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Collection Title: Philip Dow Collection

Collection Number: MSS004

Creator: Philip Dow

Dates: 1930-1981

Extent/Size: 9.63 linear feet, 21 boxes

Access Restrictions: Unrestricted access

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Biographical/Historical Note:

Philip Dow, Ph.D., was born in Ann Arbor, Michigan on 20 June 1905. He obtained a Bachelor of Science from the University of Michigan in 1927, majoring in chemistry. While he studied and researched for his Ph.D. in General Physiology at Yale University, he served as an Assistant in Physiological Chemistry (1928-1930) and a Reader in Applied Physiology (1929-1932). He received his Ph.D. from Yale in 1935. His dissertation, “The Absorption of Egg Albumin on Collodion Membranes” was published in the Journal of General Physiology in 1936 (vol. 19, 907-916).

Dow began working at the Medical College of Georgia as a Research Fellow in 1935 under the direction of William F. Hamilton, Professor and Chairman of the Physiology and Pharmacology Department. From Research Fellow he served as a Professor of Physiology at MCG with the exception of the year he took as a leave of absence to serve as a Senior Instructor in Physiology at the
Western Reserve University (1939-1940). In 1960 he became Chairman of the Physiology Department upon the retirement of Hamilton. Dow served in this capacity until his retirement in 1971, and he was named Professor Emeritus in 1972, which he maintained until his death on 17 December 1981.

Dow worked on physiological and clinical cardiovascular studies, including dye-dilution curves and dilution methods for measuring blood flow. He published numerous articles in the following fields: General Physiology, arterial pulse, blood flow, dyes and blood volume, and spectrophotometry.

Dow was a member of the American Physiological Society (1939). In 1945 to 1946 he was a member of the committee appointed by the APS to conduct a national survey of physiologists. He served as section editor of the Journal of American Physiology, and Executive Editor of the Circulation Section of the Handbook of Physiology, as well as on the committee for Physiology questions for the National Board of Examiners.

Dow served on various campus committees while on the Medical College of Georgia Faculty. His most extensive contribution to MCG outside the classroom and laboratory was his organization and execution of the yearly Commencement exercises.

Scope and Content:

The Philip Dow Collection contains personal, research-related, and professional correspondence; drafts and final copies of research papers; Medical College of Georgia memos, committee minutes, administration plans and procedures, and Commencement files; Physiology lecture notes, class lab experiments, and exams; research grant reports and applications; American Physiological Society correspondence; and two plaques. In 2017 a photograph collection belonging to Dow was transferred from the Reese Library Special Collections on the Augusta University Summerville Campus to the Greenblatt Library Historical Collections and Archives.

Arrangement:

Organized into eight series: (1) Personal Papers; (2) MCG Papers; (3) William F. Hamilton and Miscellaneous Papers; (4) MCG Department of Physiology Papers; (5) Research Papers; (6) Correspondence Papers; (7) Professional Societies Papers; (8) Plaques; (9) Phototographs.

Series I: Personal Papers, 1935-1971, 1 box

Box 1
Folder 1: Curriculum Vitae
Folder 2: "Notice of Appointment" Contracts with MCG, 1935-1971 (not every year)
Folder 3: Personal Electrocardiograms, 1937, 1942, 1944
Folder 4: Western Reserve University, 1939-1956
Folder 5: "Problems for You" (word puzzles, etc.)
Folder 6: "Puzzles, etc." (math games)
Folder 7: Car accident, 7 May 1931 (telegram, newspaper article, etc.)
Folder 8: Yale University, application letter, correspondence, 1927-1936, 1940, 1967
Folder 9: "Egg Albumin" (work for Ph.D.)
Folder 10: Ph.D. Dissertation, 1935 (file 1 of 2)
Folder 11: Notes and galley proof of Dissertation (file 2 of 2)
Folder 12: "Misc. - New Haven" as labeled by Philip Dow

Series II: MCG Papers, 1936-1979, 4 boxes

Box 2
Folder 1: Correspondence with Dr. G. Lombard Kelly, 1936-1952
Folder 2: Notes and Resolution regarding Dr. Kelly, 28 Aug 1945
and Minutes of Faculty Meeting, 17 Mar 1953
Folder 3: Memos and Correspondence with Dr. Edgar Pund and Dr. Harry O'Rear, 1953-1964
Folder 4: Memos between Dr. O'Rear and Dow, regarding School of Dentistry, 1964
Folder 5: 1972 Inauguration of William Moretz, MCG President
Folder 6: "Auditorium" Dugas Building Lecture Room, not dated
Folder 7: Notes and memos regarding Basic Medical Science Program and
Construction of R&E Building, including floor plans, 1964
Folder 8: New R&E Building, 1964-1971
Folder 10: Memo and floor plans of William F. Hamilton Wing, 1977
Folder 11: Admissions and Promotions Correspondence, 1945-1955

