

Landslide Hazards at Jeffersonville and Smugglers' Notch Northern Vermont



Date: Monday, September 16, 2019; 8:00 am – 4:00 pm

Cost: \$135

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

Leaders: George Springston and Leslie Kanat

Mr. George Springston is a Research Associate at the Department of Earth and Environmental Sciences at Norwich University in Northfield, Vermont. He specializes in surficial geologic mapping and evaluation of slope stability hazards. Mr. Springston has a Bachelor's degree in Geology from Clemson University and a Master's in Geology from the University of Massachusetts at Amherst.

Dr. Leslie Kanat is a Professor of Geology at Northern Vermont University-Johnson. His earlier research focused on metamorphic petrology and structural geology, yet it has broadened in order to meet the needs of the University. Dr. Kanat has a Bachelor's and Master's degree in Geology from Wayne State University, and a Ph.D. in Earth Sciences from the University of Cambridge.

Description: At the Village of Jeffersonville we will examine evidence for a series of large landslides in glaciolacustrine sediments on the east side of the Brewster River. We will discuss the stratigraphy of the sediments, the history and mechanisms of slope failures, and the risks posed to the village below and the Jeffersonville landslide after event on April 18, 1999. At Smugglers' Notch we will examine rock fall and debris flow hazards in a glacially-scoured notch on the flank of Mount Mansfield, the highest peak in the state of Vermont and recent rock fall activity on the west side of Smugglers' Notch. A short presentation at each site will precede field explorations. Maps and summary documentation will be provided to all participants.

**This trip is priced slightly higher than other trips due to the need for vans.*