

THOMAS V. LOWELL

Curriculum Vitae

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Education:

Ph.D., Geology, State University of New York at Buffalo, 1987
M.S., Geology, University of Maine at Orono, 1980
B.S., Geology, Rensselaer Polytechnic Institute, 1976

Professional Experience:

Professor, 2000 to present, Department of Geology, University of Cincinnati.

Associate Professor, 1992 to 2000, Department of Geology, University of Cincinnati.

Assistant Professor, 1986 to 1992, Department of Geology, University of Cincinnati.

Field Party Leader, 1978-1994 Maine, for the Maine Geological Survey; 1986-2002 Ohio; 1989, 1991, 1994, 1997, 1999 Iceland; 1993, 1996, 1997, 2001, 2002 Alaska; 1991-1998 Chile and 1996-2002 New Zealand for the University of Cincinnati.

Field Geologist, 1978-1979, 1985-1986 Antarctica, with Dr. George H. Denton, University of Maine, 1980, 1990 Alaska, with Dr. Parker E. Calkin, State University of New York at Buffalo

Instructor, 1984 Environmental Geology, Husson College; 1984; Glacial Geology, Department of Geological Sciences, University of Maine at Orono.

Research Associate, 1978-1980, 1985-1986 Antarctica Project, Institute for Quaternary Studies, University of Maine at Orono; 1980 Greenland Ice Sheet Project, Ice Core Laboratory, State University of New York at Buffalo.

Teaching Assistant, 1979 Geology for Foresters Laboratory; 1980 Geology for Engineers Laboratory, Department of Geological Sciences, University of Maine at Orono; 1981, 1982 Geomorphology Laboratory, 1983 Field Methods Laboratory, Department of Geological Sciences, State University of New York at Buffalo.

Regional Compiler, 1980-1983 for the first Maine State Surficial Map, Maine Geological Survey.

Membership in Professional Societies:

International Glaciological Society
American Quaternary Association
Geological Society of America

Sigma Xi
American Geophysical Union
Geological Society of Maine

Research Support:

Reviewed Grants

- 2000 Surficial mapping of the New Moorfield and South Vienna Quadrangles, United States Geological Survey, [\$9,000]
- 1999 Surficial mapping of the Bellefontaine and DeGraff Quadrangles, United States Geological Survey, [\$3,500]
- 1998: Surficial and subsurface mapping Shandon and Harrison 7.5-minute quadrangles, Hamilton and Butler Counties, Ohio, United States Geological Survey, [\$6,500]
- 1997: Surficial geologic maps of the Waynesville and New Burlington 7.5-minute quadrangles, southwestern Ohio, U.S. Geological Survey, [\$12,000]
- 1997: Bucher Award for field studies on tidewater glaciers in Alaska, Department of Geology, University of Cincinnati, (\$1500).
- 1995: Subglacial deformed sediments: A geological field test, National Geographic Society, (\$12,830).
- 1992: Enhanced radiocarbon chronology from Ohio: A Northern Hemisphere glacial geologic test of alternate glacial climate hypothesis, (NSF, \$149,997, funded for 3 years)
- 1989: Developing estimates of iceberg calving to test one cause of climatic change, Summer Faculty Research Fellowship, University of Cincinnati, (\$3,500).
- 1988: Bucher Award for field studies in Iceland, Department of Geology, University of Cincinnati, (\$1500).
- 1987: Establishment of a Quaternary data base for Southern Ohio. University Research Council, University of Cincinnati, (\$4,500).
- 1987: A three-dimensional mapping technique to provide baseline data for landslide hazard assessment. University Program Advisory Committee, University of Cincinnati, (\$10,197).

Contracts

- 1998: Hydrological Investigations of the Shaker Creek Aquifer, from local governments in Warren County, (\$19,260).
- 1993: Regional compilation, northeastern Maine, Maine Geological Survey.
- 1992: Detailed surficial field mapping, Newbery Cove area Maine, Maine Geological Survey.
- 1990: Gravel Aquifer Mapping, Dover-Foxcroft area, Maine, Maine Geological Survey.
- 1990: Geologic component of archaeological project: Topsham, Maine, Town of Topsham.
- 1990: A Comparison of Outcrop vs. Core Stratigraphy at Doty's Highbank, Cooperative Drilling Program, Ohio Department of Natural Resources, (\$12,579, funded on in-kind basis).
- 1989: Geologic component of archaeological project: Topsham, Maine, Maine State Museum.
- 1989: Detailed surficial field mapping: Seal Harbor area Maine, Maine Geological Survey.
- 1988: Geologic component of archaeological project: Topsham, Maine, Maine State Museum.
- 1988: Detailed surficial field mapping: Southwest Harbor and Bass Harbor areas Maine, Maine Geological Survey.
- 1987: Detailed surficial field mapping: Southwest Harbor area Maine, Maine Geological Survey.
- 1986: Geologic component of archaeological project: Milford Maine, Institute for Quaternary Studies.
- 1985: Detailed surficial field mapping: Houlton-Bridgewater area northeastern Maine, Maine Geological Survey.
- 1984: Reconnaissance surficial field mapping: Churchill Lake area, northern Maine, Maine Geological Survey.
- 1984: Geologic component of archaeological project: Merrymeeting Bay, Maine, Maine Historic Preservation Commission.
- 1983: Reconnaissance surficial field mapping: Seboomook Lake area, northwestern Maine, Maine Geological Survey.

