

Calendar

Tuesday, January 11

11:00 a.m. Research Techniques Seminar - Curia II

Speaker: T. Matsumoto, Tokyo Metropolitan University

Title: Particle Identification at Belle: Present Status and Upgrade Plan

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

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

Wednesday, January 12

11:00 a.m. Fermilab ILC R&D Meeting - 1 West

Speaker: W. Cooper, Fermilab

Title: A Silicon Tracker for ILC

12:00 p.m. Wellness Works – Brown Bag Seminar - Curia II

Speaker: W. Hallow, Midwest Center for Sleep Disorders

Title: Getting a Better Night's Sleep

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

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

Speaker: J. Kakalios, University of Minnesota

Title: The Uncanny Physics of Superhero Comic Books

Wilson Hall Cafe

DOE Website Helps Lower Energy Bills

To help consumers grapple with ever-increasing energy costs, the Department of Energy has launched a [new website](#) with tips on how to save money by developing smart energy habits. The site



serves as a consumer-friendly portal to detailed energy saving information, such as where to shop for

Energy Star appliances, finding the cheapest gas stations, and fuel efficiency comparisons of the latest vehicles.

Notes from the December UEC Meeting

At the December UEC meeting, plans for the upcoming Users' Meeting and trip to Washington DC were discussed. Two surveys, one on the quality of life at Fermilab, the other on issues for non-US users and visas, were finalized and prepared for



UEC Chair Bill Trischuk

distribution. Fermilab Director Mike Witherell reported on the first ILC collaboration meeting at KEK, in Tsukuba, Japan, as well as Fermilab's involvement in the effort. Director of Public Affairs Judy Jackson provided an overview of the public outreach program at Fermilab. Steve Geer

Director's Corner

Good Morning!

I would like to say a word today about the people who keep Fermilab operating through the most difficult circumstances.



Mike Witherell

Very early Monday morning, January 3, power coming into the master substation was interrupted, causing an unplanned power outage across most of the site. We were able to limit the operating time lost to experiments only because of careful planning before the event and an extraordinary effort afterward. Systems designed to abort the beam cleanly worked well. Most of the helium inventory was retained. Joe Pathiyil's electrical group within FESS Operations moved into action, arranging with the utility to repair some of their equipment on our site and then switching the power back to the main substation without unnecessary further disruption. People reset computers and restored thousands of parameters across the laboratory, and by Thursday morning the first collider store was successful.

Credit goes to the hundreds of people who worked systematically through all of the problems caused by the outage to get us back on the air quickly.

It is also remarkable that access was preserved on our site during the recent

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Golden Broccoli & Cheese

Hickory Smoked BBQ Pork \$4.75

Japanese Breaded Pork Cutlet \$3.75

Hawaiian Marinated Chicken w/ Grilled

Pineapple \$3.75

Toasted Almond Chicken Salad on

Low Carb Bread \$4.75

Supreme Baked Pizza \$2.75

Chicken Fajita Tacos \$4.75

[Wilson Hall Cafe Menu](#)

[Chez Leon](#) will be closed through

January and February

Weather



Wintry Mix 36°/36°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secon Level 3](#)

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archive](#)

[Linear Collider News archive](#)

presented the physics program at a future Fermilab-based Proton Driver.

[read more](#)

Accelerator Update

January 7 - January 10

- During the last 72 hours, Operations established three stores that supplied the experiments with approximately 34 hours and 20 minutes of luminosity.

- One store was lost due to an abort.

- The Tevatron suffered two quenches that delayed shot setup.

- Whenever possible, all stores will be made in mixed mode with Pbar and Recycler antiprotons.

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

In the News

Yale University News Release, January 6, 2004

Substructure Maps Show that Dark Matter Clumps in Galaxies

New Haven, Conn. -- Hubble Space Telescope data, analyzed by a Yale astronomer using gravitational lensing techniques, has generated a spatial map demonstrating the clumped substructure of dark matter inside clusters of galaxies.

Clusters of galaxies (about a million, million times the mass of our sun), are typically made up of hundreds of galaxies bound together by gravity. About 90 percent of their mass is dark matter. The rest is ordinary atoms in the form of hot gas and stars.

