

## Selected Bibliography and Acknowledgments

### Abbreviations:

The Michigan Technological University Archives and Copper Country Historical Collection, which is within MTU's Van Pelt Library, is abbreviated as "MTU Archives and CCHC."

Michigan Mining School, Michigan College of Mines, Michigan College of Mining and Technology, and Michigan Technological University are abbreviated below as MSM, MCM, MCMT, and MTU respectively.

### *General Sources:*

MMS, MCM, MCMT, and MTU catalog(ue)s, 1885-present, available in the MTU Archives and CCHC.

MCM, MCMT, and MTU Yearbooks, "The Engineer," in 1916, and "Keweenawan" 1924, 1930, and later dates, available in the MTU Archives and CCHC.

MCMT and MTU phone directories, available in the MTU Archives and CCHC.

"Vertical Files" of the MTU Archives and CCHC, especially for individual faculty, Physics, and for Fisher Hall.

Michigan Tech Centennial Book, 1885-1985, by David T. Halkola, (MTU 1985).

The Michigan Tech Fund provided the list of BS graduates from their files, the list of endowed funds involving physics, and some vital statistics for former faculty. A list of honorary degree recipients is maintained on the MTU Web site.

### *Tamarack Mine Experiments:*

James Fisher Collection, MTU Archives and CCHC, in particular material in Box 13, including a lab notebook and a folder labeled "Falling bodies in deep vertical shafts."

Copy of Feb 1904 Report and July 1906 correction from John Hayford sent to McNair, MTU Archives and CCHC, Presidents Office, Acc. #66, "North Tamarack Mine Experiments from #465" Donor Frantti.

MTU Archives and CCHC vertical file for Tamarack Mining Co.

The Daily Mining Gazette (Houghton, MI), 8 Oct 1901 and 21 Sept 1902.

W. Hallock, *Electrical World and Engineer*, 8 Feb 1902, p. 263-264. Reprinted in *Terrestrial Magnetism and Atmospheric Electricity*, Sept 1902.

F. W. McNair, *Science*, Vol. XV, No. 390, p. 994, June 1902. Reprinted in *Terrestrial Magnetism and Atmospheric Electricity*, Sept 1902.

F. W. McNair, *Engineering and Mining Journal* **73**, 578-580 (1902).

F. W. McNair, *Electrical World and Engineer* **39**(17), 721-723 (April 26, 1902).

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F. W. McNair, *Science* XXIII, 415-416 (1906).

F. W. McNair, *Proc. Am. Assoc. Adv. Sci.*, Meetings 56 and 57, p 447-456 (1907).

J. F. Jackson, *J. Western Soc. Engineers*, Vol VIII, pages 1-19 (1903).

*Curriculum, Dept News (in addition to above):*

Daily Mining Gazette, 4 Oct 1958 - Promotions and other Tech news.

Michigan Tech Lode, 27 Oct 1954, (start of Master's Program).

Michigan Tech Lode, 1 May 1985, page 3 (Chimino; Amjoch Observatory).

Program for 1964 Dedication of Fisher Hall and many Daily Mining Gazette articles during the week of the dedication (8 Oct 1964).

Tech Topics Vol XIII # 51, 3 Sept 1981 (Willis Lamb Talk/Symposium Announcement).

"Department of Mathematics and Physics Research Program – 1927-44," memo of James Fisher (date unknown).

Physics Department files, including (selected) department meeting minutes, especially from the 1970's, and faculty vitae (for example in the 1987 Applied Physics PhD Program Proposal); Report of the Physics Department Internal Review Committee, March 1976. Some recent data and Statistics from Physics Department annual reports.

Michigan Tech Lode, 24 Oct 1973, page 3 - "anonymous" letter about problems in dept.

Court case file, Westlaw, 493 F. Supp. 1137, United States District Court, W. D. Michigan, Northern Division, No. M76-42 CA., June 11, 1980.

*Biographical information:*

*General (used for all where applicable):*

American Men of Science/American Men and Woman of Science.

Science Abstracts

ISI's Science Citation Index

*Specific References, in addition to those above:*

L. R. Duggan -

Daily Mining Gazette "Green Sheet" 16 May 1959 - long story about him.

