

## Calendar

**Monday, Oct. 20**  
**2:30 p.m.**  
[Particle Astrophysics Seminar](#)

- Curia II  
 Speaker: Marta Volonteri,  
 University of Michigan  
 Title: Massive Black Holes  
 from Early Times to the  
 Present Day

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

**4 p.m.**  
 All Experimenters' Meeting -  
 Curia II  
 Special Topic: Collider Shot  
 Setup Improvements

**Tuesday, Oct. 21**  
**2:30 p.m.**

Particle Astrophysics Seminar  
 (NOTE DATE) - Curia II  
 Speaker: Susan Gardner,  
 University of Kentucky  
 Title: Shedding Light on Dark  
 Matter: How Faraday Rotation  
 Can Limit a Dark Magnetic  
 Moment

**3:30 p.m.**  
 DIRECTOR'S COFFEE  
 BREAK - 2nd Flr X-Over  
 THERE WILL BE NO  
 ACCELERATOR PHYSICS  
 AND TECHNOLOGY  
 SEMINAR TODAY

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

## Weather

 **Few showers**  
 57°/36°

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

## Current Security Status

[Secon Level 3](#)

## Feature

### Classroom presenters wanted to showcase science



DZero's Michael Cooke and AD's Amber Johnson review the Education Office's supplies for presenting classroom science experiments on light and color during a Sept. 29 picnic to recruit volunteer presenters.

When Michael Cooke came to Fermilab for his graduate studies, he reveled in the experiments but missed teaching undergraduates.

So he found the next best thing: teaching area students about the principles underlying his work at Fermilab.

"There can be more enthusiasm with elementary students because they know they are not going to be tested on it," Cooke said.

With his wife, Amber Johnson, Cooke has averaged about one educational talk a month during the last two school years. The couple intersperse their talk about electricity and magnetism with hands-on examples, computer-based demonstrations and plenty of questions for the students.

"It is a lot of fun," Johnson said. "There are so many schools interested and nearby that we have never had to drive more than 30 minutes."

The Education Office supplies demonstration

## Safety Tip of the Week

### Watch out for deer



Mating instincts go into high gear in autumn, leading deer to ignore caution and dart onto roadways.

During autumn, deer become more active as they search for mates and food sources. Their additional activity greatly increases the risk of deer-vehicle collisions.

In 2007, there were 25,006 deer-vehicle crashes reported in Illinois, with 496 occurring in Kane County, making it the ninth deadliest county in the state. Statewide, these accidents injured 846 people, including five fatally.

On the Fermilab site, we have recently averaged four deer-vehicle accidents per year. Most occur around dusk and are minor in nature, but some result in vehicle damage and injuries.

To avoid deer-vehicle accidents, Fermilab's Security Chief, Bill Flaherty, provides the following advice:

- Drive slowly in areas where deer signs are posted, especially after dark. Look for the reflection given off by deer eyes.
- If you see one deer, slow down and be watchful, they usually travel in groups.
- Don't get lulled into a false sense of security. Deer sometimes run alongside a vehicle for a while before attempting to cross the road.
- Attempt evasive maneuvers carefully so that you don't wind up running into something else.

If you do collide with a deer, a few basic safety precautions can prevent injury. Buckle your seat belt, or, if on a motorcycle, wear a helmet. A nationwide study of vehicle-animal crashes conducted by the Insurance Institute for Highway Safety shows that 60 percent of

## Wilson Hall Cafe

### Monday, Oct. 20

- Smart cuisine: spicy beef & rice soup
- Corned beef reuben
- Smart cuisine: honey dijon glazed pork loin
- Smart cuisine: vegetable lasagna
- Chicken oriental wrap
- Pineapple
- Assorted sliced pizza
- Smart cuisine: Pacific rim rice bowl

[Wilson Hall Cafe Menu](#)

## Chez Leon

### Wednesday, Oct. 22 Lunch

- Grilled salmon w/scallion sauce
- Lemongrass rice
- Pineapple upside down cake

### Thursday, Oct. 23 Dinner

- Closed

[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/](http://www.fnal.gov/today/)

Send comments and

suggestions to:

[today@fnal.gov](mailto:today@fnal.gov)

kits and a van to support classroom visits to dozens of schools annually in northern Illinois either close to the laboratory or on the commuting path of volunteers.

