

Calendar

Friday, May 5

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

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

Speaker: G. Bernardi, LPNHE, Universities of Paris VI and VII

Title: Searches for Higgs Bosons at DZero

8:00 p.m. I Solisti della Scala Trio - Auditorium

Monday, May 8

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

Speaker: E. Komatsu, University of Texas

Title: WMAP

THERE WILL BE NO ALL EXPERIMENTERS' MEETING THIS WEEK

For links to events, click [here](#).

Weather



Mostly Cloudy **59°/40°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Cyclotron magnet, spanning history of particle physics



New superconducting coils, made at Fermilab to replace the Chicago Cyclotron Magnet's old copper coils, are lifted out of the Meson Detector Building on their way to the "old" muon lab in 1980. Designed and built with help from Enrico Fermi, the magnet was the first to use water cooling channels within its copper coils, now a convention among electromagnetic accelerators. The original electromagnetic coils are still in use today as sections of the "warm bus" in the Tevatron. (Click on image for larger version.)

This summer, the 2500-ton occupant of the New Muon Building will leave its long-time home to make room for an ILC research and development project. The giant magnet was originally part of the Chicago Cyclotron, made famous when Enrico Fermi and his colleagues at the University of Chicago used it to show that particles called "pions" are largely responsible for the force that holds protons together in the nucleus of an atom. Built between 1950-52, this early particle accelerator was one of the most

ILC NewsLine

DOE and NSF reviewers see progress in ILC-Americas program; also recommend areas of improvement

By Gerry Dugan, GDE Americas Regional Director

The first review of the US R&D program for the International Linear Collider (ILC)

by the Department of Energy (DOE) and the National Science Foundation (NSF) was held at Fermilab from 4-6 April 2006.

This meeting served as DOE and NSF's primary peer review of the US portion of ILC R&D activities. The goal of the review was to evaluate the scope and quality of the accelerator research and development activities, the prioritization of activities within the budgetary advice, the planning for the next few years, the efficacy of the management of the effort by the Americas Regional Team (ART), and the integration of the US work into the global ILC effort. DOE's Paul Grannis chaired the review, and Jon Kotcher was the primary NSF liaison. Dixon Bogert (Fermilab), Tom Elioff (SLAC), Don Hartill (Cornell), George Mulholland (Applied Cryo Technology), Katsuobu Oide (KEK), Ferde Willeke (DESY), and Ilan Ben-Zvi (BNL) also participated as consultants on the review committee.



Gerry Dugan

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Friday, May 5

- Chicken Tortilla
- Steak Tacos
- Chicken Enchiladas
- Chiles Rellenos
- Mexican Tortas
- Mexican Pizza
- Chicken Tostadas

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

Upcoming Menu**Chez Leon****Wednesday, May 10****Lunch**

- Curried Turkey Salad w/Cashews on Field Greens
- Melon with Greens

Thursday, May 11**Dinner**

- Zucchini Pancakes with Smoked Salmon & Yogurt Dill Sauce
- Veal Rib Chops with Sun Dried Tomatoes & Capers
- Fettuccini Alfredo
- Amaretto Soufflé with Frangelico Crème Anglais

Chez Leon Menu

Call x4598 to make your reservation.

Search**Search the Fermilab Today Archive****Info**

powerful of its time, capable of speeding up protons to energies of 450 MeV.

By 1971, larger, more powerful accelerators made the Chicago Cyclotron obsolete, but the new National Accelerator Laboratory in Batavia needed a magnet of just that size for an experiment that slammed muons into protons to probe the protons' insides. "It was a way for [scientists] to reuse this magnificent piece of equipment," said Don Cossairt, Associate Head for Radiation Protection. After being dismantled into 53 pieces--one of which was 25 feet long and weighed nearly 100 tons--the magnet traveled by rail, two pieces at a time, to its new home in the "old" muon building, which was constructed around the reassembled magnet. Ten years later, limited space forced engineers to move the magnet again, constructing yet another building around it--the New Muon Building, where the magnet stands today.

