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Liberal Arts and Sciences

Geology

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"List of Kodachrome Slides Submitted to Wards' National Science Establishment"

Wanless

"List of Slide Subjects of Kodachrome Slides Submitted by H. G. Wanless"

Geological Photographs

Physical Science Course, Division of General Studies, University of Illinois, 1940-48

Materials relating to evaluation of texts, programs in other schools, testing programs for creation of DGS courses

"Geologic Subjects which might be suitable for Inclusion in a General Physical Science Course," Wanless

"Report of the Committee on the General Course in Physical Sciences," 1940

"General Division (LAS) 4, Physical Science Survey"

Physical Science Survey Correspondence, 1941-44

Correspondence relating to text procurement, 1941

Correspondence relating to student, Vincent Carrubba, on academic probation, 1944

Physical Science Survey, Minutes of Meetings of Organization Committee, 1940-43

Minutes of Meetings number 1 to 27

Physical Science Course, DGS 141-142, 1950-51

Roster, Syllabus, work sheets, charts

(date given on folder was 1950-51, date on syllabus is 1948-49)

Physical Science Course Tests, 1945-52

Quizzes

Physiography MSS. Bulletin 82, Chapter 2

Box 10:

Plummer, Fred B., Department of Petroleum Engineering, University of Texas, 1939-46

Schedule of Meeting of Section E, AAAS, St. Louis, 1946

Poor, Russell S., Department of Geology and Geography, Birmingham-Southern College, 1930-37

Price, Larry W., 1969-70

W. Armstrong, Geologist and Geographer, Corpus Christi, Texas, 1955

Wanless, Outline for the study of Paleontology, based on Professor Shimer's Study on Fossils, Princeton University, ca. 1919

Princeton, Mementoes and Souvenirs relating to Graduate Collegiate years 1920, 1923

Princeton Correspondence relating to Doctoral Thesis, 1922-24

Princeton Class of 1920: College Tests, Notes, Grade Reports, Graduate Appointment, 1916-60

Bulletins, Reunion Material, Commencement Programs and Address, photographs of

1940 Reunion, Correspondence with Class Officers and Former Classmates

Tests Taken when Student at Princeton, 1916-17

Official Register of Princeton University, Freshman Entrance Examination Papers, 1915

- Lecture notes in elementary geology course, Professor W. B. Scott and Professor Sinclair, 1917
- Grade reports, 1917, 1919; notice of graduate scholar appointments in Geology, 1920-21
- Lectures in Vertebrate Paleontology by W. B. Scott, Princeton University, 1920-21
- An Introduction to Geology by W. B. Scott, Princeton University, 1920-21
- Princeton Geological Society, 1921-57
 - Letter to Edward Sampson, Department of Geology, Princeton, giving personal evaluations of Professors Field and Howell of Princeton, March 29, 1936
 - Publications of Society
 - Materials relating to Princeton Faculty - retirement, promotion
- Princeton Gateway Club, 1935-39
- Princeton Geological Letter, 1924-68
 - Letters from Professor Howell, Princeton, 1924-26
 - Notecards on "Climate and Man" (from student days?)
 - Newsletters of Princeton Alumni Association and Princeton Club of Chicago
 - July 4, 1947 issue of Princeton Alumni Weekly
- Programs of Geological Meetings, 1962-67
- Publications, 1922-23, 1928-29, 1931, 1935-37, 1940, 1947, 1950, 1966, 1968, 1969
 - Bibliography, 1922, 1969
- Publication Lists of State Geological Surveys, 1923-63
- Publication Lists of U.S. Geological Survey and other Governmental Documents, 1922-67
- Pullen, P. William, Jr., 1945
 - Papers and Reports related to Pullen's Doctoral thesis
- Q - Quadrangles, Geological Descriptions of various regions in the U.S.
- Quirk, Terence T., 1944, 1947
 - "Resolution on the Death of Professor T. T. Quirk," Wanless, P. H. Brown, G. E. Moore, November 25, 1947
 - "Transportation Power of a Stream Varies as the Sixth Power of the Velocity," Quirk, 1944
- R - Radio Talks, H. R. Wanless
 - "Travelling the Pan-American Highway in Mexico," WILL, November 10, ?
 - "Glaciers in Illinois," WILL, January 13, 1941
 - "Talk" on Influence of Christ and Christianity over the world, WILL, October 1, 1960
- Rall, Elizabeth "Betty" (Mrs. Raymond Rall), 1953-58
 - Correspondence, maps, newspaper clippings relating to doctoral thesis
- Read, Charles B., U.S. National Museum, Washington D.C., 1936-66
 - David White Report, Books 1-9
 - "List of Localities Yielding Fossil Plants. . .in Tennessee and Georgia," May 1939
 - Including letter from Chester A. Reeds, American Museum of Natural History, N.Y.C., June 30, 1936
- Recommendations, 1967-69
- Reed, E. C., University of Nebraska, 1935
 - Insoluble Residue Chart
- Religious Outlines and Notes, ca. 1935
 - "Summary of New Testament Literature"

