

Calendar

[Have a safe day!](#)

Friday, Oct. 2

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

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

Speaker: Fabrice Couderc,
 CEA Saclay
 Title: MSSM Higgs Boson
 Searches at DZero

Monday, Oct. 5

2:30 p.m.
[Particle Astrophysics Seminar](#)

- One West
 Speaker: Shirley Ho, Lawrence
 Berkeley National Laboratory
 Title: The Signature of Baryon
 Acoustic Oscillations and
 Primordial Non-Gaussianities
 on Lyman-Alpha Forest

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

All Experimenters' Meeting -
 Curia II
 Special Topics: Status of the
 COUPP two-liter detector;
 CMS/LHC Report

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

Campaigns

Take Five

Tune IT Up

Weather

 **Chance of showers**
 58°/45°

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

Feature

Beijing launches ROC



Physicists use the new Asian remote operations center, located at the Institute of High Energy Physics in Beijing, China.

A new CMS remote operations center is now online at the Institute of High Energy Physics in Beijing, China.

The Beijing ROC made its first remote connection to the Fermilab ROC on July 14.

"They had pretty good data transmission," said Dan Green, Fermilab scientist and chair of the CMS collaboration board.

Fermilab pioneered the concept of CMS remote operation centers. DESY, a German particle physics laboratory, created a facility modeled after the Fermilab ROC.

Having a ROC in Asia will allow nearby scientists to take shifts when scientists at CERN or DESY would normally be sleeping. Scientists at IHEP expressed interest in getting involved with remote operations for CMS, and asked Fermilab for advice.

"IHEP has a big computing center, very professional computing people and they know what it takes to run an experiment," Green said.

These are crucial ingredients for a ROC capable of monitoring detector subsystems, Green said.

Fermilab began discussions with IHEP about building a ROC when Green and other Fermilab scientists visited China in March 2008. During the next 15 months, remote operations experts at Fermilab led by Kaori Maeshima, U.S. CMS remote operations

Recovery Act Feature

Crews pour first concrete at NOvA site



Construction crews began pouring the foundation on Sept. 29. *Image courtesy of William Miller.*

The future home of the NOvA neutrino detector facility is beginning to take shape in northern Minnesota.

Construction workers began Tuesday pouring the concrete foundation at the site near Ash River, Minn.

The American Recovery and Reinvestment Act provided \$40.1 million for the civil construction project.

Workers from Minnesota construction company Adolfson & Peterson prepared to pour the foundation for the service building, the smaller of the two sections of the NOvA facility, Sept. 25. They poured the first concrete over jagged rocks at the bottom of the blasting site to create a level base.

"During a blasting operation, you live with wherever the rock fractures and breaks," said Tom Dykhoff, senior superintendent for Adolfson & Peterson.

The unique blend of different types of granite at the site has presented a challenge. Bands of gray, black and pink rock intertwine and jut out at different angles from the blasting pit.

Each type of granite has its own tensile strength, the strength with which the particles are bonded together.

"When you put an explosive force against rock that has dissimilar tensile strengths, they react differently," Dykhoff said. "One will break in

Current Security Status
Secon Level 3
Wilson Hall Cafe
Friday, Oct. 2 - Italian vegetable soup - Teriyaki chicken - Southern fried chicken - Mediterranean baked tilapia - Eggplant parmesan panini - Assorted slices of pizza - Sub sandwiches
Wilson Hall Cafe menu
Chez Leon
Wednesday, Oct. 7 Lunch - White bean-rajas soup - Chicken and cheese quesadillas - Green salad - Tres leches cake
Thursday, Oct. 8 Closed
Chez Leon menu Call x3524 to make your reservation.
Archives
Fermilab Today
Result of the Week
Safety Tip of the Week
User University Profiles
ILC NewsLine
Info

coordinator, served as consultants for the Beijing team.
The Beijing ROC is operational just in time for the upcoming LHC restart.

