

Fall 2009 Seminar Series

CHALLENGES AND INNOVATION IN CIVIL AND ENVIRONMENTAL ENGINEERING

Challenges of Surge and Wave Modeling for Pacific Islands

Jane McKee Smith

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Wednesday, November 4, 2009

129 DeBartolo Hall

4:30pm



Island coasts and populations are extremely vulnerable to tropical storms, but existing methodologies for analyzing hurricane/typhoon waves were developed for mainland coasts. Islands have special concerns such as adjacent deep water, very large incident storm waves, and fringing coral reefs. Coastal inundation calculation methodologies for island coasts have not received attention commensurate with the importance and complexity of the processes. Ongoing research on island wave and inundation measurements and modeling will be discussed.

Jane McKee Smith is a senior researcher at the US Army Engineer Research and Development Center, Vicksburg, Mississippi. She has PhD in Ocean Engineering from the University of Delaware and is an adjunct faculty member at University of Florida, Mississippi State University, and Texas A&M University. Dr. Smith's primary areas of research are near-coast wave, water level, and current modeling, and she has been involved in field, laboratory, and numerical modeling research.

A reception and an opportunity to meet the speaker will take place at 4:00pm before the seminar in the CE/GEOS conference room, Fitzpatrick 156

