

UNIVERSITY OF NOTRE DAME
DEPARTMENT OF PHYSICS
COLLEGE OF SCIENCE

SPECIAL
NUCLEAR SEMINAR

Speaker: Prof. Kevin I. Hahn
Ewha Womans University, Korea

Title: *Prospects for Nuclear Astrophysics
Experiments in Korea*

Date: Thursday, April 4 2013

Time: 4:00pm EST

Place: Nieuwland Science Hall Room 124

*Refreshments will be served prior to the seminar in room 124.

ALL INTERESTED PERSONS ARE CORDIALLY INVITED TO ATTEND

Korea will build the next generation of the radioactive ion beam accelerator facility called RAON, which is a new name for KoRIA. It will produce various types of beams, for example, uranium at 200 MeV/nucleon, from a superconducting linear accelerator as well as 70 MeV protons from a 70 kW cyclotron. We will produce radioactive beams from both the projectile fragmentation method and the ISOL method. The RAON facility in Korea is expected to play an important role for understanding the mechanism and origin of heavy elements. The challenges and prospects of nuclear astrophysics experiments and the current status of RAON in Korea will be discussed.