Over the magnet's two-decade-long career at Fermilab, it was used in at least six experiments. "I think this magnet is special to a lot of people, including me, because it spans most of the history of accelerator-based physics," Cossairt said.

--Jennifer Lauren Lee

To find out more about this magnet, visit the [Fermilab Archives](#).

Photo of the Day**Announcements****Main Ring Road, near A0, will close Monday**

A section of Main Ring Road in front of the A0 storage building will be closed from 7:00 a.m. on Monday, May 8, to 5:00 p.m. Friday, May 12. The emergency closure is necessary to replace an oil switch. People using the A0 lot should allow time for a 4-mile detour. Detour signs will be posted.

Road Paving on D Road

Asphalt repair work is underway on D Road from Eola to A-1. During the 5 or six days of repaving, drivers using D Road should expect short delays. Motorists are urged to slow down, obey signs, pay attention to traffic control personnel, and use caution when driving on grooved and uneven surfaces. The work area can be [avoided](#) by using a combination of North Eola, A-1, and C Roads.

Batavia Road entrance to close for cars and bicycles

The Batavia Road entrance will be closed for renovation from 7:00 a.m. on Tuesday, May 9, to 4:00 p.m. on Monday, May 22. During this time, the City of Warrenville will also be repaving roadways and carrying out other construction work along Batavia Road. Delays are expected to continue until early June, even after the entrance re-opens. Drivers and bicyclists should use Pine and Wilson Street entrances until the work is completed. For more information, contact Tom Prosapio at prosapio@fnal.gov

Tonight: I Solisti della Scala Trio

Tonight, May 5, The Cultural Association

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OCEA finalist award given to NuMI

The NuMI project was one of five [ASCE Outstanding Civil Engineering Achievement](#) award merit finalists for 2006. URA president Fred Berenthal (red bowtie, center) and members of the NuMI project team accepted the merit finalist trophy at an April 26 banquet held in the Ronald Regan building on Pennsylvania Avenue, about 2 blocks from the White House. "A good time was had by all," said Fermilab Operations Support director Jed Brown. First place went to the [Saluda Dam Remediation Project](#) in South Carolina. (Click image for larger version.)

In the News

FYI: AIP Bulletin of Science and Policy News, May 4, 2006:

Strong Support for 14 percent Increase in FY 2007 DOE Office of Science Budget

It is expected that a week from now House Energy and Water Development Appropriations Subcommittee Chairman David Hobson (R-OH) and his colleagues will mark-up their FY 2007 funding bill. Of

of Italians at Fermilab will present I Solisti della Scala Trio in concert at the Ramsey auditorium. The trio is composed of world famous musicians Francesco Di Rosa, Fabrizio Meloni, and Nazzareno Carusi, who will perform excerpts from various operas on oboe, clarinet and trombone. The concert will be in the Ramsey Auditorium at 8:00 p.m. and tickets are \$20. For more information or telephone reservations, call 630/840-ARTS (2787) weekdays between 9 a.m. and 4 p.m.

Artist Reception

There will be an artist reception for Keith Gerling and Miles Lowry today, May 5, from 5-7 p.m. in the Fermilab Art Gallery on the 2nd floor Wilson Hall. Everyone is invited.

Power Outage

On Saturday, May 20, there will be a major power outage in Wilson Hall from 7:00 a.m. to 5:00 p.m. Please plan accordingly. There will also be multiple power outages in the Meson Area this weekend and next weekend. Please see the [schedule](#) for more detailed information.

English Country Dancing

English country dancing will continue at Fermilab's Barn, generally meeting the last Sunday afternoon of the month, except in May. The next session will take place at 2 p.m., May 21 (early because of the following holiday weekend.) Please contact folkdance@fnal.gov or call 630-584-0825 or 630-840-8194.

New [classified ads](#) have been posted on Fermilab Today.

[Upcoming Activities](#)

great importance to the physics community is the extent to which the subcommittee will be able to meet the Bush Administration's \$4.1 billion request for the DOE Office of Science. The Office of Science request has received considerable support in both the House and Senate and from the Energy Sciences Coalition, which advocates for the Office of Science. Constituents should consider writing a thank you note to their representative or senator(s)

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