Box 3
Folder 1: Student Skit, no date
Folder 2: MCG Group Insurance, Expense reports, various years
Folder 3: Academic Committees of the University System Council, Oct 1947-Jan 1948
Folder 4: University System of Georgia, Committee on Math and Science, 1947-1955
Folder 5: MCG Intercampus Memos and Correspondence, 1949-1974 (scattered)
Folder 6: Association of American Medical colleges, 1950-1969 (scattered)
Folder 7: 47th Annual Congress on Medical Education and Licensure, 1951
Folder 8: Committee on Uniform Testing Procedures, University System of Georgia, 1951-1952
Folder 9: Student Loan, Fellowships, etc., 1952-1961 (scattered)
Folder 10: Medical Science Symposia, 1956-57, and non-dated
Folder 11: MCG Committee on Admissions, 1958
Folder 12: Memos and information on Graduate Education Committee, 1958-1964
Folder 13: Records, Examinations, and Standards of Scholarship Committee (Georgia Regents Committee), Dec. 1959-June 1961
Folder 14: Animal Care Committee, 1959-1966

Box 4
Folder 1: Promotions Procedures, 1960-1961
Folder 2: Faculty Retreats and Conferences, 1961-1970 (scattered)
Folder 3: Ad Hoc Committee regarding appointment of Pharmacology Chairman, 1964
Folder 4: MCG Memo regarding Phase III of Curriculum, 1967
Folder 5: MCG Hilton Head Conference, January 1968
Folder 7: MCG "Cancer of the Stomach Survival Report" June 1968
Folder 8: MCG "Malignant Melanoma Survival Report" 1968
Folder 9: MCG Expanded Respiratory Center Program, 1969
Folder 11: Results of Medical Class Questionnaire, 1973
Folder 12: Policies regarding Student Promotion and Graduation and Faculty Tenure, 1973
Folder 13: Faculty Affairs Committee, 1974-1977
Folder 14: Graduate Student Recruitment, 1975
Folder 15: Institutional Self-study of Graduate Program, 1975-1978
Folder 16: Results of MCG Faculty Questionnaire, 1977 (or 1978)

Box 5
Folder 1: Commencement, 1945, 1950, 1951-1956
Folder 2: Commencement, 1945-1952
Folder 3: Commencement, 1957-1961
Folder 4: Commencement, not dated materials and 1961-1962
Folder 5: Commencement, 1963
Folder 6: Commencement, 1964
Folder 7: Commencement, 1965
Folder 8: Commencement, 1966
Folder 9: Commencement, 1967
Folder 10: Commencement, 1968
Folder 11: Commencement, 1969
Folder 12: Commencement, 1970
Folder 13: Commencement, 1971
Folder 14: Commencement, 1972
Folder 15: Commencement, 1973
Folder 16: Commencement, 1974 and 1976
Folder 17: Commencement, Printed article regarding Academic Costume and Ceremony

**Series III:** William F. Hamilton and Miscellaneous Papers, 1940-1960, 1 box

Box 6
Folder 1: W. F. Hamilton, 1960-1977
Folder 2: Hamilton Symposium, November 1960
Folder 3: W. F. Hamilton Memorial Lecture, correspondence, 1969
Folder 5: "Hypertension and Its Complications" American College of Physicians Course, 1964
Folder 6: National Board of Medical Examiners, Physiology Test Committee, 1962-1966
Folder 7: Correspondence regarding Federation Placement Service, 1946-1947 (as filed by Dow)
Folder 8: Committee on Federation Placement Service, Report and Correspondence, March 1947-1948
Folder 9: Committee on Federation Placement Service, Correspondence, Summary, Agenda, etc., 9 Jan 1947-18 Mar 1947
Folder 10: Committee on Federation Placement Service, Correspondence, July-Dec 1946

**Series IV:** MCG Department of Physiology Papers, 1939-1979, 4 boxes

Box 7
Folder 1: Physiology Class Exams, notes, etc. from various years
Folder 2: Possible lecture (prep) notes, includes 1939 Physiology Final
Folder 3: Study Questions, Physiology, 1946-1950
Folder 4: Physiology Exams - Various years, 1953-1962
Folder 5: Comprehensive Oral Exams, 1962
Folder 6: Physiology Class Schedule and Lab Exercises, Feb-Mar 1963
Folder 7: Physiology Schedule and Freshmen and Sophomore Classes, 1963-1964 (file 1 of 2)
Folder 8: Continuation of Physiology Schedule, 1963-1964 (file 2 of 2)
Folder 9: Department of Physiology Roll book, 1966
Folder 10: Department of Physiology Student Lab Manual, Feb-June 1966

