

15/11/24  
Liberal Arts and Sciences  
Geology  
Harold R. Wanless Papers, 1916-70

Box 1:

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     relating to Fulbright grant to study at University of Sydney  
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     Fulbright Fellowship Material, 1956-59  
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     minutes of executive committee, treasurer's report, budgets, reports of building committee  
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     Minutes of Staff Meetings 1947-56; 1965  
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Northern Illinois Field Trip 1950  
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J. H. Wiebols, Union Corporation, Johannesburg, Union of South Africa

Harold J. Bissell, Department of Geology, Brigham Young University, including "Theses  
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Trevor D. Ford, Department of Geology, The University, Leicester, England

W. A. Read, Geological Survey of Great Britain, Edinburgh, Scotland

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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

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 Including back statements, payroll vouchers, appropriation ledgers, correspondence  
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         Simmonds, Don Gorman, William Metzger, Fred Cropp, John Rogers, Paul W.  
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 Glass Plate Negatives, 1917-23

### Box 14:

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     Vermont Quadrangles, Illinois; Stratigraphy, Post-Pennsylvanian, manuscript

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 Third copy  
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 Well Log Data, Illinois, Indiana, Mississippi  
 Raw Data:  
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     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:

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  
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 Publications  
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Geological Field Note Books (mostly typescript, with annotated maps, by States and locations within States, describing soil and rock types and other geological features)  
     Arizona, 1951  
     Arizona, California, Colorado, and Nevada (maps only), no date  
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Missouri, 1931  
Nevada, 1949  
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Pennsylvania, 1935  
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#10: New Mexico  
#11: Arizona  
#12: Arizona  
#13: Arizona  
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Box 20:

#15: Arizona  
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#19: New Mexico  
Unnumbered (some partial notes): Colorado, New Mexico, and Utah  
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New Mexico, 1949  
Tennessee, Book #2, 1938

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Oklahoma Geological Survey Field Notes, handwritten and typed, Sycamore - Woodford  
Notebook #2, ca. 1929

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Box 21: Oversize (See: 50-12)

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

HAROLD R. WANLESS

### 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  
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 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.