

2018 Lamberson Ecology Lecture Series

presents a pair of talks with

Dr. Barry Noon

**Department of Fish, Wildlife and Conservation Biology
Colorado State University**

**March 8, 2018
4:00-5:00PM
Native American
Forum (BSS 162)**

Part 1

Applications of Quantile Regression in Ecology

In the afternoon technical talk, we will explore all the factors that affect ecological processes are not measured and included in the statistical models used to investigate relationships between variables associated with those processes. As a consequence, there may be a weak or no predictive relationship between the mean of the response (y) distribution and the measured predictive factors (X). Yet there may be stronger, useful predictive relationships with other parts of the response variable distribution. I will discuss the application of quantile regression to: 1) identification of unmeasured ecological limiting factors; 2) the case of missing (latent) information in estimating a species' numerical response to habitat variation; and 3) to modeling discrete bounded counts (eg, number of offspring) that occur frequently in ecological data.

An evening Pre-lecture reception begins at 5:45PM – Please join us!

Sharing the Landscape with Dangerous Animals: Tiger Conservation in India

Across all nations and all environments—marine, freshwater, arctic, temperate and tropical—large-bodied animals continue to experience significant declines in distribution and abundance. Tigers, which number less than 4000 individuals and occupy only seven percent of their historic range, are no exception to this rule. The largest number of tigers occur in India, a country with over 1.3 billion people and one-third the land area of continental U.S. How is it that tigers precariously persist in India but large bodied predator populations in the U.S., with far fewer people and much greater land area, continue to be imperiled? I will discuss research findings of my Indian students studying tigers, their implications for their long-term conservation, and contrast these with efforts to encourage public support for the reintroduce gray wolves to western landscapes in the U.S.

**March 8, 2018
6:30-7:30PM
Native American Forum
(BSS 162)**

Part 2

Event is
free and
open to
the
public!

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