

Calendar

Monday, Sept. 17
12 p.m.

Neutrino Department Seminar
- Curia II

Speaker: Francois Vannucci,
University of Paris

Title: Search for Sterile
Neutrinos

2:30 p.m.

[Particle Astrophysics Seminar](#)

- Curia II

Speaker: P. Sandick,
University of Minnesota

Title: Neutralino Dark Matter in
the GUT-Less CMSSM

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO ALL
EXPERIMENTERS' MEETING
THIS WEEK

Tuesday, Sept. 18

10:30 a.m.

Summer Lecture Series - Curia
II

Speaker: L. Lederman, IMSA/
Fermilab

Title: A Crack in the Mirror: A
36-Hour Particle Physics
Experiment

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO
ACCELERATOR PHYSICS
AND TECHNOLOGY
SEMINAR TODAY

[Click here](#) for NALCAL,
a weekly calendar with links
to additional information.

Weather



Sunny 82°/61°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

Feature

Obama representative eyes Fermilab's economic future



Michael Kelleher (center), a representative from U. S. Sen. Barack Obama's office, toured Fermilab's accelerator tunnels and experiments last Friday.

A representative from the office of U.S. Sen. Barack Obama, D-Ill., toured Fermilab Friday, affirming a commitment to support the laboratory.

Michael Kelleher, the director of outreach and economic development in Obama's office, has toured the laboratory twice before as a friend of James Santucci, in the Accelerator Division.

He returned Friday to view the laboratory with a critical eye to its economic impact now, and potentially in the future. The laboratory has an annual budget of about \$340 million, a figure that would grow if Fermilab was to host the proposed International Linear Collider in the next decade.

"[Fermilab] has tremendous economic benefits to the state, and first and foremost Barack Obama is an Illinois senator. This is an asset we need to nurture and preserve," Kelleher said.

Santucci led Kelleher and other staffers on a whirlwind tour of accelerator tunnels and experiments at the laboratory.

Kelleher also received briefings on the proposal for the ILC and Fermilab's major role in the project's research and design. The tour incorporated a look at infrastructure for ILC research and development.

Kelleher met with scientists; Pier Oddone, Fermilab director; and Young-Kee Kim,

Safety Tip of the Week

Hand safety



Practicing proper hand safety by wearing protective gloves can prevent injuries.

The number of occupational hand injuries occurring at Fermilab has steadily risen over the past year. There were six in the fourth quarter of 2006, seven in the first quarter of 2007 and 14 in the third quarter of 2007. We have had 14 hand injuries in the fourth quarter of 2007 and we still have two weeks to go.

Several Fermilab safety personnel were consulted in preparation for this article. All agreed that worker failure to think about the potential consequences of their actions has been a major factor in these kinds of injuries. In addition, they offered the following advice.

TD Senior Safety Officer Rich Ruthe noted that specialized gloves are sometimes needed to obtain adequate protection while not adversely impacting the process. For example, his organization uses Kevlar gloves to prevent cuts from handling thin metal "shim" material. AD Security Officer Dave Cathey offered that workers have been injured when they remove their gloves in order to make fine adjustments. One solution is tight-fitting "mechanics gloves" that have recently become available. These can be purchased for a variety of applications, in a wide range of sizes, and in fashionable styles. Though they tend to provide somewhat less protection than heavy leather gloves, they are more likely to be worn because of their superior dexterity and comfort.

Hand safety can also be improved by using purpose-built cutting and ergonomic tools.

[Secon Level 3](#)[Wilson Hall Cafe](#)**Monday, Sept. 17**

- Minestrone
- Chicken & mushroom cheese steak
- Baked chicken enchiladas
- Pot roast
- Garden turkey
- Assorted slice pizza
- Szechwan green bean w/ chicken

[Wilson Hall Cafe Menu](#)[Chez Leon](#)**Wednesday, Sept. 19 Lunch**

- Danish open sandwiches
- Dill cucumber salad
- Cold lemon soufflé w/ shortbread

Thursday, Sept. 20 Dinner

- Grilled sea scallops w/maple cream
- Rack of lamb
- Celery root & potato mash
- Vegetable of the season
- Almond, yogurt & olive oil cake

[Chez Leon Menu](#)

Call x4598 to make your reservation.

[Archives](#)[Fermilab Today](#)[Result of the Week](#)[Safety Tip of the Week](#)[ILC NewsLine](#)[Info](#)

Fermilab deputy director. Oddone explained the laboratory's forthcoming proposal for Project X, an interim accelerator that might be built if the ILC is delayed.

Halfway through his full-day tour, Kelleher said he was impressed with the experiments he had seen. Kelleher's interest in science has made him a de-facto translator for much of the Illinois delegation, explaining why they should care about science, including high-energy physics. A consensus exists among legislators that the United States needs to catch up to other nations in the study of math and science.