- 1982: Reconnaissance surficial field mapping: Clayton Lake area, northern Maine, Maine Geological Survey.
- 1981: Reconnaissance surficial field mapping: St. John River area, northern Maine, Maine Geological Survey.
- 1980: Gravel aquifer mapping; Lincoln, Maine area. Maine Geological Survey.
- 1979: Reconnaissance surficial field mapping; mineral resource evaluation of the Dickey-Lincoln School Lakes project, New England Division, U.S. Army Corps of Engineers.
- 1978: Detailed surficial mapping: Mount Desert Island, Maine; Maine Geological Survey.

Publications in Refereed Sources:

- Moreno, P.I., Jacobson, G.L., Jr., Lowell, T.V., Denton, G.H., 2001, Interhemispheric climate links revealed by a late-glacial cooling episode in southern Chile, *Nature*, v. 409, p. 804-808.
- Lowell, T.V., 2000, As Climate Changes so do Glaciers, Perspective article, *National Academy of Science Proceedings*, v. 97, p. 1351-1354.
- Heusser, C.J., Lowell, T.V., Heusser, L.E., Moreira, A., and Moreira, S., 2000, Pollen sequence from the Chilean Lake District during Llanquihue glaciation in marine oxygen isotope stages 4-2, *Journal of Quaternary Science*, v. 15, p. 115-125.
- Heusser, C.J., Heusser, L.E., Lowell, T.V., Moreira, A., and Moreira, S., 2000, Deglacial paleoclimate at Puerto del Hambre, subantarctic Patagonia, Chile, *Journal of Quaternary Science*, v. 15, p. 101-114.
- Lowell, T.V., Hayward, R.K., and Denton, G.H., 1999, The role of climate oscillations in determining ice margin position: hypothesis, examples, and implications. In Mickelson, D.M and Atig, J.W. eds. *Glacier Processes Past and Present*, Geological Society of America Special Paper 337, p. 193-203.
- Lowell, T.V., Larson, G.J., Hughes, J.D., and Denton, G.H., 1999, Age verification of the Lake Gribben forest bed and the Younger Dryas advance of the Laurentide Ice Sheet. *Canadian Journal of Earth Science*, v. 36, 383-393.
- Schlüchter, C., Gander, P., Lowell, T.V., and Denton, G.H., 1999 Glacially folded outwash west of Lago Llanquihue in the southern Lake District of Chile, *Geografiska Annaler*, 81A, p. 347-358.
- Turbek, S.E. and Lowell, T.V., 1999, Glacial deposition along an ice-contact slope: an example from the southern Lake District, Chile, *Geografiska Annaler*, 81A, p. 325-346.
- Moreno, P.I., Lowell, T.V. Jacobson, G.L., and Denton, G.H., 1999, Abrupt vegetation and climate changes during the last glacial maximum and last termination in the Chilean Lake District: A case study from Canal de la Puntilla (41°S), *Geografiska Annaler*, 81A, p. 285-312.
- Heusser, C.J., Heusser, L.E., and Lowell T.V., 1999, Paleoecology of the southern Chilean Lake District - Isla Grande de Chiloé during middle-late Llanquihue glaciation and deglaciation, *Geografiska Annaler*, 81A, p. 231-284.
- Denton, G.H., Lowell, T.V., Heusser, C.J., Schlüchter, C., Anderson, B.G., Heusser, L.E., Moreno, P. I., and Marchant, D.R., 1999, Geomorphology, stratigraphy, and radiocarbon chronology of the Llanquihue drift in the area of the southern lake district, Seno Reloncaví, and Isla Grande de Chiloé, Chile, *Geografiska Annaler*, 81A, p. 167-230.

