

**William W. Shilts**  
**PERSONAL HISTORY**

**Present Addresses**

Home

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**EDUCATION**

A.B. - DePauw U., Greencastle, Indiana, grad. 1963  
M.S. - Miami University, Oxford, O., grad. 1965  
Ph.D. - Tulane U., New Orleans, x 1966 Syracuse U. Syracuse, N.Y.; grad, 1970  
Post Doctorate Fellowship - National Research Council of Canada (Ottawa);  
1969-1970

**PRESENT POSITION**

- (1) Principal Scientist and Founding Executive Director, University of Illinois, Prairie Research Institute
- (2) Professeur-associé (Adjunct), Université de Quebec a Montreal (UQAM)
- (3) Adjunct Professor, University of Illinois, Department of Geology
- (4) Adjunct Professor, Illinois State University, Department of Geology/Geography

**RELEVANT EXPERIENCE**

Vermont Geological Survey; summers 1964, 1966  
Geological Survey of Canada; Field Officer; summers 1965, 67, 68, 69  
National Research Council (Canada), post-doctorate fellowship; September 1969-March 1970  
Research Scientist, Terrain Sciences Division, Geological Survey of Canada (GSC); 1970-1973  
Head, Sedimentology and Mineral Tracing Section (Terrain Sciences Division); 1973-1986  
Reading and lecture courses in glacial sedimentology, applied glacial geology: Ottawa-Carleton Geoscience Centre, 1983-1995; Formal Course in Glacial Geology (in French) Fall Semester University of Montréal, 1993  
Head, Sedimentology Research Group (GSC); 1986-1987  
Senior Quaternary Scientist (GSC); 1987-1992  
Supervisor or external examiner for 14 Ph.D., 22 M.Sc. 11 B.Sc., one docent (post Ph.D.); at Queen's, Carleton, Ottawa, Brock, Montréal, Western Ontario, McGill, New Brunswick, Oulu (Finland), Colorado, Illinois, Massachusetts Universities  
Head, Environmental Geochemistry Section, Applied Geochemistry Subdivision, Université de Quebec a Montreal (UQAM), Mineral Resources Division; 1992-1995

Chief, Illinois State Geological Survey; 1995-2008

## **TEACHING EXPERIENCE**

Geomorphology Instructor: Syracuse U. 1968-69

Glacial Geology: U. Montréal 1993

Reading and lecture courses in glacial sedimentology, applied glacial geology: Ottawa-Carleton Geoscience Centre, 1983-1995; U. Montreal 1989-1995

Glacial Sedimentology, Carleton U., 1994

Environmental Problems in Glaciated Terrain, University of Illinois, 1996

Geomorphology (sequence of 5 lectures), University of Illinois, 1999

Team taught a semester course of Glacial Geology with Professor Nelson, Illinois State University, 2003

Geomorphology (2 lectures), University of Illinois, 2004

Team taught 'Geology of Illinois' University of Illinois, 2007

## **RESEARCH INTERESTS**

- 1) Configuration and dynamics of North American continental ice sheet; geological constraints
- 2) Environmental geochemistry
- 3) Glacial sedimentology/stratigraphy
- 4) Neotectonics methods for detecting prehistoric seismic events, particularly in lakes
- 5) High Arctic glacier sedimentation
- 6) Eskers; sedimentation and genesis
- 7) Arctic and temperate limnology geophysical methods of studying physical limnology subbottom and sidescan acoustic profiles; geochemical profiles of cores as indicators of relative importance of Anthropogenic and Natural sources of elements
- 8) Stratigraphy and glacial sedimentation, Hudson Bay Lowlands, Quebec Appalachians
- 9) Drift mineralogy/chemistry for correlation, drift genesis and applied studies
- 10) Periglacial features: patterned ground of Canadian Shield; terrestrial and sublacustrine patterned ground.
- 11) Mineral prospecting in glaciated terrain

