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

Scientia canadensis 153
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

154 The Literature on the History of Science and Technology in Canada
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


156 The Literature on the History of Science and Technology in Canada


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


4.2 Earth Sciences


166 The Literature on the History of Science and Technology in Canada


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


5.1 Archaeology


B. History of Technology

6 General Reference Works


6.1 Bibliographies and Bibliographical Tools


Scientia canadensis
0-226-11569-0. (University of Chicago Geography Research Papers, no. 235).


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


277 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


178 The Literature on the History of Science and Technology in Canada


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.)


180 The Literature on the History of Science and Technology in Canada


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


182 The Literature on the History of Science and Technology in Canada


**9.5.7 Metals: Metallurgy**


9.5.8 Paper
Gagnon, Gaston. "Un mémorial régional. La pulperie de Chicoutimi," 

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

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


452 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


9.11 Surveying (for Boundaries, Settlement and Transportation)


9.12 Transportation — General Works


9.12.1 Air and Space Transportation


9.12.2 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


194 The Literature on the History of Science and Technology in Canada


E. Science and Technology in Urban Settings


F. General Reference Works

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.

Abbes, H. □ 134, 168
Adelman, Jeremy. □ 241, 417
Ainley, Marianne Gosztonyi, 1937-. □ 8, 110; 106, 210
Allain, Charles. □ 377
Ankli, Robert E. □ 418
Apostle, Richard. □ 242, 435, 529
Arai, Mary Needier. □ 54, 111
Austin, Barbara J. □ 378
Aviation Statistics Centre (Canada). □ 373, 482
Babaian, Sharon Anne, 1957-. □ 212, 341, 400, 483
Baeker, Greg. □ 79, 277
Ball, Norman R., 1944-. □ 352, 364; 465; 236, 252, 262
Barendregt, R. W., ed. □ 9, 135
Barr, William. □ 169; 10, 136, 170; as ed. □ 171
Barrett, Gene. □ 242, 435, 529
Barrett, Wayne. □ 472, 526
Beattie, Owen. □ 181
Beeby, Dean, 1954-. □ 172, 196, 484
Belyea, Barbara. □ 137, 412
Benn, Carl, 1953-. □ 401
Bogue, Margaret Beattie. □ 112, 436, 535
Bolotenko, George, 1946-. □ 25, 237, 551
Bombardier Inc. □ 374, 402, 478
Boreham, P. W. (Peter W.), 1955-. □ 183, 453
Bosher, J. F. (John Francis), 1929-. □ 224, 514
Bouchard, Gérard. □ 419
Boyle, R. W. □ 11, 55, 138, 211
Brace, Irving A. □ 327, 334
Bravo, M. T. □ 26, 173
Bray, Emile-Frédéric de, 1829-1879. □ 174, 515
Breen, David H. □ 266, 361, 460
Broughton, R. Peter, 1940-. □ 47, 208
Brown, Marian K. □ 243, 445
Bunyan, Ian. □ 12, 175, 197, 413
Butler, Darrel. □ 80, 278
Byers, Mary, 1933-. □ 244, 304
Calcoen, Roger. □ 2, 148
Calder, Jenni. □ 12, 175, 197, 413
Campagna, Palmiro. □ 485, 536
Canuel, Alain. □ 342, 344
Cardinal, Louis. □ 56, 139
Carle, Paul. □ 81
Carter, John C. □ 36, 83, 254, 280;
35, 82, 253, 279
Centre des statistiques de l'aviation (Canada). □ 375, 486, 531
Charbonneau, André, 1950-. □ 305, 403
Chevalier, Jacques. □ 376, 532, 547
Christie, Nancy. □ 57, 140, 267, 537
Cleevly, R. J. □ 141, 335
Cohen, Montague. □ 213
Cole, Douglas, 1938-. ed. □ 142, 176
Connelly, Don. □ 239, 487
Conzen, Michael P., ed. □ 1, 143, 225
Cook, Jenny. □ 29, 104, 198
Copeland, M. J. □ 13, 58, 144
Corbet, Elise A. □ 372
Croft, L. R. □ 14, 30, 113, 199
Crump, Harry T. □ 466, 516
Dahl, Edward H. □ 42, 145
Dansereau, Bernard. □ 336, 379
Davies, Adriana Albi. □ 84, 281
Davies, Gwion. □ 177, 231
Davis, Angela E. □ 300; 299, 420
Davis, Donald. □ 490, 510, 511
Davis, Richard. □ 160, 192, 204
Day, Tanis. □ 245, 354
DeBresson, Chris. □ 261, 469
Dewalt, Bryan, 1959-. □ 349, 353
Dewar, Gary S. □ 517
Dickensen, Victoria. □ 31; 85, 282
Doane, Frances W. □ 48, 114
Dodds, Gordon. □ 232, 328
Doherty, Ken. □ 49, 76, 86, 272,
275, 283
Locke, Jeffrey W. □ 464
Lockner, Bradley, ed. □ 142, 176
Loewen, Brad. □ 393
Longard, John R. □ 217, 321, 408
MacDonald, Edward. □ 95, 290
MacLaren, I. S. □ 188, 338
MacLeod, Mary K. □ 346
MacRae, Barbara. □ 399
Maitland, Leslie. □ 291, 312; 313
Marcil, Claire. □ 51, 96, 103, 202
Marcil, Eileen. □ 522
Martin, Roger. □ 440
Martyn, Katharine. □ 157, 189
Maurice, Philippe. □ 329
May, Margaret. □ 79, 277
Mayer, Carol E. □ 97, 292
Mayhew, Anne. □ 499
Mays, John Bentley. □ 314
McBurney, Margaret, 1931-. □ 244, 304
McCordle, Bennett, 1953-. □ 6, 70, 228, 269
McCullough, A. B. (Alan Bruce), 1945-. □ 389
McDonald, Ronald A. J. □ 247, 447, 533
McInnis, R. M. □ 432
McKenzie-Brown, Peter. □ 362, 461
McKillop, A. B., 1946-. □ 39, 108, 259, 302
McLeod O'Reilly, Susan, 1955-. □ 322, 500; 323, 501
McLeod, R. C., ed. □ 433, 544
McNally, Larry S. (Larry Stewart), 1952-. □ 382; 383
Merritt, Hope. □ 363, 462
Metzener, Michele. □ 81
Meyer, Ron, 1946-. □ 227, 502
Michel, Robert. □ 17, 44
Millar, W. P. J. (Winnifred Phoebe Joyce), 1942-. □ 246, 263
Mitchell, J. G. (John G.), 1943-. □ 183, 453
Morrison, David A. □ 190, 223
Mouat, Jeremy. □ 458, 534
Mural, Darryl E., 1944-. □ 503
Murray, Jeffrey S. □ 45, 67, 158
Newell, Dianne, 1943-. □ 126, 248, 367, 441, 545
Newman, Murray A., 1924-. □ 98, 127
Nobbs, Ruby. □ 504
Numbers, Ronald L. □ 34, 128, 159
O'Brien, Patrick. □ 18, 191
Olin, Jacqueline S., ed. □ 180, 220, 380, 451
Ovenell-Carter, Brad. □ 360
Pacey, Elizabeth. □ 315, 409
Palmer, Richard. □ 316, 415
Parker, Mike. □ 394, 448
Patterson, Margaret Jean. □ 99, 293
Peacock, Jim. □ 52, 203
Pike, Robert M. □ 249, 348
Prince, Philippe. □ 233, 512
Proulx, Jean-Pierre, 1943-. □ 442, 523
Pyenson, Lewis. □ 105, 207
Rawling, Bill, 1959-. □ 324, 384, 410, 481
Rayner-Canham, Geoffrey W. □ 19, 218
Rayner-Canham, Marelene F. □ 19, 218
Reeves, Wayne C. □ 317; 318
Ricketts, Shannon. □ 313
Riffenburgh, Beau. □ 160, 192, 204; 193
Robertson, Peter. □ 68, 161, 330
Rodger, Andrew. □ 68, 161, 330
Rumney, Thomas A., ed. □ 1, 143, 225
Sabourin, Hélène. □ 265
Saindon, Richard. □ 513
Samson, Roch. □ 385
Sandberg, L. Anders, ed. □ 250, 449, 546
Sarjeant, William A. S. □ 20, 69, 109, 162
Scheinberg, Ellen. □ 303, 390
Sheets-Pyenson, Susan, 1949-. □ 21, 40, 205; 5, 46
Silver, Jim. □ 368
Simon, G. T. □ 48, 114
Simper, Fred. □ 340
Smith, Anthony E. □ 251
Smith, Julian A. □ 386, 399; 53, 209, 234, 398
Smith, Stanley. □ 508
Soltan, H. C. (Hubert C.). □ 129; as ed. □ 41, 130

