

Calendar

Monday, September 13

11:00 a.m. Special Astrophysics Seminar - Curia II

Speaker: P. Hoeflich, University of Texas
Title: Physics of Type Ia Supernovae for Cosmology: I

2:30 p.m. Theoretical Astrophysics Seminar - Curia II

Speaker: C. Wagner, Argonne National Laboratory/University of Chicago
Title: Supersymmetry, Dark Matter and Electroweak Baryogenesis

3:30 p.m. DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

4:00 p.m. All Experimenters' Meeting - Curia II
Special Topic: NuMI/MINOS

Tuesday, September 14

3:00 p.m. Special Astrophysics Seminar - Curia II

Speaker: P. Hoeflich, University of Texas
Title: Physics of Type Ia Supernovae for Cosmology: II

3:30 p.m. DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

4:00 p.m. Accelerator Physics and Technology Seminar - 1 West
Speaker: A. Ruggiero, Brookhaven National Laboratory
Title: Proton Drivers

Wilson Hall Cafe

An Underground Adventure: NUMI Project Offers Weekly Tours for Employees and Users

Advance Registration Required



[A view inside the NUMI tunnel \(Click on image for larger version.\)](#)

Starting Wednesday, September 15, employees and users will have the opportunity to take a tour of the NUMI tunnel and the MINOS near detector hall. Tours will be available every Wednesday afternoon until the end of October. Two tours will be offered on September 15 at 2:30 p.m. and 3:30 p.m. Ten people will be allowed to sign up for each tour. A bus will pick up the tour groups in front of Wilson Hall and bring everyone back at the end of the tour. Employees and users must register in advance.

Each tour lasts for about an hour and a half and consists of a vigorous underground hike. An elevator ride will take the group down 140 feet at the MI-65 entry point, where employees and users can view the beamline that delivers protons to the two magnetic 'horns', whose peak power reaches 40 MegaWatts. The next part of the tour consists of a long walk down the decay tunnel, which is very damp and somewhat dark and cramped. Rock strata and newly

Safety Tip of the Week

Fire Safety Violations



[An exit path that was lost to storage. \(Click on image for larger version.\)](#)

On most work days, Jim Priest and Bill James of the ES&H Section conduct Highly-Protected Risk fire inspections. These HPR fire inspections are modeled after audits conducted by insurance companies for the private sector. Structures are reviewed on a one to three year cycle -- the greater the value or life safety risk, the greater the frequency. Many of the violations identified in these inspections can be grouped into a small number of categories. More importantly, most violations can be easily corrected and prevented.

HPR violations tend to fall into four broad categories: emergency egress, heat sources, housekeeping and equipment maintenance. In the event of a fire, people must be able to promptly exit a structure. Blocked or partially-blocked aisles or doors are found in the majority of inspections. "Most exit ways tend to start out just fine," said Priest. "Then space becomes a problem and they get squeezed down by storage and work activities." Another problem with egress is "invisible" exit signs: illuminated signs that

Monday, September 13

French Quarter Gumbo

French Dip w/ Horseradish Cream Sauce

\$4.75

Honey Garlic Pork Chop \$3.75

BBQ Roasted Quartered Chicken \$3.75

Italian Panini with Provolone \$4.75

Pizza \$2.75

Sweet n' Sour Chicken with an Egg Roll

\$4.75

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Weather



Partly Cloudy **84°/64°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

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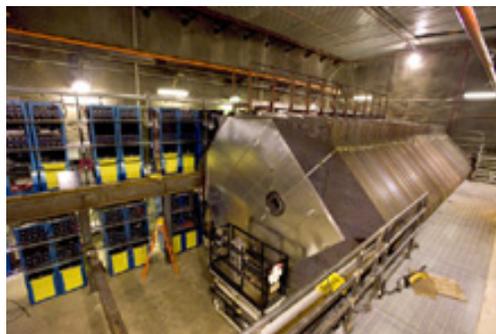
[Linear Collider News archive](#)

[Fermilab Today classifieds](#)

formed stalactites will be visible at various locations. The tour ends up 360 feet underground in the MINOS near detector hall, where 980 tons of steel and scintillator are waiting to observe their first neutrino interactions.