## **COMMITTEES, ASSOCIATIONS**

- 1) Permafrost Subcommittee of National Research Council of Canada (NRC), 1973 -78
- 2) INQUA-Committee on genesis and lithology of Quaternary sediments, 1975 - present
- 3) Research Monitoring and Co-ordinating Committee (RMCC) Acid Rain, 1984-1990
- 4) Bilateral Research Consultation Group (BRCG), 1980, U.S.-Canada Acid Rain, member and report collaborator
- 5) Impact assessment group for proposed Polargas arctic gas pipeline, 1978
- 6) Coordinator, Acid Rain research at Geological Survey of Canada, 1981-87
- 7) MAGNEC-Multi Agency Group for Neotectonics in Eastern Canada, 1987-1995
- 8) Chairman, Scientific Subcommittee of Geological Survey of Canada, Environmental Task Force (ETF); member ETF, 1991
- 9) Member, Mining Industry Technology Council of Canada (MITEC) 1992-1995

- 10) Alternate member, Mine Environment Neutral Drainage Program (MEND)
- 11) Member, Environment Canada □ Mining Association of Canada Standing Committee, 1993-1995
- 12) Member, AQUAMIN Working Group to assess the aquatic effects of mining in Canada, 1994-1995
- 13) Member, Aquatic Effects Technology Evaluation (AETE) Technical Committee (to assess impacts of mine effluents on the aquatic environment) 1994-1995
- 14) Member, Central United States Earthquake Consortium (CUSEC), 1995-2000; Chairman, 1997
- 15) Member, Association of American State Geologists (AASG), 1995-present; Member, AASG Congressional Liaison Committee, 1997-2001; Statemap Proposal Evaluation Committee, 1997-1999; Chair, Environmental Committee, 1996-2000; Chair, International Relations Committee, 1998-2005
- 16) Member, Illinois Board of Licensing for Professional Geologists, 1996-present
- 17) Member, Illinois Coal Development Board, 1996-1998
- 18) Member, Illinois Basin Consortium, 1995-2005
- 19) Secretary, Coal Advisory Committee to the State Geological Survey, 1995-1999
- 20) Founding Member, Central Great Lakes Geologic Mapping Coalition, 1997-present
- 21) Member, Science Advisory Committee to the Illinois River Coordinating Council, 1999-present
- 22) Officer, Commission on Geological Sciences for Environmental Planning (COGEOENVIRONMENT), 1999-2000
- 23) Member, Vice Chancellor for Research Survey/University Strategic Planning Committee, 1997-2008
- 24) Member, US National Committee of the International Union of Geological Sciences; US Academy of Sciences.
- 25) Geochemistry: Exploration, Environment, Analysis (GEEA) Editorial Board
- 26) Member, Board on Earth Sciences and Resources, National Research Council, 2008-2010
- 27) Member, Spurlock Museum Board, 2012-present

## **WORKSHOPS, GROUP PUBLICATIONS**

- 1) Workshop leader, exploration geochemistry of glacial sediments -International Geochemical Exploration Symposium (IGES), Helsinki (1983)
- 2) Workshop on prospecting in glaciated terrain, Toronto, 1980, speaker
- 3) Decade of North American Geology (DNAG), Centennial Special Volume, Geomorphology of North America, chapter editor of 'Geomorphology of Canadian Shield'
- 4) Workshop on drift prospecting in the Cordillera, Vancouver, 1986, co-leader
- 5) Ottawa Board of Education, Day of the Earth Workshop, 1989, speaker
- 6) Geological Survey of Canada Exploration Geochemistry Workshop, session leader Vancouver 1992, Toronto 1992, Washington 1993

## **ASSOCIATIONS**

- 1) Prospectors and Developers Association of Canada (PDAC)
- 2) Geological Association of Canada (GAC)

- 3) Assoc. québécoise pour l'Étude du Quaternaire (AQQUA)
- 4) Canadian Quaternary Association (CANQUA)
- 5) Arctic Institute of North America
- 6) Geological Society of America, 1967-present; Fellow 2003
- 7) Association of American State Geologists, 1995-present
- 8) Member, American Institute of Professional Geologists, 2003-present
- 9) Member, Ohio Academy of Sciences

