

## Calendar

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

Friday, June 5  
11 a.m.

[Special Theoretical Physics Seminar](#) - Curia II (NOTE DATE and TIME)  
Speaker: Octavian Micu, TU Dortmund  
Title: Explaining LSND and MiniBooNE Using Altered Neutrino Dispersion Relations  
Noon

[Special Outreach Colloquium](#) - Auditorium (NOTE DATE, TIME & LOCATION)

Speaker: Michael Turner, University of Chicago  
Title: Communicating the Excitement of Science  
3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over  
4 p.m.

[Joint Experimental-Theoretical Physics Seminar](#) - One West

Speaker: Gene Flanagan, Purdue University  
Title: First Observation of Vector Boson Pairs in a Hadronic Final State at CDF

Monday, June 8  
2:30 p.m.

[Particle Astrophysics Seminar](#) - Curia II

Speaker: Eun-Suk Seo, University of Maryland  
Title: High-Energy Frontier of Direct Cosmic Ray Measurements  
3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over  
4 p.m.

All Experimenters' Meeting - Curia II  
Special Topics: Operating Procedures to Improve Antiproton Production; Tests of Fast Timing Detectors in the Meson Test Beam

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

## Weather

## Special Announcement

### Michael Turner to speak at Outreach workshop today



Michael Turner

The Outreach Workshop continues today with a colloquium by University of Chicago theoretical astrophysicist Michael Turner will give a colloquium about outreach at noon in the Auditorium. A series of panel discussions will follow. A public outreach panel will take place from 1:30 p.m. - 2:30 p.m., an education panel from 2:30 p.m. - 3:30 p.m. and a government outreach panel from 3:30 - 4:30 p.m.

[Learn more](#)

## Feature

### Shutdown begins June 15, preparations underway



A worker repairs the Electron Cooling Beamline Assembly in Main Injector Tunnel. Fermilab employees and contractors will conduct repairs, upgrades and regular maintenance during the Accelerator Complex shutdown beginning June 15.

The Accelerator Complex will shutdown June 15 after essentially 20 months of running.

The 11-week shutdown allows for a series of repairs, replacements and upgrades to the accelerator and detector components in order to keep the complex performing well.

Maintenance jobs account for the majority of the projects planned for completion during the shutdown. Four larger projects are also planned. Crews will remove dirt in order to punch a hole in the Main Injector ceiling to add conduits for NOvA, fix Tevatron magnets in six houses, place a drift tube in the Linac and replace 36 Booster corrector magnets.

"The shutdown is a huge event and requires the work of

## In Brief

### Users' Meeting recap: Day 1

Fermilab hosted the 42nd annual Users' Meeting this week. The two-day schedule was packed with lectures, presentations and social activities. On Wednesday, June 3, the first day of the meeting, attendees heard updates from experiments here and abroad, overviews of funding agency budgets and programs and presentations from the URA Thesis Prize and the Tollestrup Award winners. Other highlights on Wednesday included: a public lecture on plasma waves and the Intensity Frontier, a demonstration of singing Tesla coils, and an Indian and Italian Festa in Kuhn Barn.

Streaming video from each of the lectures will be available next week.

Slides from each of the lectures are available on the [full agenda](#) Web page.



Fermilab's Jeff Larson and The Masters of Lighting team member Steve Ward put on a Tesla coil demonstration Wednesday, June 3, as part of the Users' Meeting.

[Read More](#)

## In the News

### Perspectives

From the **CERN Bulletin**, June 5, 2009

**Editor's note:** Fermilab Director Pier Oddone wrote the Director's Corner that appeared in today's CERN Bulletin, the second of an occasional series of exchanges. Read his column [here](#).

Globalization is part of the early 21st century zeitgeist, but for particle physics it's nothing new. Our field has always worked globally..



Pier Oddone

 Sunny  
73°/53°

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

[Current Security Status](#)

[Secou Level 3](#)

[Wilson Hall Cafe](#)

Friday, June 5

- Chunky vegetable soup w/orzo
- Buffalo chicken wings
- Cajun breaded catfish
- Teriyaki pork stir-fry
- Honey mustard ham & swiss panini
- Assorted sliced pizza
- \*Carved turkey

\*Carb restricted alternative

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Wednesday, June 10

Lunch  
- Closed

Thursday, June 11

Dinner  
- unavailable

[Chez Leon Menu](#)

Call x3524 to make your reservation.

[Archives](#)

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

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employees from divisions, sections and centers across the laboratory," said Bob Mau, head of the accelerator operations department. "We're going to pull employees from many parts of the laboratory, which means that responses to some normal requests will take longer than usual."

Although the shutdown will officially begin on June 15, the complex has already begun reducing beam and will shut of experiments and Accelerator Complex sections next week. Beam to NuMI, the Booster and the Main Injector will shut off on Saturday, June 13 and to the Tevatron on Sunday, June 14.

A series of power outages are also planned for the first to the master substation from 7-7:30 a.m. on Monday, June 22. More information about that and future outages will be available in *Fermilab Today*.

### Special Announcement

## East gate closed June 22-26

Between early morning on June 22 and late afternoon on June 26 Fermilab's East entrance will be closed to allow Canadian National Railway to make repairs to the tracks and crossing in that area. All traffic that normally enters through that gate will need to enter through the Pine Street or Wilson Street gates on the West side. Check Fermilab Today for updates.

### In the News

## New theory postulates galaxy-sized neutrinos, expanding since the beginning of time

From *Popular Science*, June 3, 2009

Of all the subatomic particles that make up matter, neutrinos are the smallest. So small, in fact, that a billion neutrinos pass through your body every second without hitting a single atom. However, a new study postulates that some ancient neutrinos, born shortly after the Big Bang, may now be as large as some galaxies.

The study, first reported by National Geographic, claims that as the universe expanded, the neutrinos generated by the Big Bang stretched along with the fabric of space-time. Now, after being distorted by 13.7 billion years of cosmic expansion, those original neutrinos could be as large as ten billion light years across.

[Read more](#)

Read the rest of Pier's Director's Corner in the [CERN Bulletin](#).

### Announcements

#### Latest Announcements

[Discount for SciTech summer camps - July 6](#)

[Scrapbooking open house](#)

[Winners of the Asian/Pacific quiz contest](#)

[Pool memberships are available in the Recreation Department](#)

[New URA e-mail address](#)

[Argentine Tango Classes through June 24](#)

[Discount tickets to "1964"...Beatles tribute - June 6](#)

[Accelerated C++ Short Course: registration open - June 8](#)

[International folk dancing - cancelled June 4, resumes at Auditorium June 11](#)

[Python training June 17-19](#)

[Toastmasters meeting June 18](#)

[NALWO "A Summer Evening Potluck Picnic"](#)

[English Country Dancing, June 21](#)

[Donors needed for Fermilab Blood Drive June 23 & 24. Give a pint - Get a quart of Oberweis ice cream](#)

[Microsoft Office 2007 help at the Library](#)

[Environmental Safety and Health Fair - June 29](#)

[Process piping \(ASME B31.3\) class offered in October](#)

[Discounted Rates at Grand Geneva Resort, Lake Geneva, WI](#)

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Programming July 22-24](#)

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