- Anderson, B.G., Denton, G.H., and Lowell, T.V., 1999, Glacial geomorphologic maps of Llanquihue drift in the area of the southern Lake District, Chile, *Geografiska Annaler*, 81A, p. 155-166.
- Denton, G.H., Heusser, C.J., Lowell, T.V., Moreno, P.I., Anderson, B.G., Heusser, L.E., Schlüchter, C., and Marchant, D.R., 1999, Interhemispheric linkage of paleoclimate during the last glaciation, *Geografiska Annaler*, 81A, p. 107-154.
- Heusser, C.J., Lowell, T.V., Heusser, L.E., Hauser, A., Andersen, B.G. and Denton, G.H. 1998. Vegetation dynamics and paleoclimate during late Llanquihue glaciation in Southern Chile. *Bamberger Geographische Schriften*. v. 15, p. 211-226.
- Hayward, R.K., Shebasta, D.Y. and Lowell, T.V., 1997 Computerized Image Analysis of Outcrops, *Journal of Geoscience Education*, v. 45, p. 331-336.
- Johnson, W.H., Hansel, A.K., Bettis, A., Karrow, P.F., Larson, G.J., Lowell, T.V., Schneider, A.F., 1997, Late Quaternary temporal and event classifications, Great Lakes Region, North America, *Quaternary Research*, v. 47, p. 1-12
- Heusser, C.J., Denton, G.H., Hauser, A., Andersen, B.G., and Lowell, T.V. 1996, Water fern (*Azolla filiculoides* Lam.) in Southern Chile as an index of paleoenvironment during early deglaciation, *Arctic and Alpine Research*, v. 28, p. 148-155.
- Heusser, C.J., Lowell, T.V., Heusser, L.E., Hauser, A., Andersen, B.G. and Denton, G.H. 1996. Full-glacial - late-glacial paleoclimate of the Southern Andes: evidence from pollen, beetle, and glacial records. *Journal of Quaternary Science*, v. 11, p. 173-184.
- Lowell, T.V., Heusser, C.J., Anderson, B.G., Moreno, P.I., Hauser, A., Huesser, L.E., Schlüchter, C., Marchant, D.R., and Denton, G.H., 1995, Interhemispheric correlation of late Pleistocene glacial events, *Science*, v. 269, p. 1541-1549.
- Anderson, B.G., Denton, G.H., Heusser, C.J., Lowell, T.V., Moreno, P.I., Hauser, A., Huesser, L.E., Schlüchter, C., and Marchant, D.R., 1995, Climate, vegetation and glacier fluctuations in Chile, between 40°20' and 42°30' S latitude - A short review of preliminary results, *Quaternary International*, v. 28, p. 199-201.
- Heusser, C.J., Denton, G.H., Hauser, A., Anderson, B.G., and Lowell, T.V., 1995, Quaternary pollen record from the Archipelago de Chiloé in the context of glaciation and climate, *Revista Geológica de Chile*, v. 22, p. 25-46.
- Lowell, T.V., 1995, The application of radiocarbon age estimates to the dating of glacial sequences: An example from the Miami sublobe, Ohio, *Quaternary Science Reviews*, v. 14, p. 85-99.
- Lowell, T.V., and Teller, J.T., 1994, Radiocarbon vs. Calendar ages of major lateglacial hydrological events in North America, *Quaternary Science Reviews*, v. 13, p. 801-803.
- Larson, G.J., Lowell, T.V., and Ostrum, N.E., 1994, Evidence for the Two Creeks Interstade in the Lake Huron Basin: *Canadian Journal of Earth Science*, v. 31, p. 793-797.
- Ekberg, M.P., Lowell, T.V., and Stuckenrath, R., 1993, Late Wisconsin glacial advance and retreat patterns in southwestern Ohio, U.S.A., *Boreas*, v. 22, p. 289-304.

- Hayward, R.K. and Lowell, T.V. 1993, Variations in loess accumulation rates in the Mid-continent, United States, as reflected by magnetic susceptibility; *Geology*, v. 21, p. 821-824.
- Savage, K., and Lowell, T.V., 1992, Dynamics of the Marginal Late Wisconsin Miami Sublobe, Cincinnati, Ohio, *Ohio Journal of Science*, v. 92, p. 107-118.
- Snow, R.S., Lowell, T.V., and Rupp, R.F., 1991, A Field Guide: The Kelleys Island Glacial Grooves, Subglacial Erosion Features on the Marblehead Peninsula, Carbonate Petrology, and Associated Paleontology, *Ohio Journal of Science*, v. 91, p 16-26.
- Lowell, T.V., 1991, Late Wisconsin iceberg calving rates and ice sheet mass balance reconstructed from paleo sea levels, Mount Desert Island, Maine, *Geology*, v. 19, p. 155-158.
- Lowell, T.V., Savage, K.M., Brockman, C.S., and Stuckenrath, R., 1990, Radiocarbon analyses from Cincinnati, Ohio and their implications for glacial stratigraphic interpretations, *Quaternary Research*, v. 34, p. 1-11.
- Lowell, T.V., and Stuckenrath, R., 1990 Advance and retreat patterns in the Miami Lobe of the Laurentide Ice Sheet, *Annals of Glaciology*, v. 14, p. 172-175.
- Lowell, T.V., Kite, J.S., Halter, E.F., and Calkin, P.C., 1990, Analysis of small scale erosional data and a sequence of late Pleistocene flow reversal, northern New England, *Geological Society of America Bulletin*. v. 102, p. 74-85.
- Lowell, T.V., 1989, Late Wisconsin glacial geology of the eastern portion of Mount Desert Island, in Tucker, R.D., and Marvinney, R.G. eds. *Studies in Maine Geology*, Volume 6, Quaternary Geology: Maine Geological Survey, p. 103-118.
- Prentice, M.L., Denton, G.H., Lowell, T.V., Conway, H.C., and Heusser, L.E., 1988, Pre-late Quaternary glaciation of the Beardmore Glacier region, Antarctica: *Antarctic Journal of the United States*, 1986 Review, v. 21. p. 95-98.
- Lowell, T.V., and Calkin, P.E., 1987, Development, dynamics and dissipation of a late Wisconsin ice mass over northern New England; in Waddington, E.D. and Walder, J.S. eds. *The physical basis of ice sheet modeling*: IHAS publication no. 170, p. 367-375.
- Lowell, T.V., Becker, D.A., and Calkin, P.E., 1986, Quaternary stratigraphy in northwestern Maine: a progress report: *Géographie Physique et Quaternaire*, v. 40, p. 71-84.
- Lowell, T.V., and Kite, J.S., 1986, Deglaciation of northwestern Maine, in Kite, J.S. and others eds., *Contributions to Quaternary geology of northern Maine and adjacent Canada*: Maine Geological Survey Bulletin 37, p. 75-85.
- Lowell, T.V., and Kite, J.S., 1986, Glaciation style of northwestern Maine, in Kite, J.S. and others eds., *Contributions to the Quaternary geology of northern Maine and adjacent Canada*: Maine Geological Survey Bulletin 37, p. 53-68.
- Kite, J.S., Lowell, T.V., and Thompson, W B., 1986, Contributions to the Quaternary geology of northern Maine and adjacent Canada: *Maine Geological Survey Bulletin 37*, 141 p.
- Lowell, T.V., 1985, Late Wisconsin ice-flow reversal and deglaciation, northwestern Maine, in Borns, H.W., Jr., and others, eds., Late Pleistocene History of Northeastern New England and Adjacent Quebec: *Geological Society of America Special Paper 197*, p. 71-83.