"The economies in the last 500 years that have thrived and produced the highest standard of living are those that have captured technology and been at the leading edge," Kelleher said.

Keeping top scientists in Illinois at Fermilab and in the nation as a whole spurs industry and boosts the economy. "That infrastructure, the brains, is so important for Chicago," he said. "I don't know why anyone would want it to leave."

-- *Tona Kunz*

[In the News](#)**Tunnel vision**

From *Kane County Chronicle*, Sept. 16, 2007

BATAVIA – Momentarily blinded by the sun after emerging from the 350-foot shaft into the earth's crust where scientists blast a stream of high-energy particles to Minnesota, Roger Vernon of Aurora turned to peer at the access building.

"I can see something like this very easily in a residential neighborhood," he said.

Vernon, who represents Aurora's Big Woods/Marmion neighborhood, was one of the local representatives who toured Fermi National Accelerator Laboratory's underground Neutrinos at the Main Injector facility, NuMI for short.

The purpose wasn't sightseeing, nor was it learning how neutrinos change after being blasted through the earth from Batavia to a lab in northern Minnesota.

The tourists were members of the International Linear Collider Citizens' Task Force, a group of local officials and lab neighbors trying to

PPD Senior Safety Officer Martha Heflin adds that it can be difficult to assure the safety with home made tools. Whenever you have a choice, it's preferable to use "off the shelf" equipment.

[Safety Tip of the Week Archive](#)[Accelerator Update](#)**Sept. 7-14**

- MuCool: Electrical work and alignment behind schedule
- Main Injector: Has general startup plan
- TeV: Vacuum issues
- Recycler: Found the cause of vacuum bursts
- CDF: Will close end plug next week
- Alignment: Completed more than 100 rolls in the Tevatron

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

[Announcements](#)**Have a safe day!****A-0 parking lot closures today**

Today, the south half of the A-O lot will be closed for crack filling, seal coating and re-striping. Please use the far west Wilson Hall lot and the gravel over-flow lot across from Booster West for alternate parking. All work will be weather dependent.

Users' Office closed Friday

The Users' Office will be closed on Friday, Sept. 21, 2007, and will reopen on Monday, Sept. 24, 2007. If you need temporary access during the weekend, please see Dave Andersen in the Key & ID Office. Rental cars can be obtained by contacting Enrique Lopez at (847) 707-3643. Please contact [Borys Jurkiw](#), x4363.

Pine Street bike path closed

The Pine Street bike path will be closed Monday, Sept. 17, for paving. Paving is scheduled to take two days, weather permitting.

Register for ALCPG07

The joint meeting of the American Linear Collider Physics Group and ILC Global Design Effort will take place at Fermilab Oct. 22-26. The deadline to register is Oct. 12. A block of rooms has been reserved for meeting attendees at the Pheasant Run Resort in St. Charles. This block of rooms only will be held until Sept. 19. Meeting attendees are

Fermilab Today is online at:
www.fnal.gov/today/

Send comments and suggestions to:
today@fnal.gov

see whether a Fermilab tunnel under their homes would work.

[Read More](#)

In the News

Oldest stars may shed light on dark matter

From *Science Daily*, Sept. 14, 2007

The universe's earliest stars may hold clues to the nature of dark matter, the mysterious stuff that makes up most of the universe's matter but doesn't interact with light, cosmologists report.

The first stars in an early universe filled with moderately energetic, or "warm," dark matter would probably have developed in long strings, according to a study in the 14 September issue of the journal *Science*, published by AAAS, the nonprofit science society. In contrast, simulations with slow-moving, cold dark matter generally show the first stars forming in clumps.

Efforts are underway to find some of these ancient stars, so it's hypothetically possible that new star discoveries could help clarify whether the universe is made up of warm or cold dark matter.

[Read More](#)

encouraged to book your rooms soon. Questions? Contact [Cynthia M. Sazama](#). [More information](#)

Wanted: Graduate students for ALCPG07

Are you a graduate student who would like free food and a T-shirt? Volunteer to be a scientific secretary at the ALCPG/GDE meeting at Fermilab on Oct. 22-26. For details contact [Andreas Kronfeld](#).

Scottish country dancing

Scottish country dancing will meet in Kuhn barn this Tuesday, Sept. 18. Instruction begins at 7:30 p.m. and newcomers are always welcome. Most dances are fully taught and walked through. You do not need to come with a partner. More information is available by calling (630)840-8194 or (630)584-0825 or emailing folkdance@fnal.gov.

Blood drive results

A total of 117 pints of blood were collected during the Aug. 28 and Aug. 29 blood drive. Congratulations to all who participated.