

## Calendar

### Monday, October 25

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

Speaker: N. Sugiyama, National Astronomical Observatory

Title: Small Scale Density Perturbations: Role of Baryons

**3:30 p.m.** DIRECTOR'S COFFEE

BREAK - 2<sup>nd</sup> Flr X-Over

**4:00 p.m.** All Experimenter's Meeting - Curia II

Special Topic: Neutron Therapy Facility

### Tuesday, October 26

**3:30 p.m.** DIRECTOR'S COFFEE

BREAK - 2<sup>nd</sup> Flr X-Over

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

## Wilson Hall Cafe

### Monday, October 25

Wisconsin Cheese soup

Corned Beef Reuben \$4.75

Chicken Provencale \$3.75

Shepherd's Pie \$3.75

BBQ Panini with Pepper Jack Cheese

\$4.75

Meat Lovers Pizza \$2.75

Kung Pao Chicken with Peanuts and

Scallions \$4.75

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

## Weather

## Chicago Children Get in Touch with National Labs Research



Sabine Lammers, Larry Welsh, and Mariann Stowell figure out how long the gravity accelerator (rear, red) really is.

More than 500 middle school students, mostly from Chicago-area public schools, attended "What's Next: Future Science for Future Scientists" at the city's Navy Pier on Oct. 14. The educational event was organized by the DOE headquarters together with Fermilab and Argonne National Laboratory, and was hosted by Energy Secretary Spencer Abraham.

The students got a chance to meet scientists from 21 national laboratories and research institutions, and to learn science facts by having fun with hands-on activities. Nine of the activities were offered by Fermilab, including the Cryogenics Show by Mr. Freeze (aka Jerry Zimmerman, of PPD).

"It all came out very well, thanks to all the wonderful help we had," said Spencer Pasero (Education Office), who led the Fermilab team with Susan Dahl. "Having the scientists and docents involved is part of what makes our education program special," he said.

## Safety Tip of the Week

### Carbon Monoxide

Now that cooler weather is upon us, the process of closing up buildings and turning on heaters is underway. These actions reduce exchange with outside air and provide numerous sources of combustion. It should come as no surprise that carbon monoxide incidents occur at this time of year.

Most carbon monoxide comes from the incomplete combustion of fossil fuels. This gas has no smell, taste or color. Symptoms of exposure include headache, nausea, breathlessness, dizziness and confusion.

Unconsciousness and even death can occur from very high exposures.

At Fermilab, carbon monoxide exposures have resulted from defective heaters and vehicles being run in enclosed spaces. Because of this, living quarters in the Village are equipped with continuous carbon monoxide monitors to warn residents of a potential problem. In addition, FESS Operations inspects all onsite heaters and boilers on an annual basis. This evaluation includes a check of heat exchanger integrity as well as carbon monoxide measurements. Air checks are also performed any time



[A carbon monoxide detector](#)

[\(Click on image for larger version.\)](#)



Partly cloudy **67°/47°**

[Extended Forecast](#)

[Weather at Fermilab](#)

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At least 25 Fermilab scientists and docents were on hand to help make the event a success. "We concentrated on presenting hands-on activities that convey the ideas Fermilab scientists study, and basic concepts and methods of particle acceleration and detection," said Education Office head Marge Bardeen.

"What's Next" was the first in a series that will take place yearly at different locations around the country, as part of the DOE's new Scientists Teaching and Reaching Students (STARS) initiative.

### In the News

#### From *Science*, October 22, 2004

##### Swiveling Satellites See Earth's Relativistic Wake

By Charles Seife

The world's a drag--and scientists have proved it. By studying the dance of two Earth-orbiting satellites, Italian physicists have detected the subtle twisting of spacetime around a massive, spinning object.

The measurement is the most convincing sighting yet of a hard-to-spot consequence of Albert Einstein's general theory of relativity, says Neil Ashby, a physicist at the University of Colorado, Boulder. "There was a lot of criticism of previous results, but this is the first reasonably accurate measurement," Ashby says. Physicists Ignazio Ciufolini of the University of Lecce, Italy, and Erricos Pavlis of Goddard Space Flight Center in Greenbelt, Maryland, describe the result this week in *Nature*.

[Read more](#)

maintenance is completed on relevant components. A few percent of the inspected devices are repaired each year because of carbon monoxide leakage -- evidence that this program is working.

Here are some suggestions to keep in mind to minimize carbon monoxide exposures:

- Make use of carbon monoxide monitors.
- Follow warnings on fuel burning devices.
- Make sure flues and chimneys are intact and unblocked.
- Don't use gasoline powered engines in enclosed spaces.
- Don't ignore symptoms of carbon monoxide poisoning.

**Have a great day and let's work safely all week!**

[Safety Tip of the Week Archive](#)

### Accelerator Update

#### October 22

During the shutdown, the Accelerator Update will offer a series on the history and operation of the laboratory's accelerator complex. The Booster is the seventh in a series.

[Read the Current Accelerator Update](#)

[View the Tevatron Luminosity Charts](#)

### Announcements

**From the *Daily Herald*,  
October 22, 2004**

**15 companies receive awards for work  
in cutting pollution**

By Kat Zeman

Lt. Gov. Pat Quinn visited Glen Ellyn Thursday to honor 15 companies and organizations for helping to fight pollution in Illinois.

Fermilab, Abbott Laboratories and an Arlington Heights-based health-care manufacturer were among the Chicago-area recipients of the Governor's Pollution Prevention Awards at Abbington Distinctive Banquets.

[Read more](#)

**Sign up for *symmetry***

The new magazine *symmetry*, a joint publication of Fermilab and SLAC, will launch later this week. To receive a notification when the online version is available, please register your email address at

[www.symmetrymagazine.org](http://www.symmetrymagazine.org)

**Upcoming Classes:**

November 16 & 17: Behavioral Interviewing (Talent Selection) two consecutive half-days

December 13 - 17: Advanced Linux Administration

December 14 & 15: Behavioral Interviewing (Talent Selection) two consecutive half-days

[More information](#)

**Power Outage News**

**MI-65**

October 25 – Power will be off to the MI-65 service building and tunnel for 5 hours starting at 2 PM on Monday.

**MI-40**

October 27 – The power will be off to the MI-40 service building and tunnel for three and a half hours starting at 8:30 AM on Wednesday.

**The Village**

October 30 – Power will be off in the Village from 7:00 a.m. to 3:30 p.m.

[Upcoming Activities](#)