

**Geology Student / Faculty Publications**  
**(Student co-authors are noted with asterisk)**

**Peer-reviewed Publications**

- 2008 Ryan P.C., Hillier S., Wall A.J.\*. Stepwise effects of the BCR sequential chemical extraction procedure on dissolution and metal release from common ferromagnesian clay minerals: a combined solution chemistry and X-ray powder diffraction study. *Science of the Total Environment* 407: 603-614.
- 2007 Roush, W.\*, Munroe, J.S., and Fagre, D.B.: Using Ground-Based Repeat Photography and Spatial Analysis Tools to Detect Changes in the Alpine Treeline Ecotone, Glacier National Park, Montana. *Arctic, Antarctic, and Alpine Research*, 39: 297-308.
- 2007 Munroe, J.S., Farrugia, G.\*, and Ryan, Peter C.: Parent material and chemical weathering in alpine soils on Mt. Mansfield, Vermont, USA. *Catena* 70:39-48.
- 2007 Munroe JS, Ryan PC, Carlson\* H, Miller EK. Testing Latest Wisconsin Ice Flow Directions in Vermont through Quantitative X-ray Diffraction Analysis of Soil Mineralogy. *Northeastern Geology and Environmental Science* 29(4): 263-275.
- 2007 D.W. Rankin, R.A. Coish, R. D. Tucker, Z.X. Peng, S. A. Wilson\*, and A. Rouff\*. Silurian Extension in the Upper Connecticut Valley, United States and the Origin of Middle Paleozoic Basins in the Québec Embayment, *American Journal of Science*, v. 307, 216-264.
- 2007 West, D.P., Jr., Tomascak, P.B., Coish, R.A., Yates, M.G., and Reilly\*, M.J. (2007) Petrogenesis of the Lincoln Syenite, Maine: Late Silurian-Early Devonian melting of a source region modified by subduction driven metasomatism, *American Journal of Science*, v. 307, 265-310.
- 2006 Munroe, J. S., Laabs, B.J.C., Shakun, J.D.\*, Singer, B.S., Mickelson, D.M., Refsnider, K., and Caffee, M. 2006: Latest Pleistocene advance of alpine glaciers in the southwestern Uinta Mountains, Utah, USA: Evidence for the influence of local moisture sources. *Geology* 34: 841-844.
- 2006 Fisher\* GB, Ryan PC. The smectite to disordered kaolinite transition in a tropical soil chronosequence, Pacific Coast, Costa Rica. *Clays & Clay Minerals* 54, 571-586.
- 2004 Coish, Raymond A. and P.J. Gardner\*, Suprasubduction zone peridotite in the northern USA Appalachians: evidence from mineral composition: *Mineralogical Magazine*, v. 68, 699-708.

