

# PIXE-PAN@ND 2006

## Summer Science Program

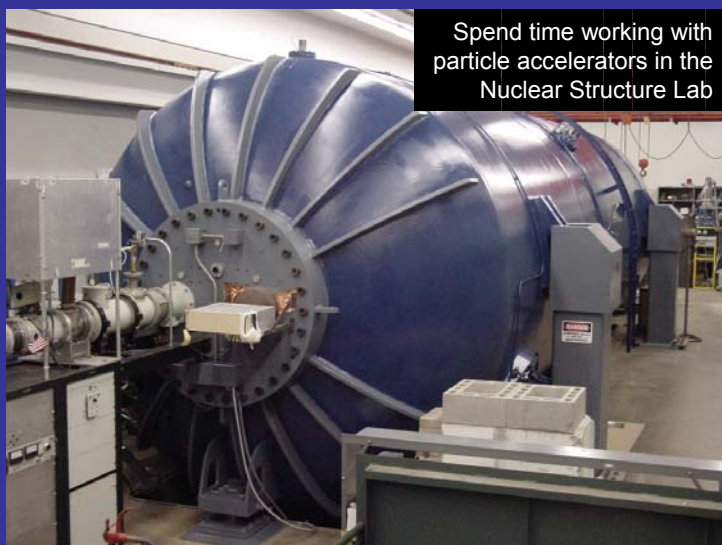
Joint Institute for Nuclear Astrophysics  
Nuclear Structure Laboratory @ University of Notre Dame

High School Science Teachers: June 12 - 23

High School Students: June 19 – 23

Apply on line at: [www.JINAweb.org/outreach/PIXE](http://www.JINAweb.org/outreach/PIXE)  
or contact Suzanne Coshow at 574.631.8297; [scoshow@nd.edu](mailto:scoshow@nd.edu)

Application deadline: April 15th



Spend time working with  
particle accelerators in the  
Nuclear Structure Lab

Use accelerator based X-RAY  
analysis of materials from art to  
archeological artifacts

**PIXE:** Proton Induced X-ray Emissions – an accelerator based technique to ascertain elemental abundances in the analysis of objects;

**PAN:** Physics of the Atomic Nuclei program, a successful educational outreach program for teachers and students @ MSU now in its 13<sup>th</sup> year

**PIXE-PAN:** a replication of the MSU program at ND, with a PIXE focus.