## **HONORS AND AWARDS**

- 1) National Science Foundation Graduate Fellowship, Syracuse U., 1966-67
- 2) National Research Council (Canada) Postdoctorate Fellowship, 1969-70
- 3) Keynote Speaker, Royal Society Till Symposium, 1975
- 4) Keynote Speaker, INSTAAR Annual Arctic Symposium, Boulder, Colorado, 1980
- 5) Canadian Institute of Mining and Metallurgy (CIMM) Distinguished Lecture Series. Quebec, 1981
- 6) President, Logan Club of Geological Survey of Canada, 1982-83
- 7) Keynote speaker, drift exploration section International Geochemical Exploration Symposium (IGES)-SMGP, Helsinki 1983
- 8) Invited by organizing committee of IGES-SMGP to tour Finland to evaluate and compare geochemical exploration technology in Finland and Canada
- 9) Evaluator of candidates for first Chair in Low Temperature Geochemistry in Finland, Univ. of Oulu, 1983
- 10) Keynote Speaker, CIMM "Till Tomorrow" Conference, Kirkland Lake, 1984.
- 11) Louis B. Weeks Distinguished Lecturer, Univ. of Wisconsin, 1984
- 12) Civil Service outstanding achievement, Group Award (monetary), STAMP program, 1985
- 13) Keynote speaker, INQUA special session No. 8, Drift Prospecting, 1987
- 14) Guest and invited lecturer, Polish Academy of Sciences, Torun, (1988), 15th Polish Arctic Symposium, 1988
- 15) Keynote speaker, Drift Prospecting Colloquium, Université du Québec à Montréal, 1988
- 16) Civil Service outstanding achievement, Group Award (monetary), Exploration Technology Program (EXTECH), 1992
- 17) Chosen chapter contributor to GSC's, 150<sup>th</sup> Anniversary Issue, Canadian Journal of Earth Sciences, 1993
- 18) National Science and Engineering Research Council (NSERC) operating grant, Carleton University 1991-1993; 1993-1996
- 19) Keynote speaker, British Columbia Geological Survey Branch, Drift exploration short course, 1994
- 20) Association professionnelle des géologues et des géophysiciens du Québec, Grand prix du Mérite géoscientifique, Honorary Member and Géologue émérite, 1997
- 21) Keynote speaker, Sigma Xi Annual Banquet, Illinois State University, 1997
- 22) Keynote speaker, Canadian Quaternary Association, Annual Banquet, Montreal, Quebec, 1997
- 23) Keynote speaker, 2<sup>nd</sup> Annual Symposium on Environmental Geology, Turku, Finland, 1999