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- 2003 Kautz\* CQ, Ryan PC. The 10 Å to 7 Å halloyside transition in a tropical soil sequence, *Costa Rica Clays and Clay Minerals* 51, 252-263.
- 2003 Kim, Jonathan, Coish, Raymond, Evans\*, Matt, Dick\*, Gregory, Suprasubduction Zone Extensional Magmatism in Vermont and adjacent Quebec: implications for Early Paleozoic Appalachian Tectonics, *Geological Society of America Bulletin*, v.115, p. 1552-1569.
- 2003 West, D.P., Jr., Beal\*, H.M., and Grover, T.W., Silurian deformation and metamorphism of Ordovician arc rocks of the Casco Bay Group, south-central Maine: *Canadian Journal of Earth sciences*, v.40, p. 887-905.
- 2002 Ryan PC, Wall\* AJ, Hillier S, Clark L., Insights into sequential chemical extraction from quantitative XRD: A study of trace metal partitioning in sediments related to frog malformities. *Chemical Geology* 184, 337-357.
- 1999 Hannula, K. A., J. S. Lackey\*, E. Mattox\*, G. McGrath\*, E. Onasch\*, and J. Wertheim\*,. "Syn-tectonic pluton intrusion during contractional deformation: microstructural and metamorphic evidence from the aureole of the Acadian Victory Pluton, northeastern Vermont, USA" *Journal of Metamorphic Geology*, v17, p. 271-286.
- 1999 Meyer, G.A., and Leidecker\*, M.E., "Fluvial terraces along the Middle Fork Salmon River, Idaho, and their relation to glaciation, landslide dams, and incision rates: A preliminary analysis and river-mile guide", in Hughes, S., and Thackray, G., eds., *Guidebook to the Geology of Eastern Idaho: Pocatello, Idaho* Museum of Natural History, p. 219-235.
- 1998 Coish, R.A., Kretschmar\*, L.M. and Journeay, J.M. Geochemistry of the Mount Noel volcanics, British Columbia and comparison with the Columbia River Basalt. *Journal of Volcanology and Geothermal Research*, v. 83, p. 269-285.
- 1996 Prigo, R. B., T.O. Manley, B. Connell\*, Linear, one-dimensional models of the surface and internal standing waves for a long and narrow lake: *Am. J. Phys.*, v. 64, p. 288-300.
- 1992 Coish, R.A., C. W. Sinton\*, "Geochemistry of mafic dikes in the Adirondack mountains: implications for the constitution of Late Precambrian mantle" *Contributions to Mineralogy and Petrology*, 110, 500-514.
- 1992 Schmidt, J. C., and P. E. Grams\*, "Response of bedrock-gorge alluvial sand bars to operations of large hydroelectric dams, Colorado River in Grand Canyon, Arizona and Snake River in Hells Canyon, Idaho and Oregon", in press.
- 1991 Coish, R. A., A. Bramley\*, T. Gavigan\*, and R. Masinter\*, "Progressive changes in volcanism during Iapetan Rifting: comparisons with the East African Rift - Red Sea system", *Geology*, 19,1021-1024.

- 1988 Isachsen, Y. W., R. Coish, C. Sinton\*, M. Heisler, and B. Kelley, "Dikes of the northeast Adirondack region: Their distribution, orientation, mineralogy, chronology, chemistry and mystery", *60th New York State Geological Association Meeting, Field Trip Guidebook*, 215-243.
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- 1986 Coish, R. A., D. A. Perry\*, C. D. Anderson\*, and D. Bailey\*, "Metavolcanic rocks from the Stowe Formation, Vermont: Remnants of ridge and intraplate volcanism in the Iapetus ocean", *American Journal of Science*, 286, 1-28.
- 1985 Coish, R. A., F. S. Fleming\*, M. Larsen\*, R. Poyner\*, and J. Seibert\*, "Early rift history of the proto-Atlantic ocean: Geochemical evidence from metavolcanic rocks in Vermont", *American Journal of Science*, 285, 351-378.
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- 1981 Clague, D., J. Rubin\*, and R. Brackett\*, "The age and origin of the garnet amphibolite underlying the Thetford Mines ophiolite, Quebec", *Canadian Journal of Earth Sciences*, 18, 469-486.
- 1981 Dalrymple, G. B., D. A. Clague, M. O. Garcia, and S. W. Bright\*, "Petrology and K-Ar ages of dredged samples from Laysan Island and Northampton Bank volcanoes, Hawaiian Ridge, and evolution of the Hawaiian-Emperor chain: Summary", *Geological Society of America Bulletin*, Part I, 92, 315-318.
- 1980 Freeman-Lynde\*, R. P., D. R. Hutchinson\*, D. W. Folger, B. H. Wiley\*, and M. J. Hewett\*, "The origin and distribution of subbottom sediments in southern Lake Champlain", *Quaternary Research*, 14, 224-239.

### **Abstracts with Presentation**

- 2007 Ryan, Peter C., Coish, Ray, and Joseph\*, Kristiaan, Ordovician K-Bentonites in western Vermont : mineralogic, stratigraphic and geochemical evidence for their occurrence and tectonic significance, *Geological Society of America Abstracts with Programs*, v. 39, n. 1, p. 50.

