

## Furlough Information

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

## Layoff Information

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

## Calendar

### Tuesday, May 13

2:30 p.m.

[Special Particle Astrophysics Seminar](#) - Curia II

Speaker: R. Aloisio, Laboratori Nazionali Gran Sasso

Title: A Comprehensive Analytical Approach to UHE Particles Propagation in Astrophysical Backgrounds

3:30 p.m.

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

4:00 p.m.

Budker Seminar - One North  
Speaker: J. Keung, University of Pennsylvania

Title: A0 Photo Injector: Laser Timing Jitter

### Wednesday, May 14

3:30 p.m.

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

4:00 p.m.

[Fermilab Colloquium](#) - One West

Speaker: B. Bassler, Princeton University

Title: Small Talk: Cell-to-Cell Communication in Bacteria

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

## Weather

## Feature

### Students report on the importance, design of proposed linear collider



Peter Garbincius speaks to Rotolo Middle School students in Batavia about the physics, design and goals of current and future accelerators.

Members of the latest group exploring the proposed International Linear Collider lack physics degrees. In fact, they don't yet have high school diplomas.

To teach 35 eighth-graders about particle physics, Batavia Rotolo Middle School teachers Macy Felter and Elizabeth Selander had them study the ILC, the proposed next-generation particle accelerator.

"We've never tried anything like this before. It is great to see Fermilab people, these world-famous scientists, willing to come and help them," Selander said.

Students created reports that address the importance of the quantum universe, how the ILC functions compared to other colliders and what information scientists hope the ILC will yield. Students gained insight from the *Gateway to the Quantum Universe* document, the Internet, and three Fermilab scientists, Peter Garbincius, Jean Slaughter and Eric Prebys, who spoke about the physics, design and goals of current and future accelerators.

"They understood exactly what I said," Garbincius said. "I couldn't keep up with their questions."

To mimic work in large international scientific collaborations, students researched in large teams and smaller subgroups. They learned

## Director's Corner

Director Pier Oddone is on furlough. The column will resume next week.

## Photo of the Day

### Tevatron celebration



AD, DZero and CDF members Friday celebrate a trio of Tevatron luminosity records at the Users' Center. Last week, the Tevatron set records for integrated luminosity, daily luminosity and recorded luminosity. The Tevatron's peak performance paves the way for upcoming discoveries.

## Accelerator Update

### May 9-12


- Five stores provided 62 hours and 34 minutes of luminosity
- Linac experts investigate Klystron trips
- Controls experts replace MI-31 network switch
- MI and Booster experts work on NuMI intensity
- 30mA stack lost
- Record integrated luminosity of 56.085 inverse picobarns last week

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

## Announcements

 **Partly Sunny**  
73°/54°

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

**Current Security Status**

[Secou Level 3](#)

**Wilson Hall Cafe**

**Tuesday, May 13**

- Chicken and rice soup
- \*Low carb burger
- Baked meatloaf w/gravy
- Salmon provencal
- Peppered beef
- Assorted pizza slices
- Chipotle chili and queso nachos supreme

*\*Denotes carb-restricted alternative*

[Wilson Hall Cafe Menu](#)

**Chez Leon**

**Wednesday, May 14  
Lunch**

- Stuffed filet of sole
- Lemon grass rice
- Spring vegetables
- Rhubarb & apple turnover

**Thursday, May 15  
Dinner**

- Mushroom duxelle in a vol-au-vent
- Halibut w/Veracruz sauce
- Jasmine rice
- Chocolate raspberry cake

[Chez Leon Menu](#)

Call x4598 to make your reservation.

**Archives**

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[ILC NewsLine](#)

the importance of dividing up research, how to work effectively in various environments and that science can be cool.

"This was more fun (than typical science classes) because more people are involved," said 14-year-old Chris Spadafora. "It feels kind of cool to do what scientists do."

The students will present one of their reports to Fermilab. They will visit Wilson Hall for the first time next week.

"Fermilab is such an important asset in this community, and so world famous," Felter said. "We wanted them to look at the collaborative nature of particle physics, to know that it isn't just us versus them."

-- *Rhianna Wisniewski*

### Special Announcement

## APS checks health of lab

Fermilab and the American Physical Society want to know what you think about life at the laboratory.

APS members will visit the laboratory May 20-21 to assess the work climate for women and minorities. The visit grew out of a recommendation by a Fermilab committee set up to look at recruitment and retention of scientific staff. Previous climate studies have focused more on regular full-time employees rather than a wider spectrum that includes graduate students and postdocs. The more people who participate in the visit, the truer picture of laboratory life will emerge.

"This will give us ideas of focal places in our climate for further assessments, and to hear what people want or need to make their work experience rewarding and supportive," said Dianne Engram, of Workforce Development's Equal Opportunity and Counseling division.

APS has held similar site visits and surveys at other national laboratories and at university physics departments. To learn more about the visits see the [APS Web site](#).

During the Fermilab visit, APS representatives will meet with groups of senior scientists, engineers, computer professionals, postdocs, graduate students and Fermilab management.

Employees may sign up to attend more than a dozen discussion meetings. Employees also may sign up to meet individually with the site team. View the meeting schedule here: [## \[Have a safe day!\]\(#\)](http://</a></p></div><div data-bbox=)

### Take a walk on the wild side

Fermilab Natural Areas offers a mid-day tour of the woodland wildflowers from 11:30 a.m. to 12:30 p.m. Wednesday, May 14. Bob Lootens and Ryan Campbell will answer questions and explain the history of the spring plants and wildflowers now at their seasonal peak.

