

GENERAL GEOLOGY AND VERMONT GEOLOGY REFERENCES

**Vermont Geological Survey, DEC
103 South Main St., Logue Cottage
Waterbury, Vermont 05671-2420
802-241-3608
<http://www.anr.state.vt.us/dec/geo/vgs.htm>**

FIELD TRIPS and LEARNING OPPORTUNITIES

Please check the 'Calendar' section on the VGS web site for current listings of lectures and field trips in Vermont.

Each fall, NEIGC is held in the Northeast with field trips on Friday, Saturday and Sunday. Teachers are welcome to participate. Registration fees are minimal and include a field trip guidebook.

The Vermont Geological Society runs 2-3 field trips per year on Saturdays. There is no fee for the trip. The quarterly meetings of VGS are fairly informal and open to you.

The annual Earth Science Week, held in mid-October, includes a quarry open house, poster contest, and Geology programs.

Science on the Green is an annual event at the Agency of Natural Resources in Waterbury.

North Branch Nature Center in Montpelier offers lectures and field trips.

BOOKS AND FIELD GUIDES

The Nature of Vermont: Introduction and Guide to a New England Environment, Charles Johnson, University Press of New England, 1980, 276 p.

Roadside Geology of Vermont and New Hampshire, Brad B. Van Diver, Mountain Press Publishing Co., 1987, 240 p.

Rocks and Minerals, Vol. 71, No. 4, *Vermont Issue*, July/August 1996, Heldref Publications, Washington, D.C.

2009 Guidebook to the Northeast Kingdom, Vermont and Surrounding Regions, edited by Alison Lathrop and Dave Westerman, Hosted by the Department of Natural Science, Lyndon State College; the Department of Geology and Environmental Science, Norwich University; and the Vermont Geological Survey

2002 Guidebook for Field Trips in New York and Vermont, edited by James McLelland and Paul Karabinos, New England Intercollegiate Geological Conference, 94th Annual Meeting, and New York State Geological Association, 74th Annual Meeting, 2002.

1999 New England Intercollegiate Geological Conference Guidebook, Dept. of Geology, University of Vermont, Burlington, VT 05405

1997 New England Intercollegiate Geological Conference Guidebook, Dept. of Natural Sciences, Castleton State College, Castleton, VT 05735

1961 Centennial Geologic Map of Vermont on CD-ROM: Edited by Charles G. Doll, scale 1:250,000, (paper copy out of print), Vermont Geological Survey, Waterbury, VT

A complete list of publications available through the Vermont Geological Survey is posted on our web site and in our publications catalog. Web site: <http://www.anr.state.vt.us/dec/geo/vgs.htm>

VERMONT GEOLOGICAL SOCIETY BOOK LIST, JULY 2002

Atlantic Geoscience Society, 2001, *The Last Billion Years: A Geological History of the Maritime Provinces of Canada*, Nimbus Publishing, Halifax, NS

Dann, Kevin, 1989, *Traces on the Appalachians: A Natural History of Serpentine in Eastern North America*, Rutgers University Press

Decker, Robert and Decker, Barbara, 1997, *Volcanoes*, W.H. Freeman and Company

Fortey, Richard, 2000, *Trilobite: Eyewitness to Evolution*, Knopf

Keay, John, 2001, *The Great Arc: The Dramatic Tale of How India was Mapped and Everest Was Named*, Harper Perennial

Kohnke, Helmut and Franzmeier, D.P., 1995, *Soil Science Simplified*, Waveland Press

Little, Richard, 1986, *Dinosaurs, Dunes, and Drifting Continents: The Geohistory of the Connecticut Valley*, Earth View (MA)

McPhee, John, 1983, *In Suspect Terrain*, Farrar Straus and Giroux (re-issue 1998 in paperback by Econo-Clad Books)

McPhee, John, 1990, *In Control of Nature*, Noonday Press

McPhee, John, 1990, *Encounters with the Archdruid*, Noonday Press

McPhee, John, 1991, *Rising from the Plains*, Noonday Press

McPhee, John, 1994, *Assembling California*, Noonday Press

McSween, Harry J., 1999, *Meteorites and their Parent Planets*, Cambridge University Press

Morrison, Taylor, 2001, *The Great Unknown*, Houghton Mifflin Co.

