

## Calendar

**Wed., January 17**

**10:00 a.m.** [ILC Detector Test](#)

[Beam Workshop](#) (day-long events, Jan. 17-19)

**3:30 p.m.** Director's Coffee Break - 2nd Floor Crossover

**4:00 p.m.** Fermilab Colloquium - 1 West

Speaker: S. Nagel, University of Chicago

Title: Singularities and Topological Phase Transitions in Fluids: Breaking Away, Selective Withdrawal and Islets in the Stream

THERE WILL BE NO FERMILAB ILC R&D MEETING THIS WEEK

**Thurs., January 18**

**2:30 p.m.** Theoretical Physics Seminar - Curia II

Speaker: R. Mahbubani, Fermilab

Title: Probing New Physics in Final States with Top Pairs and Missing Energy

**3:30 p.m.** Director's Coffee Break - 2nd Floor Crossover

THERE WILL BE NO ALCPG ILC PHYSICS AND DETECTOR SEMINAR THIS WEEK

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

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

## Weather



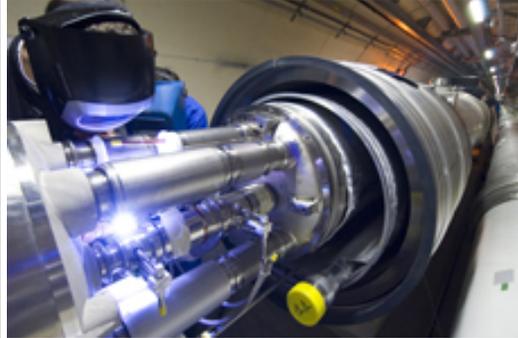
**Sunny 25°/17°**

[Extended Forecast](#)  
[Weather at Fermilab](#)

## Current Security Status

## Feature Story

### CERN to host Hadron Collider Physics Summer School



The application deadline is March 9, 2007.

Fermilab and CERN have collaborated to create an intensive training program that will provide postdocs and senior PhD students a clear picture of the theoretical and experimental components of collider physics. The Hadron Collider Physics Summer School first convened in August of 2006 at Fermilab, and the second school will take place from June 6-15, 2007 at CERN. The 2006 school provided a framework for understanding the theory behind hadron collisions, the structure of the main detector, the initial calibrations and samples, and the expected early LHC results based on current Tevatron analyses. The second school will expand on the first and focus more on the technology and physics of upcoming LHC experiments, with instruction from the best experts in the field.

Last year's school included 150 students from universities in 20 countries, and this year the organizers will accept 120 students, according to Gian Giudice, co-chairman with David Jacobs of the local organizing committee at CERN. These large class sizes are meant to increase the number of scientists contributing to experiments at the scale of the LHC.

"We need to prepare a new generation of physicists to do these experiments," said Bogdan Dobrescu (Fermilab), co-chairman with Michelangelo Mangano (CERN) of the school's international advisory committee. "You need a sustained effort over a number of years. Even two summers is not nearly enough time."

For further information, visit the 2007 Hadron

## From the Accelerator Division

### Let's focus



This column is written by Accelerator Division Head Roger Dixon.

I love using sports analogies. If we didn't use sports analogies to understand our lives, how would we justify all the time and money we spend on sports?

A case in point: We live in a world of distractions, each vying to knock us off course. This is especially true at Fermilab during these difficult times. We find ourselves in a predicament where we expect to do world-class science under gathering clouds such as job reclassifications mandated by law, a possible month-long furlough and an uncertain future for our laboratory. Though these problems are distressing, they are not unique to Fermilab or to these times.

