The Literature on the History of Science and Technology in Canada: 1992–1994

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INTRODUCTION

This bibliography consists of over 260 records extracted from the database of an ongoing project, which when completed will result in the most comprehensive reference source for publications concerned with the history of science and technology in Canada. The project is funded by a three year (1994-1997) research grant from the Social Sciences and Humanities Research Council of Canada and is based at Dalhousie University. A national editorial advisory board supports the project.

For the present bibliography we have extracted from the database those records published in 1992, 1993, and 1994; but we wish to caution our readers that the coverage of this period is not complete. Only those records that were in our database as of 1st November 1994 have been included here. We expect that when the period is fully covered the number of records will more than double. Since relevant publications are subjected to rigorous examination before records are created in our database, not all publications from 1992 to 1994 have as yet been so examined.

The records below cover a wide range of topics on the history of science and technology in Canada. Graduate theses have been included to provide thorough coverage. The brief records (the full entries in the database are more extensive) are designed to alert readers to relevant publications with minimum reference points.

The bibliographic records have been organized according to subject using modified subject descriptors from our database. The
subject classification has been developed specifically for this project in consultation with the national Editorial Advisory Board. An outline of the subject classification (abbreviated for the present bibliography) has been reproduced below to guide the reader through the hierarchical structure. A record will appear under as many subject headings as are relevant, and thus a record can have more than one record number. Within each subject category, records are sorted by author and then by title. Publications without authors are listed ahead of those with authors. At the end of the subject listing we have provided an author index. The boldface record number in each case refers the reader to the first occurrence of each unique record. Record numbers in normal face refer the reader to a record which has been duplicated under other relevant subject headings.

We anticipate that when the database for this project is closed in late 1995 the total number of records will be in excess of 10,000. Readers are encouraged to forward enquiries, corrections, or information about relevant publications to the authors at the School of Library and Information Studies, Faculty of Management, Dalhousie University, Halifax, Nova Scotia, Canada B3H 4H8; fax (902) 494-2451; e-mail: MacDonal@AC.DAL.CA.

SUBJECT CLASSIFICATION OUTLINE

A. History of Science
   1 General Reference Works
      1.1 Bibliographies and Bibliographical Tools
      1.2 Biographical and Autobiographical Works
   2 General Works or Treatments
   3 Science and Its History from Special Points of View
      3.1 Humanistic Relations of Science
      3.2 Philosophy of Science and Methods of Science
      3.3 Scientific Education
      3.4 Scientific Institutions
         3.4.1 Archives
         3.4.2 Associations and Societies
         3.4.3 Government Agencies
         3.4.4 Libraries
         3.4.5 Museums
         3.4.6 Parks
      3.5 Social Relations of Science
      3.6 Women in Science
   4 Specific Sciences
      4.1 Biological Sciences
4.2 Earth Sciences
4.3 Travel and Exploration
4.4 Natural History
4.5 Physical Sciences — General Works
4.5.1 Astronomy
4.5.2 Chemistry
4.5.3 Physics
5 Ancillary Disciplines
5.1 Archaeology

B. History of Technology
6 General Reference Works
6.1 Bibliographies and Bibliographical Tools
6.2 Biographical and Autobiographical Works
7 General Works or Treatments
8 Technology and Its History from Special Points of View
8.1 Humanistic Relations of Technology (Technology and Culture)
8.2 Social Relations of Technology
8.3 Technical Education
8.4 Technical Institutions — General Works
8.4.1 Associations and Societies
8.4.2 Government Agencies
8.4.3 Libraries
8.4.4 Mechanics’ Institutes
8.4.5 Museums
8.4.6 Parks
8.5 Women in Technology
9 Specific Technologies
9.1 Architecture and Urban Construction
9.2 Communications Technology — General Works
9.2.1 Film and Moving Image
9.2.2 Phonographs and Recorders
9.2.3 Photography
9.2.4 Printing and Publishing
9.2.5 Radio
9.2.6 Telegraphy
9.2.7 Telephone and Telecommunications
9.2.8 Transmission (Fibre Optic, Satellite, Cable, etc.)
9.3 Computers and Computing
9.4 Household Technology
9.5 Manufacturing Industries — General Works
9.5.1 Brewing and Distilling
9.5.2 Coal, Natural Gas, and Petroleum Products
9.5.3 Electrical and Electronic Equipment
9.5.4 Food Processing, Packaging, and Storage
9.5.5 Glass, Ceramics, and Cement
9.5.6 Heavy Equipment
9.5.6.1 Agricultural
9.5.6.2 Transportation
9.5.7 Metals: Metallurgy
9.5.8 Paper
9.5.9 Textiles and Allied Products
9.5.10 Timber and Wood
9.6 Mechanical and Electro-Mechanical Technology
9.6.1 Cranes, Rigging, and Moving of Heavy Objects
9.6.2 Handtools and Machine Tools
9.6.3 Scientific Instruments
9.6.4 Timekeepers
9.7 Military Technology
9.8 Native Technologies
9.9 Natural Resources — General Works
9.9.1 Agriculture
9.9.2 Fisheries
9.9.3 Forestry
9.9.4 Mining and Metallurgy
9.9.5 Petroleum and Natural Gas Extraction
9.9.6 Trapping and Hunting
9.10 Power Technology
9.11 Surveying (for Boundaries, Settlement and Transportation)
9.12 Transportation — General Works
9.12.1 Air and Space Transportation
9.12.2 Land Transportation
9.12.2.1 Rail
9.12.2.2 Roads, Bridges, and Tunnels
9.12.2.3 Urban
9.12.2.4 Vehicles
9.12.3 Water Transportation

C. Science and Technology and the Economy
D. Science and Technology in Public Policy
E. Science and Technology in Urban Settings
F. General Reference Works

THE BIBLIOGRAPHY

A. History of Science
1.1 Bibliographies and Bibliographical Tools


1.2 Biographical and Autobiographical Works


2 General Works or Treatments


26 Bravo, M. T. “Science and discovery in the Admiralty voyages to the Arctic Regions in search of a North-West Passage (1815-1825),” Cambridge, UK: Cambridge University, 1992 (Ph.D. dissertation).


