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## William Hockings Research Papers MTU-003

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Michigan Technological University Archives and Copper Country  
Historical Collections

1400 Townsend Drive  
Houghton 49931

[copper@mtu.edu](mailto:copper@mtu.edu)

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## Summary Information

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<b>Repository:</b>	Michigan Technological University Archives and Copper Country Historical Collections
<b>Title:</b>	William Hockings Research Papers
<b>ID:</b>	MTU-003
<b>Date [inclusive]:</b>	1949-1983
<b>Physical Description:</b>	2.1 Cubic Feet 6 manuscript boxes
<b>Language of the Material:</b>	English .
<b>Mixed Materials [box]:</b>	1-6
<b>Abstract:</b>	Papers, 1949-1983, of William A. Hockings, an assistant professor of mineral research and assistant director of the Institute of Mineral Research at the Michigan College of Mining and Technology (later Michigan Technological University) in Houghton, Michigan. Includes Hockings' thesis, patents held by Hockings and research material on mass flow balances, cyanide leaching (White Pine), ammonia leaching (stamp sands), reduction nucleation and various other projects connected with the Institute of Mineral Research. Also includes reprints of secondary literature with a card index.

### Preferred Citation

MTU-003, William Hockings Research Papers, Michigan Technological University Archives and Copper Country Historical Collections, Houghton, Michigan.

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## Biography

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William A. Hockings was born in 1928 in Minneapolis, Minnesota; however he attended high school in Crystal Falls, Michigan. In 1946 he enrolled at the Michigan College of Mining and Technology (later Michigan Technological University), graduating in 1950 with a B.S. in chemistry. He joined Calumet and Hecla, Inc. in 1951 as a research engineer. He later joined

the staff as an assistant professor of mineral research at the Michigan College of Mining and Technology in 1955 as one of the original members of the staff of the Institute of Mineral Research (IMR). He worked on highly applied sponsored research projects and state-supported basic projects. With co-workers he developed a cyanide leaching process for recovering copper from White Pine flotation plant tailings which received a United States patent. He also did basic research on the mechanisms and kinetics of reduction of iron oxides and a hot stage microscope method he developed had wide applications in research. Hockings became assistant director of the IMR in 1970.

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## Collection Scope and Content Summary

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Papers, 1949-1983, of William A. Hockings, an assistant professor of mineral research and assistant director of the Institute of Mineral Research at the Michigan College of Mining and Technology (later Michigan Technological University) in Houghton, Michigan. Includes Hockings' thesis, patents held by Hockings and research material on mass flow balances, cyanide leaching (White Pine), ammonia leaching (stamp sands), reduction nucleation and various other projects connected with the Institute of Mineral Research. Also includes reprints of secondary literature with a card index.

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## Administrative Information

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### Publication Statement

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### Access

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## Controlled Access Headings

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- Mineral industries -- Research -- Michigan
- Research institutes -- Michigan -- Houghton
- Research (Document genres)
- Houghton (Mich.)
- Patents