

UNIVERSITY OF NOTRE DAME  
DEPARTMENT OF PHYSICS

# NUCLEAR SEMINAR

Monday, February 26

## *Why does an Oceanography Institution have a Particle Accelerator?*

Dr. Mark Roberts  
National Ocean Sciences AMS Facility  
Woods Hole Oceanographic Institution

The National Ocean Sciences Accelerator Mass Spectrometry (NOSAMS) facility at the Woods Hole Oceanographic Institution provides analyses of  $^{14}\text{C}$  at natural abundance levels to the ocean sciences research community. Details of NOSAMS's two AMS systems and applications of the  $^{14}\text{C}$  AMS technique will be presented. Applications range from studies of circulation in the ocean to dating of pirate ships. Additionally, recent work to provide an alternative measurement of the  $^{14}\text{C}$  half-life will be discussed.

**4 pm – 5 pm**  
**Nuclear Science**  
**Laboratory**  
**124 Nieuwland**  
**Science Hall**

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All interested  
persons are  
cordially invited  
to attend

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Refreshments will be  
served prior to the  
seminar in room 124