

## Calendar

### [Have a safe day!](#)

Wednesday, Feb. 10

3:30 p.m.

DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over

4 p.m.

[Fermilab Colloquium](#) - One

West

Speaker: Richard Lindzen,  
Massachusetts Institute of  
Technology

Title: The Peculiar Issue of  
Global Warming

Thursday, Feb. 11

1:30-5 p.m.

Special LPC lecture - One West

Speaker: Dan Green, Fermilab

Title: Early LHC Data

2:30 p.m.

[Theoretical Physics Seminar](#) -

Curia II

Speaker: Elvira Gamiz,  
Fermilab

Title: Phenomenology of  
Neutral B-Meson Mixing and  
Decays Constants

3:30 p.m.

DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over

4 p.m.

[Accelerator Physics and](#)

[Technology Seminar](#) - One

West

Speaker: Eliana Gianfelice-  
Wendt, Fermilab

Title: Abort Gap Cleaning at  
LHC

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

[Upcoming conferences](#)

[Campaigns](#)

[Take Five](#)

[Tune IT Up](#)

## Special Announcement

### E-mail, Internet server outage explanation

At approximately 12:27 p.m. Tuesday, the emergency circuit that shuts off power to the computing rooms on Feynman Computing Center's first and second floors tripped, causing a sudden power outage.

The circuit that failed triggered an emergency system required by the National Fire Protection Agency code. This system also shut off the backup power. The emergency circuit that tripped is designed to shut off all power to the facility in case of a fire or other emergencies.

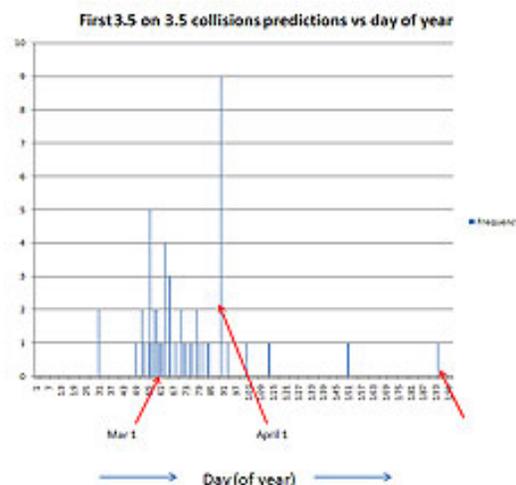
Since the machines were not able to go through the correct shutdown procedures, they did not recover smoothly. The laboratory's e-mail and Internet servers are controlled by computers in the building and were affected, causing widespread Internet and e-mail outages.

Two systems in particular were affected for the entire afternoon: the Exchange e-mail server and imapserver3.

The computers that control these systems have now recovered, and all servers are back online. No one should experience any loss of e-mail.

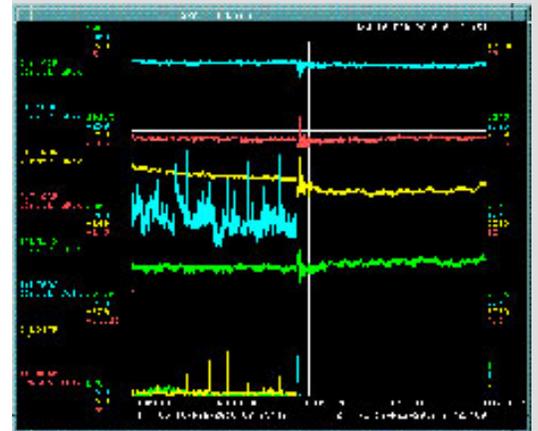
## Photo of the Day

### US CMS contest predicts first high-energy collisions at CMS



## Feature

### Northern Illinois quake rattles homes, Fermilab equipment



The plot shows the results from tilt meters strapped to Tevatron magnets that recorded the slight back and forth motion of the magnets due to the earthquake. The large light-blue area shows the beam prior to the earthquake. The light-blue lines stop when the earthquake began.

At 3:59 a.m. this morning, a 3.8-magnitude earthquake shook northern Illinois. The epicenter of the quake was located close to Gilberts, Ill., about 34 miles from Aurora.

A 5.2-magnitude quake hit downstate Illinois in April 2008. This morning's quake was the second worst to hit Illinois since 1968. Residents felt its vibrations across northern Illinois and into parts of southern Wisconsin.

Tilt meters strapped to Fermilab's magnets recorded the vibrations at the laboratory. The earthquake shook the magnets and caused the beam to strike a collimator, losing its store.

The Tevatron operations crew planned to dump the beam around 6 a.m. in order to gain access to the tunnel, so although the earthquake caused loss of the beam, it didn't hamper operations.

The plot shows the slight movement of the Tevatron magnets tilting back and forth at the time of the quake. The quake can be seen in the vertical section of the center of the plot. The large light-blue area on the left side of the plot indicates the beam, which halts at the time of the quake.

-- Rhianna Wisniewski

Read more about the quake in today's

**H1N1 Flu**

For information about H1N1, visit Fermilab's flu information [site](#).

**Weather**

 Blowing snow  
23°/11°

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

**Current Security Status****Secon Level 3****Wilson Hall Cafe**

Wednesday, Feb. 10  
- Breakfast: English muffin sandwich  
- Cajun style lentil soup  
- Cajun chicken ranch  
- Braised pork chops  
- Chicken parmesan  
- Smoked turkey panini pesto mayo  
- Assorted sliced pizza  
- Chicken alfredo fettuccine

**Wilson Hall Cafe Menu****Chez Leon**

Wednesday, Feb. 10  
Lunch  
- Mahogany beef stew w/red wine & hoisin sauce  
- Horseradish mashed potatoes  
- Baked apples

Thursday, Feb. 11  
Dinner  
- Closed

**Chez Leon Menu**

Call x3524 to make your reservation.