Officer, Charles and Page, Jake, 1993, *Tales of the Earth: Paroxysms and Perturbations of the Blue Planet*, Oxford University Press

Powell, John Wesley, 2002, *The Exploration of the Colorado River and its Canyons*, National Geographic Society

Raymo, Chet and Raymo, Maureen E., 2001: *Written in Stone: A Geological History of the Northeastern United States (2nd Edition)*, The Globe Pequot Press, Old Saybrook, CT.

Rolando, Victor, 1992, *200 Years of Soot and Sweat: the Geology and Archeology of Vermont's Iron, Charcoal, and Lime Industries*, Vermont Archaeological Society, Burlington, VT

Stevens, C.J., 1997, *The Next Bend in the River*, John Wade Publishing

Strahler, Arthur N., 1988, *A Geologist's View of Cape Cod*, Parnassas Imprints

Van Andel, Tjeerd, 1994, *New Views of an Old Planet: A History of Global Change*, Cambridge University Press

Van Diver, Brad, 1987, *Roadside Geology of Vermont and New Hampshire*, Mountain Press Publishing

Wieshampel, David B. and Young, Luther, 1996, *Dinosaurs of the East Coast*, Johns Hopkins University Press, Baltimore, MD

Winchester, Simon, 2001, *The Map that Changed the World*, Harper Collins

CHILDREN/YOUNG READERS BOOKS

Blobaum, Cindy, Illustrated by Michael P. Kline, 1999, *Geology Rocks--50 Hands-on Activities to Explore the Earth*, Williamson Publishing

Christian, Peggy, Illustrated by Barbara Hirsch Lember, 2000, *If You Find a Rock*, Harcourt

Cole, Joanna, Illustrated by Bruce Degen, 1989, *The Magic School Bus Inside the Earth*, Scholastic Trade

Gibbons, Gail, 1998, *The Planet Earth: Inside Out*, Mulberry Books

Hiscock, Brian, 1999, *The Big Rock*, Aladdin Paperback

Hooper, Meredith, Illustrated by Christopher Caody and Chris Coady, 1996, *The Pebble in My*

Pocket: A History of Our Earth, Viking Childrens Books

Hurst, Carol Otis, 2001, *Rocks in his Head*, Greenwillow

Kerley, Barbara, Illustrated by Brian Selznick, 2001, *The Dinosaurs of Waterhouse Hawkins*, Scholastic Trade

Martin, Jacqueline, Illustrated by Mary Azarian, 1998, *Snowflake Bentley*, Houghton Mifflin Co.

Prager, Ellen, J., Illustrated by Nancy Woodman, 2002, *Sand*, National Geographic Society

Thorson, Kristine and Thorson, Robert, Illustrated by Gustav Moore, 1998, *Stone Wall Secrets*, Tilbury House, Gardiner, ME

Vancleave, Janice, 1991, *Janice Vancleave's Earth Science for Every Kid: 101 Easy Experiments that Really Work*, John Wiley

LOCAL/REGIONAL WEB SITES (Vermont geology)

Vermont Geological Survey at Agency of Natural Resources

<http://www.anr.state.vt.us/dec/geo/vgs.htm>

University of Vermont Geology Dept

<http://geology.uvm.edu/>

Perkins Geology Museum

<http://geology.uvm.edu/museumwww/intropage.html>

Geologic History of the Northeast (from PRI)