Wear sturdy shoes for the dirt and grass path. Meet at the Prairie Interpretive Trail on westbound Pine Street across from the Lederman Science Center. In the event of bad weather, the walk will occur at the same time Friday, May 16.

Similar wildflower tours have occurred in the past. The FNA hopes to make the walk an annual event. FNA, a not-for-profit started by employees, aims to conserve and restore the laboratory's ecosystem and foster environmental outreach. For information about FNA call (630) 840-3303 or e-mail [fna@fra-hg.org](mailto:fna@fra-hg.org) or look online at [www.fermilabnaturalareas.org](http://www.fermilabnaturalareas.org).

### National Bike to Work Day needs you

Between 100 and 125 conservation-minded and health-conscious employees at Fermilab plan to pose for a photo at noon Friday, May 16, in honor of National Bike to Work Day. Anyone who commutes by bicycle, even sporadically, is welcome to join in the picture in the horseshoe in front of Wilson Hall. Fermilab Bicycle Commuters organize the photo. The group has about 100 regular commuters as well as many new members giving commuting a try because of rising gas costs. For 2008, the standard mileage rate for the cost of operating your car for business use is 50.5 cents per mile. Fermilab commuters cycling 2 ½ to 15 miles for work save between \$1.20 and \$7.60 a day, according to the commuters' Web site: <http://bike.fnal.gov>

### Fermi Research Alliance, LLC (FRA) retirement plan changes

The Summary Plan Description for the FRA Retirement Plan has been updated to reflect a major change to the plan:

A terminated participant is not subject to the age and service requirement in order to be eligible for a cash withdrawal. You may elect a cash distribution from TIAA and CREF Retirement Annuities. Withdrawals from the TIAA Traditional Retirement Annuity accumulations are only possible using a Transfer Payout Annuity (TPA). If the accumulation is less than \$10,000, it would be

*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)

Space is limited to facilitate discussion. Meeting slots will be filled in the order requests are received. The APS Team wishes to keep the focus group meetings to 20 people. To register, contact Dianne Engram at [engram@fnal.gov](mailto:engram@fnal.gov) with your name, position and which meeting you want to attend.

### In the News

## Physicists and engineers search for new dimension

From *Tech Journal South*, May 8, 2008

Imagine Twilight Zone music: the universe as we currently know it is made up of three dimensions of space and one of time, but researchers in the Department of Physics and the Department of Electrical and Computer Engineering at Virginia Tech are exploring the possibility of an extra dimension.

Sound like an episode from the "Twilight Zone"?" Almost, but not quite; according to John Simonetti, associate professor of physics in the College of Science and Michael Kavic, graduate student and one of the investigators on the project.

"The idea we're exploring is that the universe has an imperceptibly small dimension (about one billionth of a nanometer) in addition to the four that we know currently," Kavic said. "This extra dimension would be curled up, in a state similar to that of the entire universe at the time of the Big Bang."

[Read more](#)

provided in one lump sum.

The Summary Plan Description for the Retirement Plan is posted on the [Benefits Web site](#) for your review.

### Users' meeting June 4, 5

Fermilab will host the annual Users' meeting on Wednesday, June 4, and Thursday, June 5. For more information or to register, visit the [Users' Meeting Web site](#).

### Barnstormers meeting May 14

The Fermilab Barnstormers will conduct their monthly meeting on Wednesday, May 14, at 5:30 p.m. at the Frelø Flying Field next to site 39. In bad weather, the meeting will take place at the Users' center. Any employees or users interested in model airplanes are welcome, and perhaps will even get some dual stick time with an instructor.

### Linear Collider School accepts applications through May 15

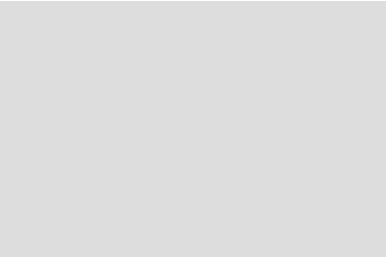
The Third International Accelerator School for Linear Colliders will accept applications through May 15. Fermilab will host the school Oct. 19-29 at the Oak Brook Hills Marriott Hotel in Oak Brook. Graduate students, postdoctoral fellows, junior researchers and physicists considering a career change from experimental to accelerator physics may apply. The school will focus on TeV-scale linear colliders including the International Linear Collider and the Compact Linear Collider (CLIC). Visit the [school Web site](#) to apply or for more information.

### Women can provide feedback on work environment at May 14, 28 luncheons

Calling all female staff, users and student and senior scientists! Fermilab Deputy Director Young-Kee Kim would like to hear about your work environment at Fermilab. Please join her for a lunchtime meeting from noon-1 p.m. on May 14 or 28. The meetings will take place in the small dining room in the southwest corner of the atrium in Wilson Hall. Please bring your lunch. To arrange a private meeting with Young-Kee Kim, please contact Marilyn Smith via [e-mail](#).

### 2008 CTEQ-MCnet School

The application deadline for the 2008 CTEQ-MCnet Summer School on QCD Phenomenology and Monte Carlo Event Generators is May 14. The school, co-sponsored by Fermilab, will be held in Debrecen, Hungary, from August 8-16. The program includes lectures on QCD theory, phenomenology and analysis as well as hands-



on sessions on event-generator physics and techniques. Enrollment is limited to 80 participants. Applications from postdocs are particularly encouraged. [More information](#)

[Additional Activities](#)