- Champaign, Illinois
- “State-of-the-Survey Address” Illinois State Geological Survey Poster Fair, November 16, 1995, Champaign, Illinois
- “Natural and Anthropogenic Geochemistry of Lake Sediments, Lac Aylmer, Quebec,” Southern Illinois University Geology Colloquium, December 1, 1995, Carbondale, Illinois
- “Overview of research in geologic mapping and how it relates to surface and groundwater resources; and comments on future plans at the Illinois State Geological Survey,” Hydraulic Engineering Luncheon, January 18, 1996, Champaign, Illinois
- “Periglacial Features and Patterned Ground in the Canadian Shield,” University of Illinois Department of Geography Colloquium, February 16, 1996, Champaign, Illinois
- “Geologic Mapping in Illinois,” Illinois State Water Survey Hydrology Division Seminar, March 18, 1996, Champaign, Illinois
- “Field Work in the Tundra, District of Keewatin 1970-1988,” Illinois State Geological Survey Brown-Bag Seminar, July 12, 1996, Champaign, Illinois
- “Mapping Illinois in 3-Dimensions: Taking Earth Science into the 21st Century,” Society for Mining, Metallurgy and Exploration, Chicago Section, September 18, 1996, Bloomington, Illinois
- “Detailed Geologic Mapping of Illinois in 3-Dimensions for Aquifer Characterization and Groundwater Protection,” Illinois Groundwater Association and the Illinois-Indiana American Institute of Professional Geologists Joint Conference, October 9 & 10, 1996, Starved Rock Lodge, Utica, Illinois
- “State-of-the-Survey Address,” Illinois State Geological Survey Poster Fair, November 4, 1996, Champaign, Illinois
- “Mission, Goals, and Employment Opportunities with the Illinois Survey,” Northwestern University Geological Sciences Senior Seminar, January 22, 1997, Evanston, Illinois
- “Mapping Illinois in 3-Dimensions,” Association of Engineering Geologists, March 18, 1997, Chicago, Illinois
- “Status and Future of the Illinois State Geological Survey and opportunities for students,” Augustana College, Department of Geology, March 21, 1997, Rock Island, Illinois
- “Erosional and Depositional Stratigraphy of the Appalachians of Southeastern Quebec,” Illinois State Geological Survey Scientific Seminar, April 2, 1997, Champaign, Illinois; and oral presentation within the Session on Deglaciation of the Appalachians of the Canada Quaternary Association meeting, 1997, Montreal, Canada
- “Geology and Geological Surveys’ Role in Society,” Illinois State University Sigma Xi Banquet, April 24, 1997, Normal, Illinois
- “Glacial Geology, The Future Challenges,” Canada Quaternary Association 1997 Annual Banquet Keynote Speaker, May 23, 1997, Montreal, Canada
- “Mapping Surficial Deposits in Glaciated North America—Beyond Qal,” Illinois State Water Survey Seminar, July 29, 1997, Champaign, Illinois
- “State-of-the-Survey Address,” Illinois State Geological Survey Poster Fair, November 7, 1997, Champaign, Illinois
- “Effects of Paleoseismicity and Modern Seismicity on Lakes and Glaciated Surfaces in Canada,” Illinois State Geological Survey Seminar, January 21, 1998, Champaign, Illinois
- “State-of-the-Survey Address,” Illinois State Geological Survey Annual Awards Program, September 29, 1998, Champaign, Illinois
- “Impact of Seismic Events on Lakes: Implications for Assessing Paleoseismicity,” *Earthquake*

*Hazard Maps and Their Applications* Symposium, 1998 Association of Engineering Geologists Annual Meeting, October 2, 1998, Seattle, Washington

“Taking Earth to the People—Barriers and Opportunities,” *Breaking Down Barriers: Communicating Relevant Geoscience Issues to the Public*, Session #43, Geological Society of America Annual Meeting, October 26, 1998, Toronto, Canada

Talk on 3-D Geologic Mapping at Earth Tech, February 3, 1999, Oak Brook, Illinois

“Environmental Geochemistry of Base Metals,” Universidade Federal De Ouro Preto, Escola De Minas, Departamento De Geologia, November, 1998, Ouro Preto, Brazil

“Environmental Geology - our mission in the 21<sup>st</sup> century,” Ympäristögeologian Päivät 1999 Keynote Lecturer, March 23-24, 1999, Turku, Finland

“Using Acoustic Profiling in Lakes to Evaluate Paleoseismicity,” Northern Illinois University Colloquium, April 9, 1999, DeKalb, Illinois

3 talks at “Central Great Lakes Geologic Mapping Coalition—A Model of Federal/State Government Cooperation for the 21<sup>st</sup> Century,” North-Central Geological Society of America Meeting, April 22-23, 1999, Champaign, Illinois

Central Great Lakes Geologic Mapping Coalition, Geological Survey of Finland, March, 1999.