- "Religion and the Next Generation"
- "Adult Class Review of 'Fighters for Freedom' by A. K. de Blois"
- "Baptist Principles"
- Notes for Talk by Wanless
- Reprint Correspondence, 1954-64
- Mailing lists for reprints
- Correspondence with Jean Roger, Bureau de Recherches Géologiques et Minières, Paris regarding Wanless' article on Pennsylvanian in 8th Volume of the International Stratigraphic Lexicon, 1962
- Illinois Survey, Havana, 1957-69
- Miscellaneous Requests for Geologic Information, 1934-67
 - Monica Binek, Dickinson, North Dakota, relating to buffalo fossils
 - David Evans, Department of Geology, University of Nottingham, England, including photograph of pseudo-slump structures
 - J. H. Wiebols, Union Corporation, Johannesburg, Union of South Africa
 - Harold J. Bissell, Department of Geology, Brigham Young University, including "Theses and Dissertations Treating Upper Paleozoic Stratigraphy of Places in the Western States"
 - Muriel McKeon, Journal of Geology, University of Chicago, including Wanless' and R. L. Langenheim, Jr.'s comments on "Correlation of Pennsylvanian Strata on the Basis of Northwestern Arkansas Goniatites" by James H. Quinn
 - Trevor D. Ford, Department of Geology, The University, Leicester, England
 - W. A. Read, Geological Survey of Great Britain, Edinburgh, Scotland
 - David Wanless Clotfelter, M.D., Montgomery, (Alabama?), concerning possible family ties to Professor Wanless
 - Manual N. Bass, Department of Earth Sciences, University of California, San Diego
 - Gary Lane, Department of Geology, UCLA
 - Herbert J. Sullivan, Senior Research Scientist, Pan American Petroleum Corporation
 - John R. Adney, Miles, Iowa, concerning personal research
 - W. P. Millington, Department of Geology, Marquette University, concerning Mazon Creek fossil-bearing concretions
- Research and Development Board Meeting, Photogeology, Washington D. C., 1952
 - "Development of Methods and Materials for Teaching Photogeologic Interpretation," Wanless, 1952
- Rich, Mark, Department of Geology, University of North Dakota, 1959-63
- Richardson, Eugene S., Jr., Curator of Fossil Invertebrates, Chicago Natural History Museum, 1945-56
- Eugene Zangirl, Rainer, 1967-68
- Rio Grande Delta Area MSS
- Rioux, Robert, ca. 1953
- Rhodes, Frank H. T., Department of Geology, University of Wales, Swansen, England, 1956-57
- Robertson, W. I., Geology Department, Texas Technological College, 1932-33
- Rocha-Campos, A. C., Department of Geology, University of San Paulo, Brazil, 1965-66
- Rodges, John, Department of Geology, Yale, 1955
- Rowlands, Richards A. Bruxelles, Belgium, 1938

Rubey, William W., U.S. Department of Interior, Washington D. C., 1938
 Rusnak, Gene A., Scripps Institution of Oceanography, La Jolla, California, 1955-57
 Russell, R. Dana, Ohio Oil Co., 1959-60

Abstracts of talks on "Cyclic Sedimentation and its interpretation", Environmental
 Mapping of Depositional Stages of the St. David Cyclothem, Pennsylvanian,"
 "The Discrimination of Tillites from Other Rock Types Resembling Them"
 Ryniker, Charles, Gulf Oil Corporation, Tulsa, 1942

Box 11:

Sabbatical Leave Permissions, 1938, 1948, 1965
 Sabbatical Field Program, 1948-49

Including back statements, payroll vouchers, appropriation ledgers, correspondence
 Sabbatical Field Work (1948-49) and Correspondence, 1949-51, 1966

"Field Note Index", data sheet, charts

Letter to D. D. Henry reporting on sabbatical work, 1965-66, March 30, 1966

Sample set Information and correspondence, 1951-56

Data Sheets

Savage, Thomas E. Memorial, 1948

"Resolutions on the Death of Professor R. E. Savage", February 2, 1948, C. F. Hottes,
 Wanless, and F. W. DeWolf

"Thomas Edmund Savage, 1866-1947"

Schneider, Michael, Department of Geology, De Pauw University, 1960

Scholarship, Correspondence regarding its repayment, 1924-26

Schopf, James M., Department of Interior, Bureau of Mines, 1941-67

Scott, Harold W., Department of Geology, Montana School of Mines, Butte, 1935-39, 1969

Sedimentation Bibliographies, ca. 1920's

Sedimentary Petrology, 1931-35

Data Sheets, Charts

Analyses of Valparaiso Till and Lemont Till, George Cohee

"Results of Sand and Clay Analysis," John Barrett, 1935

"Illinoian Till," W. S. McCabe, 1935

photograph

Sedimentary Petrology Conference, 1954

Abstracts, "Provenance Study of the Lower Pennsylvanian of the Eastern Interior Basin"

Raymond Siever: "Source of Sediments of the Armore Basin," Lynn Jacobsen

Sharp, Robert, 1946

Shell Development Company, 1960-61

Shell Oil Company, 1953-54

Correspondence relating to services performed for Shell Oil Company in Tennessee field
 work, expense statements

"General Stratigraphic Section Outcropping in East-Central Tennessee," Wanless, July 4,
 1953

Shelton, John, 1952-54, 1960-61

Correspondence including photographs of Geological formations in Oklahoma-Texas by

Shelton, November 13, 1961
 Shepard, Francis P., Scripps Institute of Oceanography, La Jolla, California, 1937-66, 1968-69
 Shoreline Erosion, 1966-70, see Tydings
 Shrock, Robert R., Department of Geology, M.I.T., 1940-47
 Siever, Raymond, ca. 1955
 "Proposed Plan of Study"
 Sigma Xi
 1936-64
 Membership nomination, speaker engagements
 Departmental Representatives, 1958-65
 1959-65
 Chapter and national by-laws and constitution
 Westinghouse Science Talent Search Breakfast, 1961
 Sigma Xi grant-in-aid request correspondence, 1965
 1960-68
 Initiation meetings, speaker engagements
 1960-67
 Nomination lists, speaker engagements, minutes, agendas
 Simpson, H. Edwin, Jr., 1941
 Sinclair, William J., Department of Geology, Princeton, 1923-35
 Smith, Ernest R., De Pauw University, 1941
 Smithsonian Institution, 1923
 Society of Vertebrate Paleontologists, 1951, 1964
 Soils, 1943-45
 South Dakota Geological Expedition, 1921
 Southern Appalachian Coal Field Paper, settings and problems of the, 1968
 Speaking Engagements, Northwestern, Wisconsin, Notre Dame, Indiana, Tulsa, 1950-52
 Spence Lens Company, 1940
 Stansfield, John, Estate, 1943
 Stereo Slides
 "List of Stereorealist Kodachrome Slides", Wanless
 Stipes, Rooney A., 1938-48
 Correspondence relating to publications of Stipes Publishing Company
 Stoddard, George D., 1950
 "University of Illinois Four-Year Report, 1946-1950", Stoddard, 1950
 "A Report to the Board of Trustees on Conditions in Department of Economics and the
 College of Commerce and Business Administration", Stoddard, 1950
 Stookey, Don R., Department of Geology, University of Iowa, 1930-36
 Stratigraphic Correlation Tables, 1927-52
 Stratigraphic Notes, 1922, Field Notes 1920
 Sturgeon, Myron R., Department of Geology, Ohio University, Athens, 1956
 Summer Session Contracts, 1945-67
 Summerson, Charles H., 1943-67
 T - Tennessee Valley Authority, 1939
 Tester, A. C., Department of Geology, University of Iowa, 1932