198 The Literature on the History of Science and Technology in Canada
Spalding, David A. E., 1937-. □ 22, 163
Spring, John. □ 505
Spry, Irene M. □ 6, 70, 228, 269
Steeves, Brian. □ 71, 77, 270, 274
Stevenson, Candace. □ 100, 294
Stone, Ian R. □ 194
Summers, John. □ 525
Taber, Thomas T., III. □ 229, 506
Tarpin, Christine. □ 295
Teather, J. Lynne. □ 101, 296
Thibault Régis. □ 419
Thompkins, R. W. (Russell Walter), 1908-. □ 235, 459
Thurston, Harry, 1950-. □ 472, 526; 164
Tivy, Mary. □ 72, 102, 297; 79, 277
Tremblay, Yves. □ 474; 473
Trépanier, Michel. □ 61, 214, 468, 539; 219, 475
Triggs, Stanley. □ 232, 328
Twichell, Heath, 1934-. □ 509
Vardalas, John N. □ 352, 364
Velayas, James M. □ 347
Vick, Roger. □ 23, 131, 331
Vincent, Elizabeth. □ 319, 371, 387, 411
Vodden, Christy. □ 73, 271
Wagg, Phyllis. □ 428
Waiser, W. A. □ 195, 332
Warecki, George. □ 50, 121, 541
Watson, J. H. L. □ 48, 114
Weaver, Helene. □ 476, 528
Wellens-De Donder, Liliane. □ 2, 148
Wetherell, Donald Grant. □ 372
White, Annette. □ 391
Williams; Glyndwr, ed. □ 171
Williamson, A. M. □ 443
Wilson, Bryce. □ 12, 175, 197, 413
Wilson, M. C., ed. □ 9, 135
Wilson, Scott D. □ 165
Wood, David. □ 74, 132, 434, 450
Wyczynski, Michel. □ 369, 444
Wynn, Graeme, 1946-. □ 7, 166, 230; as ed. □ 1, 143, 225
Yochelson, Ellis L. □ 167
Young, Darius R. □ 260
Young, Kathryn A. □ 24, 75, 133

Scientia canadensis 199