

## Calendar

### Wednesday, May 18

**11:00 a.m.** Fermilab ILC R&D Meeting, 1

West Speaker: C. Milstene

Title: Light Stops and Dark Matter at the ILC

THERE WILL BE NO PROTON DRIVER GENERAL MEETING THIS WEEK

**11:30 a.m.** Employee Health & Fitness

Day Walk

Run or Bike around the Ring

**3:30 p.m.** DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

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

Speaker: A. Höcker, Laboratoire de l'Accélérateur Linéaire

Title: B Physics, CP Violation and the CKM Fit

### Thursday, May 19

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

Speaker: U. Haisch, Fermilab

Title: The Good, The Bad and The Ugly in Inclusive Radiative B-Decays

**3:30 p.m.** DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

## Weather



Breezy **76°/56°**

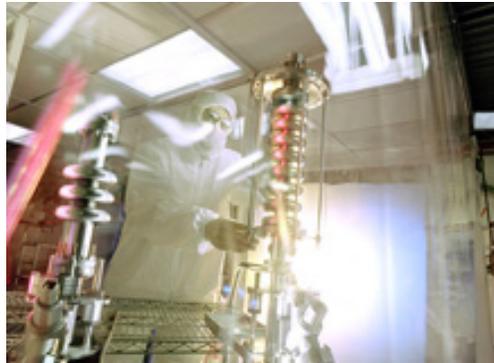
[Extended Forecast](#)

[Weather at Fermilab](#)

## Current Security Status

## ILC Accelerator R&D Aims: Cut Risk, Aid Bid to Host

*This article is the second of a three-part series on the EPP 2010 meeting at Fermilab. Thursday: Director-designate Pier Oddone's vision of the future of Fermilab.*



Scientist James Santucci assembles a superconducting RF structure in a clean room at Fermilab. The niobium cavities are a key component of the "cold" particle acceleration technology chosen for design of the proposed International Linear Collider. (Photo: Peter Ginter)(Click on image for larger version.)

Fermilab Associate Director for Accelerators Steve Holmes posed the big questions immediately about accelerator R&D for the proposed International Linear Collider. "Is this thing going to work?" Holmes said, introducing his talk on Monday to the EPP 2010 panel. "And what is it going to take to get us there?"

The R&D program includes significant US presence with all major subsystems of the machine, Holmes said, which is needed to mount a credible bid to host the ILC. The Fermilab ILC effort focuses on leadership in superconducting radiofrequency (SC RF) technology, establishing lab-based facilities for fabricating and testing as part of a US-

## Director's Corner

*The Director's Corner is running on Wednesday this week because of the EPP 2010 meeting, which took place on Monday and Tuesday.*

## Good Morning!

This edition of Fermilab Today includes the second in a three-part article on the meeting of the National Academy panel EPP2010: Elementary Particle Physics in the 21st



Mike Witherell

Century. I can't add much to the Mike Perricone's detailed reports of that meeting, but I can share with you my personal perspective.

I thought that Monday was a very good day for Fermilab and for particle physics in the U.S. The speakers, who were primarily from the Fermilab staff and user community, did an outstanding job of articulating the opportunities for discoveries in particle physics and of describing the experiments and accelerators needed to realize those opportunities.

For those of you who were not there, I particularly recommend to you Pier Oddone's talk, "A Vision for Fermilab." The transparencies will be [posted online](#). In addition, the streaming video will be available at Visual Media Service's archive.

## [Secon Level 3](#)

### Wilson Hall Cafe

#### Wednesday, May 18

Portabello Harvest Grain Soup

Santa Fe Chicken Quesadilla \$4.75

Garlic Herb Roasted Pork \$3.75

Jambalaya \$3.75

Roast Beef on Ciabatta w/ Red Pepper

Mayo \$4.75

Meatlover's Pizza \$2.75

Pesto Shrimp Linguini with Leeks &

Tomatoes \$4.75

The Wilson Hall Cafe now accepts Visa, Master Card, Discover and American Express at Cash Register #1.

#### [Wilson Hall Cafe Menu](#)

[Chef Leon](#) is now open. Call x4512 to make your reservation.

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based capability in high-gradient technology. The Fermilab goal, Holmes said, "is to provide the US with the

best possible host site for the ILC."

Holmes told the panel that, driven by the physics goals, the luminosity goals for the ILC are very aggressive and offer significant risk, but the goal of the accelerator R&D program is to reduce that risk. He added that the energy of the beam is not the greatest risk to ILC.



Steve Holmes

The difficulty, Holmes explained in tracing the path of the beam, is that while luminosity is directly proportional to beam power, it is inversely proportional to the vertical size of the beam. The beam densities produced at the injection system must be preserved in the Linac, then maintained in the collisions at the Interaction Region. Holmes described a "huge effort to get the vertical beam size down."

