

Calendar

Mon., December 4

2:30 p.m. Particle Astrophysics Seminar - Curia II
 Speaker: E. Lim, Yale University
 Title: Large Non-Gaussianities from Single Field Inflation
3:30 p.m. Director's Coffee Break - 2nd floor crossover
4:00 p.m. All Experimenters' Meeting - Curia II
 Special Topics: SciBooNE Construction Progress; Tevatron Low-Beta Optics Measurements and Upgrade Plans

Tue., December 5

3:30 p.m. Director's Coffee Break - 2nd floor crossover
4:00 p.m. Accelerator Physics and Technology Seminar - 1 West
 Speaker: N. Eddy, Fermilab
 Title: Beam Control and Monitoring with FPGA-Based Electronics: Status and Perspectives

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

Weather



Snow Flurries 25°/3°

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

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Monday, December 4

Not Available

[Wilson Hall Cafe Menu](#)

Chez Leon

Feature Story

Planning for ILC success through shared databases



Participants in the five-day course at Fermilab.*

Designing, building and operating the ILC will require an unprecedented level of world-wide collaboration. To make this possible, collaborators will use a shared Electronic Data Management System. This will allow them to contribute, extract and edit live data in real time. A pilot EDMS, set up by DESY in Hamburg, is already in use by the ILC cryomodule design team. Its success will provide a model for other ILC databases.

This week Fermilab hosted a five-day training course for scientists, physicists and engineers in the use of the design database. This database will allow all engineering data to be shared amongst the collaboration in real time. This is a first.

"In the past everyone had their own models and drawings, which could be shared through downloading," said Don Mitchell, who taught the classes. "But by then, if the design is changing, it is obsolete. This database allows us to always be working with current, live data."

Don Mitchell, a mechanical engineer in the technical division, is the design team leader for the ILC's cryomodules. The design team is made of scientists, engineers and designers from INFN Milan, INFN Pisa, KEK and Fermilab. This week representatives from each institution learned how to use the database interface, how to design with CAD software and how to use the visualization software (VisView). VisView displays CAD data as two and three dimensional models, enabling the whole ILC community to view the

Safety Tip of the Week

Where did you get that?



There are things you just can't find on eBay.

When you procure something, how do you know you'll get a good fit to your needs? Will regulations be violated, hazards introduced, benefits overlooked? At Fermilab, most procurement actions are reviewed for environmental, safety and health issues at the division and section level. This process is described in ES&H Manual [chapter 5010](#), which is being updated to include acquisition from government excess.

As with many new rules, this addition was motivated by a particular incident. Fermilab acquired two laminar flow hoods from government surplus. They came equipped with germicidal UV lamps that an employee used to illuminate material samples for photographing. Later that night the worker experienced face redness and eye irritation from his brief exposure to UV. Fortunately, there was no lost work time and the effects of exposure completely resolved in a few days. Because the hoods came through government surplus, there had been no requirement for ES&H review.

A good way to deal with potential ES&H procurement issues is to educate yourself and make an informed decision. Sometimes it also pays to consult an expert. A good place to start your questioning is with your immediate supervisor or ES&H personnel within your division or section. If they don't have the answer, it is likely they know someone who does.

[Safety Tip of the Week Archive](#)

Accelerator Update

**Wednesday, December 6
Lunch**

Catfish Fillet with Coarse Mustard Sauce
Roasted Corn and Red Pepper
Tomato Rice Pilaf
Chocolate Pecan Tart

**Thursday, December 7
Dinner**

Steamed Mussels in White Wine, Garlic & Thyme
Veal Marsala
Orzo with Pine Nuts
Sautéed Spinach with Lemon Zest
Pear Hazelnut Soufflé

[Chez Leon Menu](#)

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/

Send comments and suggestions to:
today@fnal.gov

design and specifications of ILC hardware.

"The exciting thing about this class is that it is the first instance of using an integrated database, where people can use live data concurrently," said Mitchell. "It's time for everyone in the ILC community to start thinking about what it will take for their institute to use one database. This pilot program is a success story."

Early in 2007 DESY will launch the official ILC CAD database.

--D. A. Venton

*Top picture, from left: Don Mitchell, FNAL; Chuck Grimm, FNAL; Serena Barbanotti, INFN Milan; Maurizio Massa, INFN Pisa; Paolo Pierini, INFN Milan; Andrea Basti, INFN Pisa; Nicola Panzeri, INFN Milan; Norio Higashi, KEK; and Norihito Ohuchi, KEK.

In the News***Wired*,
November 30, 2006:****Squarks, Bosons and Zinos, Oh My!**

GENEVA -- Dick Loveless is comfortable with uncertainty.

In one sense, that's just a job description. After all, he's a particle physicist, and something called the uncertainty principle is one of the basic underpinnings of his field. But driving across the countryside here on the way to CERN's new Large Hadron Collider, or LHC, particle accelerator, Loveless means something else.

"I'm looking for new physics," he says. "This is a new land. We're like Columbus here. I don't know what we'll find."

[Read More](#)

The following LHC-related stories were also published in *Wired* magazine last Wednesday:

[Inside the Large Hadron Collider](#)
[Physics Frontier Goes Euro](#)
[Subatomic Inferno Under the Alps](#)

November 29 - December 1

- Two stores provided 40 hours and 45 minutes of luminosity
- ComEd power glitch causes equipment trips, store continued
- Booster and Linac repair RF stations
- NuMI and MiniBooNE took beam

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements**Missed work because of snow?**

If you missed work Friday because of the snow, mark an "O" on your timesheet and note that it was weather-related. (You will still receive pay for an excused absence due to snow.) Call Payroll at x3046 with questions.

NALWO Holiday Trip

NALWO is organizing a holiday trip to Chicago on Saturday, December 9. Enjoy shopping, music and entertainment at Chicago's largest open-air holiday festival, the German-American "Christkindlmarket" at Daley Plaza-- or try skating on the ice rink at Millennium Park, which is free and open to the public. The bus will be leaving from the Lederman Science Center at 10:00 a.m. and we will return by 4:30 p.m. There is no charge for the bus. To register or for further information please contact: Selitha Raja at (630) 305-7769 or selithar@hotmail.com

Wilson Hall Stocking Stuffer Sale

Prepare for the holidays and winter season with Fermilab winter apparel, stocking stuffers, coffee mugs, science toys, and more. The sale will be held outside One West on December 6 and 7 from 10:00 a.m. to 1:30 p.m. Visa and MasterCard will be accepted.

Blood Drive

Did you know that a single pint of blood can help three different patients? Your next chance to donate will be on December 11 and 12 at Fermilab, from 8:00 a.m. to 2:00 p.m. This year, each donor will receive a Heartland Blood Center jacket. Visit the [ES&H website](#) to sign up.

[Upcoming Activities](#)