- 2007 Gleason, Michael J., Kim, Jonathan, Coish, Raymond and Ryan, Peter C, Radionuclide-enriched groundwater, Knox Mountain pluton, Vermont: occurrence and lithologic controls, Geological Society of America Abstracts with Programs, v. 39, n. 1, p. 102.
- 2007 Sullivan\*, Colleen, Bright, Kevin\*, Kim, Jonathan, and Ryan, Peter C. Potential ultramafic-derived arsenic contamination in bedrock water wells in north-central Vermont, Geological Society of America Abstracts with Programs, v. 39, n. 1, p. 71.
- 2007 Childs, C, Manley, PL, Ryan, PC ( 2007) A fluvial record of historical land use change, Otter Creek Basin, Vermont: Geological Society of America Abstracts with Programs, Vol. 39, No. 1, p. 102.
- 2007 Berkman\* DA, Zummo\* L, Ryan PC. (2007) A comparison of chemical weathering in schist-dominated vs. granite-dominated watersheds: Implications for forest health in Vermont and New Hampshire. Geological Society of America *Abstracts with Programs*, Vol. 39, No. 1, p. 103.
- 2007 Rodgers, C.M.\* and Munroe, J.S. : “Post-glacial lake sediment records from northeastern Vermont, USA” Northeastern Section Meeting, Geological Society of America.
- 2006 West, D.P., Jr., Barnard\*, N., and Gerbi, C., Metamorphosed iron-rich rocks in south-central Maine: From peri-Gondwanan sedimentation through Acadian metamorphism. Geological Society of America Abstracts with Programs, v. 38, p. 48.
- 2006 West, D.P., Jr., Roden-Tice, M., and Barnard\*, N., Low temperature thermochronology along the Norumbega fault system in southwestern and south-central Maine: Accessing the role of orogen-parallel faults in post-Paleozoic exhumation: Geological Society of America Abstracts with Programs, v. 38, p. 92.
- 2006 Munroe, J.S., Farrugia, G.\*, and Ryan, P.C.: “Parent material and chemical weathering in alpine soils on Mt. Mansfield, Vermont, USA” Geological Society of America Abstracts with Programs, Philadelphia Meeting.
- 2006 Corbett, A.,\* and Munroe, J.S.: Vermont Terroir: Investigating the relationship between maple syrup chemistry and bedrock lithology” Geological Society of America Abstracts with Programs, Philadelphia Meeting.
- 2006 Ryan, Peter C., Coish, Ray, and Joseph\*, Kristiaan, Stratigraphic, mineralogic, and geochemical evidence for Ordovician K-Bentonites in western Vermont, Geological Society of America Abstracts with Programs, v. 38, n. 7, p. 370.
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- 2006 Morris\*, Nathan, Coish, Raymond, and Kim, Jonathan , Geochemistry of metavolcanic rocks in the southern Worcester mountain area, Vermont, Geological Society of America Abstracts with Programs, v. 38, n. 2, p. 92.
- 2006 West, David P. Jr, Tomascak, Paul B., Coish, Raymond A., Petrogenesis of the Lincoln syenite, Maine: evidence for Late Silurian-Early Devonian melting of a source region modified by subduction driven metasomatism, Geological Society of America Abstracts with Programs, v. 38, n. 2, p. 31.
- 2005 Farrugia\*, Gianina, Jeff Munroe Investigating alpine pedogenesis on Mt. Mansfield, Vermont, presented at the 2005 NE-GSA meeting in Saratoga Springs, NY
- 2005 Fisher\* GB, Ryan PC The ferruginous beidellite to halloysite transition in a tropical soil chronosequence. *Clay Minerals Society 43<sup>rd</sup> Annual Meeting*, 41.
- 2005 North\*, KP, Kim J, Ryan P. Evaluation of geological controls on elevated naturally-occurring radioactivity in bedrock ground water wells, NW Vermont. *Geological Society of America* 37 (1), 78.
- 2004 Cowden\* S, Ryan PC, Greenglass N. Lead in groundwater derived from a fractured carbonate aquifer (Clarendon Springs Formation), northwestern Vermont. *Geological Society of America* 36 (2), 66.
- 2004 Fisher\* GB, Ryan PC Clay mineral weathering sequence in a tropical terrace progression, Costa Rica. *Geological Society of America* 36 (2), 73.
- 2004 Ryan, P, Hillier S, Wall\* A, Wesolowski\* M. Serpentinite weathering and trace metal mobility in dry tropical forest (NW Costa Rica) and cool temperate grassland (SW England). *Geological Society of America* 36 (5) 27.
- 2004 Twelker\*, Evan, Raymond A. Coish and Jonathan Kim Field relations and geochemistry of greenstones in the Moretown and Cram Hill Formations, central Vermont: Geological Society of America Abstracts with Programs, v. 36, no. 2, p. 28.
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- 2003 Ryan, PC, Hillier S, Wall\*, AJ Trace metal speciation in soils derived from ultramafic rock, northwestern Costa Rica. *Geological Society of America* 34 (7), 241.
- 2003 Shaken\*, Jeremy, Munroe, Jeff, Ben Laabs, David Mickelson, Brad Singer, and Marc Caffee Cosmogenic-exposure age limits on the last glacial maximum in the south-central Uinta Mountains, northeastern Utah, presented at the 2003 GSA meeting, Seattle, WA

