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Loyal Bacon Papers MS-075

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English

Michigan Technological University Archives and Copper Country Historical
Collections

1400 Townsend Drive
Houghton 49931

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Summary Information

Repository:	Michigan Technological University Archives and Copper Country Historical Collections
Title:	Lloyal Bacon Papers
ID:	MS-075
Date [inclusive]:	1896-1991
Physical Description:	1.24 cubic feet (3 manuscript boxes, 1 card box, and 1 oversize folder)
Language of the Material:	English
Mixed Materials [box]:	1-2
Mixed Materials [box]:	3-4
Mixed Materials [folder]:	67 A
Abstract:	Papers, 1928-1991, of Lloyal Bacon, a professor of geophysics at the Michigan College of Mining and Technology (now Michigan Technological University) in Houghton, Michigan.

Preferred Citation

MS-075, Lloyal Bacon Papers, Michigan Technological University Archives and Copper Country Historical Collections, Houghton, Michigan.

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Biography

Lloyal O. Bacon, 1915-2008, was a geophysicist at Michigan College of Mining and Technology (now Michigan Technological University) in Houghton, Michigan from 1949 to 1978. Lloyal Bacon earned a BS in Geological Engineering in 1941 from the University of Minnesota and served in the U.S. Navy Department, Underwater Ordnance. Subsequently, he worked for the U.S. Bureau of Mines, Butler Brothers Mining Co., and Pennsylvania State College (now Pennsylvania State University) as a geophysicist. In 1948, he received an MS degree in geophysics at Penn State. He remained there for

another year on a Ph.D program. After the department faculty left, he took employment as a geophysicist at MTU (at that time known as the Michigan College of Mining and Technology) in the fall of 1949. He remained at MTU until his retirement in 1978. Bacon originally worked with the physics department until he moved to the Department of Geological and Mining Engineering and Sciences as the geophysics department expanded. Active in the field, Lloyal did consulting work in mining geophysics for many companies for over 40 years, especially Calumet and Hecla, Inc. in developing a system for detecting veins of native copper.

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Collection Scope and Content Summary

Papers, 1928-1991, of Lloyal Bacon, a professor of geophysics at the Michigan College of Mining and Technology (now Michigan Technological University) in Houghton, Michigan. Includes reports written or co-written by Bacon, papers submitted by graduate students and other research in the field of geophysics as it relates to the geology of the Upper Peninsula and Lake Superior region. Research areas include magnetic and resistivity surveys conducted in search of minerals including iron and copper.

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Administrative Information

Publication Statement

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Access

Available for use in the Michigan Technological University Archives and Copper Country Historical Collections.

Conditions Governing Use

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Controlled Access Headings

- Upper Peninsula (Mich.)
- Mines and mineral resources -- Michigan -- Upper Peninsula
- Marquette County (Mich.)
- Keweenaw Peninsula (Mich.)
- Documents
- Papers (Document genres)
- Research (Document genres)
- Manuals (Instructional materials)
- Geology -- Michigan
- Reports
- Geophysics -- Research
- Correspondence
- Lantern slides
- Slides (photographs)
- Michigan College of Mining and Technology

MARC

MARC added 6/3/2011, updated 9/17/2014

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Collection Inventory

Title/Description	Instances	
Cleveland Cliffs Iron Company - Paper on the Marquette Mineral District, 1964	box 1	folder 1
"Earth Restivity Measurements in the Lake Superior Copper Country" by W.J. Rooney, W.O. Hotchkiss, James Fisher, 1928	box 1	folder 2
Earth Restivity, Gravity Research, 1952-1958	box 1	folder 3
Geological Research - Keweenaw - Lake Superior Region, 1933-1969	box 1	folder 4

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Geophysics Research - Published, 1928-1934	box 1	folder 5
"Magnetic and Resistivity Surveys in the Copper Flat Area Central Mining District, New Mexico" by L.O. Bacon and H.R. Joesting, Report and Data Nippon Mining Co. Gravity Problem," L.O. Bacon, 1945, 1951	box 1	folder 6
Resistivity Measurements of Portage Lake Water	box 1	folder 7
Cleveland-Cliffs Sismic Survey Report, 1956	box 1	folder 8
Coast and Geotactic Survey, 1896	box 2	folder 1
Correspondence, 1896-1938	box 2	folder 2
Magnetic Surveys - Case History, M-42, 1952-1954	box 2	folder 3
Manuals	box 2	folder 4
Miscellaneous	box 2	folder 5
Patent No. 2,072,950 "Method of and Apparatus for Electrically Exploring Earth Formations", 1937	box 2	folder 6
"Report on Earth Tides", 1936-1938	box 2	folder 7
Results of Regional Aeromagnetic Surveys of Eastern Upper Michigan, Central Lower Michigan, and Southeastern Illinois	box 2	folder 8
Schonstedt Mangetometer, 1972	box 2	folder 9
[Geothermal, geophysical, electrical resistivity soundings slides], circa 1927-1930	box 3	
Dighem III resistivity survey of six selected areas in the Upper Michigan Peninsula for GTE Communications products Corporation, report and maps, 1983, 1991, (1983)	box 4	folder 1-10
Vertical electrical soundings from the Keweenaw, compact disc (CD), undated	box 4	folder 11
Airborne radioactivity survey of parts of Marquette, Dickinson, and Baraga Counties, 1950	folder 67 A	
Cleveland-Cliffs seismic study, 1956	folder 67 A	