

## Calendar

[Have a safe day!](#)

Wednesday, June 10  
3:30 p.m.

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

[Fermilab Colloquium](#) - One  
West

Speaker: Andrea Latina,  
Fermilab

Title: In conjunction with the  
Low Emittance Muon  
Collider Workshop: CLIC  
Project Overview

Thursday, June 11  
2:30 p.m.

[Theoretical Physics  
Seminar](#) - Curia II

Speaker: Yeong Gyun Kim,  
Korea Advanced Institute of  
Science and Technology

Title: Mass and Spin  
Measurements with mT2 at  
the LHC

3:30 p.m.

DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over  
THERE WILL BE NO  
ACCELERATOR PHYSICS  
AND TECHNOLOGY  
SEMINAR TODAY

4 p.m.

Extreme Beam - Physics at  
the Intensity Frontier

Lecture Series - One West\*  
Speaker: Steve Holmes,  
Fermilab

Title: Project X: A Multi-MW  
Proton Source at Fermilab

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

## Weather



Cloudy  
70°/51°

[Extended Forecast](#)

## Special Announcement

## DASTOW today

Fermilab's Daughters and Sons to Work  
day kicks off this morning with a group  
photo at 8:45 a.m. in front of Wilson Hall.

A bevy of events highlighting science and  
ecological aspects of the laboratory are  
scheduled until 2:30 p.m. For a complete  
[schedule of events](#) and to see photos from  
previous DASTOWs, see the DASTOW  
[Web page](#).

The Fire Department also will bring a note  
of safety to the day by giving children a  
chance to learn the proper way to escape a  
fire by crawling through a 20-foot smoke  
house. Future firefighters can try their  
hands at using the department hoses to  
put out a small blaze.

The cafeteria staff will provide a hotdog  
lunch for attendees.

This is a great chance to expose children  
to career options, offer them insight into  
your work day and just plain have fun.

## Feature

Susan Werner brings folk  
to Fermilab

Award-winning singer [Susan Werner](#)  
brings her blend of folk, gospel and R&B to  
Fermilab's Ramsey Auditorium at 8 p.m.  
Saturday.

During the course of her colorful career,  
Werner has cultivated a reputation as a  
daring and innovative songwriter with a  
killer live show. She boldly endeavors to  
weave old with new to create altogether  
new genres of music. Most of her work  
infuses traditional music styles and  
methods with her unmistakable  
contemporary worldview, constantly  
challenging listeners to experience music  
from a fresh perspective. The *Chicago  
Tribune* has called her "the most innovative  
songwriter working today."

Her album 2004 releases "I Can't be New"  
ranked as the No. 1 album on Amazon.com  
and her album "The Gospel Truth" was  
named the 2007 Top Folk Album of the

## From the Fermilab CMS Center

Training opportunities for  
collaborators

*Lothar Bauerdick, head of the CMS Center  
at Fermilab, wrote this week's column.*

This summer, several  
programs will prepare  
our collaborators and  
students for the  
upcoming data analysis  
phase of the CMS  
experiment. Many  
postdocs from Fermilab  
and U.S. universities  
are attending the joint [Fermilab-CERN  
Hadron Collider Physics Summer School](#),  
which is taking place at CERN right now.



Lothar Bauerdick

From August 3-5, the LHC Physics Center  
at Fermilab is organizing its next "J-TERM"  
course. The program will include  
presentations on physics topics for the  
early data taking and show what  
constitutes a full data analysis with  
examples from CDF and DZero. The  
program will feature both physics lectures  
and technical instructions, such as a  
presentation on common physics tools and  
beginner's and advanced hands-on  
tutorials.

[In his talk](#) at the Fermilab Users' Meeting  
last week, CERN's Sergio Bertolucci  
presented the enormous progress of the  
LHC on its way to high-energy collisions  
later this year. After the tight installation  
schedule last year, the shutdown after last  
year's LHC incident has given CMS the  
opportunity to install the last missing  
detector components and to make detector  
improvements. For example, the 6 percent  
of readout channels of the forward pixel  
detector that didn't work could be repaired  
and now 99.5 percent of all channels are  
working.

