

8th ANNUAL PROBABILITY AND STATISTICS DAY AT UMBC

FUNDED BY NATIONAL SECURITY AGENCY

FRIDAY, APRIL 18, 2014
ROOM 105, PUBLIC POLICY BUILDING

Workshop on
Analysis of Overdispersed Data using SAS[®]

Presented by
Dr. Jorge Morel
Procter and Gamble
Professor Nagaraj K. Neerchal
University of Maryland Baltimore County

FINAL PROGRAM

Program Chair: Anindya Roy, UMBC

1:00 PM – 2:00 PM

REGISTRATION: LOBBY, PUP BUILDING

2:00 PM – 2:15 PM

WELCOME

- **Bimal Sinha**, *Conference Chair, UMBC*

INTRODUCTION OF SPEAKERS

- **Thomas Mathew**, *UMBC*

2:15 PM – 3:45 PM

LECTURE 1:

- 1.1 Overdispersion: To be or not to be
- 1.2 Quasi-likelihoods and Generalized Estimating Equations
- 1.3 Example: All Mice Are Created Equal, but Some Are More Equal
- 1.4 Overdispersion Models for Binomial-type of Data: BB, RCB
- 1.5 All Mice Are Created Equal Example Revisited

3:45 PM – 4:15 PM

COFFEE BREAK

4:15 PM – 5:45 PM

LECTURE 2:

- 2.1 Overdispersion Models for Count Data: ZIP, Hurdle Models
- 2.2 Example: Urinary Tract Infections (UTI) in Men Infected with HIV
- 2.3 Example: Milk Does Your Body Good
- 2.4 Generalized Linear Overdispersion Models (GLOM)
- 2.5 Final remarks