deems appropriate in order to enhance the effectiveness of mathematics in its applications)

Chairman: A. S. Householder 1958
P. R. Garabedian 1960 Mina S. Rees 1959
Leonid Hurwicz 1959 R. F. Rinehart 1959
Morris Ostrofsky 1959 C. E. Shannon 1960
William Prager 1959 S. M. Ulam 1958

Committee on Scientific Conferences

(Suggests topics in mathematics suitable for small conferences and a committee for each such conference)

Chairman: Richard Brauer 1958
Nelson Dunford 1959 K. O. Friedrichs 1960
William Feller 1958 M. M. Schiffer 1958

Committee on Editing Journal
"Mathematical Tables and Other Aids to Computation"

(Determines scope of journal, arranges for preparation of manuscripts and referees material submitted for publication)

Chairman: C. B. Tompkins 1960
C. C. Craig 1960 C. V. L. Smith 1960
Alan Fletcher 1959 A. H. Taub 1960
Eugene Isaacson 1960 Henry Wallman 1959

Committee on Revolving Fund for Publication of Mathematical Tables

(Administers the fund so named)

Chairman:	Arthur Erdélyi	1958	Olga T. Todd	1960
	H. O. Hartley	1958	C. B. Tompkins	1959

Committee on Revolving Fund for Publication of Mathematical Books

(Advises on and encourages the publication of mathematical books not readily financed through other channels)

Chairman:	N. E. Steenrod	1959		
	Lipman Bers	1960	J. L. Doob	1958

Committee on Regional Development

Chairman:	F. A. Ficken	1958	C. C. MacDuffee	1959
	L. W. Johnson	1960	Ivan Niven	1959
	Walter Leighton	1958	R. D. Schafer	1960

Committee on Travel Grants

Chairman:	Marston Morse	1959	J. W. Green	1959
	L. W. Cohen	1959	N. E. Steenrod	1959
	Richard Courant	1959	S. S. Wilks	1959

Committee on Educational Policy

Chairman:	S. S. Cairns	1958		
	W. L. Duren, Jr.	1958	G. B. Price	1958
	H. F. Fehr	1958	A. W. Tucker	1958

Committee on Revision of Mathematical Tables

Chairman:	P. M. Morse	1958		
	Arthur Erdélyi	1958	H. C. Thacher, Jr.	1958
	M. C. Gray	1958	John Todd	1958
	N. C. Metropolis	1958	C. B. Tompkins	1958
	J. B. Rosser	1958	J. W. Tukey	1958

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