Hughes, T.J., Borns, H.W., Jr., Fastook, J.L., Hyland, M.R., Kite, J.S., and Lowell, T.V., 1985, Models of glacial reconstruction and deglaciation applied to Maritime Canada and New England in Borns, H.W., Jr., and others, eds., Late Pleistocene History of Northeastern New England and Adjacent Quebec: *Geological Society of America Special Paper 197*, p. 139-150.

Kite, J.S. and Lowell, T.V., 1984, Late-glacial and early Holocene drainage basins in northern Maine: *Current Research*, v. 1, p. 91-93.

Lowell, T.V., Kite, J.S., Becker, D.A., and Borns, H.W., Jr., 1983, Comment on: Late Wisconsin glaciation models of northern Maine and adjacent Canada: *Quaternary Research*, v. 19, p. 136-137.

Kite, J.S., Lowell, T.V., and Nicholas, G.P., 1982, Quaternary studies in the St. John River Basin: Maine and New Brunswick: *Guidebook for the 1982 NBQUA field trip*, J. Thibault ed., 54 p.

Book:

Gilman, R., Chapman, C.A., Lowell, T.V., and Borns, H.W., Jr., 1989, The geology of Mount Desert Island: A visitor's guide to the geology of Acadia National Park: Maine Geological Survey, Bulletin 38, 50 p.

Geological Maps:

Lowell, T.V., 1996, Surficial Geology of the Southwest Harbor Quadrangle Maine, Maine Geological Survey, Open File Map 96-5.

Lowell, T.V., 1987, Surficial Geology of the Campbellton, 1°x2° Quadrangle: Maine Geological Survey, Open File Map 87-18.

Lowell, T.V., 1987, Surficial Geology of the Woodstock, 1°x2° Quadrangle: Maine Geological Survey, Open File Map 87-17.

Lowell, T.V., 1987, Surficial Geology of the Presque Isle, 1°x2° Quadrangle: Maine Geological Survey, Open File Map 87-15.

Lowell, T.V., 1987, Surficial Geology of the Quebec, 1°x2° Quadrangle: Maine Geological Survey, Open File Map 87-14.

Lowell, T.V., 1987, Surficial Geology of the Fredericton, 1°x2° Quadrangle: Maine Geological Survey, Open File Map 87-13.

Hanson, L.S., Caldwell, D.W., and Lowell, T.V., 1987, Surficial Geology of the Millinocket, 1°x2° Quadrangle: Maine Geological Survey, Open File Map 87-12.

Thompson, W.B., and Lowell, T.V., 1987, Surficial Geology of the Sherbrooke, 1°x2° Quadrangle: Maine Geological Survey, Open File Map 87-11.

Thompson, W.B., and Lowell, T.V., 1987, Surficial Geology of the Eastport, 1°x2° Quadrangle: Maine Geological Survey, Open File Map 87-10.

