

Calendar

Wednesday, October 4

11:00 a.m. Fermilab ILC R&D Meeting - 1 West

Speaker: L. Emery, Argonne National Laboratory

Title: Status of ILC Damping Ring Design

3:30 p.m. Director's Coffee Break - 2nd floor crossover

4:00 p.m. Fermilab Colloquium - 1 West

Speaker: K. Kumar, University of Massachusetts, Amherst

Title: Electrons and Mirror Symmetry

Thursday, October 5

1:00 p.m. ALCPG ILC Physics & Detector R&D Seminar - West Wing (WH-10NW)

Speaker: T. Raubenheimer, Stanford Linear Accelerator Center

Title: Tradeoffs Between ILC Cost and Luminosity

2:30 p.m. Theoretical Physics Seminar - Curia II

Speaker: C. Kao, University of Oklahoma

Title: $B_s \rightarrow \mu\mu$ vs. Direct Higgs Searches 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 a full calendar with links to additional information.

Weather

Take DOE's pledge: Change a light, change the world



Secretary Bodman takes the "Change a Light" pledge.

WASHINGTON, DC – U.S. Secretary of Energy Samuel W. Bodman takes the "Change a Light" pledge at the Department of Energy, challenging 120,000 DOE employees and all Americans to replace at least one traditional light bulb with an energy-efficient compact fluorescent bulb at home.

"The Department of Energy encourages all Department employees and all Americans to answer the President's call to be more energy efficient," Secretary Bodman said. "Taking small and easy steps, such as replacing light bulbs with newer, more efficient compact fluorescent bulbs, can add up to real, substantive savings."

If every household in America changed one bulb to a CFL, combined efforts would save 5.6 billion kilowatt-hours of electricity per year or \$526 million a year in electric expenses. If everyone at the Department changed one light bulb, it would save enough energy to light 3,065 homes for a year, would reduce carbon dioxide emissions equal to removing 886

From FESS

Staying focused for safety

This week's column is written by Randy Ortgiesen, head of Facilities Engineering Services Section.

Did you know that a home fire is reported every 79 seconds? That three in 10

reported home fires start in the kitchen? That the leading cause of home fires is unattended cooking? I didn't



Randy Ortgiesen

know, but I could have guessed from any number of my pot-holders burned around the edges from sitting too close to the stove. The week of October 8 is [National Fire Prevention Week](#), and let's not miss this opportunity to remind ourselves about safety awareness for both home and work.

I recently participated in the Director's Safety Panel on Injury Reduction--a big "Ah-ha!" experience for me. We saw clearly that lab employees are well trained and use personal protective equipment. The only common element in most of the injury cases was an apparent lack of awareness of one's surroundings. Perhaps becoming too comfortable in the work routine led to a lapse of focus for only for a moment - the wrong moment!

I'd like to tell you that I work as safely at home as I do at the lab. This isn't always the case, but it should be--and I am getting better! Whether burning a brush

T-Storms Likely **71°/49°**[Extended Forecast](#)[Weather at Fermilab](#)**Current Security Status**[Secon Level 3](#)**Wilson Hall Cafe****Wednesday, October 5**

- Portabello Harvest Grain
- Santa Fe Chicken Quesadilla
- Teriyaki Chicken with Vegetables
- Beef Stroganoff
- Triple Decker Club
- Assorted Slice Pizza
- Pesto Shrimp Linguini with Leeks and Tomatoes

[Wilson Hall Cafe Menu](#)**Chez Leon****Wednesday, October 4****Lunch**

- Enchilada de Mole
- Ensalada de Nopalito
- Pastel de Tres Leche

Thursday, October 5**Dinner**

- Booked

[Chez Leon Menu](#)

Call x4598 to make your reservation.

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cars from our parking lots, and would have the same effect as planting 1,260 acres of trees. To take the pledge, and for more information, visit [this website](#).

Photo of the Day

World's cutest snake: Believe it or not, this picture is real. Fermilab Physicist Tim Koeth found this snake Saturday when security guards were removing it from Batavia Road near the guard house. "I took it to my office to snap a couple of quick pictures of it on a piece of white paper next to a quarter," he said. "It was quite friendly and kind of cute."

In the News**Science, September 29, 2006:****Embracing Small Science in a Big Way**

The U.S. Department of Energy redirects its big machines toward small-scale research, as materials science overtakes particle physics

The heftiest building blocks of nature were discovered at the Stanford Linear Accelerator Center (SLAC). In 1967, researchers at the Menlo Park, California, laboratory shot electrons from a 3-kilometer-long "linac" into protons and detected the first hints of smaller particles within. Those infinitesimal bits of matter, known as quarks, are now a cornerstone of the so-called Standard Model, which describes how one type of quark decays into another. Nearly 40

pile, cleaning out my gutters, or lifting something heavy, why do I not feel as much risk at home? Is it because my Senior Safety Officer isn't watching, or I didn't need to complete a hazard analysis, or work is less hazardous at home, or the schedule is more important? No, no, no and no!

When I say that my frame of mind changes somewhat at home as well as my focus, I am acknowledging what the panel discovered as possibly the leading cause of injuries here at work. Let's use next week's fire prevention awareness to remind us about staying focused and fresh regarding the routine of all our activities at home and at work.

Announcements**Free training on digital certificates**

Digital certificates are commonly used at Fermilab and the broader open science community. If you've ever shopped online, the underlying technology that allows the transaction to remain secure is based on the use of digital certificates.

A new course at Fermilab will provide background on certificates, then give specific instructions on how to install certificates in your browser, including the two most popular certificates at Fermilab: KCAs and DOEGrids. Internet Explorer, the Netscape family, and Safari will be addressed. The course schedule is [here](#).

Employee Orientation

There will be an employee orientation today regarding the new benefits available to employees and their immediate families, October 4, at 11:30 a. m., 12:30 p.m. and 4:30 p.m. in Curia II. The presentations will take only 10-15 minutes and will cover the legal,

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years later, high-energy physicists still use the linac to feed particles into a collider, called PEP-II, with which they compare quarks and antiquarks.

But in 2008, PEP-II will shut down, and a year later, researchers at SLAC will power up the world's first x-ray laser, the Linac Coherent Light Source (LCLS). It won't produce exotic subatomic particles that might allow researchers to peer further into the fundamental structure of matter. Instead, by shining a billion times brighter than other x-ray sources, LCLS will probe the properties of familiar materials in unprecedented ways, determining, for example, the structure of a protein from a sample of just one molecule. "The LCLS will be revolutionary," says Persis Drell, SLAC's deputy director for particle physics.

[Read More](#)

financial, and web-based services as well as allow time for questions about the new program.

Discounted Tickets

The recreation office is offering discounted tickets for "Circus of Dreams" at the Allstate Arena, Radio City Christmas Spectacular at the Rosemont Theater, and "The Mikado" at the Cahn Auditorium. To find out more about these shows and special offers, visit the [recreation website](#).

Submit Intent Applications for Employee Art Show today

The employee art show is coming up soon, now's the time to submit a letter of intent to enter. The letter is due today, October 4. Any current or retired employee, contractor, user or relative of an employee is invited to participate. Read more about the show, and find an application, on the [gallery's website](#).

Upcoming Activities