

**THE ASRC FALCONER SCIENCE/NATURAL HISTORY LECTURE  
SERIES  
2019**



**TUESDAY EVENINGS - 7:00 p.m.**

**Free admission and open to the public**

**ASRC WHITEFACE FIELD STATION  
110 MARBLE MOUNTAIN LANE  
Wilmington, NY 12997**



**July 9 A Summary of Ongoing Research and Environmental Monitoring at Whiteface Mountain  
Presentation by Paul Casson (Operations Manager) and Richard Brandt (Science Manager)**

Against the backdrop of the stunning beauty afforded by this iconic Adirondack peak, a globally significant record of the physical and chemical composition of the atmosphere is being recorded. The long-term stability of land use afforded by the Adirondack Park designation allows for the operation of a ground-based probe of the atmosphere unparalleled in the northeastern United States.

**July 23 Climate change in the Adirondacks: Observed change and emissions monitoring  
Presentation by Dr. Eric Leibensperger, Associate Professor of Environmental Science for  
Earth and Environmental Science SUNY Plattsburgh**

Our climate is warming due to our continued use of fossil fuels and resulting emission of greenhouse gases. Scientists are actively working to better understand current and future climate risks, while ensuring accountability of climate mitigation plans. This presentation will explore research being conducted to better understand recent the climate of the Adirondack and Champlain Valley regions, as well as a discussion of the application of observations at Whiteface Mountain to better understand sources of greenhouse gases in New York State.

**August 6 Road Salt and the Contamination of Adirondack Groundwater  
Dan Kelting, Director of the Adirondack Watershed Institute**

The executive director of the Adirondack Watershed Institute at Paul Smiths College will discuss findings from the Institute's recent research. The Adirondack Watershed Institute at Paul Smith's College collected data showing that two-thirds of the wells it tested downslope from state roads were polluted by sodium beyond the federally recommended health limit of 20 parts per million.

**August 20 Monitoring Cloud Water Chemistry at Whiteface Mountain: Are We Entering a New  
Chemical Regime? Presented by Chris Lawrence, ASRC Graduate Student**

Whiteface Mountain has a long historical record of both meteorological and chemical monitoring that spans many decades. Cloud water chemistry monitoring began in 1994, largely in response to the growing "acid rain" problem both in the Adirondacks and throughout the country. Over time, largely due to the Clean Air Act, the environmental harm from acid rain has been decreasing. However, a new problem involving ammonia and organic carbon might be forming. The history of cloud water monitoring at Whiteface will be discussed, along with the new parameters being studied: organic acids.

Tax-deductible donations to sustain the Natural History Lectures may be made out to the "University at Albany Foundation" and mailed to the University at Albany Foundation UAB-201, 1400 Washington Avenue, Albany, NY 12222. Address donations "Attention: Ray Falconer Fund"