

## Furlough Information

### Reminder:

An IDES representative will conduct group meetings at 11 a.m. and 12 p.m. in the Wilson Hall One West conference room on Friday, March 21, and Friday, March 28.

New furlough information, including an [up-to-date Q&A](#) section, appears on the [furlough Web pages](#) daily.

## Layoff Information

New information on Fermilab layoffs, including an [up-to-date Q&A](#) section, appears on the [layoff Web pages](#) daily.

## Calendar

### Wednesday, March 19 2-3:30 p.m.

[Central Unix Web Service Town Meeting](#) - One West

### 3:30 p.m.

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

### 4 p.m.

[Fermilab Colloquium](#) - One West

Speaker: J. Mastrianni,  
University of Chicago  
Title: Prions: Misfolded  
Proteins and Fatal  
Transmissible  
Neurodegenerative Diseases

### Thursday, March 20 1 p.m.

Physics and Detector Seminar  
- West Wing, WH10NW  
Speakers: J. Brau, University  
of Oregon, J. Jaros, Stanford  
Linear Accelerator Center  
Title: Report from the GDE/  
ACFA Meeting at Sendai

### 2:30 p.m.

[Theoretical Physics Seminar](#) -  
WH-3NW (NOTE LOCATION)  
Speaker: A. Atre, Fermilab

## Feature

### Mentors needed for SIST



LaTToya Harris, a Summer Internships in Science & Technology program participant in 2006, works on a project for the Antiproton Source.

Each year, 15-20 undergraduates from colleges across the country come to Fermilab to participate in the Summer Internships in Science & Technology program. This intensive 12-week program succeeds year after year not only because of the highly motivated interns but also because of dedicated mentors. And this year, SIST needs additional Fermilab scientists to mentor students.

"We want the interns to have jobs that have some sort of scientific or engineering value," said Accelerator Division's Elliott McCrory, head of the Fermilab SIST Committee. "They need to understand how their job enhances Fermilab."

The SIST program begins at the end of May and concludes in August with a series of presentations given by the interns based upon their summer projects. Each intern also writes a final paper, which will appear online. "SIST gives students real work experience because they do actual projects that a section or division needs to get done," said Dianne Engram, head of Fermilab's Equal Employment Office, which has funded the summer program since it began nearly 38 years ago. "Mentors get the opportunity to guide a young person and strengthen that person's resolve for a challenging career."

Any Fermilab employee or user stationed at the laboratory for more than half of the 12 weeks can volunteer as a mentor. Fermilab's EEO pays the interns a weekly stipend and covers the program's general costs. Mentors

## From CMS Center

### Exciting times

*Lothar Bauerdick, director of the CMS Center at Fermilab, wrote today's column.*

As we get the CMS detector ready for data-taking, it is evident that we are living in exciting times. Many of the assembly activities, which have occurred over several years, are now coming to a successful end. The lowering of the 15 huge, heavy detector pieces, from the surface building where they were constructed into the CMS cavern 100 meters underground, was spectacular. The final piece was lowered at the end of January, ending a 14-month campaign.



Lothar Bauerdick

Lowering was no easy feat. The CMS access shaft is just large enough to fit each slice of the detector. These pieces, weighing up to 2,000 tons, were lowered by an enormous gantry crane through the shaft with sometimes only centimeters of clearance. The lowering team performed this difficult task safely and with great precision, and they succeeded without accident or damage. One could really only appreciate the mind-boggling dimensions of this feat by [seeing](#) it.

We are now close to completing assembly of the underground detector. Only the Pixels Detector and the Endcap Electromagnetic Calorimeter (including the Preshower Calorimeter) remain. We also continue to do a lot of cabling and infrastructure work to advance commissioning of the entire detector.

The focus now moves to taking test data and reading out data sets recorded by the detector subsystems as one piece. Last week's Global Run included most of the subdetectors. It achieved data rates that approached the rates expected when the proton-proton collisions start. This week, all data is being reconstructed with the latest software version and distributed from CERN to Tier-1 centers, including Fermilab, and Tier-2 centers for data analysis by CMS physicists around the world.

Title: Heavy Quarks Above the "Top" at Hadron Colliders  
**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



Partly cloudy  
 43°/28°

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

#### Current Security Status

[Secon Level 3](#)

#### Wilson Hall Cafe

##### Wednesday, March 19

- Portabello harvest grain
- Smart Cuisine: Roasted pepper & artichoke quesadilla
- Hoisin chicken
- Smart Cuisine: Normandy stoganoff
- Cuban panini
- Assorted pizza slices
- Pesto shrimp linguini w/leeks & tomatoes

[Wilson Hall Cafe Menu](#)

#### Chez Leon

##### Wednesday, March 19 Lunch

- Trout almondine
- Lemon scented rice
- Vegetable of the season
- Amaretto cheesecake

##### Thursday, March 20 Dinner

- Seviche
- Paella
- Watercress, oranges & red onion salad
- Brazo de gitano

[Chez Leon Menu](#)

only need to give their time. "The students are top-notch, and they will get the work done," McCrory said. "But you need to work with the student. If you put time into it, you will find it extremely rewarding."

