

## From art forgeries to the formation of the solar system, challenges to Accelerator Mass Spectrometry



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Evolving from detection methods and techniques developed in nuclear physics, Accelerator Mass Spectrometry (AMS) is a highly sensitive detection technique developed to search for the proverbial nuclear “needle-in-the haystack”. This makes it possible to unambiguously identify specific radioactive ions that can provide information ranging from ocean current flows, to the age of archaeological artifacts and the birth and death of stars.

The talk will first present the AMS program at the Nuclear Science Laboratory (NSL) in the larger context of the Physics Department at the University of Notre Dame and will then concentrate on current challenges to the field as well new developments as well as outline challenges and future opportunities for the Nuclear Science Laboratory over a wide range of fields of application.

Wednesday

September 14

4:00 P.M.

Rm 118 NSH

Refreshments  
in Rm 202 NSH  
@ 3:30 pm