

**Indiana University-Purdue University
Indianapolis**
Department of Mathematical Sciences

STATISTICS SEMINAR

12:15pm—1:15pm, Tuesday, November 20, 2018
LD 265

Speaker: **Bikas Kumar Sinha**
Indian Statistical Institute Kolkata (Retired)

Title: **Reliability Estimation in Exponential Samples**

Abstract:

This is a study on unbiased estimation of the reliability $R(t) = \exp(-t/\lambda)$ based on a random sample of size n from an exponential population with unknown mean λ where $t(> 0)$ is given. We focus on estimation of $R(t)$ based on (i) Complete Sample, (ii) Failure-Truncated Sample, (iii) Time-truncated Sample. Time permitting, we also discuss about the problem of Prediction of Future Observation(s) Based on Exponential Samples.