But the office still needs more volunteers. A sign-up meeting last month only drew 16 participants, many already volunteers. New volunteers can partner with veterans or use slides created by former presenters.

The typically 30-to 40-minute presentations offer a chance to expose students to Fermilab and create an interest in science at a young age. Demonstrations are tailored for second through 12th grades and cover light, motion, electricity, sports physics, cryogenics, cosmic rays and science career paths.

"I have found some students who are less enthusiastic than others but there is something that everyone finds fun," said Anne Heavey.

Anyone interested in becoming a classroom presenter should contact Nancy Lanning at [lanning@fnal.gov](mailto:lanning@fnal.gov). Visit the presentation [Web site](#) for more information.

"You have got all these fun demos and stuff and then the students say, 'How does all this apply to science?'" said Jim Zagel. "And you can tie it all together."

## Photo of the Day



Users of Fermilab's Remote Operation Center Thursday participate in the inauguration of a similar center at DESY via video with their colleagues in Germany.

## In the News

people killed riding in vehicles were not wearing seat belts, and 65 percent of motorcyclists killed were not wearing helmets.

Additional information is available from the [Illinois Department of Natural Resources](#)

## Accelerator Update

### Oct. 15-17

- Three stores provided ~31.5 hours of luminosity
- New MTest experiment T977 (MINERvA) begins
- Recycler stash (~200E10) lost during card change
- TeV conducts beam-beam compensation study

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

## Announcements

### Have a safe day!

#### Fire drill Oct. 22

A fire drill will take place on Wednesday, Oct. 22.

#### Wilson Hall emergency warden training

If you are a current or new emergency warden and have not gone through annual training, please contact John Kent via [e-mail](#) or at x4753.

#### Bike path closures begin Oct. 20

Beginning Monday, Oct. 20, the bike path between Road D and the Wilson Hall east parking area will close for construction. A project will begin Monday to install a redundant source of drinking water for Wilson Hall. Crews will excavate and install a water service pipe between the reflecting pond and the Tevatron berm, adjacent to the bike/walking path. Check the [map](#) for alternate routes. All bicyclists should follow Illinois regulations and be aware of their surroundings and traffic. Contact Tom Lackowski at [tomski@fnal.gov](mailto:tomski@fnal.gov) with any questions.

#### Lecture on Litvinenko death

Borys Mychalczak, a New York-based associate clinical professor in radiation oncology, will present "The Death of Alexander Litvinenko: Understanding the Health Effects of Polonium 210 Exposure" at 2 p.m. Sunday, Oct. 26, in Wilson Hall's One West. The talk is sponsored by The Ukrainian Medical Association of North America, Illinois Branch, as part of its fall lecture, which

## Einstein's relativity survives neutrino test

From *IU NEWS ROOM*, Oct. 15, 2008

Physicists working to disprove "Lorentz invariance" -- Einstein's prediction that matter and massless particles will behave the same no matter how they're turned or how fast they go -- won't get that satisfaction from muon neutrinos, at least for the time being, says a consortium of scientists.

The test of Lorentz invariance, conducted by MINOS Experiment scientists and reported in the Oct. 10 issue of *Physical Review Letters*, started with a stream of muon neutrinos produced at Fermilab particle accelerator, near Chicago, and ended with a neutrino detector 750 meters away and 103 meters below ground. As the Earth does its daily rotation, the neutrino beam rotates too. "If there's a field out there that can cause violations of Lorentz invariance, we should be able to see its effects as the beam rotates in space," said Indiana University Bloomington astrophysicist Stuart Mufson, a project leader. "But we did not. Einsteinian relativity lives to see another day."

[Read more](#)

coincides with a tour of Fermilab. The lecture is free and open to all Fermilab employees and users.

### **DreamWeaver CS3: Advanced Nov. 5**

An advanced course in Dreamweaver CS3 will take place Nov. 5. Attendees can learn to establish database connectivity, work with record sets, create interactive page elements and administer database records and Web sites. Attendees can also learn to create a user authentication system. [Learn more and enroll](#)

### **Word Tips, Tricks & Techniques Nov. 6**

A class in tips, tricks and techniques for Microsoft Word will take place Nov. 6. This class will allow attendees to use Word to enable better time management. Learn these tips and shortcuts to enhance task performance and create more appealing documents. [Learn more and enroll](#)

### [Additional Activities](#)