Central Great Lakes Geologic Mapping Coalition, Federal Advisory Committee to USGS Mapping Program, September, 1999

“Depositional and Erosional Stratigraphy in the Appalachians of Quebec and New England—50 years of Evolution,” New England Intercollegiate Geologic Conference Special Symposium, October 1999, Burlington, Vermont

“Models of Esker Genesis,” lecture at University of Minnesota, October 1999, St. Paul, Minnesota

“State-of-the-Survey Address,” Illinois State Geological Survey Awards Ceremony, October 21, 1999, Champaign, Illinois

“Geophysics and 3-D Geology of the Surficial Environment,” Annual Meeting of the Geological Society of America, October 24-28, 1999, Denver, Colorado

“Central Great Lakes Geologic Mapping Coalition—A Model of Federal/State Government Cooperation for the 21<sup>st</sup> Century,” Association of Engineering Geologists Annual Meeting, March 21, 2000, Chicago, Illinois

“Central Great Lakes Geologic Mapping Coalition,” Illinois Groundwater Association Spring Meeting, April 20, 2000, Argonne, Illinois

“Sustainable Growth in the Great Lakes States,” 5th Annual *Science for Safer and Healthier Communities* briefing for Members of Congress, The American Geophysical Union, June 15, 2000, Washington, D.C.

“Depositional and Erosional Stratigraphy in the Appalachians of Quebec and New England—50 Years of Evolution,” Association Quebecoise pour l’Etude du Quaternaire Congress, August 23, 2000, Montreal, Quebec, Canada

“Central Great Lakes Geologic Mapping Coalition,” American Institute for Professional Geologists National Meeting, October 11, 2000, Milwaukee, Wisconsin

“Change and Teamwork,” State-of-the-Survey Address and Awards Ceremony, December 19, 2000, Champaign, Illinois

“Quaternary Record in the Quebec Appalachians Lacks Older Glacial Events Recorded in Quaternary Stratigraphy of the Midwest,” North-Central Section Geological Society of America 35th Annual Meeting, April 23-24, 2001, Normal, Illinois

“Geological History of the Illinois River Watershed,” 2001 Governor’s Conference on the

- Management of the Illinois River System, October 2-4, 2001, Peoria, Illinois
- “Energy and the Environment,” 2001 Governor’s Conference on Energy and the Illinois Environment, November 8, 2001, Springfield, Illinois
- “State-of-the-Survey Address,” Illinois State Geological Survey Awards Ceremony, November 30, 2001, Champaign, Illinois
- “Central Great Lakes Geologic Mapping Coalition,” Seminar at Miami University, October 2, 2002, Oxford, Ohio
- “State-of-the-Survey Address,” Illinois State Geological Survey Awards Ceremony, December 6, 2002, Champaign, Illinois
- “State-of-the-Survey Address,” Illinois State Geological Survey Awards Ceremony, December 5, 2003, Champaign, Illinois
- “State-of-the-Survey Address,” Illinois State Geological Survey Awards Ceremony, December 10, 2004, Champaign, Illinois
- “State-of-the-Survey Address,” Illinois State Geological Survey Awards Ceremony, December 2, 2005, Champaign, Illinois
- “State-of-the-Survey Address,” Illinois State Geological Survey Awards Ceremony, December 8, 2006, Champaign, Illinois
- “State-of-the-Survey Address,” Illinois State Geological Survey Awards Ceremony, December 7, 2007, Champaign, Illinois
- “State-of-the-Survey Address,” Illinois State Geological Survey Awards Ceremony, December 5, 2008, Champaign, Illinois
- “Critical Issues for the Arctic,” Grinnell College, April 2, 2008, Grinnell, Iowa.
- “Geological Carbon Sequestration in the Illinois Basin: The Science, the Archer Daniels Midland Project and FutureGen,” Osher Lifelong Learning Institute, July 9, 2008. Champaign, Illinois
- Research and Collection Center Brownbag Lecture, Illinois State Museum, September 10, 2008, Springfield, Illinois
- “Geological Carbon Sequestration in the Illinois Basin: The Science, The Archer Daniels Midland Project and FutureGen,” Environmental Challenges and Responses Lecture, Grinnell College, October 10, 2008, Grinnell, Iowa
- “A Glacial Geologist’s View of Global Warming,” Lawrenceville Prep Academy, May 4, 2009, Lawrenceville, New Jersey
- “Methane in Lake Sediments: Could out-gassing from millions of Canadian Lakes be an overlooked factor in climate modeling?” Biocomplexity Theme Seminar, Institute for Genomic Biology, University of Illinois, Urbana-Champaign, November 4, 2009, Champaign, Illinois
- “A Glacial Geologist’s View of Global Warming,” Western Reserve Academy, February 19, 2010, Hudson, Ohio
- “Geochemistry in Glacial Landscapes,” Geology Spring Colloquium Talk, Department of Geology, University of Illinois, Urbana-Champaign, April 9, 2010, Champaign, Illinois
- “A Glacial Geologist’s View of Global Warming,” Lawrenceville Prep Academy, April 12, 2010, Lawrenceville, New Jersey
- “IRSL-Dated Glaciolacustrine Laurentide Ice Marginal Positions in the Canadian Southeastern Appalachians and the Estimation of Regional Ice Volume at the OIS3/OIS4 Transition,” 2010 Geological Society of America Annual Meeting, October 31, 2010, Denver, Colorado