James Fisher, Jr. -

Obituary: MCMT Alumni News, July 1962, p. 4.

Remembrance: Daily Mining Gazette, 8 October 1964.

W. F. Gilbert-

Daily Mining Gazette, 1 Aug 1960 - Move to Argonne.

E. D. Grant -

Correspondence with James Fisher, in Box 8 of James Fisher Collection, MTU Archives and CCHC.

Daily Mining Gazette, 1 Aug 1916 (Leave of absence announcement).

PhD Thesis, U of Chicago, 1916.

Obituary: The Earlhamite (Earlham College), Vol LVII No. 1, Oct. 1935.

Obituary: The American Friend, September 9, 1935, p 371.

A. E. Haynes -

Description of early curriculum in Box 11 of James Fisher Collection in MTU Archives and CCHC, file on Notes Quizzes etc FW McNair, confirms Haynes came from Hillsdale.

Portrait and Biographical Album of Hillsdale Co., MI 1888, p. 986, as reproduced by the Hillsdale County Michigan USGenWeb Project Biographies, <http://www.rootsweb.com/~mihillsd/data/bios/bios-h.html>.

Who's Was Who in America, Vol I, 1897-1942, p. 540.

History of Livingston County (Mo.), 1886, chapter 12, entry for Silas Wright Haynes, reproduced at <http://www.lcl.lib.mo.us/~lc/History/county/1886/1886chap12.htm>.

R. Keeling -

Michigan Tech Foundation Bulletin, July 1962 - New Equipment.

Obituary: Daily Mining Gazette, 16 Oct 2000.

A. B. Kunz -

Obituary: Tech Topics, Vol 33, #20, 2 Feb 2001.

C. E. Mandeville -

Obituary: Physics Today, August 2003, p. 68.  
"University," by Roger Coan, 1973 (available in MTU Archives and CCHC).

N. S. Osborne -

See National Institute of Standards and Technology, NIST (formerly National Bureau of Standards, NBS), historical web pages.

F. L. Partlo -

See North Dakota School of Mines Historical web pages.

A. R. Rana -

Obituary: <http://www.obitcentral.com/obitsearch/obits/wv/wv-kanawhal7.htm>  
“Miscellaneous Kanawha County, West Virginia Obituaries.” (d. 23 Feb 1997).

I. Roman -

Daily Mining Gazette, 17 Sept 1931 - Announcing new appointments.

NASA Oral History Transcript for Nancy Grace Roman, Sept 2000.

Correspondence with James Fisher, James Fisher Collection, MTU Archives and CCHC.

Obituary: Geophysics, Vol 42, p. 231, (1976).

T. C. Sermon -

Obituary: Daily Mining Gazette, 2 Feb 1983.

J. H. Service -

Correspondence with James Fisher, in James Fisher Collection, MTU Archives and CCHC.

Daily Mining Gazette, 20 May 1952, p. 2 - retirement announcement.

Visit to Lake View Cemetery, Harbor Springs, MI, by B. H. Suits (Fall 2004), and chat with the Sexton (who knew him).

P. D. Shandley -

Obituary: Daily Mining Gazette, (d. 31 July 2002).

D. O. Wyble -

Obituary: Daily Mining Gazette, 5 June 1989.

D. G. Yerg -

Daily Mining Gazette, 18 Jan 1958, p. 12 - Cosmic Ray Study

Daily Mining Gazette, 24 Oct 1960, p. 7 - To Head Graduate Study

Info regarding MCST name for 1 hour appeared on the web site  
[http://www.mtf.mtu.edu/flash/techtrivia\\_expert.swf](http://www.mtf.mtu.edu/flash/techtrivia_expert.swf)  
during summer 2004.

Conversations with/Recollections provided by:

G. P. Agin

D. R. Beck

D. M. Ginsberg (1981 symposium photo identities only)

P. Hinsmann

S. M. Lee

R. H. Mount

A. Overhauser (1981 symposium photo identities only)

V. R. Potnis

Photos: Most photos are marked, as known, and can be found in the MTU Archives and CCHC, even though other sources may have been used here. The 1981 color photos were taken by R. H. Mount. The 2004 photo of the Firehall is by the author. A thanks to the Hillsdale College Archives for the photo of A. E. Haynes.

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