

Geology of Western Vermont



Date: Tuesday, September 17, 2019; 9:00 am – 2:00 pm

Cost: \$99

Registration for this trip includes box lunch, water, snacks, and transportation

Leader: Marjorie Gale

Marjorie is the State Geologist and Director of the Vermont Geological Survey. She joined the VGS in 1996 and is co-author of the Bedrock Geologic Map of Vermont (2011). She spent most of her career mapping bedrock, developing groundwater resource maps, working on GIS projects, and doing outreach. She now directs programs which focus on mapping, groundwater and hazards.

Description: The trip will provide an overview of the bedrock geology of western Vermont. We will visit sites in different lithotectonic slices of Vermont including the autochthonous rocks in the Champlain Lowlands, the Cheshire quartzite on the upper plate of the Champlain Thrust, and metamorphosed clastic rocks near the crest of the Green Mountains. The trip begins in Ordovician rocks intruded by Cretaceous dikes on the shores of Lake Champlain (elev.~100') and ends in the Cambrian rocks at Appalachian Gap (elev.~2375').