This tour is not for everybody, especially if you are claustrophobic, physically infirm or don't like to get wet. Parts of the tour involve stairs and walking down a slope, which will be similar to walking on a wet hiking trail. A dress code of hiking boots or sneakers and long pants is mandatory. Tank-tops and sleeveless shirts are not allowed. Employees and users who are not properly dressed will not be allowed to join the tour. A light coat is also recommended. Hard hats, eye protection, personal rescuers and flashlights will be handed out to each person.

Employees and users who would like to sign up for a tour should contact Nancy Lanning at edreg@fnal.gov or x5588. Please indicate which tour you would like to sign up for and provide contact information. The deadline to sign up for the September 15 tour is noon on September 15.



A view of the MINOS near detector while it was still under construction. (Click on image for larger version.)

Photo of the Day

Spider Season

are unlit or any sign that has become blocked from view.

People will often place heat sources too close to combustible materials. Electric space heaters, soldering irons, toaster ovens, and cigarettes are the most common offenders. "Most of the lab's space heater are UL-approved," said Bill James. "But they tend to be used in ways that violate the approval, such as insufficient space to combustible materials." Soldering irons and toaster ovens also seem to attract combustibles. It's not unusual to find napkins or food containers in contact with toaster ovens. A favorite violation of this sort is a paper sign taped to the oven that says something like "VERY HOT."

Have a great day and let's work safely all week!

[Safety Tip of the Week Archive](#)

Accelerator Update

- Beam Position Monitor upgrade in the Tevatron is 100% complete
- In the Linac, the High Energy RF maintenance, the mod VME fans and the drift tube tank #1 vacuum repairs are all 100% complete
- The rebuild of the area for the Debuncher injection area beampipe and quadrupole replacement in the Antiproton Source has begun.
- Vacuum modification at MI-62 is 100% complete

[Read the Current Accelerator Update](#)

[View the Tevatron Luminosity Charts](#)

Announcements



Spider webs in Fermilab's prairie (Photos courtesy of Mike Becker) (Click on images for larger version.)

In the News

From the *Chicago Tribune*, September 9, 2004

NIU plans 175-mile high-speed fiber-optic loop

Network would link Naperville, Batavia, DeKalb

By Jennifer Taylor

Northern Illinois University Wednesday announced plans to create an ultra-high-speed fiber-optic network that would link northern Illinois to technology currently available only at elite research facilities in Chicago.

Upcoming Classes

October 5 - Excel Intermediate
October 6 - Access Intermediate
October 19 - Word Advanced
[more information](#)

Open Enrollment for the Medical and Dental Insurance Plans

The open enrollment period ends September 20, 2004. The open enrollment form must be in by 5:00 P.M. on September 20, 2004. More information is [available online](#).

Scottish Country Dancing

Scottish Country Dancing will be held at 7:30 p.m., Tuesday, Sept. 14, at the Geneva American Legion Post. Newcomers are always welcome. Info at 630-584-0825 or 630-840-8194 or folkdance@fnal.gov.

4th Annual Writing Contest Reminder

Entries are welcome for Short Stories (between 500 to 5000 words), Short-short Stories (less than 500 words) and Poems (less than 50 lines). The winners will get cash prizes in the form of a bookstore gift cards. The entry form and rules of the contest are available online. Send your entries along with a signed form by October 4 to Dinker Charak (MS 369). The results will be announced by Oct 31. The winning entries will be published in 'Lumina,' the Writer's Club online magazine.

Upcoming Power Outages September 13

Wilson Hall (and all of Fermilab except for the Village and the Main Injector) will have no power for half an hour beginning around 7:00 a.m.

September 24

NIU officials are touting the plan as a huge boon to research and economic development efforts throughout the region.

The proposed non-residential network, dubbed NIUNet, would consist of a 175-mile fiber-optic loop stretching from DeKalb to Batavia to Naperville along Interstate Highway 88, connecting to Chicago, the I-WIRE Network, Argonne National Laboratory and other national research networks through Fermi National Accelerator Laboratory in Batavia. The network would then loop back along Interstate Highway 90 to Hoffman Estates and west to Rockford before heading south along Interstate Highway 39 to Rochelle and back to DeKalb.

[Read more](#)

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