**Archives**

A plot shows the distribution of predictions of when the first high-energy collisions will take place at CMS.

When Jim Freeman needed to set the LHC Physics Center's countdown clock to predict the exact date and time for CMS to get its first high-energy collisions, he turned to a tried and true scientific method: create a contest.

He sent a call out to US CMS collaboration members and asked for their estimates as to when CMS will get its first 3.5 -on 3.5-TeV collisions. He requested specific dates and times using the time in Geneva, Switzerland. The results are in.

Around 55 collaboration members submitted guesses, yielding a noticeable peak on April 1. "Other than that, it's a pretty 'physics' looking distribution," Freeman said.

Will April Fool's Day throw everyone for a loop this year? Stay tuned....

-- *Elizabeth Clements*



Jim Freeman stands in front of the LPC's countdown clock.

**Special Announcement****URA Visiting Scholars applications due Feb. 19**

Applications for the spring 2010 cycle of awards in the Universities Research Association, Inc. (URA) Visiting Scholars Program at Fermilab are due Feb. 19. Successful applicants will be notified at the end of March. These awards provide financial support for faculty and students from URA's 87 member universities to work at Fermilab for periods of up to one year.

[Learn more](#)

**In the News**

[Chicago Tribune](#).

View statistics about the quake on the [USGS site](#).

**Safety Update****ES&H weekly report, Feb. 9**

This week's safety report, compiled by the Fermilab ES&H section, includes no recordable injuries. We have now worked 47 days since the last recordable injury. Find the full report [here](#).

[Safety report archive](#)

**Announcements****Latest Announcements**

[Kyuki-Do martial arts classes begin soon](#)

[Ask HR session at PPD today](#)

[Engineers Week kick-off at Fermilab - today](#)

[March 5 deadline for The University of Chicago Tuition Remission Program](#)

[Blood drive sign up](#)

[Service Award Program](#)

[2010 standard mileage reimbursement rate](#)

[Chicago Bulls discount tickets available online](#)

[Introduction to Argentine Tango series of classes - FREE](#)

[Qi Gong, Mindfulness and Tai Chi Easy for Stress Reduction](#)

[Fermilab blood drive Feb. 15 and 16](#)

[Excel 2007 Advanced class - Feb. 18](#)

[Ukrainian egg decorating class - Feb. 22](#)

[Weight Watchers at Work new session](#)

[BLAST! The Movie: intro, film and Q&A - Feb. 19](#)

[Fermilab Today](#)[Result of the Week](#)[Safety Tip of the Week](#)[CMS Result of the Month](#)[User University Profiles](#)[ILC NewsLine](#)[Info](#)[Fermilab Today](#)

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Send comments and

suggestions to:

[today@fnal.gov](mailto:today@fnal.gov)

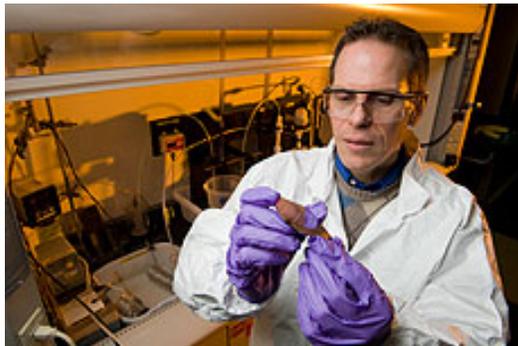
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## Scientists explore the future of high-energy physics

From *The University of Chicago*,

Feb. 8, 2010



Fermilab scientist Lance Cooley, works with niobium to create the next generation of high-energy physics experiments.

In a 1954 speech to the American Physical Society, the University of Chicago's Enrico Fermi fancifully envisioned a particle accelerator that encircled the globe. Such would be the ultimate theoretical outcome, Fermi surmised, of the quest for the ever-more powerful accelerators needed to discover new laws of physics.

"How much energy you can put into a particle per meter corresponds directly to how big the machine is," says Steven Sibener, the Carl William Eisendrath Professor in Chemistry and the James Franck Institute at UChicago. This means that future accelerators must either grow to inconceivable sizes, at great costs, or they must somehow pump far more energy into each particle per meter of acceleration than modern technology will allow.

Sibener and Lance Cooley, AB'86, of the Fermi National Accelerator Laboratory, are working on the latter option with \$1.5 million in funding from the U.S. Department of Energy. They aim to improve the efficiency of superconducting radio frequency (SRF) cavities made of niobium to accelerate beams of subatomic particles in the next generation of high-energy physics experiments.

[Read more](#)[Applications accepted for awards in URA Visiting Scholars program](#)[Fermilab Management Practices seminar beginning - Feb. 11](#)[Fermilab Family Open House - Feb. 21](#)[Python Programming class - Feb. 24-26](#)[Conflict Management and Negotiation Skills - March 3 and 10](#)[Adobe Acrobat Professional 9.0 Level 1 class - March 4](#)[On-site housing for summer 2010 - March 8 deadline](#)[DreamWeaver CS3: Intro offered March 9 or March 16](#)[Adaptive Leadership: Coaching for Individual Differences class - March 9](#)[Excel Power User/ Macros class - March 11](#)[Hiring summer students for 2010](#)[FRA Scholarship 2010](#)[Additional activities](#)[Submit an announcement](#)