

## Calendar

### [Have a safe day!](#)

**Monday, Aug. 30**

THERE WILL BE NO PARTICLE ASTROPHYSICS SEMINAR TODAY

**3:30 p.m.**

DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

**4 p.m.**

All Experimenters' Meeting - Curia II

**Tuesday, Aug. 31**

**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.

### [Upcoming conferences](#)

## Campaigns

### [Take Five](#)

### [Tune IT Up](#)

## H1N1 Flu

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

## Weather



**Slight chance of thunderstorms**  
**76°/58°**

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

## Feature

### First African School of Physics empowers students



A small group of students from the first African School of Fundamental Physics and Applications enjoys a day of hands-on science at I-Themba Laboratory for Accelerator Based Science in South Africa.

Students from 17 African countries came together for the rare opportunity to learn about particle physics this month.

Some African students have earned advanced science degrees but are looking for the specialized training in particle physics and its associated applications not usually offered on their own continent.

The first [African School of Fundamental Physics and its Applications](#) in Stellenbosch, South Africa, provided that training and financially supported some African students.

Sixty-five students from around the globe, including more than 50 from African countries, attended the three-week school for an overview of fundamental subatomic physics and its applications. They left with more information than they could process, new friends and connections, and ideas on how to pursue a particle-physics career.

"We really wanted to empower students," said Fermilab scientist and school organizer Christine Darve. "We wanted them to have confidence in their skills and direction for their careers, but we also wanted them to become knowledge ambassadors – to take what they've learned back to their home countries."

Between Aug. 1 and 21, students attended lectures from experts in the particle physics field and participated in small group discussions. They also learned about the

## ES&H Tips of the Week - Health



### Mosquitoes – sometimes more than an annoyance



Photo courtesy of Matteo Dudek through a Creative Commons license.

Anyone who has spent time outdoors lately has been beset by mosquitoes. Though typically we take our lumps and think no more about the insects, their bites can have serious consequences such as West Nile virus or Dengue fever.

The Illinois Department of Public Health recently notified Fermilab that testers found mosquitoes trapped on the laboratory site to be infected with West Nile virus.

Though Fermilab has an aggressive mosquito-control program, mosquitoes with the virus have appeared on site every year since the department began testing in 2001.

Mosquitoes can transmit West Nile virus to humans. According to the department of public health, more than 99 percent of people infected with the virus report no symptoms or have mild illness, such as fever and headache, before fully recovering. The department has recorded [no human cases](#) of West Nile virus this year.

However, the virus can in rare cases cause a serious infection in the brain, West Nile encephalitis. Those over 50 years of age or those whose immune systems are weakened by illness or medical treatment face a higher risk of contracting the disease.

The department of public health website advises: "Illnesses related to mosquito bites are rare. However, you should see a doctor immediately if you develop symptoms such as high fever, confusion, muscle weakness or severe headaches."

For more information, visit the Illinois Department of Health West Nile virus [website](#).

Travelers should also be aware that mosquito-carried Dengue fever has made an atypical appearance in the southern portion of Florida

## Current Security Status

benefits of particle physics to society from experts such as Jim Gates, a member of the President's Council of Advisors on Science and Technology. On their last day, students attended a career workshop where they learned which particle physics institutions offer fellowships and what job opportunities exist.

"I think that most important were the opportunities to be a part of this and to receive guidance about how to grow academically and careerwise," said Ekua Mensimah, a student from the University of Cape Coast, Ghana. "It was also reassuring to know that these opportunities don't end on Aug. 21."

While the students were learning about particle physics, the school organizers were learning more about the students' countries.

"We want to document where these students were from and what science was offered in their home countries in order to better support this kind of education," Darve said.

School organizers are still collecting feedback from the students, which they plan to use to inform the curriculum for the next school, which will take place in two years. The organizers will decide the next school's location this fall.

[Read the press release.](#)

-- *Rhianna Wisniewski*

## Photo of the Day

## Korean ambassador to the United States visits Fermilab



Fermilab Director Pier Oddone showed guests a display about applications of particle accelerators during a visit from His Excellency Duk-Soo Han, the Korean Ambassador to the United States, on Aug. 17.

## In the News

as well as in southern Texas in areas bordering Mexico. Many of the cases originated during travel outside the United States. But some were caused by local mosquitoes. Symptoms include fever, unusually severe headaches and fatigue.

There is no vaccine for West Nile virus or Dengue fever, but you can take measures to reduce the chances of an infection.

1. Stay indoors.
2. Wear long-sleeved shirts and long pants to reduce mosquito access to skin surfaces.
3. Spray long-lasting repellent on clothing to deny mosquitoes a landing site. (More information about repellents is available [here.](#))
4. Spray DEET on skin surfaces to repel mosquitoes.

Read Centers for Disease Control advice for avoiding mosquito bites [here](#).

## Accelerator Update

### Aug. 25-27

- Three stores provided ~28 hours of luminosity
- Store 8010 aborted due to an RF trip
- TeV aborted during shot setup
- CUB LCW isolation valves closed
- Store 8017 quenched due to beam position
- MiniBooNE began taking beam

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

## Announcements

[Fermilab Blood Drive today and Aug. 31 \(Walk in only\)](#)

[Fermilab Procard System – New link starting today](#)

[Workshop on Accelerator-Driven Sub-Critical Systems & Thorium Utilization](#)

[Toastmasters - Sept. 2](#)

[Bod Squad Muscle Toning begins Sept. 2](#)

[Card stamping club and scrapbooking club survey](#)

[Sign up for fall Science Adventures](#)

[Looking for league bowlers](#)

## Wilson Hall Cafe

**Monday, August 30**  
Not available

[Wilson Hall Cafe Menu](#)

## Chez Leon

**Wednesday, Sept. 1 Lunch**  
- Fire steak salad  
- Banana chocolate cake

**Thursday, Sept. 2 Dinner**  
Closed

[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](#)

## Info

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## The strange case of solar flares and radioactive elements

from *symmetry breaking*, Aug. 23, 2010

When researchers found an unusual linkage between solar flares and the inner life of radioactive elements on Earth, it touched off a scientific detective investigation that could end up protecting the lives of space-walking astronauts and maybe rewriting some of the assumptions of physics.

It's a mystery that presented itself unexpectedly: The radioactive decay of some elements sitting quietly in laboratories on Earth seemed to be influenced by activities inside the sun, 93 million miles away.

[Read more](#)

[Bristol Renaissance Faire discount](#)

[Regal Movie Theater discount tickets available](#)

[Scottish country dancing in Ramsey Auditorium through Aug. 31](#)

[International Folk Dancing in Ramsey Auditorium through Sept. 2](#)

[Fermilab Lecture Series Presents A Croc Odyssey: Speedy Gallopers with a Taste for Dinosaur](#)

[Gizmo Guys - Fermilab Arts Series - Sept. 25](#)

[Family Science Time - Saturday, Sept. 25](#)

[Submit an announcement](#)