Texas Bureau of Economic Geology, 1938-39

Thatcher Glass Manufacturing Company, 1957

"Report to Thatcher Glass Manufacturing Company", Wanless

Thesis Correspondence 1957-68

Correspondents working on theses: Donald E. Gednetz, Marle Righ, Robert Walpole, Robert Rioux, Thomas K. Searight, M. E. Hopkins, Michael Schneider, T. R. Simmonds, Don Gorman, William Metzger, Fred Cropp, John Rogers, Paul W. Hughes, Bob Sutton, Beryl Dickson, Guerry H. McClellan, Lewis R. Gray, Constance Gawne, Ed Sento

"Pennsylvanian Limestone Textures in Southern Illinois," Wanless and R. B. Lennon, ca. 1957

Data Sheets, Charts Relating to Theses

Outlines of Theses

"Chronological List of Theses in Geology, VI", 1904-63

Thompson, M. L., Department of Geology, University of Wisconsin, 1949-55

Titus, Frank B., Jr.

Thesis Outline, "Recent Unconsolidated Sediments between the Northern Keys and the Mainland of Florida"

Torch Club of Champaign County, 1950-68

Travel Expenses, 1924-25

Travel Pamphlets from Sabbatical Year, ca. 1937-42

Trefethen, Joseph M., Department of Geology, University of Wisconsin, 1934-35

"Log of the Walworth Trip, Glacial Geology," April 22, 1933, JMT. and copy by Wanless

Tri-State Field Conference Correspondence, 1953-59

"Guidebook for the 19th Annual Tri-State Geological Field Conference", Wanless, 1955

Tri-States Geological Field Conferences, 1933, 1935, 1937

Tulsa Geological Society, 1956

Photograph, "Isopach Map of Total Pennsylvanian"

Tydings, Sen. Joseph - shoreline erosion, 1966-70

Box 12:

U - U.S. Coast and Geodetic Survey, 1963-66

Photograph lists, purchase orders

"Coastal Studies Project, Progress Report", first half 1965, Wanless

Progress Report, Coastal Geomorphology, July-September 1965, Wanless
January-June 1966, Wanless

U.S. Geological Survey, Coal Geology, Short Course, 1956

Examination Questions, 1924-68

University Club, 1947-49

UI Advisees, 1960

University of Illinois Advisory Committee, 1944-64

University of Illinois Committee on Aerial Photography, 1950, 1964-65

Reports, Purchase Orders

- Correspondence, 1959-65
 - "Stereogram Notes", Wanless and other evaluations of photographs
 - Minutes of Committee meetings
 - Annual Committee Report draft, 1965
 - Photograph lists
- University of Illinois, Aerial Photograph Collection Index, Department of Geology, 1950
- Air Photograph Repository Catalog, 1966
 - Section: University of Illinois Stereogram Series, February 1, 1962
- Appointments, 1927-66
- Committee on Freshman Work, 1935-39
 - "Report of the Sub-Committee of the College of LAS on Freshman and Sophomore Programs", March 19, 1936; first and second drafts of report
 - Materials for Report on "Why Students Go To College"
- Conservation Camp, 1940-50
 - Minutes of Meeting of Committee on Conservation Laboratory Curriculum
 - "Soils Topics for Summer Conservation Course" and other suggestions and outlines for conservation courses
- College of Liberal Arts and Sciences, 1933-49
 - Reports to the Faculty from various Committees, Senate
- College of Liberal Arts and Sciences, 1950-63
- Graduate Research Board, 1965-68
- Miscellaneous, 1940-56
 - Generally Correspondence relating to committee work
- Personal Bureau, 1937
- The University Study of Geology MSS.
- University of Michigan, 1945-48
 - Correspondence with University of Michigan faculty and other geologists at Camp Davis, Wyoming
 - Pamphlet, Newsletter relating to University of Michigan's Camp Davis Geological Program in Wyoming
 - Abstract, "Paleozoic and Mesozoic Columns in the Gros Ventre, Teton, Hoback, Wyoming, and Snake River Ranges, Wyoming", Wanless, R.L. Belknap, Helen Foster, and H. H. Gray
- University of Sydney, 1958-59
 - Correspondence with W. A. Telfer, Registrar
- Urbana Association of Commerce, 1950
 - Pamphlets, Newsletters
- Urbana Exchange Club, 1953-69
- V - Vades, Robert L, 1969-70
- Van Leckwyck, W. P., Antwerp, Belgium, 1959
- Vertebrate Paleontologists, 1931-40, 1958
- Ver Wiebe, Walter A., Editor, American Association of Petroleum Geologists, 1941
- Visiting Lecture Talks, Wanless, 1952-57
 - "Evidence of Eustatic Shifts in the Sea Level in the Pennsylvanian of the Southwestern U.S.", draft and final paper, 1952

