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**Speaker:** Jerry Bona  
University of Illinois at Chicago

Wednesday, October 16, 2013  
4:00 PM  
117 Hayes-Healy Hall

**Title:** Theory and Application of Water Wave Models

**Abstract:**

The history of the water wave problem from the perspective of mathematics starts already in the 18th century, but the subject comes to life in the mid-19th century. Today, the area has been incorporated into the fabric of mathematics, applied mathematics, physics, engineering and geophysics.

The lecture intends to sketch the history of the subject, indicate where the theory stands at the moment and then turns to applications of the mathematics. This will include tsunami propagation, rogue wave generation and sand bar formation, as time permits.