

Furlough Information

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, 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

Thursday, May 15

1:00 p.m.

Physics and Detector Seminar
- West Wing WH-10NW

Speaker: E. Paterson, Stanford

Linear Accelerator Center

Title: ILC Cost Reduction

2:30 p.m.

[Theoretical Physics Seminar](#) -

Curia II

Speaker: T. Taylor, Northwestern University

Title: Jet Signals for Low Mass Strings at the LHC

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

Feature

June 4-5 Users' Meeting looks to future of field, Fermilab



Participants enjoy a break between sessions at the 2006 Users' Meeting.

For two days this year, the laboratory's past, present and future will converge in one space.

"This year's meeting will draw particular interest. We will hear about a wealth of new results, and will also have the opportunity to hear about future directions for the laboratory and the planning process for high-energy physics," said Kevin Pitts, Users' Executive Committee chairman. "The Users' Meeting is a great opportunity for our user community to learn about and discuss both the present and future programs."

The 2008 annual Users' Meeting will take place at Fermilab on Wednesday, June 4, and Thursday, June 5. Registration is free. All users and employees are invited to attend. Speakers include: Charles Baltay, chair of the Particle Physics Project Prioritization Panel (P5); Mike Holland, from the Office of Management and Budget; Dennis Kovar, of DOE; and Joe Dehmer, of NSF. Other highlights include awarding the 2008 Tollestrup Prize and the 2008 URA Thesis Award.

In conjunction with the meeting, the Fermilab Arts and Lecture series will host a lecture "The Endless Universe," an alternative to the Big Bang theory, by Paul Steinhardt, Albert Einstein Professor of Science from Princeton University. Unlike previous years, the lecture committee will not hold tickets for users without reservations.

From the Accelerator Physics Center

Accelerator school makes great progress in difficult year

William Barletta, USPAS Director, wrote this week's column

Each year the U.S. Particle Accelerator School holds two academic sessions hosted by prestigious research universities that grant academic credit to attendees. Since 1987, we have offered more rigorous and diverse, for-credit courses in accelerator science and technology than any university in the world.



William Barletta,
USPAS Director

We are presently preparing for our summer 2008 session hosted by the University of Maryland that features newly developed courses – "Beam Dynamics Experiments," "Vacuum Electron Devices," and "Control Room Physics Applications Programs." The full program is available [here](#). The session has more than 150 students enrolled from 20 countries.

In partnership with Fermilab and Argonne, USPAS is supporting the Lee Teng Summer Internships. Next month, 10 undergraduates will receive a scholarship to the USPAS session, and then return to the laboratories for several weeks of research with their mentors. We are working with other national laboratories to create similar internship programs.

Special offerings at our winter session, hosted by the University of California at Santa Cruz and attended by about 150 students, focused on synchrotron light sources and free-electron lasers. Two new hands-on courses were offered, "Synchronization, Timing & RF Processing," and "Beam Diagnostics Using Synchrotron Radiation." Mike Syphers, of Fermilab, developed a new course, "Charged Particle Optics in High Energy Accelerators." Syphers received our "Iron Man" recognition for teaching more than 400 USPAS students in 11 courses during the past 20 years. Another gratifying note is that five of our



Partly Cloudy
65°/45°

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

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Wednesday, May 14

- Portabello harvest grain
- Smart cuisine roasted pepper & artichoke quesadilla
- Hoisin chicken
- Smart cuisine Normandy stoganoff
- Cuban panini
- Assorted slice pizza
- Pesto shrimp linguini w/leeks & tomatoes

[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

The [Users' Meeting Web site](#) provides a tentative agenda and other information about the 2008 meeting. Reservations for the lecture can be made by calling (630) 840-2787.

Following the Users' Meeting, Fermilab and the UEC will hold the third Workshop on Physics with a high-intensity proton source.

The workshop begins with a town meeting in One West on the evening of Thursday, June 5, and continues the next day. A preliminary program and registration are [here](#).

-- *Rhianna Wisniewski*

Feature

Review sparks change in badge verification practice

You may have noticed the Fermilab security force getting a little more up close and personal lately.

Trinity Protection Services, Inc, the site security contractor, instituted a new practice a few weeks ago that requires guards touch badges of employees driving through entry gates.

The change stems from a performance review in which a TPS supervisor noted that some people were entering the site using expired badges. Guards must confiscate expired badges and give them to Fermilab security staff. Although it is not specified in the contract with DOE, Trinity decided to require handling of the badges to improve tampering detection and to help ensure that persons entering the site use active badges.