[read more](#)

winter storms. This takes an extraordinary effort of the people at Roads and Grounds, who must keep clear over 32 miles of paved roads and many parking lots. They do their work so well that we usually don't notice them, but this time of year we should.

Thanks to all of the people who keep Fermilab up and running while helping us maintain a safe workplace.

Announcements

Winter Weather Advisory

The National Weather Service has issued a Winter Storm Watch for possible freezing rain and sleet. Please use extra caution when driving or walking outside. If you spot icy patches on the sidewalk near a building on site, either spread salt on it or contact the Building Manager.

Weekly Fermilab Proton Driver Meeting

There will be a weekly Fermilab Proton Driver meeting commencing on Wednesday January 12, 2005 in WH 1-West from 2:30 pm - 3:30 pm. The agenda for these meetings will include topics related to the 8 GeV Superconducting Linac design and particle physics which can be done with high power proton beams. If you would like to receive meeting announcements in the future via e-mail please reply to mbruce@fnal.gov. Here is an agenda for Wednesday's meeting:

Proton Driver Linac Parameters;

Status of Design and Plans - Bill Foster - 30 minutes

Fundamental Physics Topics for High Power Proton Beams - Steve Geer - 30 minutes

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From the *New York Times*, January 9, 2004

**'The Fly in the Cathedral': Make Way
for Big Science**

by Richard Panek

Walton and Cockcroft: the names don't carry quite the same historic resonance as Watson and Crick. Yet the most enduring work of Ernest Walton and John Cockcroft -- splitting the nucleus of the atom -- can hold its own with the discovery of DNA's structure among the turning points of 20th-century science, and now, with Brian Cathcart's "Fly in the Cathedral," they even get their own "Double Helix," sort of.

In that unlikely 1968 best seller, James Watson created a new kind of popular science book, one that unveils the human side of science -- the ambition, pride, ill will and possible thievery that, arguably, play as great a role in revolutionary breakthroughs as objective evaluations of empirical evidence do. Ambition, pride, ill will and possible thievery might well have played a role at Cambridge in 1932 -- 21 years before Watson and Francis Crick walked into the Eagle pub there one lunchtime and famously crowed that they'd just discovered the secret of life -- but you wouldn't know it from the historical record. Back in the early 1930's, young university researchers in Britain were still taking direction from the last vestiges of what Cathcart calls "the age of the gentleman scientist," from pillars of probity who manned their workbenches with a seemingly thorough disregard for the outside world -- the scientific equivalent of a stiff upper lip.

Date Change for Women's Personal Protection and Self Defense Class

The dates on this class have changed and the deadline has been extended. Held on Wednesday's from 5:30 p.m. to 7:30 p.m., this 6-week class starts on January 19 and ends on February 23. Class is open to Fermilab Women, Mothers and Daughters. Minimum Age 12, No Maximum Age Registration and payment must be made in the Recreation Office, WH15W or by mail to M.S. 126 by January 17.

[more information](#)

Fermilab Barnstormers Meeting this Wednesday

The Fermilab Barnstormers, Model Aeronautic Club, will have its meeting this Wednesday at 5:30 p.m. at the Users' Center Music Room. Meetings are held on the second Wednesday of each month. Current members fly R/C gas planes, electric planes, control line planes, and helicopters.

[more information](#)

Travel Center Tour Deadlines

The deadline to sign up for the "Wonders of Iceland - August 17" trip is February 17. Registration is accepted after this date if there are seats. If you would like more information on these tours contact the Recreation Office and we can send it to you.

[more information](#)

Rhythm & Blues Musical with Fermilab Connections

A new rhythm & blues musical with music by Jamie Ellis of Geneva and book and lyrics by former Fermilab physicist Steve Delchamps is going to

[read more](#)

be presented at Steel Beam Theatre in St. Charles during February. The engagement is limited to two weekends: Friday, Saturday, and Sunday the 11-13th and Friday and Saturday the 18th and 19th. For reservations, people should call Steel Beam Theatre at 630.587.8521.

[Upcoming Activities](#)