lecture image

Special Guest Lectures

High Resolution Storm Surge Computer Modeling

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Institute of Marine Sciences
Johnston Hall 338
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Abstract:
While damage associated with hurricane winds and precipitation is often significant, the primary cause of catastrophic damage and loss of life in a hurricane is typically the storm surge. The basic physical principals behind storm surge have been recognized for at least 50 years and simple tools for storm surge computation have been available for over 40 years. The National Hurricane Center

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Speaker's Bio:
Rick Luettich received a Bachelor Degree and a Master of Science Degree in Civil Engineering from Georgia Tech and a Doctorate of Science in Civil Engineering from MIT. His dissertation research was an observational and modeling study of sediment resuspension dynamics in Lake Balaton, Hungary. He has been at the University of North Carolina at Chapel Hill, Institute of Marine Sciences, since 1987 where his research has focused on modeling and observational studies of physical and interdisciplinary processes in coastal systems. His modeling has emphasized the use of unstructured grid numerical techniques, which are optimized for geometrically complex systems such as sounds, estuaries and inlets, and have been tailored for high performance computing platforms. He is one of the principal developers of the ADCIRC circulation model which has been widely used for modeling tides and storm surge, including those caused by hurricanes Katrina and Rita, and for interdisciplinary studies such as larval transport. His observational studies in North Carolina

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