

Calendar

Wednesday, May 31

8:00 a.m. [Users' Annual Meeting](#)

[Registration](#) - Auditorium Lobby

9:00 a.m. [Users' Annual Meeting](#) - Auditorium

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

5:00 p.m. [Graduate Student Association New Perspectives 2006 Poster Session](#) - Wilson Hall Atrium

8:00 p.m. [Users' Annual Meeting Public Lecture](#) - Norm Augustine, *Rising Above the Gathering Storm* - Auditorium

THERE WILL BE NO FERMILAB ILC R&D MEETING OR COLLOQUIUM THIS WEEK

Thursday, June 1

9:00 a.m. [Users' Annual Meeting](#) - Auditorium

12:30 p.m. Particle Astrophysics Seminar - WH-6W (NOTE DATE, TIME, LOCATION) Dark Side

Speaker: G. Farrar, New York University

Title: Strategies for Identifying the Source (s) of UHECRs

THERE WILL BE NO THEORETICAL PHYSICS SEMINAR THIS WEEK

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. Accelerator Physics and Technology Seminar - 1 West

Speaker: D. McGinnis, Fermilab

Title: Introduction to Radio Frequency Fundamentals for Particle Accelerators

[Click here](#) for links to descriptions of each event.

Rep. Judy Biggert speaks at 9 a.m.: Don't miss it!

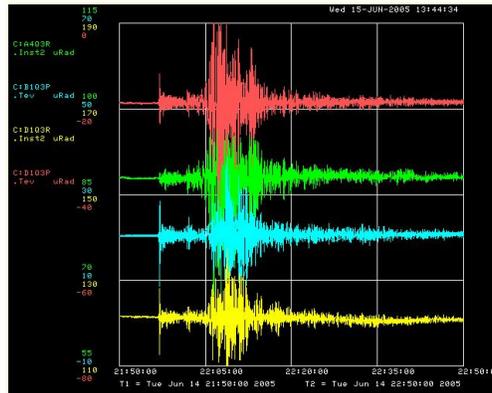
U.S. Representative Judy Biggert (R-IL), member of the science committee of the U.S. House of Representatives, will be the speaker of the first session of the annual Users' Meeting, which begins this morning at 9:00 a.m. in Ramsey Auditorium. Everyone, including regular employees, is welcome to attend.



Judy Biggert

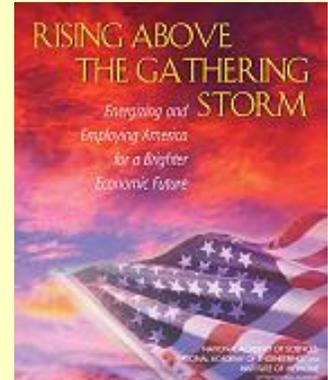
The schedule of the Users' Meeting is online [here](#).

New Zealand Earthquake Rocks Tevatron, Gently



A magnitude 7.7 California quake rumbled through the Tevatron in June 2005. These four readouts come from tiltmeters, mounted on a few key magnets in the Tevatron. Tiltmeters measure the angle with respect to gravity, like a very sensitive carpenter's level. The Tevatron also felt the earthquake that caused the massive Indian Ocean tsunami in 2004.

"Gathering Storm" chair will speak tonight at Fermilab



How can the United States maintain its competitive edge as foreign nations make advances in science and engineering? Find out tonight at 8 p.m., when Norman Augustine, former Lockheed Martin CEO and chair of the National Academies report, *Rising Above the Gathering Storm: Energizing and Employing America for a Brighter Economic Future*, speaks in the Ramsey Auditorium.

Rising Above the Gathering Storm received broad attention and inspired President Bush to announce the American Competitiveness Initiative in his 2006 State of the Union address. Mr. Augustine will discuss how the report and the initiative outline a plan for the United States to stay on the leading edge in science and technology.

The event is free and open to the public. For tickets, call Kathy Johnson at ext. 2787.

Accelerator Update

WeatherChance of Showers **79°/60°**[Extended Forecast](#)[Weather at Fermilab](#)**Current Security Status****Secon Level 3****Wilson Hall Cafe****Wednesday, May 31**

- Creamy Mushroom Chicken Soup
- Texas Style Meatloaf Sandwich
- Chicken Wellington
- Italian Sausage with Peppers
- Sausage and Pepperoni Combo
- Chicken Alfredo Fettucine

The Wilson Hall Cafe accepts Visa, Master Card, Discover and American Express.

[Wilson Hall Cafe Menu](#)**Chez Leon****Wednesday, May 31****Lunch**

- Corn Crepes w/Chicken & Poblano
- Chilies
- Pico De Gallo
- Tropical Fruit Platter

Thursday, June 1**Dinner**

- Gazpacho
- Seafood Paella
- Watercress Salad
- Apricot Lemon Almond Tart

[Chez Leon Menu](#)

Call x4598 to make your reservation.

