



Interdisciplinary Consortium
for Applied Research in the
Environment

National Science Foundation
Research Training Grant

*Broadening Participation Across the
Environmental Sciences in & around
Baltimore Harbor*



Project Title: Reassessing magnitude and frequency of intense rainfall and urban flooding in connection with the State of Maryland's floodplain mapping and flood hazard management efforts

UMBC mentor name & department: Dr. Andrew Miller, Geography & Environmental Systems

Partner mentor name & institution: David Guignet, Maryland Department of Environment

Brief project description:

The Baltimore metropolitan area is home to some of the flashiest urban watersheds in the conterminous United States. Emerging evidence suggests that flood flows in some watersheds may now be responding to changes in frequency of intense precipitation associated with climate response to greenhouse warming. The goal of this project is to connect new information derived from research on magnitude and frequency of intense rainfall and urban flooding with the State of Maryland's ongoing efforts to produce digital floodplain maps that can be used to inform local decision-making.