If you're interested in serving as a mentor this summer, please apply [online](#).

--Elizabeth Clements

#### Milestone

### CD's Steve Fry to retire



Steve Fry, a computing network professional, will retire on Thursday after a 24-year career.

When Steve Fry applied for a Tech 1 position at Fermilab in April of 1984, he was looking for something different. Fry, a public school biology teacher for 13 years, had helped to set up a primitive computer network and computer program for a Glen Ellyn school's science department and thought it might make an interesting career. It did.

Fry, a network analyst in the Computing Division, will shutdown his Fermilab computer on Thursday for the last time. He retires after 24 years of helping to connect and maintain the networks of the laboratory's computer systems.

While helping Fermilab, Fry has enjoyed watching technology evolve and contributing to many upgrades and installations required by decades of advancement. "When I first came here in 1984, people at their desktops had dumb terminals with a data rate of  $10^4$  bits per second. Now, people have their own PCs that run at a data rate of  $10^9$  bits per second. Even one order of magnitude change is significant, but five is dramatic," Fry said.

Fry said that one his career highlights was working with the laboratory's many experiments. He most recently set up the computer network for the LHC@FNAL Remote Operations Center. "The work is a pleasure,

At the LHC Technical Committee workshop that ended last week, we gained a better understanding of this year's LHC run plan. Later this year, we are looking forward to recording collisions at energies much above the Tevatron's. CMS will be ready to have its first look at the secrets behind the new energy frontier!

#### Safety Update

### ES&H weekly report, March 18

This week's safety report, compiled by the Fermilab ES&H section, includes one minor, non-reportable first-aid case. The full report is available [here](#).

[Safety report archive](#)

#### In the News

### Flipping particle could explain missing antimatter

From *New Scientist*, March 18, 2008

It is one the biggest mysteries in physics - where did all the antimatter go? Now a team of physicists claims to have found the first ever hint of an answer in experimental data. The findings could signal a major crack in the standard model, the theoretical edifice that describes nature's fundamental particles and forces.

In its early days, the cosmos was a cauldron of radiation and equal amounts of matter and antimatter. As it cooled, all the antimatter annihilated in collisions with matter - but for some reason the proportions ended up lopsided, leaving some of the matter intact.

Physicists think the explanation for this lies with the weak nuclear force, which differs from the other fundamental forces in that it does not act equally on matter and antimatter. This asymmetry, called CP violation, could have allowed the matter to survive to form the elements, stars and galaxies we see today.

The standard model, our best effort to describe the universe's structure, fails to fully explain CP violation. Many alternative theories claim to have the answer, such as those incorporating supersymmetry, extra dimensions and hitherto unseen forces. However, they often invoke new particles, and experiments have yet to turn up evidence of these.

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)

especially once you see how important of a project this is and how many people benefit from it," Fry said.

Although Fry is ready to retire, he will miss the laboratory, particularly the high-quality people he's come to know and admire during the years. They'll miss him as well, said Mark Leininger, Fermilab's computer security manager, who has worked with Fry for more than 20 years.

"Fry is a highly skilled analyst in the network group, with a great attitude and work ethic. The thing I'll remember most about him is that he's always got a smile on his face and something pleasant to say. Everyone who knows Steve will miss him professionally and personally. I know he will enjoy retirement as he pursues his love for classical music and begins a new adventure learning to play the piano," Leininger said.

During his retirement, Fry and his wife, Leronna, plan to add to their reading library and Fry's classical music collection. He also may take up substitute teaching again. "Then I'll have come full circle," Fry said.

Say farewell to Steve Fry at the Venice Tavern today at noon. The luncheon costs \$15 per person and includes food, drink, tax, tip and a gift. Call Mark Leininger at x4776 for more information or to reserve a seat.

--*Rhianna Wisniewski*

[Read more](#)

## Announcements

### Unix Web service meeting

The CD Central Services Group will hold a central Unix Web service town meeting on Wednesday, March 19, to get input on Web needs and long-term Web service direction.

### Going to CERN?

Take your camera! Have your photos featured in the Fermilab Remote Operations Center online gallery. Contact [Elizabeth Clements](#) for details.

### Benefit statements

Watch your Fermilab mailbox for your 2007 Annual Benefit Statement. Please take this opportunity to review your benefits. If you have any questions or feedback regarding your statement, please contact the Benefits Administration Office. You may call Mary Todd at x4361; Scott Lindsey, x4362; or Kay Campbell, x3395.

### Standard mileage reimbursement rate

The Internal Revenue Service and the General Services Administration have issued the 2008 standard mileage reimbursement rates as 50.5 cents per mile, effective March 19, 2008.

### Additional Activities