Sigma Xi: The Scientific Society, University of North Carolina-Asheville Chapter
Intercollegiate Presentation Series

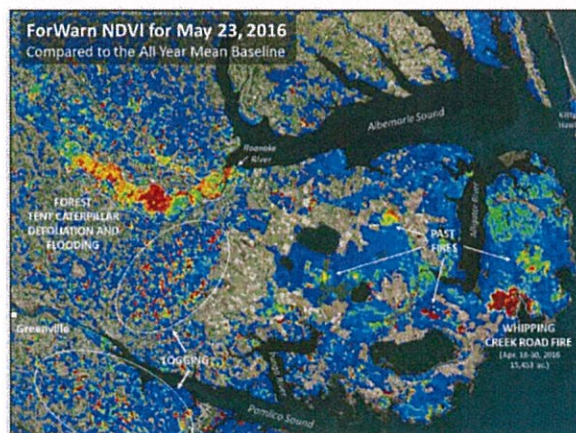# William "Bill" Hargrove, Ph.D.
Eastern Forest Environmental Threat Assessment Center (USDA-Forest Service)

*"ForWarn, A National Satellite-Based Forest Disturbance Detection System,
and Other Uses of Phenology and Remote Sensing Data
for Large-Scale Vegetation Monitoring"*

Tuesday, March 28 at 7:00 pm at Mars Hill University

Near-real-time satellite images can alter scientists and managers about environmental changes and potential threat. Dr. Hargrove and his colleagues have developed tools to detect disturbances to vegetation caused by wildfires, weather events, disease and pest outbreaks, or human activities. Their tools are linked to seasonal models of vegetative growth—consider the spring bud-burst on trees and leaf colors in autumn. Aberrations from seasonal norms are detected at local, regional, and continent-wide scales. Recent applications of *ForWarn* include monitoring an outbreak of tent caterpillars in NC's Roanoke River Basin, understanding the effect of urban areas on local phenology, mapping the start of the agricultural growing season across the continental US.

Lecture at 7:00 pm in Room 202 of Ferguson Math & Science Center / Wall Science Building.
Dinner at 6:00 pm prior to the talk in Pittman Dining Hall.

For additional information contact Scott Pearson at 828 689-1402, *spearson@mhu.edu*.