

Calendar

Special Announcement

From the Center for Particle Astrophysics

[Have a safe day!](#)

Wednesday, Feb. 17
3:30 p.m.
DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over
THERE WILL BE NO
FERMILAB COLLOQUIUM
THIS WEEK

Thursday, Feb. 18
1 p.m.
Computing Techniques
Seminar - FCC2A/2B
Speaker: LeRoy Budnik,
KnowledgeTransfer.Net
Title: The Cloud Challenge
1:30-5 p.m.
Special LPC lecture - One West
Speaker: Dan Green, Fermilab
Title: Dark matter, dark energy
2:30 p.m.
[Theoretical Physics Seminar](#) -
Curia II
Speaker: Adam Martin,
Fermilab

Title: Boosting BSM Higgs
Discovery with Jet Substructure
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: Peter Limon, Fermilab
Title: LHC Splice Repairs and
the Chamonix Discussions

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

[Upcoming conferences](#)

Campaigns

[Take Five](#)[Tune IT Up](#)**E-mail, Internet access outage update**

At approximately 3:48 a.m., a breaker tripped and caused a power outage at the Feynman Computing Center. This led to widespread outages of core services, including Internet access and e-mail, and some scientific services, including data storage systems and the CMS Tier 1 computing systems at the laboratory. Service providers shut down computers that normally provide other services in order to reduce the temperature in the computing rooms because the cooling system was down.

Service providers are investigating the cause of the power outage. The emergency circuit that tripped and caused outages a week ago was not involved.

Service providers have brought core services such as security, Web, and e-mail back online. Other services such as printing should be back soon. No one should experience any loss of e-mail.

In Brief

Fermilab altering computer procurement procedures

Fermilab is working to have less of an impact on the environment. To do that, the laboratory has altered the procedures to procure desktops, laptops and computer monitors.

The procedural change is part of Fermilab's participation in the [Federal Electronics Challenge](#) (FEC). This program encourages federal facilities to purchase greener electronic products, reduce the impact their usage has on the environment and dispose of them in an environmentally safe manner.

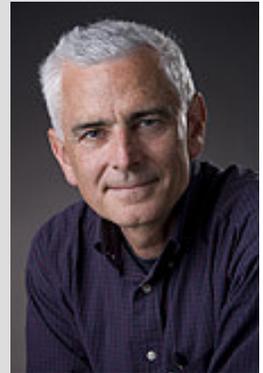
These new procedures are designed to ensure that at least 95 percent of laptops, desktops and monitors are EPEAT (Electronic Product Environmental Assessment Tool) compliant and that Fermilab meets Federal Executive Order 13423.

[EPEAT](#)-compliant equipment meets the minimum standards in categories such as energy efficiency and materials used in the

Fermilab's "Wimpststitute"

Craig Hogan, head of the Center for Particle Astrophysics, wrote this week's column.

When astronomers measure the motions of stars, gas and galaxies in our universe, they find that the motions require forces that go beyond the gravitational forces caused by ordinary, visible matter. Evidence for gravity from dark, unseen matter has piled up since scientists began these measurements in the 1930s.



Craig Hogan

For a long time scientists thought that dark matter might be swarms of invisible planets or gas in space. But substantial evidence now suggests that dark matter is something truly extraordinary. The favorite dark-matter candidates are whimsically called weakly interacting massive particles, or WIMPs, and Fermilab's Center for Particle Astrophysics is one of the best "Wimpststitutes" in the world. Our scientists are pursuing three different technologies to search for WIMPs: cryogenic crystals (CDMS), bubble chambers (COUPP) and liquid argon (Darkside).

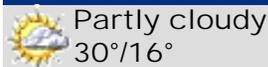
The proposed existence of WIMPs fits well into our ideas for how the universe formed after the big bang. The hot soup of energy in the early universe apparently created both atoms and an even larger detritus of invisible particles that do not interact with light.

To explain the evolution and the matter density of our universe, dark-matter particles must be weakly interacting, such as neutrinos, but weigh much more than a neutrino: a single dark-matter particle must weigh as much as a heavy atom or large molecule.

We can look for WIMPS in the laboratory. To do that, scientists build ultra-sensitive particle detectors in laboratories deep underground, shielded from cosmic rays. There they look for rare, faint signals of light, sound or charge, caused by a WIMP bouncing off an ordinary atom in the detector. These WIMP interactions

H1N1 Flu

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

Weather

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

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Wednesday, Feb. 17
- Breakfast: English muffin sandwich
- Chicken noodle soup
- Steak sandwich
- Maple Dijon salmon
- Mongolian beef
- California club
- Assorted sliced pizza
- Chicken pesto pasta

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, Feb. 17
Lunch
- Spicy honey-brushed chicken
- Garlic-roasted potato wedges
- Tossed salad
- Sticky toffee pudding

Thursday, Feb. 18
Dinner
- Crab cakes w/ tomato cream sauce
- Spice-crusted pork tenderloin w/ andouille sausage gravy
- Horseradish mashed potatoes
- Fried okra
- Cappuccino-fudge cheesecake

[Chez Leon Menu](#)

Call x3524 to make your reservation.