<http://www.priweb.org/ed/TFGuide/TFG.html>

Middlebury College Field Trip

http://f00.middlebury.edu/GL201A/gl_201_field_trips.html

Deglaciation and the Champlain Sea

<http://imperial.park.org/Canada/Museum/champlain/EVENTS.HTM>

Champlain Sea

http://www.geo.ucalgary.ca/~macrae/t_origins/champlain/champlain.html

Glacial Lake Hitchcock

<http://www.bio.umass.edu/biology/conn.river/hitchcock.html>

Elizabeth Mine Superfund Site

<http://www.epa.gov/superfund/sites/npl/nar1612.htm>

Soils Information

<http://soils.usda.gov/>

Vermont Geological Society

<http://www.uvm.org/vtgeologicalsociety/>

Burlington Gem and Mineral Club Homepage

<http://www.burlingtongemandmineralclub.org/>

Slate Valley Museum

<http://www.slatevalleymuseum.org/>

National Earthquake Information Center, USGS

<http://www.neic.usgs.gov>

Why Does the Earth Quake in New England?

<http://kirk.bc.edu/~kafka>

Historic USGS topographic maps for New England states (15 minute quads) from UNH

<http://docs.unh.edu/nhtopos/nhtopos.htm>

Stone Quarries and Beyond

<http://www.cagenweb.com/quarries/states/vermont.html>

For local events and pictures of Vermont Geology, check our Vermont listing

<http://www.anr.state.vt.us/dec/geo/vgs.htm>

FAVORITE INTERNET SITES

<u>Paleomap Project (projections of Earth through time)</u>	http://www.scotese.com/earth.htm
<u>Earth Science Picture of the Day</u>	http://epod.usra.edu
<u>Volcano World</u>	http://volcano.und.nodak.edu/vw.html
<u>The Dinosaur Pages</u>	http://dinosaur.umbc.edu
<u>Atlas of Igneous and Metamorphic Rocks, Minerals and textures, UNC</u>	http://www.geosci.unc.edu/Petunia/IgMetAtlas/mainmenu.html
<u>Paleontology Links</u>	http://www.uic.edu/orgs/paleo/links.html
<u>A Geologist's Lifetime Field List</u>	http://www.uc.edu/geology/geologylist/
<u>Structural Geology</u>	http://earth.leeds.ac.uk/learnstructure/index.htm
<u>The Talk.Origins Archive</u>	http://www.talkorigins.org/origins/faqs.html
<u>Canadian Center for Remote Sensing (great images and tutorials for novices and/or students)</u>	http://www.ccrs.nrcan.gc.ca/ccrs/eduref/edurefe.html
<u>UCMP at Berkeley (paleontology museum/site)</u>	http://www.ucmp.berkeley.edu/exhibit/exhibits.html
<u>Association of American State Geologists</u>	http://www.kgs.ukans.edu/AASG/AASG.html
<u>AGI Homepage (Earth Science Week info.)</u>	http://www.agiweb.org/
<u>U.S. Geological Survey</u>	http://geology.usgs.gov/
<u>National Park Service Tour</u>	http://www.aqd.nps.gov/grd/tour/index.htm
<u>National Geologic Map database</u>	http://ngmdb.usgs.gov/
<u>Google Earth</u>	http://earth.google.com/

PLACES TO VISIT

Perkins Museum of Geology, UVM, Burlington, VT 05045; (802) 656-8694
Vermont Marble Exhibit, 52 Main St., Proctor, VT 05765; (800) 427-1390; mid-May through October
ECHO-Leahy Center at Lake Champlain, One College St., Burlington, VT 05401; (802) 864-1848
Montshire Museum of Science, Montshire Road, PO Box 770, Norwich, VT 05055; (802) 649-2200
Fairbanks Museum and Planetarium, Main and Prospect St., St. Johnsbury, VT 05819; (802) 748-2372
Rock of Ages Visitor Center, PO Box 482, Barre, VT 05641-0482; (802) 476-3115
Slate Valley Museum, 17 Water St., Granville, NY 12832; (518) 642-1417
VINS North Branch Nature Center, Elm St., Montpelier, VT 05602; (802) 229-6206
Button Bay State Park, Vergennes, VT 05491; (802) 475-2377 or 241-3655; seasonal
Mt. Philo State Park, Charlotte, VT 05445; (802) 425-2390 or 241-3655; seasonal
Quechee Gorge, Hartford, VT