- Lowell, T.V., 1986, Surficial Geology of the Round Pond Quadrangle: Maine Geological Survey, Open File Map 86-47.
- Lowell, T.V., 1986, Surficial Geology of the Rocky Mountain Quadrangle: Maine Geological Survey, Open File Map 86-46.
- Lowell, T.V., 1986, Surficial Geology of the Rocky Brook Quadrangle: Maine Geological Survey, Open File Map 86-45.
- Lowell, T.V., 1986, Surficial Geology of the Little East Lake Quadrangle: Maine Geological Survey, Open File Map 86-44.
- Lowell, T.V., 1986, Surficial Geology of the Depot Lake Quadrangle: Maine Geological Survey, Open File Map 86-43.
- Lowell, T.V., 1986, Surficial Geology of the Allagash Falls Quadrangle: Maine Geological Survey, Open File Map 86-42.
- Lowell, T.V., 1986, Surficial Geology of the Allagash Quadrangle: Maine Geological Survey, Open File Map 86-40.
- Lowell, T.V., and Borns, H.W., Jr., 1985, Surficial Geology of Acadia National Park and environs: Maine Geological Survey, Open File Map 85-81.
- Caldwell, D.W., Hanson, L.S., and Lowell, T.V., 1982, Surficial Geology of the Schoodic Quadrangle: Maine Geological Survey, Open File Map 82-6.
- Caldwell, D.W., Hanson, L.S., and Lowell, T.V., 1982, Surficial Geology of the Norcross Quadrangle: Maine Geological Survey, Open File Map 82-1.
- Lowell, T.V., and Newman, W.A., 1981, Surficial Geology of the Millinocket Quadrangle: Maine Geological Survey, Open File Map 81-34.
- Lowell, T.V., 1980, Surficial Geology of the Lincoln Quadrangle: Maine Geological Survey, Open File Map 80-12.

Reports, Open File Reports and Other Publications:

- Lowell, T.V., 2002, Geological assessment of Wetland A at proposed Akron Regional Landfill, Akron, Ohio, Appendix to Ohio EPA permit application, Civil & Environmental Consultants, 13 p. 6 maps.
- Lowell, T.V., 2000, Geological investigation Clarkco Landfill, Supplemental investigation in support of hydrogeological report, Ohio EAP Permit to Operate Application, 69 p, 3 Appendix.
- Lowell, T.V., 1996, Modern Glacial Environments: Processes, Dynamics and Sediments, by John Menzies, Book Review for GSA Today, May 1996, p. 25.
- Weddle, T. K., Lowell, T. V., and Dorion, C. C., 1994, Glacial geology of the Penobscot River basin between Millinocket and Medway, in Hanson, L. S. (ed.), New England Intercollegiate Geological Conference guidebook for field trips in north-central Maine, p. 193-212.

- Lowell, T.V., and Brockman, C.S., 1993, Quaternary sediment sequences in the Miami lobe and environs, Guidebook for the 41st Annual meeting, Midwest Friends of the Pleistocene, University of Cincinnati, and 68 p.
- Lowell, T.V., 1991, Deglaciation of Mount Desert Island, Maine: Observations and Glaciological Implications, Field trip A-1, New England Intercollegiate Geologic Conference, p. 80-113.
- Lowell, T.V., 1990 Subsurface investigations of the Rosie Site (15.231), Topsham Maine, Draft report to Maine State Museum, 27 p.
- Lowell, T.V., 1989, Surficial geology of the Southwest Harbor, Maine 7.5' Quadrangle, Report to the Maine Geological Survey, 15 p.
- Lowell, T.V., 1989, Geology of the Rosie (15.231) and Mugford (15.233) sites, Topsham, Maine, Report to the Maine State Museum, 15 p.
- Lowell, T.V., 1988, Geomorphic development around the Cary's Garden Site, Topsham, Maine, Report to the Maine State Museum, 31 p.
- Lowell, T.V., 1988, Studying the glacial record in southern Ohio: Cincinnati Museum of Natural History, Quarterly, v. 21, p. 7-10.
- Lowell, T.V. and Haneberg, W.C., 1988, A three-dimensional mapping technique to provide base line data for landslide hazard assessment, University Program Advisory Committee, 80 p.
- Johnson, A., Lowell, T.V., and Nash, D.B., 1987, Report and recommendations on maintenance and repair of deteriorating retaining walls and streets damaged by landslides, City of Cincinnati. Small Infrastructure Commission, 50 p.
- Sanger, D., Pedrul, S., and Lowell, T.V., 1986, Archaeology of the Collins Bridge Site: Maine Archaeological Society Bulletin, v. 26, no. 2, and p. 5-19.
- Lowell, T.V. and Kite, J.S., 1986, Ice flow and deglaciation northwestern Maine: 49th Friends of the Pleistocene Guidebook, Maine Geological Survey, Open File Report 86-18, 41 p.
- Lowell, T.V. and Borns, H.W., Jr., 1986, Quaternary Features of Mount Desert Island: Geological Society of Maine, Field Trip Guide, 6 p.
- Lowell, T.V., 1984, Nature and origin of terraced landforms in the vicinity of Merrymeeting Bay, Maine: Hypothesis development: Maine Historic Preservation Commission, unpublished report, 70 p.
- Lowell, T.V., and Crossen, K.J., 1983, The Seboomook Lake area became ice free, but how? Field trip C-4, New England Intercollegiate Geologic Conference, p. 147-174.
- Lowell, T.V., 1983, Excursion across the southern side of an ice cap: Field trip A-1, New England Intercollegiate Geologic Conference, p. 11-29.
- Roy, D.C. and Lowell, T.V., 1980, Bedrock and Surficial geology of the upper St. John River area northwestern Aroostook Maine: Guidebook for Field Trip 5, The Geological Society of Maine, 14 p.
- Lowell, T.V., 1980, Reconnaissance surficial geology northwest of the St. John River between Allagash, Maine and St. Pamphile, Quebec: Appendix D in Anderson, W. A., ed., Evaluation

of the mineral potential, upper St. John River valley, Aroostook County, Maine: Maine Geological Survey Open file report, 28 p.

