

EUROPEAN-AMERICAN COLLABORATION IN WIND ENERGY

MONTHLY WEBINAR SERIES

The American Wake Experiment (AWAKEN)

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ABSTRACT The American Wake Experiment (AWAKEN) is an international multi-institutional field campaign funded by the US Department of Energy focused on observation of wind farm atmosphere interactions that have a significant impact on wind farm performance and turbine reliability. In this presentation I will describe the setup of the field experiment, highlight some of the recent observations that are of interest to wind energy and atmospheric communities, and describe future work for the experiment that will continue into 2025.

BIO Pat is the lead of the Wind Energy Systems group at the National Renewable Energy Laboratory where he has been since 2001. His research expertise includes wind farm atmosphere interactions, wind turbine design, and aerodynamics and aeroacoustics of wind turbines. Currently, Pat leads the DOE American Wake Experiment (AWAKEN), an observational campaign to examine wind farm atmospheric interactions across scales. He has published over 150 papers related to wind energy and serves as associate editor for the journal Wind Energy.