

Calendar

Fri., April 20
3:30 p.m.

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

4:00 p.m.

 Joint Experimental-Theoretical
 Physics Seminar - 1 West
 Speaker: D. Waters, University
 College London

 Title: Measurement of the W
 Width at CDF

Sat., April 21
Noon

 Severe weather seminar with
 Tom Skilling - Auditorium

6:00 p.m.

 Severe weather seminar with
 Tom Skilling - Auditorium

Mon., April 23
2:30 p.m.

 Particle Astrophysics Seminar
 - Curia II

 Speaker: S. Profumo,
 California Institute of
 Technology

 Title: Probing Supersymmetric
 Baryogenesis: From Electric
 Dipole Moments to Neutrino
 Telescopes

3:30 p.m.

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

4:00 p.m.

 All Experimenters' Meeting -
 Curia II Special Topics: ILC
 Beam Instrumentation; CDMS
 Operations and Prospects

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

Weather


Sunny 65°/41°
[Extended Forecast](#)
[Weather at Fermilab](#)
[Current Security Status](#)

Special Announcement

Pine Street entrance closing: Use Wilson Street entrance

Both the inbound and outbound lanes of Fermilab's Pine Street entrance will be closed during paving operations next week, from Monday, April 23 to Thursday, April 26. The Pine Street entrance will be closed at 6 a.m. and will reopen by 6 p.m. The Wilson Street entrance will be open between 6 a.m. and 6 p.m. All operations are dependent on the weather. Roads and Grounds crews do not expect that the Pine Street entrance closing will affect bicyclists entering the lab. However, bicyclists who want to ride through on Pine street will have to turn off at the Lederman Science Education Center and then cross over on the trail to the Wilson Hall west parking lot. *Fermilab Today* will provide updates.

Special Announcement

SciBooNE moving: Some roads closed Monday, April 23

Traffic will be delayed along Wilson Street between the site entrance and SiDet from about 8:30 a.m. to 9 a.m. Monday morning for the arrival of a 360-ton crane. Roads between Road B and Giese Road will be closed between 12:30 and 1 p.m. Monday afternoon while the detector is moved. View a map of the road closures [here](#).

Feature

Crane will give SciBooNE detector a lift to its new home

Update

Fermilab Update on Inner Triplets at CERN



The components of the inner triplet, as they appeared when assembled for the first time in a surface building at CERN, in April 2005. The assembly contains, from left to right, three quadrupole magnets (Q1, Q2, Q3), a cryogenic and power distribution box (DFBX), and a separation dipole magnet (D1). ([Click on image for larger version](#))

On Tuesday, March 27, structural supports to a Fermilab-built quadrupole magnet, one of an "inner triplet" of three focusing magnets, failed a high-pressure test in the tunnel of the LHC accelerator under construction at CERN. The force generated in the pressure test broke the supports in magnet Q1 that hold the magnet's cold mass in place inside the cryostat, the magnet's outer metal jacket. The support structure broke because it was not designed to withstand the amount of longitudinal force applied during the pressure test.

Redesign and repair

Since March, teams at CERN and Fermilab have worked closely together to identify the cause of the failure and to identify any other potential problems with U.S.-furnished components. The teams have identified several potential solutions.

[Read more](#)

Feature

[Second Level 3](#)[Wilson Hall Cafe](#)**Friday, April 20**

- New England clam chowder
- Black & blue cheeseburger
- Mardi Gras jambalaya
- Swedish meatballs
- Bistro chicken & provolone panini
- Assorted sliced pizza
- Carved top round of beef

[Wilson Hall Cafe Menu](#)[Chez Leon](#)**Wednesday, April 25
Closed****Thursday, April 26
Dinner**

- Coquille St. Jacques
- Veal piccata
- Risotto confetti
- Chocolate fondue w/ dipping fruit

[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/

Send comments and suggestions to:
today@fnal.gov



[A fish-eye view of the new SciBoone building from the ground up.](#)

It's a simple but challenging equation -- how to move more than 100 tons of fragile detectors across the lab and into a building the size of a freight elevator shaft without any damage.

The answer involves a 360-ton crane, slow moving trucks, road closures and a careful crew. On Monday morning the long and tedious, but thrilling, process of moving all the elements of the SciBooNE experiment into place will begin.

"This is a momentous occasion because it is the first time that all of the detectors come together," said department head Rick Tesarek, who added that it also a time of high anxiety for the collaborators, since their months of hard work could very easily be jeopardized during the few hour move.

