



## School of Natural Resources and the Environment

Seminar Series: Spring 2019

THE PAST, PRESENT AND FUTURE OF  
CLIMATE-DRIVEN CHANGE IN US FORESTS

SPEAKER: Christine Rollinson, *The  
Morton Arboretum, Lisle, Illinois*

DATE: Wednesday, February 6th, 2019

TIME: 3:00-4:00 pm

LOCATION: ENR2, S107



ABSTRACT: Temperatures in the U.S. are expected to rise 1.6-6.6 °C by 2100, and precipitation regimes will shift as well. The 80 years between now and then may be a literal lifetime for humans, but it is not very long with respect to trees lifespans and the temporal scales of forest processes. Across the US, individual trees and entire forests have climate change to varying degrees over the past 1,000 years, and we can use observations and models of their responses to constrain our predictions about the future. My presentation will combine empirical data from diverse sources including pollen, tree rings, and citizen-science with ecosystem modeling targeted at providing information to support long-term forest management and conservation decisions in the face of climate change.