- "Development of Methods and Materials for Teaching Photogeologic Interpretation"
- "Carbonate Research at the Illinois Geological Survey", Wanless?
- Clipping of UPI article on Wanless' theory of limestone formation, 1953
- W - Waller High School, Chicago, 1934
 - Alumni Newsletters
- Wanless, Personal, 1943-60
 - H. R., 25 year letters from Alumni, 1948-49
 - Letters from alumni congratulating Wanless on Anniversary of 25 years of teaching
 - Rhoda E. (Mother), 1925
 - Ziebell, Ziemba, and Carozzi Paper, XX International Geological Congress, ca. 1956
 - Drafts, diagrams, lists of illustrations
 - "Regional Variations in Pennsylvanian Lithology," MS, 1946
 - Outlines of Geological Talks, 1958-65
 - Paper "Observations on Some Relations between Water and Agriculture in the U.S.", ca. 1958-59
- Ward's National Science Establishment, 1952-62
- Ward's Catalogs, Mineral Collector's Catalog and Fine Mineral Specimens, 1938-53 (sample)
- Ward's Mineral Bulletin, 1936-41
- Ward's Natural Science Bulletin, 1941-55
- Warrior Basin Research, Alabama - Mississippi, 1954-56
 - Abstract and Paper, "Pennsylvanian Rocks and Sport Floras from the Subsurface Warrior Basin, Mississippi", Wanless, F. Cropp, and R. M. Kosanke, ca. 1955
- Warrior Basin Studies, 1967 GSA, 1967-68

Box 13:

- Weller, J. Marvin, Illinois State Geological Survey, 1931-39; University of Chicago, 1946-62
 - "Comments on Marvin Weller Manuscript, 'Paleoecology of the Pennsylvanian Period in Illinois and Adjacent States,'" Wanless, 1950
 - Copies of papers by Weller
 - "Comments on Manuscript 'Cyclothems and Larger Sedimentary Cycles of the Pennsylvanian' by J. Marvin Weller", Wanless, 1957
- West Texas Geological Society, 1967-69
- West Virginia Geological Survey, 1940-51
- Western Kentucky Geological Society, 1938
- White, George, Department of Geology, Ohio State University, 1945-48
- Wilson Ornithological Club, 1940-41
- Women's Auxiliary Training Corps, 1943
 - Outlines for course in map reading
- Woodford, A. O. Pomona College, Claremont, California, 1956
- Wright, Cynthia R., 1968
- Wyckoff, Jerome, 1965-68
- Wyoming Paper, Geological Society of America, 1949-55
 - Galley Pages, photographs and proofs, data sheets

Y - Young Men's Christian Association, Champaign, 1967

Z - Zangerl, Rainer Studies, 1962-64

"Review" of Zangerl and E. S. Richardson's Paleoeological History of Two
Pennsylvanian Black Shales", Wanless, 1963 or 1964

Ziebell, Warren, Gulf Oil Corporation, 1952-56

Ziemba, Eugene A., 1956

Catalog of Negatives belonging to Wanless

Glass Plate Negatives, 1917-23

Box 14:

Manuscripts and Theses

Wanless, "Geology and Mineral Resources of the Beardstown, Glasford, Havana and
Vermont Quadrangles, Illinois; Stratigraphy, Post-Pennsylvanian, manuscript
Manuscript, incomplete

et. al., "Paleozoic and Mesozoic Rocks of Gros Ventre, Teton, Hoback, and Snake
River Ranges, Wyoming," manuscript, 1946 including Photographs
Corrected manuscript
Third copy

"Pennsylvanian Rocks of Eastern Interior Basin," manuscript

"Pennsylvania Geology of a Part of the Southern Appalachian Coal Field"
manuscript, ca. 1945

Second copy with photograph and plate proofs

"Local and Regional Factors in Pennsylvanian Cyclic Sedimentations",
manuscript, 1963

"Depositional Basins of Widespread Pennsylvanian Coals in the United States,"
manuscript

"Stratigraphy of the Lower Pennsylvanian of Illinois", manuscript, second copy
"Stratigraphy", ca. 1950

Correspondence on the White-Read manuscript, "Lower Pennsylvanian Flora in
Illinois", and Wanless, "Stratigraphy", 1950-52

"Stratigraphy of the Coseyville and Tradewater Group of Illinois", manuscript

"Late Paleozoic Glaciation", manuscript and proof copy, ca. 1964

"Geology and Mineral Resources of the Beardstown, Glasford, Havana and
Vermont Quadrangles, Illinois; Post-Pennsylvanian Stratigraphy",
manuscript

Incomplete manuscript

"Pennsylvanian System", manuscript

"Environmental Interpretation of Coal Distribution in the Eastern and Central
United States", Lecture

"Studies of Field Relations of Coal Beds", manuscripts

Wanless, Rhoda E., Physiographic Ecology, Botany 34, Summer 1915, "A Study of the
Sand Dunes at Miller, Indiana"

J. W. Meyer, "Sedimentation Report"

Roker and Roth, "Type Section of Hermosa Formation Colorado"

George F. Taubeneck, "The Cro-Magnon Man", 1930, Geology 28
 Tom, G. F., "Dawson Butte Area", Thesis, M.S., ca. 1947

Box 15:

Tubb, J. B., et. al., "Interpretation of some Pennsylvanian Cyclothems through
 Environmental Mapping", manuscript
 Turner, Frank L., "Historical Geology of Mexico"
 Vessel, F. H., "Geological History of the Native South American Hoofed Mammals,"
 1929, Geology 28
 Ziebell, Zegatives of Figures and Column
 Geology Field Notes, November 1938
 Wanless, Field Notes, Chattanooga Quadrangle, 1939
 Ann Livesay, Field Notes, Camp Davis, Jackson, Wyoming, 1943
 H. H. Gray, Mesozoic Stratigraphy, Camp David, Jackson, Wyoming, 1946
 R. F. Fisher, Centrifuge Work, 1936
 Photograph Sampler of Rock Formations Mounted on Construction Paper
 Sections located: Counties of Arizona, Illinois, Nevada, New Mexico, Texas,
 Utah
 Electric Well Log Studies
 J. G. Pearson, Well Log Studies, Pennsylvanian Cross Sections through the Eastern
 Interior Basin
 Well Log Studies, Illinois
 Well Log Data, Illinois, Indiana, Mississippi
 Raw Data:
 Data Sheets, Pannsylvanian Biological Facies
 Notes on Spacing of Columns in Cross Sections A-T
 North African Field Studies, 1919
 County Field Studies
 Folders number 1 and 2, 1937-47
 Photostatic list
 "Correlation of Major Marine Invasions"
 Summary of data on Geological beds in counties in the Middle Atlantic,
 Southern, Midwestern, plains and Southwestern regions, with
 index
 List of Pennsylvanian Counties, incomplete
 List of Wells in which Pennsylvanian section was studied, West Texas and
 Southeast New Mexico
 Data on Counties in midwest, plains, and Appalachian Areas
 Folder 3, ca. 1940's
 List of Counties with Pennsylvanian Rocks either in Surface or Subsurface
 Data on Counties in Midwest, Plains, Appalachian regions

Box 16:

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Correspondence, General, 1923-38

Course Materials, Lecture Notes, Exams, 1926-39

Drafts and Revisions of Manuscripts, general

Field Trips, Information Sheets and Correspondence, 1927-35

Illinois Stratigraphic Studies, publications and outlines, 1930-38

Maps and Charts, general

Notes and Outlines, including field notes of South Dakota

Stratigraphic Studies (2 folders), 1922-29

Photographs, Aerial, Louisiana Gas and Oil Surveys

Publications

Pennsylvanian Correlations in to Eastern Interior and Appalachian Coal Fields,
Geological Society of America, 1939

Eastern Interior Basin Coal Fields, various papers

General Publications, 1931-40 (2 folders undated)

Review Notes, Bibliographical, including books on fossil studies (2 folders), 1916-29

Shell Development Company Talks, Lecture Outlines, 1960

Box 17:

Geological Field Note Books (mostly typescript, with annotated maps, by States and locations
within States, describing soil and rock tyoes and other geological features)

Arizona, 1951

Arizona, California, Colorado, and Nevada (maps only), no date

Arizona, New Mexico, and Texas, 1940-49

Colorado, Iowa, and New Mexico, 1931-34

Colorado, Kansas, and New Mexico, 1950

Indiana, 1935

Kentucky (2 books), 1935

Kentucky, 1935-36

with handwritten notes included

Kentucky, 1938

Box 18:

Kentucky and Virginia, 1935-36

Maryland and West Virginia, 1930-35

Missouri, 1931

Nevada, 1949

Ohio, 1935

Pennsylvania, 1935

Tennessee - North, no date

Tennessee - South, no date

Tennessee - Frozen Mountain Section, 1938

Tennessee and Virginia, 1935

Wyoming (Field Summary Data, Keysort Cards), ca. 1954-55

Box 19:

Handwritten Notes (looseleaf, describing locations within States and their soil and rock types and other geological features, later typed), 1949

#1: Arizona

#2: Arizona

(no #3)

#4: New Mexico

#5: Arizona and Nevada

#6: Arizona

#7: New Mexico

#8: Arizona

#9: Nevada

#10: New Mexico

#11: Arizona

#12: Arizona

#13: Arizona

#14: Nevada

Box 20:

#15: Arizona

(no #s 16-18)

#19: New Mexico

Unnumbered (some partial notes): Colorado, New Mexico, and Utah

Hand-written Notebooks (describing geographical features), Arizona, 1950

New Mexico, 1949

Tennessee, Book #2, 1938

Book # 3, 1938

Oklahoma Geological Survey Field Notes, handwritten and typed, Sycamore - Woodford

Notebook #2, ca. 1929

Handwritten Notebook with Field Notes (Buxton) and Notes on Talks, undated

Box 21 (Oversized):

Canadian Provinces and Lake States Region, 10 maps, 1928, 1930, 1935, 1939-40

Summary of Professional Career

Princeton University, B.S. 1920, M.A. 1921, Ph.D. 1923.

Doctorate dissertation on White River Oligocene strata of South Dakota badlands.

University of Illinois, Department of Geology, 1923 to present.

Successively, Instructor, Associate, Assistant Professor, Associate Professor, Professor.

Acting Chairman, 1946-47; Director of University Field Camp, 1950, 1951.

University of Michigan. Member of summer field camp staff at Camp Davis, Jackson, Wyoming, summers of 1945, 1946, 1947.

Illinois State Geological Survey. Summer field work at intervals since 1925; Consultant on Pennsylvanian stratigraphy

United States Geological Survey. Geologist WAS, 1954 to present; Concerned with preparation of paleotectonic folio of Pennsylvanian system.

National Science Foundation. Holder of research project grant for study on environmental mapping of Pennsylvanian strata, mapping each unit of a sequence, 1963-65

United States Coast and Geodetic Survey. Cooperative project with University of Illinois on study of coastal changes revealed by successive dates of aerial photography, 1964 to present.

Senior Fulbright Research Fellow to University of Sydney, Australia, 1958-59, for study of late Paleozoic glacial deposits of Australia.

Teaching: Currently graduate courses in Sedimentation, Advanced Dynamic Geology, Advanced Historical Geology, Photogeology, Pennsylvanian Geology; Undergraduate course in Field Methods; Formerly Elementary Physical Geology, Agricultural Geology, Physical Science, Geologic History of Vertebrates, Geology of Upper Mississippi Valley, Geologic Maps.