Box 8
Folder 1: Life Insurance Medical Research Fund - Correspondence, Reports, Applications, 1959-1963
Folder 2: Federal Grants, 1961-1965
Folder 3: Professional Research Fund, 1962-1967
Folder 5: H-240-15, Application submitted 20 Aug 1964
Folder 6: Life Insurance Medical Research Fund, 1964-1970
    Correspondence and Progress Reports for 1964-1965
Folder 7: H-240-16, Application submitted 23 Aug 1965
Folder 8: H-240, 1966 Application
Folder 9: Life Insurance Medical Research Fund, Final report 1966 (includes reports of various years)
Folder 10: H-240, 1967 Application
Folder 11: H-240-17 & 18, Submitted December 1967
Folder 12: H-240-20, Submitted October 1969

Box 9
Folder 1: Physiology Final Exam, May 1966-1967
Folder 2: Lecture and Lab Schedule, 1967
Folder 3: Neurophysiology, 1969-1970 (file 1 of 3)
Folder 4: Neurophysiology, 1969-1970 (file 2 of 3)
Folder 5: Neurophysiology, 1969-1970 (file 3 of 3)
Folder 6: H-240-21 Application submitted October 1970
Folder 7: H-240-22 Application submitted October 1971
Folder 8: H-240 Final Report 1973, plus applications from various years
Folder 9: Lecture prep notes and handouts, 1970-1972

Box 10
Folder 1: Physiology Roll book and class schedule, 1972-1973
Folder 2: Physiology Dept. Meeting memos and minutes, June 1972-Sept 1979
Folder 3: Physiology, 1972 (file 1 of 3)
Folder 4: Physiology, 1972 (file 2 of 3)
Folder 5: Physiology, 1972 (file 3 of 3)
Folder 6: Cell Physiology, 1972-1973 (file 1 of 2)
Folder 7: Cell Physiology, 1972-1973 (file 2 of 2)
Folder 8: Physiology Course Syllabus, 1973-1976
Folder 9: Physiology Dept. Library, 1974-1976
Folder 10: Recommendations for Faculty Promotions, 1974-1978
Folder 11: Physiology Department Academic Program, Purpose, and Guidelines for Promotion and Tenure, 1979

**Series V:** Research Papers, 1932-1971, 4 boxes
Box 11
Folder 1: Lab results on Dye Curves using Vital Red, 1932-1933 (graphs)
Folder 2: "Placentaion Studies..." by Dow and Richard Torpin, 1938
    (Journal of Human Biology). File includes paper, charts, and graphs.
Folder 3: "Further Studies on the Pulse Wave in the Aorta and Its Branches" 1938.
    Includes handwritten draft.
Folder 4: Journal page proofs of various articles, 1938-1940
Folder 5: Paper with W.F. Hamilton "Analysis...Arterial Reservoir" Presented 28 April 1939
Folder 6: "Metabolism" Fall 1939
Folder 7: Manuscripts for various papers, 1940
Folder 8: "Dye Disappearance" graphs and charts, ca. 1942
Folder 9: Calculations 1942-1944
Folder 10: Paper and correspondence with Hahan: "Simultaneous Transport of T-1824..."
    1942-1946 (file 1 of 2)
Folder 11: Charts regarding experiments for paper "Simultaneous Transport of
    T-1824..." 1942-1946 (file 2 of 2)
Folder 12: Photocell Work, 1943
Folder 13: "Hemotocrit" May 1944 (file labeled by Dow)
Folder 14: "Spectrophotometric Studies related to C.O. Method, Bur T-1824, etc."
    1946 (file labeled by Dow)

Box 12
Folder 1: Paper with Raymond W. Pickering "Arterio-Venus Distribution of Brilliant
    Vital Red..." 1949 (file 1 of 2)
Folder 2: Graphs of experiments for "Arterio-Venus Distribution of Brilliant Vital
    Red..." 1949 (file 2 of 2)
Folder 3: Numerical Tables and Graphs, 1948 and 1950
Folder 4: Paper with Raymond W. Pickering "Behavior of Dog Serum with Brilliant
    Vital Red..." 1949-1950
Folder 5: Mathematical Statistical Analysis regarding Stow, Hetzel, and Wood paper.
    Includes correspondence, 1949-1954
Folder 6: Log Normal Calculations, 25 March 1950
Folder 7: Correspondence and paper with John Hopkins Hospital in Baltimore,
    "The Influence of Injection Site upon the Form of Dye Curves", 1950-1953
Folder 8: Correspondence with Albert Howard regarding Dye Injections,
    July-August 1951
Folder 9: Dogs - Dye Curves, 1951-1952