3.1 Humanistic Relations of Science


### 3.2 Philosophy of Science and Methods of Science


### 3.3 Scientific Education


### 3.4.1 Archives


3.4.2 Associations and Societies


3.4.3 Government Agencies


### 3.4.4 Libraries


### 3.4.5 Museums


79 Baeker, Greg; Margaret May; and Mary Tivy. "Ontario museums in the 1990s," *Muse* 10, no. 2/3 (summer/fall 1992): 120-3.


3.4.6 Parks

3.5 Social Relations of Science


3.6 Women in Science


4.1 Biological Sciences


115 Duchesne, Raymond. "La France et l'émergence des sciences modernes au Canada française (1900-1940)," in *Science and empires: historical studies about scientific development and European expansion.* Patrick Petitjean, Catherine Jami, and Anne Marie Moulin, ed. Dordrecht: Kluwer Academic


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4.2 Earth Sciences


4.3 Travel and Exploration


173 Bravo, M. T. "Science and discovery in the Admiralty voyages to the Arctic Regions in search of a North-West Passage (1815-1825)," Cambridge, UK: Cambridge University, 1992 (Ph.D. dissertation).


4.4 Natural History


4.5 Physical Sciences — General Works


4.5.1 Astronomy


4.5.2 Chemistry


4.5.3 Physics


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5.1 Archaeology


B. History of Technology

6 General Reference Works


6.1 Bibliographies and Bibliographical Tools


6.2 Biographical and Autobiographical Works


7 General Works or Treatments


8.1 Humanistic Relations of Technology (Technology and Culture)


8.2 Social Relations of Technology


8.3 Technical Education


258 Hews, Charles F. A. *A history of mining engineering at Queen's. The first 100 years: 1893 to 1993.* [Kingston, ON]: Department of Mining Engineering, Queen's University, 1993. ix, [3], 260 p. ill.


8.4 Technical Institutions — General Works


8.4.1 Associations and Societies


### 8.4.2 Government Agencies


### 8.4.3 Libraries


### 8.4.4 Mechanics’ Institutes


### 8.4.5 Museums


Baeker, Greg; Margaret May; and Mary Tivy. "Ontario museums in the 1990s," *Muse* 10, no. 2/3 (summer/fall 1992): 120-3.


8.4.6 Parks


8.5 Women in Technology


9.1 Architecture and Urban Construction


9.2 Communications Technology — General Works


9.2.1 Film and Moving Image


9.2.2 Phonographs and Recorders


9.2.3 Photography


9.2.4 Printing and Publishing


337 Goheen, Peter G. "Communications and newsmaking before the telegraph: the story of the 1845 Quebec City fires," The Canadian Geographer/Géographe Canadien 37, no. 3 (fall 1993): 230-42.


9.2.5 Radio


9.2.6 Telegraphy


9.2.7 Telephone and Telecommunications


9.2.8 Transmission (Fibre Optic, Satellite, Cable, etc.)


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9.3 Computers and Computing


9.4 Household Technology

9.5 Manufacturing Industries — General Works


9.5.1 Brewing and Distilling

9.5.2 Coal, Natural Gas, and Petroleum Products


9.5.3 Electrical and Electronic Equipment


9.5.4 Food Processing, Packaging, and Storage


9.5.5 Glass, Ceramics, and Cement


9.5.6.1 Heavy Equipment — Agricultural


9.5.6.2 Heavy Equipment — Transportation


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9.5.8 Paper

9.5.9 Textiles and Allied Products


9.5.10 Timber and Wood


9.6.1 Cranes, Rigging, and Moving of Heavy Objects

9.6.2 Handtools and Machine Tools

9.6.3 Scientific Instruments

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9.9 Natural Resources — General Works


9.9.1 Agriculture


9.9.2 Fisheries


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9.9.3 Forestry


9.9.4 Mining and Metallurgy


Hews, Charles F. A. *A history of mining engineering at Queen’s. The first 100 years: 1893 to 1993.* [Kingston, ON]: Department of Mining Engineering, Queen’s University, 1993. ix, [3], 260 p. ill.


9.9.5 Petroleum and Natural Gas Extraction


9.9.6 Trapping and Hunting


9.10 Power Technology


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9.11 Surveying (for Boundaries, Settlement and Transportation)


9.12 Transportation — General Works


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9.12.2.1 Rail


496 Harding, Les, 1950-. "When the going was bad: St John's to Port aux Basques," The Beaver 72, no. 1 (Feb./Mar. 1992): 34-6. ill.


499 Mayhew, Anne. "Steaming the Kettle. The impossible railway dreams on through villainous territory," Beautiful British Columbia 36, no. 3 (fall 1994): 36-44. ill.


9.12.2.2 Roads, Bridges, and Tunnels


9.12.2.3 Urban

9.12.2.4 Vehicles


9.12.3 Water Transportation


C. Science and Technology and the Economy


D. Science and Technology in Public Policy


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E. Science and Technology in Urban Settings


F. General Reference Works

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