In order for each of us to function effectively, we need to adopt a mental state similar to that of the best NFL quarterbacks. No matter how much pressure is put on a great quarterback by very large, terrifying people with poor dental hygiene and flames shooting out of their nostrils, the best ones are able to maintain their cool and focus. The trick is to ignore what might happen and to focus on what we want to happen. Once we can do that, we can do anything--or so they tell me. (I

[Secon Level 3](#)[Wilson Hall Cafe](#)**Wednesday, January 17**

-Italian Wedding with Meatballs  
 -Diner Style Patty Melt  
 -Chicken a la Mer  
 -Mongolian Beef  
 -Greek Chicken Panini with feta Cheese  
 -Assorted Slice Pizza  
 -Chicken with pesto Cream

[Wilson Hall Cafe Menu](#)[Chez Leon](#)**Wednesday, January 17 Lunch**

Mid-January Winter Blues  
 Dessert Luncheon

**Thursday, January 18 Dinner**

Steamed Mussels in White Wine and Thyme  
 Marinated Leg of Lamb  
 Ratatouille  
 Pear and Cranberry Strudel

[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 Today is online at:  
[www.fnal.gov/today/](http://www.fnal.gov/today/)

Send comments and suggestions to:  
[today@fnal.gov](mailto:today@fnal.gov)

Physics Summer School [web site](#).

--Christine Buckley

**Special Announcement****Another record**

At 3:30 p.m. last Friday, the Tevatron set another peak luminosity record with 258.2 E30. This is the third week in a row that the Tevatron has broken a [luminosity record](#).

**In the News****From Center Stage Chicago, January 15, 2007:**

**137 Films:** *The science documentary production crew discusses Fermilab, filmmaking and the questionable future of science.*

Art and science are often shaped by similar desires: to think outside the box, to provoke thought and probe for answers with intangible results. So the fact that 137 Films, a non-profit film production company dedicated to making science documentaries, hosted its most recent fundraiser in a Bucktown gallery was an understandable move.

[Read More](#)**In the News****From Science Daily, January 9, 2007:**

'God's particle' search Fermilab's last

BATAVIA, Ill., Jan. 9 (UPI) -- U.S. scientists at Fermi National Accelerator Laboratory in Illinois are near the supreme physics find: the subatomic particle that gives the universe mass.

The subatomic particle is called the Higgs boson and, according to physics theory, is linked to an invisible field filtering through the universe, the Chicago Sun-Times said Tuesday. As particles move, the field clings to them, making them heavy and creating mass.

[Read More](#)**In the News**

still freak at the nostril thing.)

Since we are not given big, diamond-studded rings or 25-million-dollar contracts, we must look for our motivation elsewhere. Of course, we all prefer to have a job. But there is more to working at Fermilab. Some of us are here for the love of science, and others are here because they are attracted to the technology or the work environment. These are all good reasons.

Whatever the reason, we have a great laboratory. To keep it that way we must not let distractions create anxieties that control our actions. Calm reasoning and a strong focus lead to serenity and success.

**Correction****Pi pole story**

Yesterday's story, "Preserving the pi poles," stated that Fermilab's pi pole power line provides 98 percent of the lab's power. The percentage actually varies from month to month, with a significant amount of power running through a separate line to the Main Injector.

**Accelerator Update****January 12 - 15**

- Four stores provided 65 hours and 10 minutes of luminosity
- Store 5175 set record with a luminosity of 258.23E30
- Beam sent to M01
- NuMI horn and beam permit problems
- Earthquake S-SW of Kuril Islands
- Pelletron vacuum and Electron cooling troubles

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

**Announcements**

## Read exciting news about Fermilab in French

France's premier newspaper, "Le Monde," recently published a dramatic story of Fermilab's search for the Higgs boson. For those whose French is rusty, the headline states, "Fermilab teams are back in the hunt for the Higgs boson."

Read the article (in French) [here](#).

## GSA Winter Ball

The Graduate Student Associate will host a Winter Ball on Friday, January 19, from 8 p.m. to midnight at Ida Noyes Hall at the University of Chicago. The ball is free for Fermilab graduate students and their guests. Contact Sarah Schloblohm at [sschlobo@nd.edu](mailto:sschlobo@nd.edu) to sign up.

## ILC Detector Test Beam Workshop and Poster Sessions

An ILC detector workshop will take place at Fermilab January 17 through January 19. Visit the [website](#) for a schedule, registration, and other information.

## Brief IMAP outage Thursday

There would be a brief IMAP outage Thursday morning as the IMAP servers need to be rebooted to apply operating system patches. The servers will be rebooted one at a time, starting at 6 a.m. Barring any problems, each server should be unavailable for less than 5-10 minutes.

## [Upcoming Activities](#)