- 2003 Shakun\*, Jeremy, Jeff Munroe, and Ben Laabs Last Glacial Maximum equilibrium-line altitudes and paleoclimate, northeastern Utah presented at the 2003 GSA meeting in Seattle.
- 2002 Beal\*, H.M., and West, D.P., Jr. A Petrologic and microstructural study of the Scarborough Formation (Casco Bay Sequence) in south-central Maine: *Geological Society of America Abstracts with Programs*, v. 34, no. 1, p. 68.
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- 2002 Munroe, Jeff and Jamie Laidlaw\* A 5000-year record of fire and sedimentary response for the Uinta Mountains, northeastern Utah, presented at the 2002 GSA meeting, Denver, Colorado.
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- 2001 Coish, Raymond A., Rouff\*, A., Wilson\*, Sharon A. and Rankin, Douglas Silurian Extensional magmatism in the Appalachians: Geochemistry of dikes from northeastern Vermont. *Geological Society of America, 2001 annual meeting, abstracts with programs*, v 33, n 6, p.A-375.
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- 2000 Morse\*, T., E. Enman\* and P.L. Manley, 2000, Electrical resistivity as a paleoclimate proxy: Results from the Antarctic Peninsula, ASLO, San Antonio, TX. *EOS Trans. Amer. Geophys. Union*, v. 80, p. 50.
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- 1999 Hannula, K.A., Christensen, E., Werthiem\* J., Onasch\* E., and Lackey\* J.S. "Accommodating blind students in introductory physical geology." *GSA Abstracts with Programs*, v. 31, n. 7, p. A-273.
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- 1997 Coish, R.A., Kretschmar\*, L.M. and Journeay, J.M. , Geochemistry and origin of the Mount Noel Volcanic Complex, southwestern British Columbia: Miocene extensional volcanism, *Geological Society of America, Cordilleran Section, abstracts with programs*, v. 29, no. 5, p. 8.
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- 1995 Coish, R.A., Evans\*, M.E. , Minnis\*, Y. , Dick\*, G. , Pugin\*, P.A. , Eastern limits of early Paleozoic rift volcanism in the northern Appalachians, Geological Society of America, abstracts with programs, v 27, p. A-224.
- 1994 Pope\*, D.C., K.P. Furlong\*, T.M. Brocher and H.M. Benz, Upper crust of the San Francisco Bay area: a tomographic study: EOS, v. 75, no. 44, p. 643.
- 1994 Minnis\*, Yana L., Field relationships and structural analysis of an ultramafic belt near Westfield, VT, Geological Society of America, abstracts with programs, v 26, no 3, p. 63.
- 1994 Kryc\*, Kelly A. , Surface characterization of the northern Bjorn and Gardar sediment drifts, North Atlantic, Geological Society of America, abstracts with programs, v 26, no 3, p. 30.
- 1994 Kretschmar\*, Laura M. , Miocene volcanism in southwestern British Columbia: geochemistry and tectonic implications, Geological Society of America, abstracts with programs, v 26, no 3, p. 30.
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- 1993 Bissell\*, D. M. and P. L. Manley, Synthetic seismogram generation - A study in the Antarctic Peninsula region, Special Conference on Antarctica, Ohio.
- 1992 Verdonck, D., K. Furlong\* , and D. Pope\* , Three-dimensional structure of the crust in the San Francisco Bay region of central California, EOS, v. 73, no. 43, p. 401.
- 1992 Schmidt, J.C. and P.E. Grams\* , Response of bedrock-gorge alluvial sand bars to operations of large hydroelectric dams, Colorado River in Grand Canyon, Arizona and Snake River in Hells Canyon, Idaho and Oregon.
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