Published Abstracts:

Wiles, G.C., Lowell, T.V., 2002, Preliminary tree ring analyses of last glacial maximum spruce (Picea) forests, southwestern Ohio, Geological Society of America Abstracts with Programs, v. 34, no 2, A-99.

Lowell, T.V., 2001, How important is the role of time in glacial sequences?, Geological Society of America Abstracts with Programs, v. 33, no 4, A-17.

Schoenenberger, K.R., and Lowell, T.V., 2001, Little Ice Age chronology for the Classen and Godley Glaciers, Mount Cook National Park, New Zealand, Geological Society of America Abstracts with Programs, v. 33, no 1, A-84.

Lowell, T.V., and Dorion, C.C., 2001, Absolute chronology of ice-flow events in northern New England: a working hypothesis and processes implications, Geological Society of America Abstracts with Programs, v. 33, no.1, A-15.

Markley, B., and Lowell, T.V., 2001, Tunnel valleys of the Miami and Scioto interlobate area, Bellefontaine Ohio: General implications, Geological Society of America Abstracts with Programs, v. 33, A-3.

Schoenenberger, K.R., and Lowell, T.V., 2000, Surficial and subsurface mapping of the Shandon and Harrison Quadrangles, Hamilton and Butler county, Ohio, Geological Society of America Abstracts with Programs, v. 32, p. A-59.

Lowell, T.V., 2000, Termination 1 and the Laurentide Ice Sheet: A song of Woe, Geological Society of America Abstracts with Programs, v. 32, p. A-24.

Bullard, R.G., Jr., and Lowell, T.V. 2000, Use of cosmogenic ¹⁰Be isotope accumulation to constrain slope evolution: A northern Kentucky test, Geological Society of America Abstracts with Programs, v. 32, p. A-6.

Larson, G.J., Lowell, T.V., Evenson, E.B., Lawson, D.E., Alley, R.B., Ketcham, R, Iverson, N.R., Hooyer, T. S., 1999, Thin section and X-Ray CT analyses of a deforming bed, Geological Society of America Abstracts with Programs, Denver.

Turbek, S.E., and Lowell, T.V., 1999, Toward a model of glacial interlobate regions: An example from the Waynesville area, southwest Ohio: Geological Society of America Abstracts with Programs, v. 31, p 77.

Schoenenberger, K., Pair, D.L., and Lowell, T.V., 1999, Web based investigations of Icelandic glacier foreplains for students in introductory earth science labs: Geological Society of America Abstracts with Programs, v. 31, p 70.

Lowell, T.V., and Pair, D.L., 1999, Is your map area wet, dry, or gnawed? Geological Society of America Abstracts with Programs, v. 31. p. 32.

Lowell, T.V., 1998, Chronology of the Great Lakes Lobes of the Laurentide Ice Sheet during Stages 2 and 2 and implications for ice sheet behavior. Geological Society of America Abstracts with Programs, v. 30, p 51.

- Maenza-Gmelch, T., Heusser, L., Lowell, T.V., Full-glacial and late-glacial paleoecology of southwestern Ohio, USA., American Quaternary Association Program and Abstracts of the 15th Biennial meeting, Puerto Vallarta, Mexico, 5-7 Sept. 1998, p. 184.
- Heusser, C.J., Heusser, L.E., and Lowell, T.V., 1998, Terrestrial Paleotemperature estimates for 10,000 to >50,000 14C yr BP from the southern Andes, Chile, Clark, P.U., and Webb, R.S., conveners, AGU Chapman Conference on Mechanisms of Millennial-scale global climate change, program, p. 19.
- Lowell, T.V., Larson, G., Dubois, M, and Denton, G.H., 1997, The role of rapid climate oscillations in determining ice margin position: examples from Ohio and Michigan. Geological Society of America Abstracts with Programs, v. 29, no. 4, p. 32.
- Huff, W.D., Lowell, T.V., and McVey, D.E., 1996, Incorporating Web pages into undergraduate courses: Challenges and Hazards, Geological Society of America Abstracts with Programs, v. 28, no. 7, p. A-397
- Lowell, T.V. Heusser, C.J., and Andersen, B.G., 1996, Interstadials, stadials, and the last termination: the view from the southern hemisphere. American Quaternary Association, Program and Abstracts, Flagstaff, Arizona, p. P. 22-24.
- Hinnefeld, R.A., Evans, R.E., and Lowell, T.V., 1996, Partition of lacustrine sediment: an example from the last glacial maximum in Ohio, Geological Society of America Abstracts with Programs, v. 28, no. 6, p. 45.
- Pair, D.L., Lowell, T.V., Poweski, D.E., and Sminchak, J.R., 1996, Evidence of Middle Wisconsin stadial/interstadial events in southwestern Ohio and southeastern Indiana, Geological Society of America Abstracts with Programs, v. 28, no., 3, p. 89.
- Dubois, M.P., and Lowell, T.V., 1996, A Late Wisconsin glacial maximum in Ohio: Testing the Milankovitch theory of the ice ages, Geological Society of America Abstracts with Programs, v. 28, no. 3, p. 50.
- Hayward, R.K., and Lowell, T.V., 1995, Midwest loess deposits as high resolution records of climate change during the late Wisconsin, Geological Society of America Abstracts with Programs, v. 27, no. 3, p. 57.
- Dorion, C. C., Borns, H. W., Jr., Bernatovicz, A., and Lowell, T. V., 1995, Comparison of deglaciation rates in eastern Maine with regions far removed: Geological Society of America, Abstracts with Programs, v. 27, no. 1, p. 40.
- Lowell, T.V., 1994, Late Wisconsin advance rate of the Miami sublobe of the Laurentide Ice Sheet, Geological Society of America Abstracts with Programs, v. 26, no. 7, p. 125.
- Hinnefeld, R.B., and Lowell, T.V., 1994, Eolian transport in lake sediments: An example from southern Ohio: Program and Abstracts 13th biennial meeting, American Quaternary Association, Minneapolis, p. 95.
- Lowell, T.V., 1994, Maine's Calving Bay?: Geological Society of America Abstracts with Programs, v. 26, no. 3, p. 57.