Research: Pennsylvanian Geology of Illinois, Appalachian Basin, Southwestern United State; Cyclic Sedimentation; Environmental Mapping of Paleozoic Strata; Late Paleozoic glaciation; South Dakota Oligocene; Stratigraphy of Northwest Wyoming; Geologic Photo-interpretation, especially of coastal changes.

Offices: Illinois State Academy of Science, President, 1938-39

Sigma Xi, President Illinois Chapter, 1964-65

University of Illinois Committee on Aerial Photography, Chairman, 1962-64

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Consultant, at times, to three major oil companies and two gas storage companies.

HAROLD R. WANLESS

Selected list of more important publications

1923. The Stratigraphy of the White River beds of South Dakota, American Philosophical Society Proceedings, vol. 62, p. 190-269.
1929. Geology and Mineral Resources of the Alexis Quadrangle, Illinois. Illinois State Geological Survey, Bulletin 57, 230 pp.
1931. Pennsylvanian Cycles in Western Illinois. Illinois State Geological Survey, Bulletin 60, p. 179-193.
1932. (with J. M. Weller) Correlation and Extent of Pennsylvanian Cyclothems: Geological Society of America, Bulletin, vol 43, pp. 1003-1016.
1936. (with F. P. Shepard) Sea Level and Climatic Changes related to Late Paleozoic Cycles: Geological Society of America, Bulletin, vol. 47, p. 1177-1206.
1939. Pennsylvanian Correlations in the Eastern Interior and Appalachian Coal Fields: Geological Society of America, Special Paper 17, 130 pp.
1942. (with J. M. Weller, L. M. Cline and D. G. Stookey) Interbasin Pennsylvanian Correlations, Illinois and Iowa: American Association of Petroleum Geologists, Bulletin, vol. 26, pp. 1585-1593.
1943. (with R. C. Moore and Pennsylvania Sub-Committee, National Research Council) Correlation of Pennsylvanian Formations of North America: Geological Society of America, Bulletin, vol. 55, pp. 657-706.
1946. Pennsylvanian Geology of part of Southern Appalachian Coal Field: Geological Society of America, Memoir 13.
1947. Regional Variations in Pennsylvanian Lithology: Journal of Geology, vol. 55, pp. 237-253.
1951. Late Paleozoic cycles of sedimentation in the United States: International Geological Congress, Report of 18th Session, part 5, pp. 17-28.
1951. Outstanding Aerial Photographs in North America: American Geological Institute, Report no. 5, 87 pp.
1952. (with Jacquelyn Patterson) Cyclic Sedimentation in the Marine Pennsylvanian of Southwestern United States. Troisieme Congres pour l'avancement des etudes de Stratigraphy et de Geologie du Carbonifere, Comte Rendu, Heerlen, Netherlands: vol. 2,

pp. 653-664.

1954. Studies of field relations of coal beds. Second Conference on Origin and Constitution of Coal, Crystal Cliffs, Nova Scotia, June, 1952. Nova Scotia Research Council, pp. 148-185.
1955. (with Ralph L. Belknap and Helen Foster) Paleozoic and Mesozoic Rocks of Gros Ventre, Teton, Hoback, and Snake River Ranges, Wyoming. Geological Society of America, Memoir 63, 90 pp.
1957. (with Joseph C. Mueller) Differential Compaction of Pennsylvanian Sediments in Relation to Sand-Shale Ratios, Jefferson County, Illinois. Journal of Sed. Petrology, vol. 27, pp. 80-88.
1957. (with W. G. Ziebell, E. A. Ziemba, and A. Carozzi) Limestone Texture as a Key to Interpreting Depth of Deposition. International Geological Congress, 20th Session, Section 5, pp. 65-82.
1960. Evidences of Multiple Late Paleozoic Glaciation in Australia. International Geological Congress, 21st Session, part 12, Regional Paleogeography, pp. 104-110.
1961. Depositional Basins of Some Widespread Pennsylvanian Coal Beds in the United States. Nova Scotia Research Council, 3rd Conference on Origin and Constitution of Coal, pp. 94-128.
1962. Pennsylvanian Rocks of Eastern Interior Basin: American Association of Petroleum Geologists, Special Volume: Pennsylvanian System in the United States, pp. 4-59.
1963. (with J. B. Tub, Jr., D. E. Gednetz, and J. L. Weiner) Mapping Sedimentary Environments of Pennsylvanian Cycles. Geological Society of America, Bulletin, volume 74, pp. 437-486.
1963. Pennsylvanian. International Geological Congress. Commission de Stratigraphie, vol. VIII: Termes Stratigraphiques Majeurs, 64 pages, maps.
- (in press) Local and Regional Factors in Pennsylvanian Cyclic Sedimentation: Bulletin of Kansas Geological Survey
- (in press) Review article on Late Paleozoic Glaciation: Volume 1 of a new review journal published in the Netherlands.
- (completed for publication in a memoir of the Geological Society of America) Conditions of Deposition of Pennsylvanian Coal.
1957. Geology and Mineral Resources of the Beardstown, Glasford, Havana and Vermont quadrangles, Illinois. Illinois State Geological Survey, Bulletin 82, 233 p.

1960. (with R. M. Kosanke, J. A. Simon and H. B. Willman) Classification of the Pennsylvanian Strata of Illinois. Illinois State Geological Survey, Report Investigations no. 214, 84 pp.

Outline of Kinds of Materials
which would be available
for archives on Harold R. Wanless

I. Training

- A. Princeton University, 1916-23. Professors, courses, course outlines if available.
- B. Geology of Rosendale, New York. An unpublished but bound summary of three two-week sessions in the field in 1919, 1920 and 1921, for first field training in a classic area for Appalachian stratigraphy and structure. Under Professor G. Van Ingen.
- C. Stratigraphy and depositional history of the White River badlands of South Dakota and fossil mammals. Ph.D. thesis project under Professor W. J. Sinclair. Most of thesis published.

