



Workshop Description

PAN (Physics of Atomic Nuclei) Underground Workshop* July 18-23, 2010 at Northern State University, Aberdeen, SD

To all teachers of physics, chemistry and physical science:

The Deep Underground Science and Engineering Laboratory, proposed for the former Homestake Gold Mine in Lead, SD, provides an unprecedented opportunity to change the face of science education in the state and the region. Subjects such as dark matter and neutrinos aren't normally covered in physical science curriculum, but can provide a fascinating 'hook' for students at all levels, and encourage them to seriously consider STEM (Science, Technology, Engineering and Math) careers.

But how does a busy teacher find the time to become comfortable with the content topics of modern physics? And how does one incorporate modern physics topics within the already crowded syllabus of most secondary science classes? This workshop will give you a headstart with lectures and activities around the topics of:

- ✓ Atomic Structure and Spectroscopy
- ✓ Nuclear Science and Forensics
- ✓ Nuclear Astrophysics
- ✓ Tools and applications

The workshop will begin Sunday, July 18th at 7:00 pm and end about noon on Friday, July 23rd. A \$500 stipend, travel and lodging and meals on the Northern State campus are included. An optional two units of graduate credit at reduced tuition will be available. Teachers who sign up for follow-up online workshops during the school year (topics will include particle physics and cosmology) will be eligible for up to two additional units of credit.

Workshop space is limited to 15 participants, so apply early!

To apply for this workshop, complete the enclosed application and return to:
pnorris@sanfordlab.org

For more information: Peggy Norris, Dep. Director Education, Sanford Lab at Homestake
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