

Soudan Underground Lab Education and Outreach

R. Gran, University of Minnesota Duluth

Public Tours



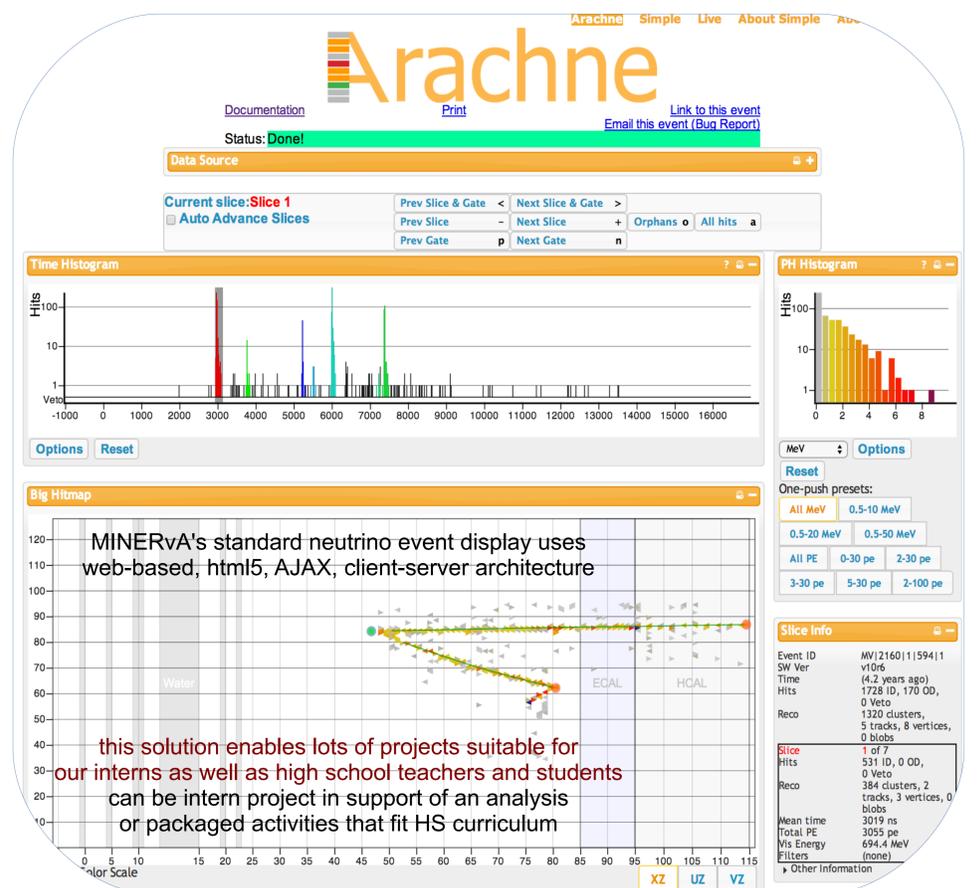
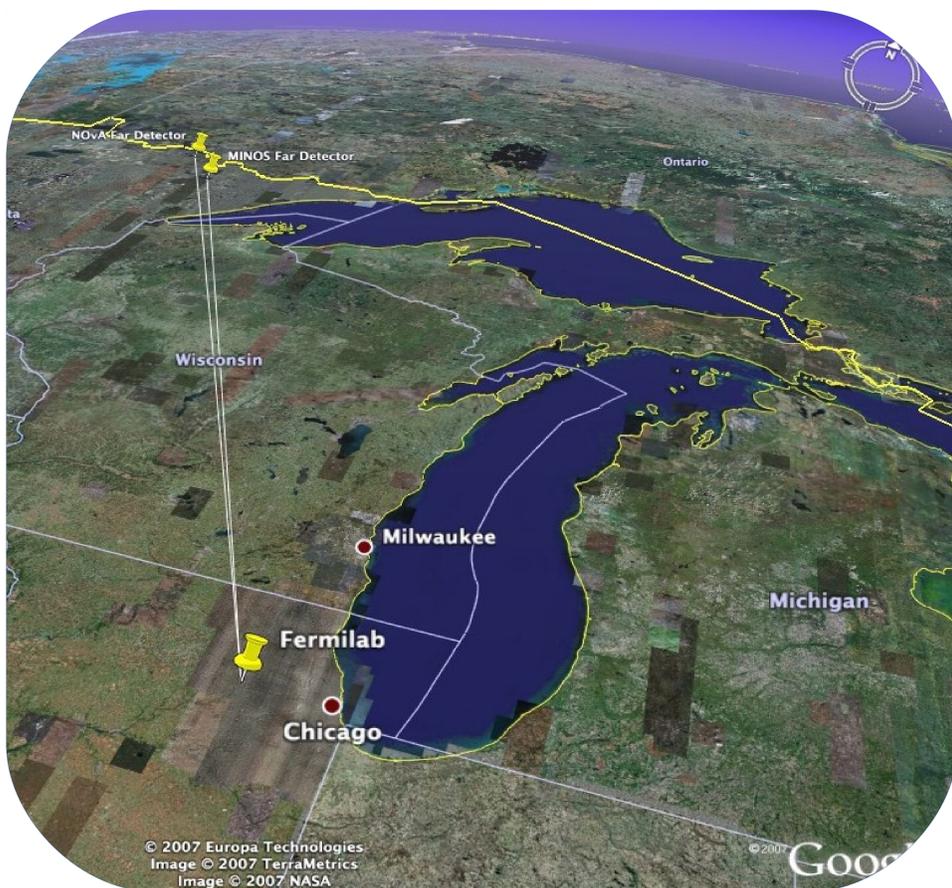
twice daily summer tours led by summer interns
day-long open house each May led by scientists
school groups visit throughout the year

mix of neighbors, school groups, vacationing public
recently expanded to include a Q/A guide at NOvA site
4000 yearly visitors

Undergraduate Interns and High School Teachers



We hire three interns and two high school teachers
many are physics students and science teachers
but consistently have other backgrounds in the mix
They lead the two tours per day but **pick up projects**
either in support of one of the experiments
or to improve outreach materials, posters.



N. Tagg et. al, "Arachne - A web-based event viewer for MINERvA", NIM A v. 676 (June 2012)
<http://minerva05.fnal.gov/Arachne/arachne.html> and <http://neutrino.otterbein.edu/minerva-classroom/>

Located in the Soudan Underground Mine State Park

was an iron ore mine, can take historical mine tour
former home of the Soudan2 experiment, now home of:

Main Injector Neutrino Oscillation Search (MINOS)

Cryogenic Dark Matter Search (CDMS)

Low Background Counting Facility (LCBF)

Not the location of, but close associations with the

NuMI Off-axis Electron Neutrino Appearance (NOvA) experiment

Main Injector Neutrino Experiment for ν -A (MINERvA)



www.soudan.umn.edu

UMD

UNIVERSITY OF MINNESOTA DULUTH
Driven to Discover

Successes and Challenges

25 year history

Soudan2 to MINOS then CDMS and now NOvA
was piecemeal funding now single-grant support
support includes 0.5 FTE outreach coordinator
reaches another 2000 people/year through talks

Incorporate NOvA more fully into program
manage transitions in experiments at the lab
maintain activities despite fewer scientists visiting
enhance school-year presence and opportunity