Box 13
Folder 1: "Densitometer Dogs" 1951-1952
   includes correspondence regarding artwork for American Physiology Society meeting.
Folder 2: Paper "Limitations of the Continuous Infusion Method..." 1953
   and correspondence, 1951-1954
Folder 3: N-Curvette, correspondence and data regarding product, 1951-1952
Folder 4: S&N Dogs - Recaps and Calculations, 1952-1953 (file labeled as by Dow)
Folder 5: Form of Dye Curve for Cardiac Output, ca. 1952
Folder 6: Correspondence regarding dye curves, 1954-1955
Folder 7: Correspondence with Joseph Doyle and curves charts and tables, 1952-1955
Folder 8: Correspondence with Kenneth Zierler and graphs, 1952-1956
Folder 9: Manuscript "Estimations of Cardiac Output and Central Blood Volume"
   Includes correspondence, 1953-1956
Folder 10: Synthetic Curves, 1953

Box 14
Folder 1: Long-hand draft "The Dye Dilution Method for Estimating Cardiac
   Output..." July 1953
Folder 2: "Dimensional Relationships in Dye-Dilution Curves..." Drafts and
   correspondence, 1953-1955
Folder 3: Manuscript of and correspondence with William Milnor "The Measurement
   of the Venous Blood Volume by the Dye Dilution Method" 1953-1957
Folder 4: Correspondence regarding dye injections and curves, 1953 and 1956-1957
Folder 5: Dye Curves Theory and correspondence with C.W. Sheppard, 1953-1959
Folder 6: Correspondence with Lysle Peterson regarding aortic dye injections, 1955
Folder 7: Paper by H.W. Fritts, Jr. "Validation of a Method for Measuring the Output
   of the Right Ventricle in Man by Inscription of Dye-Dilution Curves from
   the Pulmonary Artery" Includes correspondence, 1955-1958
Folder 8: Correspondence between W.F. Hamilton and H.G. Swann regarding
dye dispersal, 1964
Folder 9: Dr. Dow's file labeled "Thermal" - correspondence, graphs, etc. 1965-1971
Folder 10: Simultaneous Sekelj and Gilford Densitometer, 1966
Folder 11: Criteria for Stretch Model - not dated

Series VI: Correspondence Papers, 1930-1980, 2 boxes

Box 15
Folder 1: Correspondence 1930. Includes family telegrams, personal letter,
correspondence with D. Murray Cowie
Folder 2: Correspondence 1931-1933. David Hitchcock from Yale University and
personal correspondence
Folder 3: Correspondence 1934. D. Murray Cowie, family letters and telegrams
Folder 4: Correspondence 1935. W. F Hamilton, David Hitchcock, and others.
Correspondence primarily regarding job hunt
correspondence primarily regarding job hunt
Folder 6: Correspondence 1937-1939. W. F Hamilton regarding research and personal
correspondence
Folder 7: Correspondence 1940s - W. F Hamilton, G. Lombard Kelly, Clara
Hamilton, John Remington, and more.
Folder 8: Photocell catalogues and correspondence, 1941-1950
Folder 9: Photovolt Corporation, 1941, 1943, 1944
Folder 10: Electrokymograph - Correspondence and drawings, Temple University
School of Medicine, 1947
Folder 11: "Mendelian" by Spring Hill College, article and correspondence,
February-April 1951
Folder 12: Correspondence 1950-1954. W. F Hamilton, John Remington, Earl Wood,
F.J. Carroll, Richard Gorlin Tsung-Han Li, Gordon C. Ring, S.W. Handford, Otto Gauer, Benjamin Etsten, and more, regarding research and
personal correspondence.

