

Calendar

Friday, February 18

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. Joint Experimental Theoretical Physics Seminar - 1 West

Speaker: R. Kowalewski, University of Victoria

Title: BaBar Results on Semileptonic B Decays

Monday, February 21

9:30 a.m. E-Week Kick-off - 5th Flr X-Over

Refreshments will be served

12:00 p.m. E-Week Activity - One West

Speaker: Victor Kuchler

Title: International Linear Collider Conventional Facilities Overview

2:30 p.m. Particle Astrophysics Seminar - Curia II

Speaker: T. Plewa, University of Chicago

Title: Type Ia Supernova Explosion: Gravitationally Confined Detonations

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. All Experimenters' Meeting - Curia II

Special Topic: Linac 7835 Tube Status and Plans

Weather



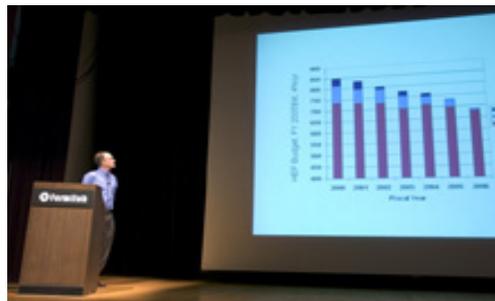
Sunny **26°/14°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

Witherell: Project Needed "In Next Couple of Years"



Mike Witherell addresses Fermilab's budget changes over the past few years. (Click on image for larger version.)

Difficult budget times have already led to strong measures at Fermilab, with the Department of Energy canceling the BTeV experiment. Director Michael Witherell told a series of All-Hands Meetings on Thursday: "If the U.S. is to remain in the forefront of high-energy physics, we need a strong accelerator program, and that's clear to everyone in the field."

Witherell emphasized again that the loss of BTeV leaves the lab--and U.S. high-energy physics--with the Fermilab neutrino program as the only program operating at U.S. accelerators in FY2009. "We need a project to start in the next couple of years," he said, adding that that DOE is encouraging the lab to offer near-term and mid-term plans. At the recent High-Energy Physics Advisory Panel (HEPAP) meetings in Washington, Director of the Office of Science Ray Orbach described Fermilab as "the premier accelerator facility in high-energy physics." DOE Associate Director for High Energy Physics Robin Staffin stated that there might be funds available in coming

Retirement Celebration for Lee Teng

Fermilab employees are invited to participate in a retirement celebration on Thursday, February 24 honoring the 57-year career of accelerator physicist Lee Teng.

Teng worked at Fermilab from 1967 to 1989 and was one of the people who built this laboratory from scratch. Teng made many significant contributions to



Lee Teng

accelerator physics, with topics including next-generation high energy and high brilliance devices and the medical applications of particle accelerators. Although Teng officially retired last September from Argonne, he still works part-time at Argonne, subs at the University of Chicago and plans to teach at the U.S. Particle Accelerator School in Phoenix this coming year.

"I still enjoy being involved in the physics community," Teng said. "Since it's been snowing lately, I've also been able to go skiing. Also, last week I replaced all the broken strings on my violin."

Teng's February 24th retirement celebration will take place at Argonne at the Building 402 Auditorium. The banquet cost is \$43 per person. [Registration forms](#) and further information are available online. Those who cannot attend may send their best wishes to Teng via a [special e-mail address](#) set up for the occasion.

[Secon Level 3](#)

Wilson Hall Cafe

Friday, February 18

Cream of Wild Mushroom

Blackend Fish Filet Sandwich \$4.75

Southern Fried Chicken \$3.75

Casserole Florentine with Italian Sausage
\$3.75

Eggplant Parmesan Panini \$4.75

Pizza Supreme \$2.75

Baked Potato Bar w/ Chili \$4.75

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

[Wilson Hall Cafe Menu](#)

[Chez Leon](#) will be closed through January
and February

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years. Staffin also said DOE was "committed to Fermilab as one of the world's leading science facilities" with the "strongest possible future," and that the lab's Long Range Plan offered "a broad and exciting program for the next decade."