- “Application of LiDAR Data to Mapping Glacial Landform/Sediment Associations, Champaign County, Illinois,” 2010 Geological Society of America Annual Meeting, October 31, 2010, Denver, Colorado
- “3D Modeling of the Quaternary Stratigraphic Sequence of the Southeastern Appalachians of Canada,” 2010 Geological Society of America Annual Meeting, November 1, 2010, Denver, Colorado
- “Striation Record of Multiple Glacial Flow Directions in the Southern Quebec Appalachians,” 2011 GAC-MAC Annual Meeting, May 26, 2011, Ottawa, Canada
- “Geochemistry of Landscapes Covered by Glacially Crushed Debris,” 25<sup>th</sup> International Applied Geochemistry Symposium, August 25, 2011, Rovaniemi, Finland
- “Permafrost and Patterned Ground, Arctic Canada,” Prairie Lightning Symposium, November 17, 2012, Champaign, Illinois
- “Periglacial and Glacial Landscapes and Processes in Nunavut Territory, Canada,” Illinois State University Geology Department Colloquium, January 31, 2014, Bloomington, Illinois
- “Nunavut: Canada’s Frozen Territory,” Prairie Research Institute’s Anniversary Lecture Series, University of Illinois, Urbana-Champaign, April 30, 2014, Champaign, Illinois
- “50 years as a Survey Geologist: Targeted Research Projects with Unanticipated Societal Applications” 2014 Annual GSA Meeting, Society Distinguished Lecture, October 21, 2014, Vancouver, Canada

## **REPRESENTATIVE PUBLICATIONS**

- Adams, J., L. Dredge, C. Fenton, D.R. Grant, and W.W. Shilts, 1993, Late Quaternary faulting in the Rouge River valley, southern Ontario: Seismotectonic or glaciotectionic? Geological Survey of Canada, Open File 2652.
- Adams, J., L. Dredge, C. Fenton, D.R. Grant, and W.W. Shilts, 1993, Neotectonic faulting in metropolitan Toronto: Implications for earthquake hazard assessment in the Lake Ontario region: Comment. *Geology*, v. 21, p. 63.
- Altshuller, A.P., and G.A. McBean (co-chairmen), 1980, Second report of the United States–Canada Research Consultation Group on the Long Range Transport of Air Pollutants [released jointly by the Canadian Department of External affairs and U.S. Department of State]. (William W. Shilts contributed to Chapter 4 and drafted Figures 5 and 6.)
- Andrews, J.T., G.H. Miller, J.-S. Vincent, and W.W. Shilts, 1984, Quaternary correlations in arctic Canada. Geological Survey of Canada, Paper 84-10, p. 127-134.
- Andrews, J.T., G.H. Miller, J.-S. Vincent, and W.W. Shilts, 1986, Quaternary correlations in arctic Canada. *Quaternary Science Reviews*, v. 5, p. 243-249.
- Andrews, J.T., W.W. Shilts, and G.H. Miller, 1983, Multiple deglaciations of the Hudson Bay Lowlands, Canada, since deposition of the Missinaibi (Last-interglacial?) formation. *Quaternary Research*, v. 19, p. 18-37.
- Andrews, J.T., W.W. Shilts, and G.H. Miller, 1984, Reply to A.S. Dyke’s discussion. *Quaternary Research*, v. 22, p. 253-258.
- Arsenault, L., J.M. Aylsworth, C.M. Cunningham, I.M. Kettles, and W.W. Shilts, 1981, Surficial geology, Eskimo Point, District of Keewatin. Geological Survey of Canada, Map 8-1980, 1 sheet, 1:125,000 scale.
- Arsenault, L., J.M. Aylsworth, I.M. Kettles, and W.W. Shilts, 1981, Surficial geology, Dawson Inlet, District of Keewatin. Geological Survey of Canada, Map 9-1979, 1 sheet, 1:125,000 scale.

