

Calendar

[Have a safe day!](#)

Monday, Oct. 4

2:30 p.m.

[Particle Astrophysics Seminar](#)

- One West

Speaker: Marla Geha, Yale University

Title: The Darkest Galaxies

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

All Experimenters' Meeting - Curia II

Special Topics: Antiproton Production Targets; Automatic Tuning Machine for SRF Cavities; NuMI Targets

Tuesday, Oct. 5

10:30 a.m.

[Research Techniques Seminar](#)

- Hornet's Nest WH-8NX

Speaker: Ping Gui, Southern Methodist University

Title: Gigabits Optical Data Links in CMOS Technology

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO

ACCELERATOR PHYSICS

AND

TECHNOLOGYSEMINAR

TODAY

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

[Upcoming conferences](#)

Campaigns

[Take Five](#)

[Tune IT Up](#)

Weather

Feature

Fermilab prairie helps engineers protect wetlands



Environmental experts examine Fermilab's prairie to learn about rare plants.

Robert Mohlenbrock glanced to his right and spied a thin green stalk amidst a sea of grasses and flowers.

"Oooohhh. Look at this guy," he said to the nearly two dozen federal environmental engineers eagerly jotting down his every word. "There's a stem without a leaf on it. That has got to be *Eleocharis*. This used to be the hardest thing to identify; now it's the easiest."

As knowledge about native wetland plants and grasses expands and suburban sprawl shrinks their numbers, having an eye for what needs conserving has become a much sought-after skill.

[Mohlenbrock](#), a Southern Illinois University Carbondale professor emeritus and renowned author, uses Fermilab as his training ground because of its unique floral diversity. The site boasts 1,100 acres of restored tallgrass prairie, of which less than one-tenth of 1 percent remains in Illinois.

"A site like this is going to have a higher quality," said Keith Wozniak, chief of the west division of the Chicago District Army Corps of Engineers.

The Corps, along with DuPage County, send wetland regulators to places like Fermilab twice

ES&H Tips of the Week - Health

Bed bugs: the out-of-sight bite in the night



An adult bedbug. *Image via the CDC: Photo courtesy of Dr. Harold Harlan, Armed Forces Pest Management Board Image Library.*

High-energy particle physics experiments occur across the United States and across the globe. The international nature of the field means that experimenters travel often for research or conferences. Jetlag used to be the main headache from frequent travel, but now travelers also have to worry about bed bugs.

Complaints about the pests have risen since 1995.

It is thought that years of DDT pesticide application was the main reason for the near disappearance of bedbugs around the 1950s. Subsequent to the ecologically appropriate ban on DDT, the numbers of bedbugs rose.

An adult bed bug is about 5 mm long and 3 mm wide and brown. A rather flat profile aids its concealment. They tend to shun light, so an inspection for the bug itself has to be well coordinated. Telltale signs of infestation are brown feces stains resembling dried blood on bedding or mattress and bites occurring in a group of three, usually in a line. Bedbug infestations do not equate to bad housekeeping. These little critters hitchhike to their new homes in luggage, on clothing or on used furniture. Because of this, quarantining luggage in a garage or bathtub upon a return from travel was once a common practice.

Bedbugs crawl but cannot fly.

The good news is that as despicable as these blood suckers are, they do not transmit diseases. Tests with AIDS and Hepatitis B viruses found the bed bugs did not pass along through blood transfer sufficient amounts of the viruses to cause diseases and were incapable of reproducing the virus themselves.

 Sunny
63°/35°

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

Current Security
Status

[Secon Level 3](#)

Wilson Hall Cafe

Monday, Oct. 4

- Breakfast: Croissant sandwich
- Smart cuisine: Potato leek soup
- Monte cristo
- Smart cuisine: 1/2 Roasted chicken
- Alfredo tortellini
- Chicken ranch wrapper
- Assorted sliced pizza
- Szechuan-style pork lo mein

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, Oct. 6
Lunch

- Herb-roasted cornish hen
- Sage & onion stuffing
- Steamed broccoli
- Pumpkin cheesecake

Thursday, Oct. 7
Dinner

- BOOKED

[Chez Leon Menu](#)

Call x3524 to make your reservation.