"Now indeed, the sun never sets on CMS ROCs," Green said.
--*Miriam Boon*

Special Announcement

Prairie Seed Harvest tomorrow

From 10 a.m. to 2 p.m. Saturday you can take your green-thumb skills to a new level to help restore Fermilab's prairie by collecting native seeds. Some of the seeds replenish nature areas at the laboratory while others help build prairies at area schools. Enter at Pine Street and follow signs to the harvest. Wear field clothes and gloves. Bring hand clippers and paper bags. A picnic lunch will be provided. If you plan to bring a group, contact Roads and Grounds' Bob Lootens at lootens@fnal.gov. A second prairie harvest is scheduled for Oct. 31.

Click [here](#) for more information.

In the News

FY 2010 DOE Office of Science Appropriations Bill

From American Institute of Physics, Oct. 1, 2009

House and Senate conferees have completed work on the final FY 2010 Energy and Water Development Appropriations Bill. The House passed this \$33.5 billion legislation today; the Senate may vote next week. At this point in the process, only an up-or-down vote is permitted, so H.R. 3183's provisions are final. President Obama is expected to sign this legislation.

Today is the start of FY 2010, and only one of twelve appropriations bills has been passed. This bill contains a provision that will continue funding at current rates for another month while additional appropriations bills are passed.

Total funding for the Energy and Water Development Appropriations Bill increased by less than 1 percent, or \$200 million, over last year's funding. Funding for the Department of Energy increased by \$318 million to \$27.1 billion.

one direction and another will break in another direction, so it seems like they want to break apart at the seams."

Workers have blasted to a depth of almost five feet below the surface for the service building area and to more than 20 feet for the main detector enclosure.

Today the crew plans to begin the last set of blasts to take the detector enclosure to its final depth of 40 feet below the surface. The next challenge will be to place as much of the foundation for the service building as possible before temperatures drop too low in Minnesota to continue working with concrete.

-- *Kathryn Grim*

Visit Fermilab's [Recovery Act Web site](#).

Announcements

Latest Announcements

[Interpersonal communication skills class - Oct. 21](#)

[Access 2007 intro class - Oct. 20](#)

[Conflict management and negotiation skills - Oct. 28, Nov. 11](#)

[Facilitating meetings that work - Nov. 4](#)

[Discounted Fright Fest tickets begin Oct. 9](#)

[NALWO annual Autumn Potluck Luncheon today](#)

[Annual Enrollment began yesterday](#)

[Day of Astronomy in Aurora - Oct. 3](#)

[Prairie Seed Harvest - Oct. 3](#)

[English country dancing - Oct. 4](#)

[On-site prescription eyewear technician dates of absence](#)

[Yoga class begins Oct. 6](#)

[Muscle Toning class begins Oct. 6](#)

[Mentors wanted for Diversity Office's FermiLINK program](#)

[Excel Shortcuts class - Oct. 13](#)

Fermilab Today
is online at:
www.fnal.gov/today/

Send comments and
suggestions to:
today@fnal.gov

Visit the Fermilab
[home page](#)

[Read more](#)

[Thai Village restaurant discount](#)

[Fermilab hosts Workshop on Applications of High-Intensity Proton Accelerators - Oct. 19-21](#)

[Buttered Rum performs on Fermilab Arts Series - Oct. 24](#)

[Fred Garbo Inflatable Theatre at Fermilab Arts Series - Nov. 7](#)

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

["The Night Before Christmas Carol" at Fermilab Arts Series - Dec. 5](#)

[Sign up for fall Science Adventures classes](#)

[Submit advance leave agreement form](#)

[Scottish Country Dancing Tuesday evenings at Kuhn Village Barn](#)

[Weight Watchers at work coming soon](#)

[International folk dancing Thursday evenings at Kuhn Village Barn](#)

[Additional Activities](#)

[Submit an announcement](#)

Classifieds

Find new [classified ads](#) on *Fermilab Today*.