Correction

In [Friday's issue of Fermilab Today](#), a photo caption incorrectly stated that a radar gun measures the wavelength shift of electromagnetic waves bouncing off a car moving away from a radar gun. Fermilab physicist Hans Jostlein caught the error and pointed out that the redshift of these waves would be too small for a radar gun to measure. He wrote, "What happens instead is that the radar gun compares the phase of the reflected microwaves to the phase of the emitted radiation. In physics terms, the device may be best described as a type of interferometer." *Fermilab Today* regrets the error.

In the News

instructors at this session were former USPAS students.

More than 3,000 individual students and faculty from more than 25 countries have participated in USPAS sessions. Even though we offer scholarships, including lodging, to graduate students in good standing, for students from developing countries, the cost of travel can be a daunting obstacle. We are pleased to receive the first travel grant from the American Physical Society Office of International Affairs to award to a deserving student from a developing country.

I am pleased to announce that the Domestic Nuclear Detection Office of the Department of Homeland Security will join the DOE and NSF as sponsors of the USPAS. DNDO's support will add fiscal stability in troubled financial times. Finally, on behalf of the USPAS Governing Board institutions, I extend my hearty thanks to our instructors. Their dedication and hard work in developing and offering courses of high academic quality make the USPAS a great, continuing success.

Safety Update

ES&H weekly report, May 13

This week's safety report, compiled by the Fermilab ES&H section, lists no incidents for the past week. Congratulations to all for working safely! The last recordable injury occurred 37 days ago. Find the full report [here](#).

[Safety report archive](#)

Announcements

Women can provide feedback on work environment at luncheon today

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](#).

Take a walk on the wild side today

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

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[ILC NewsLine](#)

Info

Fermilab Today is online at:
www.fnal.gov/today/

Send comments and suggestions to:
today@fnal.gov

Freshmen get ball rolling on physics

From *Chicago Tribune*, May 13, 2008

Many high schools alter traditional order of classes to hook students on science earlier

Bucking tradition about how science is taught, several Chicago-area high schools are reshuffling courses to begin freshman year with physics.

The shift marks one of the most dramatic changes to science education in nearly a century and comes amid demands for more rigor in high school science and math programs nationwide. As it stands, most students stop taking science classes before they get to physics.

Biology typically leads off high school, followed by chemistry and then physics, a pattern that scientists say dates to the end of the 19th Century. By starting with physics—a science that explains speeding cars and loud music—educators hope to hook students so they'll continue beyond the two years of science required in Illinois.

"This is relatively radical," said Gerry Wheeler, director of the National Science Teachers Association and a former physics instructor. "We haven't really looked at the education curriculum for many, many years. It's a flip-flop of what's been going on in the country."

[Read more](#)

In the News

There's a science to fun

From *Lake County News-Sun*, May 9, 2008

10,000 students attend physics class at Six Flags theme park

Physics + Six Flags Great America = Fun!

OK, maybe there was some work involved, evident by the fact that there were clutches of kids sitting on benches and at tables Thursday at Six Flags Great America filling sheets of paper and using things called "spring accelerometers" and stop watches.

About 10,000 elementary and high school students from Illinois, Indiana, Wisconsin and Michigan descended on the theme park for Physics Day.

[Read more](#)

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. For information about FNA call (630) 840-3303 or e-mail fna@fra-hg.org or look online at <http://www.fermilabnaturalareas.org>.

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.

2008 CTEQ-MCnet School deadline today

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](#)

Fermilab Singers to perform May 16

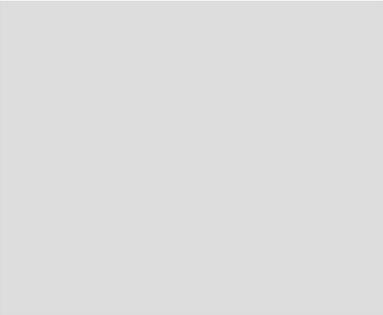
The Fermilab Singers will perform a concert at noon on Friday, May 16, in Ramsey Auditorium. A short reception will follow in the lobby. Please join us. For more information, see the Fermilab Singers Web site: <http://www.fnal.gov/orgs/choir/>

National Instruments mobile expo

From 9 to 11 a.m. Friday, May 16, in the Wilson Hall west parking lot you can see demonstrations of the latest technologies for automated test. The National Instruments Expo showcases a variety of example systems that tackle mechanical, DC, RF and mixed-signal test.

National Bike to Work Day needs you

Between 100 and 125 conservation-minded and health-conscious employees at Fermilab



plan to pose for 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 are organizing the photo.

[Additional Activities](#)