Archives

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[CMS Result of the Month](#)

[User University Profiles](#)

[ILC NewsLine](#)

a year to learn how to spot the rarest flora on sites eyed for development. This training increases the likelihood of spotting even a few rare plants so that officials can work with developers to build around the wetlands or, at a minimum, ensure adequate replacement of the wetland through the [Illinois wetland banking system](#). Developers purchase credits to replace wetland damage by creating, restoring, enhancing or preserving wetlands in other locations. In 1991, the federal government adopted the Illinois model as a national standard.

Anything larger than one-tenth an acre requires remediation. Just how much, depends on the quality of the wetland, a designation reached through a formula weighing the amount, variety and rarity of wetland flora.

Fermilab's large number of wetland species, including several rare varieties, gives environmental engineers a chance to learn about flora they might otherwise overlook. When asked why the U.S. Army Corps of Engineers chooses Fermilab as a classroom, several members immediately remarked on the high quality and diversity of the plantlife. Many of the other training sites the engineers see have less than half a dozen species of wetland plants and grasses, Wozniak said.

The high-quality prairie and wetland species thrive through a program of invasive plant removal, restoration efforts and Fermilab's commitment to stewardship.

Fermilab hosts a searchable [plant database](#) and actively recruits [volunteers](#) for restoration activities.

-- Tona Kunz

Photo of the Day

At first light



AD's Mike McGee submitted this photo of the Main Ring pond, taken near B2 at dawn on Oct. 1.

The worst you can expect to get from these insects' bites is a possible allergic reaction to the bite or contact with the molted shell.

For more information on bed bugs visit the [Centers for Disease Control](#) and the [National Pest Management Association](#).

-- Brian Svazas, MD

Accelerator Update

Sept. 29-Oct. 1

- Four stores provided ~ 39.25 hours of luminosity
- Controls rebooted the time line generator
- TeV sector B3 dump power supply repaired
- Two cryo system front ends rebooted
- MI-50 service building breaker tripped
- Booster and MI made access Oct. 1

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

Latest Announcements

[Physics for Everyone lecture series begins Oct. 6 in Auditorium](#)

[Fermilab Lecture Series presents The Long Thaw: How humans are changing the next 100,000 Years of the Earth's climate - Oct. 22](#)

[Fermilab Arts Series presents Suzanne Vega Oct. 9](#)

[Accelerate to a Healthy Lifestyle Program](#)

[Fright Fest discount tickets at Six Flags](#)

[Americans with disabilities act update - Oct. 4](#)

[Mental Health Seminar, Part I - Oct. 5](#)

[Scrappers Scrapbooking Open House](#)

[Autism Awareness Seminar - Oct. 6](#)

[Toastmasters - Oct. 7](#)

[School's Out Day Camp](#)

[Fibromyalgia awareness seminar -](#)

Info	In the News	
<p><i>Fermilab Today</i> is online at: www.fnal.gov/today/</p> <p>Send comments and suggestions to: today@fnal.gov</p> <p>Visit the Fermilab home page</p> <p>Unsubscribe from <i>Fermilab Today</i></p>	<p>Northland teacher selected for physics project</p> <p>From <i>Northland Press</i>, Sept. 28, 2010</p> <p>Jackie Kitchenhoff, Northland Community Schools Science Teacher, was one of two Minnesota teachers selected this past summer to participate in an Education and Public Outreach Program sponsored in part by the National Science Foundation and the Department of Energy.</p> <p>The program's goals were to produce two unit plans for a highschool classroom activity using data collected from the MINERvA detector located at Fermilab located just outside of Chicago, Illinois. The lessons challenge students to improve their abstract thinking and inspire a curiosity of subatomic particles and the field of Particle Physics.</p> <p>Read more</p>	<p>Oct. 11</p> <p>Mental Health Awareness Part II - Oct. 12</p> <p>Down Syndrome Awareness Seminar - Oct. 13</p> <p>Access 2007: Intro class offered Oct. 13</p> <p>NALWO Children's Playgroup Halloween Party</p> <p>Word 2007: New Features class offered Oct. 20</p> <p>Excel 2007: New Features class offered Oct. 20</p> <p>Regal Movie Theater discount tickets available</p> <p>Submit an announcement</p>