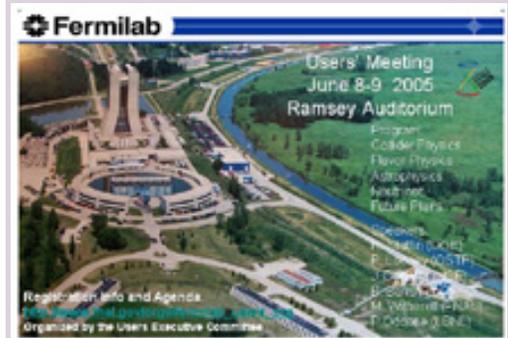
[read more](#)

-- Mike Perricone

## Fermilab Computing Division Combats Sober Virus



## Register Now for the 2005 Users' Meeting, June 8-9



If you want to learn about Fermilab's future, hear about recent developments with the International Linear Collider, catch up on the latest news from Washington and the EPP2010 panel, and enjoy a Festa Italiana all within the span of 48-hours, [register now](#) for the 2005 Users' Meeting.

This year's meeting will be on June 8 and 9 at Fermilab. Registration is free, and all users and employees are invited to attend. Robin Staffin, Barry Barish and Joe Dehmer will be just a few of this year's featured speakers. The 2005 Tollestrup Prize and the 2005 URA Thesis Award will also be presented.

Mike Witherell and Pier Oddone will both be featured speakers, giving Fermilab's users a chance to bid farewell to one and welcome the other. "This is an exciting transitional time for the lab as we are welcoming the new director and planning our future," said Ken Bloom, who is organizing this year's meeting. "The Users' Meeting is a great opportunity for our user community to learn about and discuss both the present and future program."

A tentative agenda and other information about the 2005 Users' Meeting is [available online](#).

The large number of recent SPAM messages in German has been traced to the [Sober virus](#), which uses an infected address book to send email of a political nature. The Fermilab Email Administrators are working on properly tagging these messages as SPAM.

Employees can always report a message as SPAM by using the new [Spam Reporting Tool](#). The Fermilab CD/CSS/CSI Email Team recently made this new tool available to help combat spam. It allows the Fermilab user community to report mis-classified spam emails and uses that information to "train" the spam filtering machines.

A form is now available for reporting spam email that was not tagged as spam, as well as non-spam email that was erroneously tagged as spam. The reported emails are fed back to the postmaster, who will then review them and process them into the Bayesian Filtering module on the spam tagging machines. Reporting a single email will not necessarily change the way the same email may be tagged in the future, but should correct most mistakes that affect a large number of users. Since the activation of the Bayesian Filtering module, Fermilab's Computing Division has seen an almost 10% increase in the amount of spam being tagged.

### In the News

--Elizabeth Clements

### Announcements

#### Employee Health & Fitness Day Today

Employee Health & Fitness Day will be on May 18 from 11:30-1:30 on Ring Road beginning at A1. Walk, run, rollerblade, or bike your way around the ring. This year's theme is "Laughter is the Best Medicine." A table will be set up at A1 where participants may sign-in, pick up their game ticket, and a bottle of water. Stations will be set up around the ring where you will find games to play, prizes to win and cheers of encouragement. At the end stop off at the prize table and pick a ticket to see if you are a winner. The rain date will be May 19.

[more information](#)

#### International Folk Dancing

The International Folk Dancers will meet Thursday, May 19, at Kuhn Barn on the Fermilab site. Dancing begins at 7:30 p.m. with teaching earlier in the evening and request dancing later on. Newcomers are welcome and you do not need to come with a partner. Info at 630-584-0825 or 630-840-8194 or [folkdance@fnal.gov](mailto:folkdance@fnal.gov)

#### Third Thursday Lunchtime Cleanup Tomorrow

The Thursday Lunchtime Cleanup will be on May 19 from 11:45 a.m. to 1:30 p.m. Transportation to the clean-up site will be available outside the east ground floor entrance of Wilson Hall. Cleaning gear will be provided, and hot dogs and refreshments will be served. Call Bob Lootens at x3303 for more information.

[more information](#)

#### Families Wanted: Chicago Science Festival Fun for All

## From *The Hindu Business Line* May 15, 2005

### Computers of the grid, unite!

by D. Murali

*Grid computing promises to do the unimaginable. Hold your breath.*

WRITING in Chicago Sun-Times (www.suntimes.com) on May 2, Science Reporter Jim Ritter declares that Fermilab, 'the world's most powerful subatomic particle accelerator', has 250 trillion reasons to outsource data. To know 'how', read on.

[Read more](#)

Chicago cultural institutions partner for third annual festival

On Saturday, May 21, 2005 from 10 A.M. to 1 P.M. families throughout Chicagoland will be able to immerse themselves in science and nature at the 3rd annual "Science. It's Everywhere!" festival in Jackson Park. Located just south of the Museum of Science & Industry, the festival will feature hands-on exhibits from the Peggy Notebaert Nature Museum, Chicago Park District, Lincoln Park Zoo, Field Museum, Fermilab and live reptiles and amphibians from the Chicago Herpetological Society. Families will have the opportunity to hear nature tales from storyteller Brian "Fox" Ellis and experience the performances of puppet shows from the Jabberwocky marionettes.

[more information](#)

[Upcoming Activities](#)