- Kite, J.S., Nugent, C.A., and Lowell, T.V., 1993, Magnetic Susceptibility Profiles: A Prospecting Tool for Deep Stratified Archeology sites: Geological Society of America Abstracts with Programs, v. 25, no. 6, p. 84.
- Larson, G.J., Lowell, T.V., and Ostrum, N.E., 1993, Evidence for the Two Creeks Interstade in the Lake Huron Basin: Geological Society of America Abstracts with Programs, v. 25, no. 6, p. 225.
- Lowell, T.V., 1993, Climate Changes from 18,700 to 17,500 yr B.P. in southern Ohio: Geological Society of America Abstracts with Programs, v. 25, no. 6, p. 456.
- Lowell, T.V., 1993, Streamline bedforms from Mount Desert Island, International Geomorphology Meeting, Hamilton Ontario.
- Lowell, T.V., 1993, Do climate mode flips control the dynamics of the Laurentide Ice Sheet?, Northeast Section: Geological Society of America Abstracts with Programs, v. 25, no. 2, p. 34.
- Lowell, T.V., 1993, The Late Wisconsin Boundary of the Scioto Sublobe near Chillicothe, Ohio: Northeast Section, Geological Society of America Abstracts with Programs, v. 25, no. 2, p. 34.
- Hayward, R.K., Lowell, T.V., Bleuer, N.K., and Rodbell, D.T., 1992, Loess deposits of southwestern Indiana: a high-resolution record from the last termination, Program and Abstracts. American Quaternary Association, University of California, Davis, p. 42.
- Hayward, R.K. and Lowell, T.V., 1992, Variations in loess deposition during the last glacial maximum in southwestern Indiana, Geological Society of America Abstracts with Programs, v. 24, p. 20.
- Ekberg, M.P. and Lowell, T.V. 1991, Genetic interpretation of diamictos near Oxford, Ohio, Geological Society of America Abstracts with Programs, v. 23, p. 11.
- Lowell, T.V., Miller, B.B., and Szabo, J.P., 1991, Chronologic constraints on late Quaternary events in Ohio, Geological Society of America Abstracts with Programs, v. 23, p. 26.
- Lowell, T.V., Savage, K.M., Dell, A.M., Morgan, A.V., Pilny, J., Miller, N., Shane, L. and Stuckenrath, R., 1990, Late Wisconsin glacial maximum biota, Cincinnati, Ohio, CANQUA/AMQUA, Meeting, Waterloo, Ontario, p. 23.
- Lowell, T.V., and Stuckenrath, R., 1990, Radiocarbon dating of the Miami sublobe, Ohio: a somewhat different view, Geological Society of America Abstracts with Programs, v. 22, p. 38.
- Lowell, T.V., and Savage, K.M., 1990 Two dimensional magnetic susceptibility signatures of glacial diamictos, Geological Society of America Abstracts with Programs, v. 22, p. 38.
- Lowell, T.V., 1990, Late Wisconsin iceberg calving rates and ice sheet mass balance reconstructed from paleo sea levels, Mount Desert Island, Maine, Geological Society of America, Abstracts with Programs, v. 22, p. 32.
- Brockman, S.C., and Lowell, T.V., 1989, Tertiary and Quaternary stratigraphy of southwest Ohio, Ohio Academy of Science Annual Meeting, v 82, no. 2, p. 12.