II. University of Illinois 1923-67.

The following are the principal courses I have taught. For a number of these course outlines are available. There was quite an interesting opportunity to experiment in teaching the Physical Geology Laboratory course in the 1930s and 1940s when it was a separate course from the lecture and quiz. Many innovations were tried.

- A. Agricultural Geology (Elementary)
- B. Physical Geology (Elementary)
- C. Physical
- D. Physical Science (DGS course including physics, astronomy, chemistry and geology. I was a member of the group which organized the DGS program of courses in the late 1930s and the Physical Science course.
- E. Field mapping course taught in Easter vacation week in the spring, successively near Elizabethtown, Rushville, LaSalle, Golconda, Vienna, and Makanda, Illinois, and Marion, Kentucky.
- F. Field course for students with one or more semesters of geology, for many years having involved a trip southeastward from Urbana, to the Great Smoky Mountains, crossing several structural and geomorphic belts, with written student reports on particular topic turned in.
- G. Western summer field camp. I had charge of this program in its first two years, 1950-51 near Durango, Colorado. An 8-Weeks course filling the

- entire summer session.
- H. Geologic history of vertebrates. An elementary and popular course in development and history of vertebrates taught for several years in the late 1920s. Required one or two semesters of geology.
 - I. Topographic and geologic maps. A course for senior majors taught in the 1940s.
 - J. Geology of Illinois. A course for Juniors or seniors taught in the later 1940s.
 - K. Sedimentation. A graduate course taught most years between 1929 and 1967.
 - L. Sedimentary petrology. A graduate course dealing largely with methods of analyzing sediments taught in the early 1940s, and later taken over by Hough and still later Richards.
 - M. Advanced dynamic geology. A graduate course dealing with geologic processes of all sorts. Taught from late 1930s to 1960s.

(2)

- N. An Advanced historical geology. A graduate level summary of the knowledge of the history of the earth, and of life on it.
- O. Geology of the Upper Mississippi Valley. A graduate course involving six week-end field trips during the fall semester, and reports on them.
- P. Pennsylvanian Geology. A graduate seminar type course taught from 1950 to 1967. Involved a field trip generally about four days in length.
- Q. Photogeology. Geological interpretations from aerial photographs. A graduate course taught from about 1960 to 1969. Much laboratory work with individual interpretive studies of various types of terrain.

III. University of Michigan.

From 1945 through 1947, I was on the staff of the University of Michigan western geological field station at Camp Davis, near Jackson, Wyoming, in charge of stratigraphy and paleontology. A research memoir noted below was also a product of this appointment.

IV. There was some correspondence and one or two small papers in new developments of teaching methods in my courses.

V. Research project. More or less in order of initiation.

- A. Pennsylvanian Geology of Illinois. 1925-1960s. Mapping of two areas, both published, and regional reconnaissance over much of the Illinois coal basin. Correlation; lateral variations.
- B. Cyclic sedimentation in the late Paleozoic and its causes. About 1930-1967. Earliest studies in Illinois, but subsequent studies spread over much of North America and other Pennsylvanian basins of the world.
- C. Interbasin studies of Pennsylvania strata in the central and eastern United States. 1932-1969. Illinois basin, northern Midcontinent, Appalachian coal field.
- D. Interpretations of textures of ancient carbonate rocks. 1949 to about 1956. Studies of Ordovician, Mississippian and Pennsylvanian carbonates.
- E. Interpretations of Pennsylvanian rock types (underclay, coal, black fissile shale, clastic wedges, etc.). 1920s on.
- F. Paleogeographic reconstruction of Pennsylvanian landscapes in central and eastern United States. A bed-by-bed paleogeographic mapping of more than 150 Pennsylvanian units. Results of about 18 thesis type investigations. (1957-1969).
- G. Paleotectonic map project of U. S. Geological Survey for Pennsylvanian folio for United States Pennsylvanian east of Nebraska, Kansas and Arkansas. 1953-present.
- H. Stratigraphy and fusulinid faunas of Pennsylvanian of southwestern United States. Field work 1949, more than 6000 fusulinid thin-sections ground, but not more than half of material worked up as yet. W. Texas, New Mexico, Arizona, S. Nevada, SW Colorado, SE and central Utah.
- I. Late Paleozoic glaciation and sediments in Australia (1958-59) and largely

from literature in other Gondwana areas. Measured outcrop sections to 31,000 feet, 200 or more pebble count studies to determine sources and directions of sediment flow. Study of tillite, varve rocks, and glacial outwash sediments in New South Wales, Tasmania, Victoria, South Australia and Western Australia, and a little in Queensland.