The CMS collaboration has learned an  
incredible amount about detector  
performance from recording and analyzing  
cosmic-ray events. Some 300 million  
events taken with the full detector and  
magnetic field switched on have led to  
detailed studies of calibration, timing,  
efficiencies as well as increased

[Weather at Fermilab](#)[Current Security Status](#)[Secon Level 3](#)[Wilson Hall Cafe](#)

Wednesday, June 10

- Chicken noodle
- Steak sandwich
- \* Maple Dijon salmon
- Mongolian Beef
- California club
- Assorted sliced pizza
- Chicken pesto pasta

\*Carb restricted alternative

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Wednesday, June 10

Lunch

- Spicy tilapia w/ pineapple pepper relish
- Basmati rice
- Blueberry custard parfait

Thursday, June 11

Dinner

- Closed

[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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[www.fnal.gov/today/](http://www.fnal.gov/today/)

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

Year by NPR/Folk Alley and WUMB. She was named Best Contemporary Folk Artist at the 2008 International Folk Alliance music conference.

For more information see the Fermilab [Art Series Web site](#). For telephone reservations, call 630/840-ARTS. Tickets are \$18 for adults and \$9 for ages 18 and younger.

[In the News](#)

## Chinese Scientists Hope to Make Deepest, Darkest Dreams Come True

From **Science**, June 2009

Particle physicist Yue Qian had his eureka moment in front of the TV set. For over a decade, Chinese scientists have longed for an underground laboratory that would enable them to join efforts across the globe to detect dark matter, observe neutrinos, and watch for exotic particle physics phenomena. Searches for suitable sites repeatedly came up empty-handed. But last August, after Yue caught a news report on the completion of two tunnels piercing Jinping Mountain in Sichuan Province, he felt that the long quest for such a lab might finally be over.

After months of negotiations, on 8 May Tsinghua University in Beijing, where Yue is an associate professor, signed an agreement with the tunnels' owner, Ertan Hydropower Development Co., to hollow out an experimental chamber. The Jinping lab would be the deepest underground science facility in the world, edging out—by 100 meters or so—the Deep Underground Science and Engineering Laboratory that the U.S. National Science Foundation may build in an abandoned mine in Lead, South Dakota. By placing sensors deep in the earth, physicists hope to reduce spurious signals from cosmic rays. China's subterranean aspirations have been circulating in Asia for months; the international community will get its first glimpse of the project at a dark-matter workshop in Shanghai on 15 June and at an astroparticle and underground physics conference in Rome next month.

An underground lab has been a dream for several generations of Chinese scientists, says Wang Yifang, a particle physicist at the Institute of High Energy Physics of the Chinese Academy of Sciences in Beijing.

robustness of our software and detector systems. One result is that we now know the alignment of the CMS silicon tracker detector to 25-30 micrometers, a precision that otherwise would have had to wait for about 50 inverse picobarns of particle collision data.

Cosmic-ray data taking restarted last week, and the Remote Operations Center at Fermilab is again full of activities. From our center, we are taking remote detector, data quality and computing shifts. In early July, CMS will close its detector and begin a series of magnet tests and cosmic-ray runs. This fall, this will segue into taking data of colliding beams.

[Safety Update](#)

## ES&H weekly report, June 9

This week's safety report, compiled by the Fermilab ES&H section, lists one injury reported to the Medical Office that occurred while the person was outside of the United States. It has been 10 days since the last recordable injury. Find the full report [here](#).

[Safety report archive](#)

[Announcements](#)

### Latest Announcements

[Users Office Closures today and Friday, June 12](#)

[Barnstormers meeting today](#)

[Bike to Work Week is June 13-19](#)

[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](#)

[Python training June 17-19](#)

[Toastmasters meeting June 18](#)

Visit the Fermilab [home page](#)

Past candidate sites, including an underground aviation museum near Beijing and coal and gold mines around the country, all were judged too shallow or impractical.

Jinping, on the other hand, "looks ideal," Wang says. The lab would have approximately 2500 meters of marble and sandstone above it: more shielding than any similar site in the world. Researchers will be able to make a 1-hour drive from a regional airport to the lab's front door. And the tunnels are sized for construction equipment, promising smooth delivery of instruments and supplies.

[Read more](#)

[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](#)

[Intermediate/Advanced Python Programming July 22-24](#)

[Science Adventures for children](#)

[Additional Activities](#)

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[Submit an announcement](#)