THE GREAT LAKES CENTER

Buffalo State
State University of New York

SEMINAR
Presented by
Buffalo State College Great Lakes Center

Title: **"Some methods and statistical issues of Design of
Experiments in Ecological Systems"**
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Statistical Design of Experiments (DOE) is an efficient procedure for planning experiments so that the data obtained can be analyzed to yield valid and objective conclusions (NIST Hdbk: http://www.itl.nist.gov/div898/handbook/pri/section1/pri11.htm). DOE poses many challenges in general, and in environmental research it poses some special ones, given the characteristics of the activity. DOE basic tenant is that factors are controlled by the experimenter and randomly assigned to the subjects undertaking the experiment. This is not always possible in environmental research (and other areas such as social research). In the present talk, we will discuss how the DOE basic tenants interact with several environmental research conditions, how they can affect the corresponding inferences and what implementations can be used to cope with such situations. Several examples will be reviewed, to illustrate these situations.

Thursday, April 18, 2013
12:15 pm – 1:30 pm
Classroom Building, Room B119
Students, Staff, and Faculty are welcome
Light refreshments will be served.