Search

Early this month, a magnitude 7.9 earthquake in New Zealand sent a shiver through the ground that might have affected the Tevatron if it had been running. "We could watch in real time the waves go through the ground under us. If it had been bigger it would have been a problem," said Todd Johnson, Tevatron Operations Specialist.

Earthquakes are usually too small and too far away to make much difference to the running of the Tevatron. But the shockwaves from an earthquake could make the beam stray significantly, sending the stream of high-energy particles through a piece of delicate equipment. "It can be very tricky. A millimeter is a huge motion for a 2-km (diameter) machine," Johnson said. Movement in the ground causes the magnets responsible for focusing the beam to move with respect to one another. This results in the characteristic signature of a passing earthquake, where clumps of particles that typically stray from the stream (called "losses") appear to "breathe," getting periodically larger and smaller. "The quake itself can take tens of minutes to pass, and that can give us time to warn the experiments that losses could become higher than they would like," Johnson said.

It was first discovered that the Tevatron could feel earthquakes three years ago, when a magnitude 8.0 in Alaska sent too many "lost" particles hurtling into the superconducting magnets, overheating the magnets and causing the accelerator to automatically shut down. Although software allows the Tevatron to correct its beam's orbit every thirty seconds, that time period is too long to compensate for constant earthquake motion. New

May 26 - 30

- TeV established 980 GeV ramp
- TeV suffers first quench
- Lightning and wind causes problems
- Linac gallery attacked
- Machine reports

[Read the Current Accelerator Update](#)[Read the Early Bird Report](#)[View the Tevatron Luminosity Charts](#)**Announcements****'Shop and Share' weekend for the LaFleur family - last day!**

John LaFleur was a Fermilab electrician who passed away March 26 as a result of complications from a brain tumor. He is survived by a wife and three children and had not worked at Fermilab long enough before his death to receive a pension.

Now you can help his family when you shop for groceries. This is the last day of the 'Shop and Share' weekend dedicated to the LaFleur family at Jewel - Osco. Jewel -Osco will donate 5 percent of any purchase made on May 29, 30, or 31 to the fund if you present a "Shop and Share Identification Slip" with the LaFleur Family Fund and ID # at the cash register. Connie Crome has these coupons in Wilson Hall, 5th Floor East, and a stack of them are on the Counter at Sue Quarto's desk at Site 38. Please feel free to distribute as you are able. They may be copied, but must be cut down to the original coupon size for use. You may also call Greg Gilbert at ext. 6835, cell # 404-0106, pager # 722-7609, or email gilbert@fnal.gov to get coupons today before it's too late.

2004 Particle Physics Data Group

Anyone interested in donating copies of

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software is in the works for decreasing the correction time.

--Jennifer Lauren Lee

In the News***The Herald Sun***

May 26, 2006:

Physicists talk proton smashing at Duke

DURHAM -- It may not be measurable in teraelectronvolts, but a buzz of excitement was evident among physicists from around the world who gathered at Duke University for a weeklong conference that ended Friday.

It was the first time the annual Hadron Collider Physics Symposium was held at Duke and it was an auspicious one as physicists prepare for the opening in Switzerland of a very large demolition derby for some very tiny bits of matter.

The Large Hadron Collider, as the facility being built near Geneva is called, generated a lot of discussion during the symposium, said Duke physics professor Ashotosh Kotwal, who chaired the conference. Physicists are already devising experiments that they hope will prove or disprove various theories, he said.

[Read More](#)

the 2004 Particle Data Group booklet please contact Heath O'Connell in the Library at hoc@fnal.gov or x6017.

Unix Users Meeting

There will be a Unix users meeting in Curia II today at 1 p.m. Linux updates on SL4 and security will be discussed.

2006 Fermilab Recreation Annual Summer Picnic and Cougar Game - deadline to purchase tickets is June 2

Join us under the tent at the Kane County Cougar Stadium for a picnic and baseball game, complete with fireworks and skydivers, on Saturday, July 15. This event is open to Fermilab employees, visiting researchers, retirees, on-site contractors and their immediate families and friends (must be accompanied by someone working at Fermilab). The picnic will begin at 4:00 pm under the Fermilab tent and run until 6:00 pm. The game begins at 6:00 pm. The original discounted price was \$28.29, but costs will be subsidized by proceeds from the Book Fair, so you'll pay much less. The cost for the whole event is now only \$14.00 per person, which includes a game ticket and all-you-can-eat buffet including beer and wine (cash bar for all other drinks). Registration forms can be found in the Recreation Office or [on the website](#). Deadline for registration is Friday, June 2. Tickets are limited.

International Folk Dancing

International Folk Dancing will meet Thursday, June 1 in Ramsey Auditorium in Wilson Hall. Dancing begins at 7:30 p. m. with teaching and children's dances 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.

[Upcoming Activities](#)