- V.
 - K. Nondepositional records or diastems in the Pennsylvanian. To be written up, but not yet done.
 - L. Facies of North American Upper Carboniferous. Prepared for International Congress of Carboniferous Geology and Stratigraphy, Sheffield, England, 1967 (published).
 - M. Paleozoic and Mesozoic Stratigraphy of ranges in northwestern Wyoming (Tetons, etc.). A byproduct of participation in the U. of Michigan field camp (published).
 - N. Coastal Changes along the borders of the United States. Studies with Francis P. Shepard, former Illinois professor, on Atlantic, Gulf, Pacific, Alaskan and Hawaiian coasts. A book manuscript completed in 1969 and in hands of publishers. From about 1961 to 1969 student theses related to coastal changes in New Jersey, Maryland, North and South Carolina, Florida and Texas. These were drawn on in the book manuscript.
 - O. As a member of the Univ. of Illinois Committee on Aerial photography 1960-present, a series of about 200 stereograms geologic subjects were prepared, and more than 200,000 prints have been distributed to educational institutions around the world. Descriptive interpretations of each stereogram were prepared and distributed by the committee.
- VI. Books of textbook character.
 - A. A work book including about 90 stereograms, mostly of geologic subjects with descriptions rewritten at level of junior high school general science classes, published by Hubbard Scientific Company. Has had wide use in high schools and in universities, although not prepared for university students.
 - B. Maps and serial photographs. An elementary book about maps, generally accompanied by topographic maps and aerial photographs of same areas, intended for use in grade school science. Illustrations nearly all prepared but text not yet written. Suggested by Professor Nelson, Department of Education, Miami University, Oxford, Ohio. Nearly all examples are different than in Committee of Aerial Photography stereogram sets.
- VII. Bibliography.
 - A. List of publications by H. R. Wanless with copies of as many as possible, and list classified by topical heads above.
 - B. List of student theses done wholly or partly or wholly under my direction, with copies of as many as are available.
 - C. Subject index of geological literature in personal library, including journal articles and reprints. There are about 30,000 3" x 5" cards, though the list is now about two years behind, due to my absence in California working on the coastal book.
 - D. Manuscripts, especially of unpublished papers.
- VIII. Alumni correspondence. Many letters from departmental alumni over the years have indicated the nature of post-graduation careers, and helped to maintain

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interest on part of alumni in the department.

IX. Administration. Minutes of department of Geology staff meetings, University committees, and announcements from the department.

X. Societies.

- A. Illinois State Academy of Science. I served as Secretary, Vice President, President, Chairman of Geology section, and organizer of a collegiate section for research by undergraduate students. There is considerable correspondence about Academy affairs during years of my active association with it.
- B. Illinois Chapter, Society of Sigma Xi. I twice served as Vice President, and once as President, and have correspondence for years of my active participation.

IX. Consulting.

- A. Geologic mapping in search of suitable structures for oil exploration in about 5000 square miles in Tennessee for a major oil company.
- B. Consultant and adviser on problems of Pennsylvanian correlations and facies changes in parts of the southern Illinois Basin. For (a) different major oil company. I have also given series of lectures at research laboratories of two major oil companies.
- C. I was a consultant for the Northern Illinois Gas Company in the search of large areas in northern Illinois which might have suitable conditions for underground storage of natural gas. Some of these structures have been developed and are in use for gas storage.

XII.

- A. Kodachrome slides. (heading F). Present and former staff members of the Department of Geology and State Geological Survey and their families. 150 slides.
- B. Heading FA). University of Illinois geology students and alumni and their families, and student field trips. 605 slides.
- C. Slides of Geologic subjects (S-SB, T-TG, and U-UG). About 3000 slides.

Harold R. Wanless

b. December 5, 1898, Chicago

1920	Princeton, B. Sc.
1921	Fellow
1921-22,	
1922-23	Scholar
1921	M.A.
1923	Ph.D.
1921-22	Reader
1923-26	Illinois, Instructor
1926-29	Associate
1929-37	Assistant Professor
1937-46	Associate Professor
1946-	Professor
1925	Illinois State Geological Survey, Geologist
1954	United State Geological Survey, Geologist
1958-59	Fulbright, University of Sydney
1953	Consultant

Stratigraphy and sedimentation of carboniferous rocks of North America and Australia

March 8, 1971

MEMORIAL TO HAROLD ROLLIN WANLESS (1898-1970)

Harold Rollin Wanless joined the staff of the Department of Geology of the University of Illinois in 1923. He was born in Chicago, December 5, 1898, the son of William and Rhoda Tanner Wanless. After graduation from Robert Waller High School in Chicago, he entered Princeton University on a scholarship and received the B. S. degree in 1920 and was appointed to a fellowship in the Princeton Graduate School. He received the M.A. degree in 1921 and the Ph.D. in 1923. He came to the University of Illinois in 1923 as an instructor and rose through the ranks of associate, assistant professor, and associate professor to a professorship in 1946. He was Chairman of the Department during the academic year 1946-47. Although he became professor emeritus in 1967, his research and publications not only continued but even increased until shortly before his death on June 3, 1970, in his 72nd year.

He married the former Grace Rogers in 1926 and she together with a son, Harold Rogers Wanless, now completing his work for the Ph.D. in geology at The John Hopkins University, and a grandson, David survive.

Professor Wanless' earlier work on the Tertiary rocks of the Badlands region in South Dakota resulted in two monographic reports. However soon after coming to Illinois, he began studies of the Paleozoic rocks of Illinois, particularly the late Paleozoic (Carboniferous - Pennsylvanian) rocks which contain the large coal deposits. He extended his work on these rocks from Illinois to adjoining states and then to all parts of North America and eventually to the study of these coal-bearing rocks in Europe and Australia. His interest was primarily their origin, petrographic character, and the repetitive cycles they exhibited. His theories of cyclic sedimentation and of the environment in which the rocks were deposited gained world-wide acceptance and acclaim. He was invited to national and international conferences to discuss his findings. His publications include more than 100 journal articles and seven books, several of which are now basic reference works.

In addition to his wide-ranging work of the coal-bearing rocks, he made significant contributions in the fields of glacial geology, geomorphology, sedimentary petrology and paleontology. He was one of the earliest geologists to use air photographs and soon became a leader in the field of photo-geology. He was widely sought as a consultant by mineral industry companies, but (which some thought a bit quixotic) accepted very few such invitation because it would take him away from his work with students and joint research with them.

Professor Wanless was President of the Illinois academy of Science in 1938, Senior Research Fellow in Australia in 1958-59, President of U.I. Chapter of Sigma Xi in 1964-65, Distinguished Lecturer of the American Association of Petroleum Geologists in 1956, and an invited lecturer at the British Association for the Advancement of Science in 1967 and at the Sixth International Carboniferous Congress in England in 1967. He was a member of several international geological congresses, in which he took active part in sessions and field excursions.