At 7 a.m., early-rising lab employees can watch the [live feed](#) of the Muon Range Detector (MRD) being pushed out of its building. The 58-ton detector will then be picked up by the 360-ton crane, placed on a trailer and carefully moved to the new SciBooNE building, located just north of the Main Injector ring and south southeast of MiniBooNE. The move will cause road closings near Wilson Hall: the roads between Road B and Giese Road will be closed between 12:30 p.m. and 1 p.m. At 2 p.m., the crane will lower the detector into the building,

Argonne, Fermilab celebrate Illinois Particle Accelerator Day

[Fermilab's accelerator complex offers world class tools for particle physics research as well as cancer treatment.](#)

In celebration of Particle Accelerator Day this weekend in Illinois, two U.S. Department of Energy Laboratories, Argonne National Laboratory and Fermi National Accelerator Laboratory, have planned events at their respective accelerator facilities. This is the second year of the celebration at the two labs. Governor Rod Blagojevich proclaimed April 21, 2007 as Particle Accelerator Day in Illinois.

[Read more](#)

[ILC Newsline](#)**SiD plans for the road ahead**

[Fermilab is in the final stages of preparing the New Muon Laboratory for its newest tenant: a 60-meter-long accelerator for ILC R&D.](#)

At last week's [Silicon Detector \(SiD\)](#) concept meeting, participants used several words starting with the letter F -- Flow, as in particle flow; Funding, as in the need for more resources and manpower to fund detector R&D project; and Freezing, as in the weather at Fermilab. Approximately 70 members of SiD met at Fermilab to share the latest R&D results and plan for the future, namely how to prepare a draft Concept Design Report by this time next year.

[Read more](#)

and employees can watch [here](#).

Although Monday's events will only involve the Muon Range Detector, all three pieces will be in place by the end of the week, including SciBar, previously used in neutrino experiments at KeK. Once up and running, SciBooNE will measure precise cross sections of neutrino interactions.

-- Rhianna Wisniewski

In the News

From nature.com April 19, 2007:

Colliders race for the Higgs

Setbacks at CERN offer Tevatron a chance to snatch the prize.

Soon after the news emerged on 29 March that a magnet test in the Large Hadron Collider (LHC) atom-smasher had failed, two physics bloggers decided to have a bit of fun with the idea. On 1 April they posted blogs announcing news such as 'Three years of delay for LHC start-up'. Visitors found the reports all too easy to swallow, decrying it as a cruel blow. Only then did one blogger add an April Fool's spoiler, with an apology: "Sorry to those of you who got hurt by not understanding that in the first place."

[Read More](#)

In the News

From nature.com April 19, 2007:

Evidence for fourth neutrino fades

Fermilab detector quashes sterile particle.

A nine-year effort to resolve a mystery about the behaviour of neutrinos — particles that interact only weakly with matter — has thrown up an unexpected signal. The findings, announced on 11 April, leave open the possibility that new physics hides within the observations, but winnows the options for what that might be.

[Read More](#)

-- Elizabeth Clements

Announcements

Village power outage Saturday

On Saturday, April 21, 2007, there will be a power outage affecting the entire Village. The power outage may last as long as 16 hours, from about 8:00 a.m. to Midnight. More information can be found [here](#).

Users' Office closings

The Users' Office will be closed on Friday, April 20. To renew your ID while the office is closed, visit the Key & ID office for a visitor's pass and access card for site access and shift work. New employees may receive a visitor's pass from the Key & ID office for site access. For car rentals, please contact Enrique Lopez at 847-707-3643 or 630-840-4037. In an emergency, you may contact Borys Jurkiw at 630-840-4363 or by [email](#).

Administrative Professionals Day celebration

On Friday, April 20, at 2:30 p.m. in One West, Fermilab's administrative staff will celebrate Administrative Professionals Day by learning "How Men and Women View the Art and Power of Negotiating." The featured speaker is Malou Roth, recipient of the 2000 Optimas Award for Global HR presented by Workforce Magazine and currently an HR Consultant and former VP of International HR for Molex Inc. She will also explore how our beliefs originate and how they are reinforced as we grow up, engage in play, go to school, and enter the workforce. Refreshments will precede the presentation at 2:00 p.m. in Wilson Hall, One West. Mark your calendars now!

Monthly Leave Sheets due today

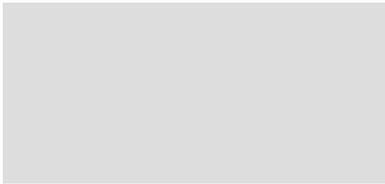
Monthly Leave Sheets are due in Payroll by 10 a.m. Friday, April 20.

Fermilab Friends Membership Drive and Lunchtime Fair next week

Fermilab Friends for Science Education will hold a Membership Drive and Lunchtime Fair on April 23-26 from 11:30 a.m. to 1:00 p.m. in the Wilson Hall Atrium. Join other staff members in providing the extra support that help Fermilab's K-12 education programs thrive.

Habitat Restoration Group Meeting

The Habitat Restoration group will meet on Saturday, April 21 at 9:00 a.m. in the Lederman Science Center Parking lot. More information is available [here](#).



Classifieds

New [classified ads](#) have been posted on *Fermilab Today*.

[Upcoming Activities](#)