- Arsenault, L., J.M. Aylsworth, I.M. Kettles, and W.W. Shilts, 1981, Surficial Geology, Kaminak Lake, District of Keewatin. Geological Survey of Canada, Map 7-1979, 1 sheet, 1:125,000 scale.
- Aylsworth, J.M., A.N. Boydell, C.M. Cunningham, and W.W. Shilts, 1981, Surficial geology, MacQuoid Lake, District of Keewatin. Geological Survey of Canada, Map 11-1980, 1 sheet, 1:125,000 scale.
- Aylsworth, J.M., A.N. Boydell, and W.W. Shilts, 1981, Surficial geology, Marble Island, District of Keewatin. Geological Survey of Canada, Map 10-1980, 1 sheet, 1:125,000 scale.
- Aylsworth, J.M., A.N. Boydell, and W.W. Shilts, 1981, Surficial geology, Tavani, District of Keewatin. Geological Survey of Canada, Map 9-1980, 1 sheet, 1:125,000 scale.
- Aylsworth, J.M., A.N. Boydell, and W.W. Shilts, 1986, Surficial geology, Chesterfield Inlet, District of Keewatin, Northwest Territories. Geological Survey of Canada, Map 1-1985, 1 sheet, 1:125,000 scale.
- Aylsworth, J.M., A.N. Boydell, and W.W. Shilts, 1986, Surficial geology, Gibson Lake, District of Keewatin, Northwest Territories. Geological Survey of Canada, Map 1-1984, 1 sheet, 1:125,000 scale.
- Aylsworth, J.M., C.M. Cunningham, I.M. Kettles, and W.W. Shilts, 1986, Surficial geology, Henik Lakes, District of Keewatin, Northwest Territories. Geological Survey of Canada, Map 2-1985, 1 sheet, 1:125,000 scale.
- Aylsworth, J.M., C.M. Cunningham, and W.W. Shilts, 1981, Surficial geology, Ferguson Lake, District of Keewatin. Geological Survey of Canada, Map 2-1979, 1 sheet, 1:125,000 scale.
- Aylsworth, J.M., C.M. Cunningham, and W.W. Shilts, 1981, Surficial geology, Hyde Lake, District of Keewatin. Geological Survey of Canada, Map 8-1979, 1 sheet, 1:125,000 scale.
- Aylsworth, J.M., C.M. Cunningham, and W.W. Shilts, 1985, Surficial geology, Baker Lake, District of Keewatin, Northwest Territories. Geological Survey of Canada, Map 3-1985, 1 sheet, 1:125,000 scale.
- Aylsworth, J.M., C.M. Cunningham, and W.W. Shilts, 1990, Surficial Geology, Edehon Lake, District of Keewatin, Northwest Territories. Geological Survey of Canada, Map 10-1990, 1 sheet, 1:125,000 scale.
- Aylsworth, J.M., C.M. Cunningham, and W.W. Shilts, 1990, Surficial Geology, Schultz Lake, District of Keewatin, Northwest Territories. Geological Survey of Canada, Map 43-1989, 1 sheet, 1:125,000 scale.
- Aylsworth, J.M., C.M. Cunningham, and W.W. Shilts, 1989, Surficial geology, Thirty Mile Lake, District of Keewatin, Northwest Territories. Geological Survey of Canada, Map 39-1989, 1 sheet, 1:125,000 scale.
- Aylsworth, J.M., and W.W. Shilts, 1985, Glacial features of the west-central Canadian Shield. Geological Survey of Canada, Paper 85-1B, p. 375-381.
- Aylsworth, J.M., and W.W. Shilts, 1987, Surficial Geology, Coats Island, District of Keewatin, Northwest Territories. Geological Survey of Canada, Map 1633A, 1 sheet, 1:125,000 scale.
- Aylsworth, J.M., and W.W. Shilts, 1987, Surficial Geology, Mansel Island, District of Keewatin, Northwest Territories. Geological Survey of Canada, Map 1632A, 1 sheet, 1:125,000 scale.

