

Abstract for an invited keynote address at the [Tennessee Academy of Science](#) annual meeting, November 2022 in Nashville TN

**Title: Climate change impacts across Tennessee**

The state of Tennessee encompasses many landscapes and ecosystems, from the Appalachian Mountains to the Mississippi River. Climate change and other global-change processes are likely to impact a variety of natural resources and human communities throughout the state. This keynote address will offer a virtual “tour” of the state, touching on potential climate impacts to terrestrial ecosystems such as forests and grasslands, as well as freshwater systems such as streams, reservoirs, and wetlands, plus potential impacts to agriculture and cities. Increasingly, scientific information is becoming available to help anticipate climate-change influences on a variety of processes, including drought patterns, fire regimes, geographic ranges and seasonal timing for native species, hydrologic patterns, water quality and temperature, invasive species, and pest and pathogen dynamics. This keynote address will highlight some of these scientific resources to help researchers, natural-resource managers, and Tennessee residents better anticipate and prepare for climate impacts over the years ahead.