Witherell said the existing LRP provides a strong base but needs some updating. He said Fermilab would continue to ramp up R&D on the International Linear Collider (ILC) as quickly as possible, as recommended in the LRP. He pointed to the lab's step-by-step roadmap for neutrinos: accelerating plans for more protons to neutrino experiments; putting the NOVA off-axis neutrino experiment on a "fast decision track;" advancing the design of a proton driver, which would provide more intense neutrinos, and possibly a very long baseline neutrino experiment in the longer future. The physics case for the proton driver is being reviewed by an international advisory committee, and Witherell added that "results from MiniBooNE could change the neutrino picture, too." The short baseline neutrino experiment is promising "exciting results" for later in the year.

In response to small budget increases "well below inflation for the last six years," including the FY'06 budget, Witherell said there is a need for staff reductions, and he expects to make an announcement soon on that issue after working out details with DOE.

"Our view is not completely optimistic but is far from pessimistic," Witherell said. While needing to reexamine the lab's future in light of the BTeV decision, Witherell added: "We have a lot to work with. We remain the best high-energy

Letterman Talks Fermilab and Linear Accelerators



Charlie Tschirhart at the CBS studio in New York before Tuesday's show. (Click on image for larger version.)

Last Tuesday night (Feb. 15) on *The Late Show with David Letterman*, Fermilab became the stuff of comedy when Kid Scientists demonstrated their science experiments. One of the three kid scientists included Charlie Tschirhart, a Naperville sixth-grader and son of Bob Tschirhart of Fermilab's Computing Division. Charlie demonstrated a combustible reaction with a PVC pipe and hydrocarbon-based fuel, which Letterman called a "sponge ball gun."

"They're like young Edisons, or young Alexander Graham Bells," Letterman said of the kids before they came onstage. "They're like young Enrico Fermis." In response, musician Paul Schaeffer said, "Who's he? He was a Latin band leader, I think."

When Letterman saw Charlie's Fermilab sweatshirt, he asked about the lab. "They have a massive linear accelerator there in Illinois, don't they...or is it a cyclotron? Which do you prefer, the linear accelerator or the cyclotron?" Charlie answered the former. "Pretty exciting, aren't they?" said Letterman. "What does it cost to ride one of those things?"

As one of his hobbies, Charlie said that

physics program operating in the world, with a chance of making major discoveries."

[Read more: Questions and Answers](#)

In the News

From PhysicsWeb, February 16, 2005

Neutrinos for Geophysics

by Belle Dume

A physicist in the US has proposed using a beam of neutrinos to measure the density of the Earth's core. Walter Winter of the Institute for Advanced Study in Princeton says that neutrinos could provide information about the Earth that is not available with other techniques (arXiv.org/abs/hep-ph/0502097). Although measurements of the seismic waves produced by earthquakes can be used to reconstruct a profile of the Earth's interior, they provide only indirect information.

[read more](#)

he liked to fish at Fermilab. Letterman replied: "Oh, that's good eating - radioactive mackerel."

Announcements

New Classifieds Posted on Fermilab Today

New [classified ads](#) have been posted on *Fermilab Today*. A permanent link to the classifieds is located in the bottom left corner of *Fermilab Today*.

Fermilab Film Series

The Fermilab Film Series will present [Twelve Monkeys](#) on Friday, February 18 at 8:00 p.m. in Ramsey Auditorium. Tickets are \$4.00.

Change in pay stubs for Fermilab employees

Due to increasing concern over identity theft, Payroll will no longer print Social Security numbers on pay stubs.

Fermilab Blood Drive

The next Fermilab Blood Drive will be February 21st & 22nd from 8:00 a.m. to 2:00 p.m. on WH Ground Floor NE. Schedule an appointment [online](#). Walk-ins are welcome!

Fermilab Arts Series

The Fermilab Arts Series will present [Festival of Four](#) on Saturday, February 19 at 8:00 p.m. in Ramsey Auditorium. Tickets are \$18.00

When Irish Cows Are Smiling - Discount Tickets

Fermilab's Recreation Office is offering discount tickets for ["When Irish Cows are Smiling."](#) The deadline to sign up is March 3. Dinner and the show are on March 19, 2005 at 7:00 p.m. at the Milk Pail Restaurant.

Fermilab Childrens Summer Day Camp

Fermilab children ages 7-12 can enjoy swimming lessons, crafts, games, sports, field trips and nature walks. The camp is offered in three three-week sessions, with a \$265 fee per session. Registrations will be accepted March 1 - March 30, and admission is made through a lottery held on the last weekday in March. To fill out a registration form and for more information, go to the [Recreation Website](#), Recreation Office, Users Office or Housing Office.

[Upcoming Activities](#)