- Aylsworth, J.M., and W.W. Shilts, 1989, Bedforms of the Keewatin Ice Sheet, Canada. *Sedimentary Geology*, v. 62, p. 407-428.
- Aylsworth, J.M., and W.W. Shilts, 1989, Glacial features around the Keewatin Ice Divide, Districts of Mackenzie and Keewatin. Geological Survey of Canada, Paper 88-24.
- Aylsworth, J.M., and W.W. Shilts, 1989, Glacial features around the Keewatin Ice Divide, Districts of Mackenzie and Keewatin, Northwest Territories. Geological Survey of Canada, Map 24-1987, 2 sheets, 1:1,000,000 scale.
- Aylsworth, J.M., and W.W. Shilts, 1991, Surficial geology of Coats and Mansel Islands, Northwest Territories. Geological Survey of Canada, Paper 89-23.
- Aylsworth, J.M., W.W. Shilts, H.A.J. Russell, and D.M. Pyne, 2012, Eskers around the Keewatin Ice Divide: Northwest Territories and Nunavut. Geological Survey of Canada, Open File 7047.
- Balescu, S., M. Lamothe, M. Auclair, and W.W. Shilts, 2001, IRSL dating of Middle Pleistocene interglacial sediments from southern Quebec (Canada) using multiple and single grain aliquots. *Quaternary Science Reviews*, v. 20, p. 821-824.
- Blais, A., and W.W. Shilts, 1989, Surficial geology of Saint-Joseph-de-Beauce map area, Chaudière valley, Quebec. Geological Survey of Canada, Paper 89-1B, p. 137-142.
- Blais, A., and W.W. Shilts, 1992, Surficial geology of the St-Joseph area – Quebec; Surficial geology of the Beauceville area – Quebec. Geological Survey of Canada, Open File 2537, 2 sheets, 1:50,000 scale.
- Blais, A., and W.W. Shilts, 1992, Surficial geology of the Ste-Justine area – Quebec; Surficial geology of the St-Zacharie area – Quebec. Geological Survey of Canada, Open File 2536, 2 sheets, 1:50,000 scale.
- Boyle, R.W., P.M.D. Bradshaw, D.R. Clews, J.A.C. Fortescue, C.F. Gleeson, E.H.W. Hornbrook, W. Shilts, M. Tauchid, and W. Wolfe, 1975, The Canadian Shield; in P.M.D. Bradshaw, ed., *Conceptual models in exploration geochemistry: The Canadian Cordillera and Canadian Shield*. *Journal of Geochemical Exploration*, v. 4, no. 1, p. 109-199.
- Brown, R.J.E., G.H. Johnston, J.R. Mackay, N.R. Morgenstern, and W.W. Shilts, 1981, Permafrost distribution and terrain characteristics; in G.H. Johnston, ed., *Permafrost: Engineering design and construction*, John Wiley & Sons, Toronto, p. 31-72.
- Caron, O., M. Lamothe, and W.W. Shilts, 2010, 3D modelling of the Quaternary stratigraphic sequence of the southeastern Appalachians of Canada; paper 108-14, Geological Society of America Annual Meeting. Geological Society of America, Abstracts with Programs, v. 42, no. 5, p. 276.
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