

Advances in Stratigraphy and Geochronology

Virtual Seminar Series of the Stratigraphy and Chronology Commission (SACCOM) of INQUA

Thursdays at 9 am USA EST, 2 pm London, 3 pm Paris, and 10 pm Beijing time.

The eighth talk of the weekly series is on **June 10**,
given by:

Dr. Bob Booth (Lehigh University, USA)

“Wetland and forest responses to Holocene moisture variability: insights from the peatland paleoenvironmental archive”



Dr. Bob Booth is a professor of Earth and Environmental Science at Lehigh University, USA. His research interests are focused on better understanding ecological history, particularly how forest and peatland ecosystems have responded to disturbance and climatic changes of the past. The primary source of information he uses for these investigations is the paleoecological record from peatlands, and his research group has pioneered the use of testate amoebae as paleoenvironmental indicators in these systems.

Abstract: Paleoecological records of testate amoebae from peatlands have been widely used to examine past ecological, hydrological, and climatological changes. Several decades of modern ecological studies, modeling efforts, and multi-proxy comparisons inform interpretation of these records, with recent continental-scale syntheses of calibration datasets in Europe, North America, and Asia. In this talk, I will review these efforts and discuss the development of the Neotoma testate amoeba database, and then highlight several case studies where the peatland archive has revealed critical insights into Holocene forest and peatland dynamics.

For more details of the full seminar series please go to the SACCOM webpage at: <https://www.inqua.org/commissions/saccom/ifg>. Please see the Zoom link below.

ZOOM LINK:

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Overseen by Lewis Owen on behalf of SACCOM