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ACADEMIC CAREER

Received B.S. in history from what is now **Southern Arkansas University** in 1966, and M.A. and Ph.D. degrees in history, specializing in history of science, from the **University of Kansas** in 1968 and 1973. After serving on the faculty of the **University of Wisconsin-Madison** for ten years, moved to **Michigan Tech** in 1983 to become Director of its Program in Science, Technology, and Society. Served as Chair of the Department of Social Sciences at Michigan Tech from 1990 to 2002 and as president of the Society for the History of Technology from 1998 to 2000. Currently Professor of History. Main teaching and research interests are in the history of technology.

HONORS, AWARDS

John M. Townley Award, Mining History Association, 2010 ("best article of the 2009 *Mining History Journal*")

Distinguished Teaching Award, Michigan Technological University, 2004

President, Society for the History of Technology, 1998-2000.

Norton Prize, Society for Industrial Archeology, 1985 and 1998 ("Outstanding scholarly article published in **IA: The Journal of the Society for Industrial Archeology** during the past three years")

PUBLISHED SCHOLARSHIP

(A) BOOKS (*selected*)

Sault Ste. Marie [A history of the pioneer, large-scale hydroelectric plant at Sault Ste. Marie, Michigan] (Washington: Government Printing Office, 1982) 132 pp.

Stronger Than a Hundred Men: A History of the Vertical Water Wheel (Baltimore: Johns Hopkins University Press, 1983) 454 pp. *Japanese translation and edition (Tokyo: Heibonsha Ltd., 1989), 427 pp.

75 Years of Progress: A History of the American Institute of Chemical Engineers, 1908-1983 (New York: AIChE, 1983) 200 pp. [hardback and paperback editions].

Editor and contributor, **The Engineer in America** (Chicago: University of Chicago Press, 1991) 437 pp.

editor with Stephen H. Cutcliffe, **Technology and the West** (Chicago: University of Chicago Press, 1997) 464 pp.

editor with Stephen H. Cutcliffe, **Technology and American History** (Chicago: University of Chicago Press, 1997) 456 pp.

Iron Will: Cleveland-Cliffs and the Mining of Iron Ore, 1847-2006 (Detroit: Wayne State University Press, 2011), 340 pp., with Virginia Dawson

(B) ARTICLES (*selected*)

"Protecting the Royal Navy from Lightning--William Snow Harris and His Struggle with the British Admiralty for Fixed Lightning Conductors," **IEEE, Transactions on Education**, v. E-21 (1978) pp. 7-14 (with T. Bernstein).

"Scientific Influences on Technology: The Case of the Overshot Water Wheel, 1752-1754," **Technology and Culture**, v. 20 (1979) pp. 270-295.

"Cisterns and Fires: Shreveport, Louisiana, as a Case Study of the Emergence of Public Water Supply Systems in the South," **Louisiana History**, v. 22 (1981) pp. 337-367.

"The 'Soo' Hydro: A Case Study of the Influence of Managerial and Topographical Constraints on Engineering Design," **IA: The Journal of the Society for Industrial Archeology**, v. 8 (1982) pp. 37-56. [*Norton Prize, Society for Industrial Archeology, 1985*]

"Water Power and the Medieval Roots of the Industrial Revolution," **Scientific American**, v. 251 (July 1984) pp. 122-130. [transl. as "La radici medioevali della Rivoluzione industriale," **Le Scienze**, v. 193 (1984), pp. 110-121]. Reprinted in Wm. Hughes, ed., **Western Civilization**, v. 1 (Guilford, Conn.: Dushkin, 3rd ed., 1985) pp. 156-65.

"Defining Professional Boundaries: Chemical Engineering in the Early Twentieth Century," **Technology and Culture**, v. 27 (1986) pp. 694-716.

"Edison and 'the Chair'," **Technology and Society (IEEE)**, 8, no. 1 (March 1989): 19-28. (with T. Bernstein)

"A Narrow Window of Opportunity: The Rise and Fall of the Fixed Steel Dam," **IA: The Journal of the Society for Industrial Archeology**, 15 (1989): 1-20. [transl. into Japanese in **Kyosei**, 2 (June 1997): 1-14; reprinted in D. J. Jackson, ed., **Dams** {Studies in History of Civil Engineering., 4} (Hampshire, UK: Ashgate Variorum, 1998).

"The Education of Engineers in America before the Morrill Act of 1862," **History of Education Quarterly**, 32 (Winter 1992): 459-482.

"Good Engineering, Poor Management: The Battle Creek Hydroelectric System and the Demise of the Northern California Power Company," **IA: The Journal of the Society for Industrial Archeology**, 21, no. 2 (1995): 5-24. [*Norton Prize, 1998, Society for Industrial Archeology*]

"Macchine e idraulica" [Machinery & Hydraulics in the 17th & 18th Centuries], **Storia della scienza**, Sandro Petruccioli, ed.-in-chief, vol. 6 (Rome: Istituto della Enciclopedia Italiana, 2002), pp. 149-165. [refereed]

"Chemical Engineering, Accreditation, and the Land-Grant Colleges," in Alan I. Marcus, ed., **Engineering in a Land-Grant Context** (West Lafayette, Ind.: Purdue University Press, 2005), pp. 51-75.

"'Quite an Experiment': A Mining Company Attempts to Promote Agriculture on Michigan's Upper Peninsula, 1895-1915," **Agricultural History**, 80 (2006): 64-98.

"The Phoenix and Its Demons: Water Power in the Past Millennium," **Transactions of the Newcomen Society**, 76 (2006): 153-174.

"Calm or Conflicted: Labor-Management Relations on the Michigan Iron Ranges, 1855-1904," **Michigan Historical Review**, 33, no. 2 (Fall 2007): 1-45.

"A Tale of Two Companies: The Cleveland Iron Mining Company and Iron Cliffs in the Late 19th Century," **Mining History Journal**, 16 (2009): 10-28. [*John M. Townley Award, Mining History Association, 2010*]

"The Miners Dread to Use It': A Comparative Study of the Introduction of Nitroglycerin on the Lake Superior Copper and Iron Ranges, 1865-1880," forthcoming, **Mining History Journal**.

"Cleveland's Iron Ore Merchants and the Lake Superior Iron Ore Trade, 1855-1900," forthcoming **Ohio History**.

(C) OTHER MEDIA and MISCELLANEOUS

"Life on the Michigan Iron Ranges," twenty-minute, four-projector, orientation program at Michigan Iron Industry Museum, Negaunee [authored script, selected images], 1990-2008.

Grace of Houghton: A History of Grace United Methodist Church, Houghton, Michigan, 1854-2004 (Houghton, Mich.: Grace United Methodist Church, 2004), 78 pp. [*J. A. Baughman Church History Award, Commission on Archives & Records, Detroit Annual Conference, United Methodist Church, 2005*]

Approximately 65 entries of varying length in various reference works and around 100 book reviews in a wide assortment of journals.

OTHER SELECTED PROFESSIONAL ACTIVITIES

Advisory Editor, History of Technology, **Encyclopedia Americana**, 1980-1993; **Institutional Members Advisory Board**, National Association for Science, Technology and Society, Chair, 1992-1994; **Advisory Editor, Technology and Culture**, 1994-1998; **Executive Council**, Society for the History of Technology, 1996-2006;

General Tools Award Committee, Society for Industrial Archaeology, 1992-1994; Chair 1993-1994; Book Review Editor for *IA: Journal of the Society for Industrial Archeology*, 1994-Present.