Archives

manufacturing of the product. EPEAT standards currently apply to computer desktops, monitors and laptop computers but will eventually include other types of equipment, such as servers and printers.

Fermilab's desktop-support group will purchase, or recommend purchases of only desktops, laptops and monitors that are EPEAT-compliant. To buy computers or monitors that are not EPEAT compliant, you must fill out a variance form, which is available on CD's [Think Green Web site](#). Your division/section/center office must approve the form.

To encourage purchase of EPEAT monitors and make sure that they are properly tracked, monitors may no longer be ordered with a Procard.

Meeting this procurement goal will allow the laboratory to qualify for the Federal Electronics Challenge Silver Award. Fermilab has previously won two Bronze awards in 2007 and 2008 and the White House Award in 2008.

If you have any questions about the new procedures, contact the Fermilab [Service Desk](#).

-- *Tim Currie/Amy Pavnica, on behalf of the EPEAT ad-hoc committee*

Special Announcement**Reminder: Limited dialing tonight**

The laboratory will briefly experience a dialing outage from 1-2 a.m. on Thursday, Feb. 18. AT&T maintenance activity will affect the ability to dial and connect to off-site numbers, as well as to receive calls from off-site numbers, including cell phones. These services will be unavailable for up to 30 minutes between the hours of 1 and 2 a.m. Thursday. This activity will have no impact, however, on our internal campus (extension-to-extension) dialing -- you may continue to dial other 4-digit extensions including the laboratory's emergency number, x3131.

In the News

are rare. Even after a few years of taking data, there may only be one or two such events.

The CDMS scientists announced the observation of two candidate events last December. But they are cautious: these particle events could have been caused by still-unknown backgrounds.

Over the next few years, scientists will build better, larger detectors and deploy them underground in laboratories such as Soudan, SNOLab and DUSEL. The race is on: Who will be the first to discover what dark matter is made of? Stay tuned!

Safety Update**ES&H weekly report, Feb. 16**

This week's safety report, compiled by the Fermilab ES&H section, includes one recordable injury. The recordable injury involved a worker who scraped his arm on a piece of aluminum sheet metal. Find the full report [here](#).

[Safety report archive](#)

Announcements

[Fermilab Natural Areas annual meeting - Feb. 18](#)

[Lunch & Learn about back pain - Feb. 18](#)

[February Fermi Mac Users Group Meeting - today](#)

[Employee discount offered at Batavia Rosati's](#)

[Hiring summer students for 2010](#)

[Harlem Globetrotters special ticket price - April 15](#)

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

is online at:

www.fnal.gov/today/

Send comments and

suggestions to:

today@fnal.gov

Visit the Fermilab

[home page](#)[Unsubscribe](#) from *Fermilab**Today*

Particle physics: New delay of Large Hadron Collider might not keep its rival on the job

From **Science**, Feb. 12, 2010
Subscription required

The news in particle physics last week wasn't as surprising as the reaction to it. The world's highest-energy atom smasher, the Large Hadron Collider (LHC), will run at half its maximum energy through 2011 and not at all in 2012, officials at the European particle physics laboratory, CERN, near Geneva, Switzerland, announced. They had previously planned to run the beleaguered accelerator at 70 percent of maximum energy this year. The cut in energy reduces CERN physicists' chances of spying the long-sought Higgs boson—the hypothesized particle central to physicists' explanation of the origin of mass—before rivals at the Fermi National Accelerator Laboratory (Fermilab) in Batavia, Illinois, might spot it.

[Read more](#)[Engineers Week through Feb. 19](#)[Unleash those stomach butterflies - Toastmasters](#)[BLAST! The Movie: intro, film and Q&A - Feb. 19](#)[Ukrainian egg decorating class - Feb. 22](#)[Weight Watchers at Work begins new session](#)[Applications accepted for awards in URA Visiting Scholars program](#)[Blood drive sign-up](#)[Fermilab Family Open House - Feb. 21](#)[Ask HR sessions to be held at the Computing Division and Wilson Hall](#)[Conflict Management and Negotiation Skills offered March 3 and 10](#)[Adobe Acrobat Professional 9.0 Level 1 class offered March 4](#)[Deadline for The University of Chicago Tuition Remission Program - March 5](#)[On-site Housing for summer 2010 - March 8 deadline](#)[Adaptive Leadership: Coaching for Individual Differences class - March 9](#)[Excel Power User / Macros class offered March 11](#)[FRA Scholarship 2010](#)[Additional activities](#)[Submit an announcement](#)