

Calendar

Monday, February 20

2:30 p.m. Particle Astrophysics Seminar
- Curia II

Speaker: L. Grisa, New York University
Title: Resonance in Asymmetric Warped
Geometry

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. All Experimenters' Meeting
Special Topics: Shutdown Plans; ICW
Shutdown Flushing Plan - Curia II

Tuesday, February 21

11:00 a.m. Academic Lecture Series

Speaker: S. Parke, Fermilab

Title: The New World of Neutrino Physics
- Part II (1st Lecture)

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. Accelerator Physics and
Technology Seminar

Speaker: R. Thurman-Keup, Fermilab

Title: Monitoring Abort Gap Beam
Intensity in the Tevatron Using
Synchrotron Radiation

*** Announcement ***

Heartland Blood Centers will be here for the Fermilab Blood Drive on February 20 and 21 from 8:00 A.M. to 2:00 P.M. in the Wilson Hall Ground Floor NE Training Room. Appointments can be scheduled on the [web](#) or by calling Lori at x6615.

Weather

Engineers' Week Gearing Up



Representatives of Fermilab's engineering community gathered for National Engineers Week in 2005. (click image for larger version)

The 283 members of Fermilab's engineering community will mark the 55th annual National Engineers Week beginning today. Featured is a presentation to the lab's engineers by Fermilab Director Pier Oddone on Wednesday, February 22 at 3 p.m. in One West.

Engineers Week was established in 1951 by the National Society of Professional Engineers, and reaches thousands of schools, businesses and community groups across the US through its supporting association of engineering, education and cultural societies and more than 50 corporations and government agencies. Engineers are major contributors to Fermilab outreach efforts, and any engineers who would like to join outreach activities are encouraged to contact the lab's Education Office (X3092).

Butterflies in February? They Call Fermilab Home

Safety Tip of the Week

Water cooler bottles



Although lifting water bottles is a likely source of back injuries, very few cases have been reported to Fermilab's Medical Department.

A Fermilab employee recently sustained a minor back injury from lifting a 5-gallon water bottle. This seems like it should be a fairly common injury. A full 5-gallon bottle weighs 48 pounds and Procurement's Bob Johnson noted we use about 310 bottles per week. However, the recent injury is the first such case to be entered into the Lab's occupational injury database. Pretty remarkable since these data go back more than 20 years and include over 4500 cases.

Bob explained that safety was a major factor in selecting Ice Mountain as our current vendor. They provide handles on their 5-gallon bottles. We can also get 3-gallon bottles, but not with handles. Though often suggested as a fix, the smaller container has not caught on at Fermilab. Ice Mountain representative Tracie Dempsey commented that she finds the handles make a big difference. A 5-gallon container with a handle is like

Partly Cloudy **33°/20°**[Extended Forecast](#)[Weather at Fermilab](#)**Current Security Status****Secon Level 3****Wilson Hall Cafe****Monday, February 20**

- Potato Au Gratin
- Monte Cristo
- Savory Roasted Chicken Quarters
- Lasagna Bolognese
- Chicken Ranch Wrapper
- Assorted Pizza Slices
- Szechuan Style Pork Lo Mein

The Wilson Hall Cafe accepts Visa, Master Card, Discover and American Express.

[Wilson Hall Cafe Menu](#)**Chez Leon****Wednesday, February 22****Lunch**

- Asian Marinated Flank Steak
- Jasmine Rice
- Pea Pods & Water Chestnuts
- Orange Flan

Thursday, February 23**Dinner**

- Steamed Mussels
- Pork Tenderloins w/Madeira Sauce
- Sweet Potatoes
- Profiteroles

[Chez Leon Menu](#)

Call x4512 to make your reservation.

Search

The Mourning Cloak (*Nymphalis antiopa*) overwinters as an adult butterfly. (Image courtesy of Tom Peterson; click for larger version.)

