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Michigan Technological University Institute of Mineral Research Reports and Publications MTU-144

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Michigan Technological University Archives and Copper Country
Historical Collections

1400 Townsend Drive
Houghton 49931

copper@mtu.edu

URL: <http://www.lib.mtu.edu/mtuarchives/>

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Summary Information

Repository:	Michigan Technological University Archives and Copper Country Historical Collections
Title:	Michigan Technological University Institute of Mineral Research Reports and Publications
ID:	MTU-144
Date [inclusive]:	Before 1971
Physical Description:	0.35 Cubic Feet 1 manuscript box (letter size)
General Physical Description note:	0.35 cubic feet1 manuscript box (letter size)
Language of the Material:	English .
Mixed Materials [box]:	1
Maps [folder]:	1
Abstract:	Reports and publications, before 1971, documents generated by the Institute of Mineral Research at Michigan Technological University in Houghton, Michigan. Also includes some maps.

Preferred Citation

MTU-144, Michigan Technological University Institute of Mineral Research Reports and Publications, Michigan Technological University Archives and Copper Country Historical Collections, Houghton, Michigan.

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Biography

In 1927 the Mineral Research Bureau came into existence with an annual appropriation of funding that was designated by the state of Michigan to study the copper and iron resources of Upper Michigan. This was expanded in 1941 to include industrial research. In 1951, the Michigan Legislature passed Act 272 of the Public Acts of 1951 providing for the "construction of a building and purchase of research equipment adequate for the purpose of engaging in

a broad, widespread study of the beneficiation of low-grade ore, of ore dressing, and the problems of metallurgy." In August 1955 a new building was completed on the campus of Michigan Tech to house the Bureau. The Ores Research Building was later renamed the Benedict Laboratory in honor of C. Harry Benedict who served as the chief metallurgist of a copper producer and for many years he was a respected professor of metallurgy at Michigan Tech. After 1955 the Mineral Research Bureau became known as the Institute of Mineral Research. The IMR was involved in many materials and minerals projects from all around the world as well as continuing to serve Michigan, helping to develop new industrial processes and improve the efficiency of existing processes. When the higher grade iron ores were becoming less accessible, the IMR played a major role in developing the beneficiation processes for the lower grade iron ores that have kept the Great Lakes Region as a major iron ore producer. As the Institute's activities expanded to include advanced materials engineering and processing, such as hydrometallurgy, mechanical alloying, ceramics, composites, and solid waste processing and recycling, the institute was renamed in 1985 to become the Institute of Materials Processing, reflecting the broader scope of research. In the early 1990's the Benedict Laboratory was incorporated into the new Minerals and Materials Engineering Building, a \$47.7 million research facility in use by IMP since 1991 (<http://www.imp.mtu.edu/information/history.html>, accessed 10/20/2009).

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Collection Scope and Content Summary

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Publication Statement

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Access

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

Processing History

Elizabeth Russell,10/20/2009

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Controlled Access Headings

- Industries -- Michigan
- Mines and mineral resources
- Upper Peninsula (Mich.)
- Technical reports
- Publications

Collection Inventory

Title/Description	Instances	
Correspondence and notes, undated, 1902-1904	box 1	folder 1
Technical notes, Lake States Forest Experiment Station, 1935	box 1	folder 2
Miscellaneous pamphlets and publications, 1904-1914, 1931	box 1	folder 3
Earth-resistivity measurements in the Lake Superior Copper Country, 1928	box 1	folder 4
Recent geothermal measurements in the Michigan Copper District, 1932	box 1	folder 5
The elements of geodetic surveying, Jerry H. Service, undated	box 1	folder 6-7
A plan for determining the feasibility of in situ leaching of native copper ores, 1974	box 1	folder 8
The Quincy Mine as geothermal source, 1983	box 1	folder 9
Research and reports, undated, approximately 1908-1913	box 1	folder 10
Research and reports, undated, 1907	box 1	folder 11
Research and reports, 1902-1940	box 1	folder 12

Unidentified topographic map, undated	folder 1	item 1
Map of North Tamarac Location, John Watson, 1901 July	folder 1	item 2
