KANSAS STATE UNIVERSITY

Division of Biology Presents:

Remote Sensing of Biodiversity Across Spatial and Organismal Scales

Monday, February 16th, 2025 • 3:30 PM • 232 Ackert Hall

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Remote sensing provides the only way to monitor Earth's biodiversity continuously and repeatedly across large spatial extents. With space agencies investing in sensor fleets specifically designed to monitor and assess biodiversity and ecosystem health, we have now, for the first time, the opportunity to design global monitoring systems to detect early signs of ecosystem change. Given the urgency to halt biodiversity loss, it is more important than ever to understand which aspects of biodiversity satellite systems can track. This requires the integration of theory and methods from ecology and remote sensing across spatial, temporal, and biological scales. In this talk, I will show how spectroscopy can enrich plant ecology, and present examples of how data from already existing ecological monitoring networks can be used to develop methods for space-borne assessments of plant diversity and the diversity of other organism groups.

If you would like to visit with Dr. Anna Schweiger, please contact Dr. Ellen Welti at elwelti@ksu.edu.

Coffee & snacks served preceding the seminar in Ackert Hall, Room 225