Where do butterflies go in the winter? While a few species, like Monarchs, migrate to warmer climates, the majority of species spend winter wherever they are, in a metabolic state similar to hibernation called diapause. More than 50 butterfly species regularly call Fermilab home and most of them are here even now, just not in the form you may imagine. Butterflies have four stages in their life cycle--egg, larva, pupa, and imago (adult butterfly)--and while you might think they would spend winter as pupae in a cocoon or chrysalis, you'd be only partly correct.

"Actually, all four stages are out there right now," said cryogenics engineer Tom Peterson, the lab's resident butterfly expert and newly appointed ELM committee chair. "While every species typically has one pattern and overwinters in the same stage every year, right now, there are even adult butterflies sitting in the woods, hiding in trees." Local species that overwinter as imago include the Eastern Comma and Mourning Cloak. Both have cryptic coloring, which camouflages them and is the only real way an animal in diapause can avoid predators

a 3-gallon container without a handle. FESS's deputy head, Randy Ortgiesen, points out that the Lab's domestic water system is now fed from Warrenville's municipal system. It is likely that opportunities exist to discontinue bottled water use resulting in reduced cost and less risk of injury. Other tips to consider:

- Do not lift beyond your limits.
- Designate qualified individuals.
- Consider a two-person approach.

[Safety Tip of the Week Archive](#)**Accelerator Update****February 15 - 17**

- One special 1x1 store provided 40 hours and 20 minutes of low luminosity.
- Booster suffered from a vacuum leak and RF problems.
- Linac also had RF trouble.

[Read the Current Accelerator Update](#)[Read the Early Bird Report](#)[View the Tevatron Luminosity Charts](#)**Announcements****Blood Drive**

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Neutrinos on TV

On Tuesday, February 21, at 8 p.m. [WTTW Channel 11](#) will broadcast "The Ghost Particle," showing how "a 40-year hunt for solar neutrinos leads to a new understanding of matter itself." The program includes interviews with numerous neutrino scientists, including

Search the Fermilab Today Archive**Info**

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Send comments and suggestions to today@fnal.gov

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—Dawn Stanton

What's Happening at CMS?

Installing the Cables: International crews from the collaborating institutions are working on cable installations on the sections of the CMS detector. Click [here](#) for the most up-to-date status of CMS construction at Point 5 via live webcam. (Photo courtesy of Slawomir Tkaczyk; click image for larger version.)

In the News

**National Geographic News, February 13, 2006:
Dark Matter Properties "Measured" for First Time, Study Says**

If you're a researcher at Cambridge University's Institute of Astronomy in England, the answer is: Use painstaking calculations and a really big telescope.

With the help of data from the world's most advanced optical array, Cambridge scientists announced last week that they may be a step closer to identifying properties of dark matter.

This mysterious yet pervasive substance could be the "cosmic glue" that keeps rotating galaxies from spinning apart.

[Read More](#)

Fermilab's Boris Kayser. More information is at the [NOVA Web site](#).

Add Your Name to NALWO Mailing List

Women can have their names added to the NALWO mailing list by contacting Kathy Johnson at kjohnson@fnal.gov, by mailing contact information to NALWO, c/o Kathy Johnson, MS111, or in person at Kathy's office in Wilson Hall, first floor. They can also subscribe through the NALWO webpage at [by using the on-line form](#).

URA Scholarship Application

Every year, the University Research Association awards scholarships to children of regular, full-time Fermilab employees with high SAT scores. Applications are available [online](#) now through March 1. Questions about the program may be directed to Jeanelle Smith at x4367.

GSA Formal Winter Ball

Tickets for the Graduate Student Association's first Formal Winter Ball, to be held on Sat., Feb. 25, at 8 p.m., are on sale. Cost to attend the ball is \$5 per person and all are welcome. For more information, please visit the [Web site](#). To purchase tickets, please contact GSA representatives Leah Welty-Rieger, x3853 or lwelty@fnal.gov, or Tuula Maki, x8414 or tmaki@fnal.gov.

FNRT Printer Down Thursday, Feb. 23

The site wide print server, FNPRT, will be inaccessible on Thursday, February 23, from 6:00am-8:00am due to a software upgrade.

[Upcoming Activities](#)

