

Calendar

Monday, April 25

2:30 Particle Astrophysics Seminar - Curia II

Speaker: J. Beatty, Ohio State University
Title: Tuning into Cosmic Rays and Neutrinos

3:30 DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

4:00 All Experimenters' Meeting
Special Topic: Electrostatic Separator R&D - Curia II

Tuesday, April 26

3:30 DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

4:00 Accelerator Physics and Technology Seminar - 1 West

Speaker: A. Lounine, KEK

Title: S-Matrix Formalism Approach to RF Design

Weather



Breezy **64°/42°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Fermilab Achieves Record in Grid Computing for Science



Feynman Computing Center (Click on image for larger version.) (Photo: Peter Ginter)

Today, in a milestone for scientific computing, researchers at Fermilab announced that the laboratory had sustained a continuous data flow averaging 50 megabytes per second (MB/s) for 25 days from CERN in Geneva, Switzerland to the tape storage facility at Fermilab. Fermilab and six other major global computing centers sustained a continuous data flow averaging 600 MB/s from CERN to tape and disk storage at locations around the world. The total amount of data transmitted in 10 days- 500 terabytes-would take about 250 years to download using a typical 512 kilobit per second household broadband connection.

The achievements represented a successful exercise designed to test the global grid computing infrastructure that will be used by thousands of scientists worldwide working on experiments at the Large Hadron Collider, currently being built at CERN to study the fundamental properties of subatomic particles and forces.

"This service challenge is a key step on the way to managing the torrents of data

Let's Try Again: Plant A Tree for Earth Day Today



Tree planting at one of the past Earth Days at Fermilab.

Roads and Grounds will hold Fermilab's Earth Day tree-planting activities for employees and their families today (Monday, April 25). The event was rained out on Friday.

Please bring a shovel, and wear boots and gloves (and this year, bring your own lunch, too). The area to be planted this year is directly west of Warehouse II. Planting begins at 11:30 a.m., and make sure you read today's Safety Tip on protecting your hands. If there are any questions about the weather this morning, call Roads and Grounds at x3303. And remember: Earth Day tree-planting and DASTOW are separate events for 2005, taking place on different dates. This year, DASTOW will take place on June 23, and more information about the day's schedule will be coming soon.

[more information](#)

Safety Tip of the Week

Monday, April 26

French Quarter Gumbo

French Dip w/ Horseradish Cream Sauce
\$4.75

Honey Garlic Pork Chop \$3.75

BBQ Roasted Quartered Chicken \$3.75

Italian Panini with Provolone \$4.75

Pizza \$2.75

Sweet n' Sour Chicken with an Egg Roll
\$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](#) is now open. Call x4512 to
make your reservation.

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anticipated from the LHC," said Jamie Shiers, coordinator of the service challenges at CERN. "When the LHC starts operating in 2007, it will be the most data-intensive physics instrument on the planet, producing more than 1500 MB/s of data continuously for over a decade."

[read more](#)

Accelerator Update

April 20- April 22

- During this 48 hour period operations established two stores that provided the experiments with approximately 31 hours and 43 minutes of luminosity
- Pbar septa interrupts stacking
- NuMI conducts target scan

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Milestones

Retired

- Jeff Kallenbach, Computing Division, 4/25/05
- Brent Evanger, Accelerator Division, 3/31/05

In the News

From *Stanford Daily*, April 20, 2005

SLAC restarts accelerator

By Will Oremus

The B-mesons are back in business.

The Stanford Linear Accelerator Center's B-Factory experiment — which produces B-mesons to probe the mystery of how matter won out over anti-matter in the moments following the Big Bang — is up and running again, five months after it was shut down due to safety concerns.

Digital Safety

Given the amount of work we do with our hands every day, it's no surprise they get hurt so often. Injuries can range from minor cuts to amputations. A recent study found that metal items, such as nails, metal stock, and burrs accounted for 38% of the injuries.

Hand tools with blades and powered machinery accounted for another 24% and 12%, respectively.

Hand injuries can also occur from falls or material handling.

In the past quarter Fermilab had 22 work-related injuries, seven of which affected the hand. The most severe of these resulted from a material handling incident in which a worker moved a heavy egg-shaped glass table top by rolling it on its edge. As it began to fall, he attempted to catch the top with his left hand. The top struck his hand lacerating and fracturing the third and fourth fingers. To save time, the worker chose to move the table alone, in spite of a standing requirement to use two or more people.

To avoid hand injuries you should review the process before you begin work. How could your hands get hurt? Make sure that machine guards are in place. Use lock & tag procedures before un-jamming equipment. If you need to put your hands where you can't see them, check for hidden hazards with an inspection mirror. Consider wearing the most protective gloves that are compatible with the process. However, don't forget to balance



A popular and effective way to protect your hands from many hazards is with leather safety gloves.

[read more](#)

From *Science Magazine*, April 19, 2005

"Dark Energy" Dispute Heats Up

By Charles Seife

Is dark energy an illusion? Perhaps, says Edward Kolb, a physicist at the Fermi National Accelerator Laboratory in Batavia, Illinois. In mid-March, Kolb and three Italian collaborators posted a provocative paper arguing that dark energy--the mysterious antigravity force that makes the universe expand ever faster--is actually a byproduct of enormous ripples in the fabric of spacetime. Kolb's paper created ripples of its own, and now two theorists from Princeton University argue that Kolb's team made an accounting error that invalidates the result.

[read more](#)

glove use against the increased added risk of entanglement (e.g., rotating tools).

Have a great day and let's work safely all week!

[Safety Tip of the Week Archive](#)

Announcements

Upcoming Classes

April 28 - Excel 2000 Intro

May 3 - 5: DSP Theory and Implementation

May 11 - Access 2000 Intro

[more information](#)

Scottish Country Dancing

Scottish Country Dancing will meet Tuesday, April 26, at Kuhn Barn on the Fermilab site. Instruction begins at 7:30 p.m. and newcomers are always welcome. Most dances are fully taught and walked through, and you do not need to come with a partner. Info at 630-840-8194 or 630-584-0825 or folkdance@fnal.gov.

Pool Passes on Sale

Pool Memberships for the 2005 season go on sale May 2 in the Recreation Office, WH15. Pool Passes are \$45.00 for a Single Membership and \$85.00 for a family of four with \$8.00 per additional family member. Pool membership is open to Fermilab employees, visiting researchers, employees of DOE Fermi group, retirees, eligible contract personnel and immediate family members. The pool will open on Memorial Day weekend, May 28. For more information about the pool go to the [Recreation web site](#).

Wisconsin Dells Coupon Book Sale

The Recreation Office is selling the Wisconsin Dells coupon book for \$15.00

beginning in May. The coupons are good until April 30 of the following year. Check out the sample books available in May in the Recreation Office.

[Upcoming Activities](#)