Box 16
Folder 1: Correspondence 1955-1959. Gordon Ring, R.W. Gerard, George Karreman,
J.F. Shillingford, S. H. Taylor, Leland Stoddard, and more
Folder 2: Correspondence 1959-1968 with H.G. Swann, including letters regarding
death of W. F. Hamilton
Folder 3: Correspondence, 1960-1964
Folder 4: Correspondence with Department of Health, Education, and Welfare,
1960-1966
Folder 5: Correspondence, 1965-1969
Folder 6: Correspondence regarding visit by Stephan Figar - 25 Nov 1969
Folder 7: Correspondence, 1970-1980

Series VII: Professional Societies Papers, 1939-1981, 2 boxes

Box 17
Folder 1: American Physiological Society Correspondence, 1939-1981
Folder 2: American Physiological Society Survey, data and meeting, 1945-1946
Folder 3: Survey Subsequent (file as labeled by Dr. Dow), Correspondence, 1946-1947
Folder 4: Supplementary Report of the Survey Committee, American Physiological Society, July 1946
Folder 5: "The Careers of Physiologists" Speech by Dr. Comroe, co-member of the Survey Committee with Dr. Dow, 1946
Folder 6: Material used in the American Physiological Society Survey Paper, 1945
Folder 7: Data cards used in the American Physiological Society's Survey, 1945-1946
Folder 8: Survey Committee's Report for the American Physiological Society, 1945-1946
Folder 9: Paper regarding American Physiologists by Dr. Dow, 1946
Folder 10: Correspondence between members of the Survey Committee (E.F. Adolph, T.E. Boyd, J. H. Comroe, and Philip Dow) of the American Physiological Society, 1945
Folder 11: Correspondence between members of the Survey Committee (E.F. Adolph, T.E. Boyd, J. H. Comroe, and Philip Dow) of the American Physiological Society, 1946
Folder 12: Survey Committee correspondence with others outside of Committee - 1945-1946
Folder 13: Rooster Committee, American Physiological Society, 1950-1951
Folder 14: American Journal of Physiology - correspondence of Dow as Section Editor, 1957-1969

Box 18
Folder 1: Circulation Section, American Physiological Society Correspondence, 1950-1966
Folder 2: Council on Basic Science, American Heart Association, January 1957-November 1958
Folder 3: Georgia Heart Association, 1960-1977
Folder 4: General correspondence with American Heart Association - 1960-1978
Folder 5: Correspondence, Annual Report, and Minutes of the American Heart Association Assembly, October 1962
Folder 6: Council on Basic Science, American Heart Association, 1962
Folder 7: American Heart Association, Professional Education Committee, 1962
Folder 8: National Health Council, 1963
Folder 10: Georgia Heart Association, Research Committee, 1966-1971
Folder 11: Circulation Research, American Heart Association, 1967-1972
Folder 12: Microcirculatory Society, 1970-1973

Series VIII: Plaques, 1978 and 1982
Plaque 1: Awarded to “Best Course – Phase I” 1978
Plaque 2: Dedication plaque of Philip Dow Library of the MCG Physiology Department, 1982

**Series IX:** Photographs

NOTE: This series of photographs from Philip Dow were transferred from the Reese Library Special Collections (Augusta University Summerville Campus) to the Greenblatt Library Historical Collections and Archives in 2017. Provenance is noted in Box 22.

Box 22
MSS004.Box22 contains photographs taken by Philip Dow. The photographs were given to Reese Library on Summerville Campus in 1999 by Dr. Dow's niece Elizabeth Hicks of Joppa, Maryland. The 8x10 prints and 5”x7” prints were loose. The small proofs (3.5”x2.5”) are affixed to notebook paper and were originally housed in two 3-ring binders. Dow noted the film roll number, brand of film, and date, and sometimes the film aperture. While the subjects or locations are not identified, the proofs include: scenic coastal photos; outdoor picnics; architecture; nature; portraits; Masters practice rounds (1950-1954). A few of the proofs are missing from the pages.

Folder 1: Letter from Dr. Dow's niece Elizabeth Hicks; regarding his photographic proofs. Dated 1999 August
Folder 2: Photographs, B&W, 8”x10” and three 5”x7” B&W prints. A few of the photographs are dated; none list subject or where the photograph was taken.
Folder 3: Photograph proofs, B&W, 3.5”x2.5”; film #299-319; 1949-1950.
Folder 4: Photograph proofs, B&W, 3.5”x2.5”; film #319 (con't)-345; 950.
Folder 5: Photograph proofs, B&W, 3.5”x2.5”; film #346-361; 1950-1951.
Folder 6: Photograph proofs, B&W, 3.5”x2.5”; film #361 (con't)-396; 1951.
Folder 7: Photograph proofs, B&W, 3.5”x2.5”; film #402-444; 1951-1953.
Folder 8: Photograph proofs, B&W, 3.5”x2.5”; film #465-585; 1953-1955.

Box 23
MSS004.Box23 contains black & white photographs, 2.5” x 3.5” housed in plastic sleeves. On the sleeves, Dow noted the date and camera settings, and sometimes the place of where the photo was taken. Includes a few self-portraits of Dow.