- Savage, K.M., and Lowell, T.V., 1989, Glaciogenic sedimentation associated (?) with the Hartwell Moraine, Geological Society of America, Abstracts with Programs, v. 21, p.46.
- Kite, J.S., and Lowell, T.V., 1988, Ice-stream dynamics and topography, major controls of the deglaciation in Maine and adjacent Canada, American Quaternary Association, Program and Abstracts, 10th meeting, p. 127.
- Brockman, C.S., Lowell, T.V., and Savage, K.M., 1988, A buried Sangamonian(?) paleosol and the extension of the Wisconsin margin in the Cincinnati, Ohio area, Geological Society of America, Abstracts with programs, v. 20, p. 337.
- Savage, K.M. and Lowell, T.V., 1988, Pre-Wisconsin Stratigraphy and paleodrainage in the central Mill Creek Valley, Cincinnati, Ohio, Geological Society of America, Abstracts with Programs, v. 20, p. 386.
- Lowell, T.V., 1988, Interaction of ice tongues and sea levels during the late Wisconsin deglaciation of Mount Desert Island, Gulf of Maine, Geological Society of America, Abstracts with Programs, v. 20, p. 53.
- Lowell, T.V. and Calkin, P.E., 1987, Development, dynamics and dissipation of a late Wisconsin ice mass over northern New England, USA: Abstracts v. 3, International Union of Geodesy and Geophysics, XIX General Assembly, p. 938.
- Lowell, T.V., and Borns, H.W., Jr., 1987, Glaciation of the northern Appalachian region - the northern New England area: Programme and Abstracts, XIIth International Union for Quaternary Research Congress, p. 215.
- Kite, J.S., and Lowell, T.V., 1986, Deglaciation of New England: A view from northern Maine: Geological Society of America Abstracts with Programs, v. 18, p. 27.
- Kite, J.S., and Lowell, T.V., 1985, Divergent striation zones northwest of the Katahdin Massif, north-central Maine: Geological Society of America Abstracts with Programs, v. 17, p. 28.
- Lowell, T.V., 1985, Wisconsin stratigraphy in northern Maine: a progress report: Program and Abstracts, Association Quebecoise pour L'étude du Quaternaire, p. 38.
- Halter, E.F., Lowell, T.V., and Calkin, P.E., 1984, Glacial erratic dispersal from two plutons, northern Maine: Geological Society of America Abstracts with Programs, v. 16, p. 21.
- Lowell, T.V., 1984, Glacial ice-flow patterns in northern New England: Geological Society of America Abstracts with Programs, v. 16, p. 48.
- Kite, J.S., and Lowell, T.V., 1983, Basin deglaciation: Maine and Canada, Association of American Geographers, Program Abstracts, Denver, p. 255.
- Becker, D.A., Lowell, T.V., and Calkin, P.E., 1982, Late Wisconsin stratigraphy, upper St. John River, northwestern Maine: Geological Society America Abstracts with Programs, v. 14, p. 4.
- Kite, J.S., Lowell, T.V., and Stuckenrath, R., 1981, Late Wisconsin residual ice cap: evidence from northwestern Maine: Geological Society America Abstracts with Programs, Annual meeting, v. 13, p. 488.

Lowell, T.V., 1981, Late Wisconsin ice-flow reversal and deglaciation, northwestern Maine: Geological Society America Abstracts with Programs, v. 13, p. 143.

Lowell, T.V., 1980, Late Wisconsin ice extent in the Gulf of Maine: evidence from Mount Desert Island, Maine: Geological Society America Abstracts with Programs, v. 12, p. 71.

Graduate Students Supervised:

Katherine Schoenenberger, M.S., Little Ice Age glacial events in the Southern Alps of New Zealand, 2001.

Barbara Markley, M.S. Landform and subsurface mapping Bellefontaine Ohio and southwestern Clark Co. Ohio. 2001

Rick Bullard, M.S., Age and erosion rates of early Quaternary landscapes in Northern Kentucky. 2001

Andrea Hass, M.S., Comparison of the modern and buried valleys along the Little Miami River. 1998.

Mike Ekberg, M.S., The genesis and chronology of Late Wisconsin glacial diamictons in southwestern Ohio, finished 1991.

Susan Turbek, M.S., Lithologic facies of the Chilean Lake District and their implications for glacier dynamics. 1997.

Rebecca Heinnefeld, M.S., The eolian component of last glacial maximum lacustrine sediment; the Bunnel Road site in southwest Ohio, 1996

Mark Dubois, M.S., The Late Wisconsin Cuba Moraine: Its age and implications for ice sheet behavior, 1996.

Rosalyn Hayward, M.S., Variation in loess accumulation rate in southwestern Indiana during the Late Wisconsin as shown by high-resolution magnetic susceptibility, 1992.

Kevin M. Savage, Ph.D., Quaternary stratigraphy near Cincinnati, Ohio, and its significance for paleoclimate reconstruction, 1992.

Andrine M. Dell, M.S., Reconstruction of Late Pleistocene paleoecology in southwestern Ohio from nonmarine gastropod assemblages, 1991

Undergraduate Students Supervised:

Janelle Sikorski, Raised quartz veins as a dating tool, New Zealand, 2002

Lisa King, Nature of post-glacial rhythmic bedding in Ohio, 2002

Daniel Y. Schebasta, Image analysis of lacustrine sediments, 1995.

Gregory Reed, Magnetic Susceptibility of tills, 1994.