

Calendar

Friday, August 13

3:30 p.m. Wine & Cheese - 2nd Flr X-Over

THERE WILL BE NO JOINT EXPERIMENTAL THEORETICAL PHYSICS SEMINAR THIS WEEK

Monday, August 16

THEORETICAL ASTROPHYSICS SEMINARS WILL RESUME IN THE FALL

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

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

Wilson Hall Cafe

Friday, August 13

New England Clam Chowder

Western BBQ Burger \$4.75

Turkey Tetrazzini \$3.50

Meatballs Teriyaki Over Rice \$3.50

Bistro Chicken & Provolone Panini \$4.75

Assorted Personal Size Pizzas \$2.75

Carved Top Round of Beef \$4.75

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Weather



Partly Cloudy 68°/49°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Last Plane Installed in MINOS Near Detector



The last of 281 detector planes was installed in the MINOS Near Detector on Wednesday. (Click on image for larger version.)

Crew members installed the last of 281 detector planes in the MINOS Near Detector on Wednesday. "We installed the first 3.5 ton plane in April," said Cat James, who oversaw the development of the installation system used to build the 980 ton detector 330 feet below Pine Street. "Next we install the coil that magnetizes the detector, which will take 5-6 weeks." In the meantime, work continues on exercising the detector's readout electronics. Technicians, undergraduates, grad-students, post-docs, and faculty all worked together during plane installation to commission the scintillator planes with their attendant electronics and data acquisition systems. Until beam is delivered cosmic ray events are used to test the detector's electronics. Near Detector Operations Manager Peter Shanahan is grateful to all the collaborators who helped with the installation. "Everyone's contributions were crucial."

What's Up with the Linear Collider?

The tenth in a series of Fermilab Today stories on the International Linear Collider. The entire series is [available online](#).

Victoria Conference Highlights
Fermilab Presentations



The Inner Harbor in Victoria, British Columbia, where the American Linear Collider Physics Group met from July 28 to July 31.

Fermilab scientists and Guest Scientists had a substantial presence in the [Victoria Linear Collider Workshop](#), offering 16 presentations at the conference of the American Linear Collider Physics Group held in Victoria, British Columbia from July 28 to July 31. Their presentations covered topics in International Linear Collider theory, detector physics and technology, and accelerator physics and technology.

"Around November of last year, we decided that we would get involved in ILC accelerator physics along with LC accelerator technology," said Shekhar Mishra, Head of Fermilab's ILC efforts. "We had not been working in ILC accelerator physics, but now I feel we are being recognized for our contributions by the worldwide ILC

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The NuMI beamline will be ready for testing and commissioning shortly after the upcoming accelerator shutdown. The beamline has many components, and the commissioning plan calls for several weeks of testing and measurements on the way to routine high intensity operations.

The goal of the experiment, which shoots neutrinos 735 km through the earth to a second detector in the Soudan iron mine in northern Minnesota, is to better understand the phenomena of neutrino oscillations.

FESS Completes Work on the Reflecting Pond



FESS started refilling the Reflecting Pond on Wednesday. (Click on image for larger version.)

Earlier this week, FESS completed its work on the Reflecting Pond in front of Wilson Hall. Steve Shirley of FESS reported that they successfully replaced the fire hydrant. FESS employees also took advantage of the low water levels in the Reflecting Pond and conducted some repair work on the Hyperbolic Obelisk sculpture that stands at the foot of the pond. "The base of the sculpture had rusted because the majority of it is underwater," Shirley said. "That combined with all of the elements of our weather take quite a toll on the

accelerator community. I think all our talks in accelerator physics were well-received."

Also in November 2003, Fermilab suggested that a large system test (or Engineering Test Facility) should be considered to establish confidence in design, performance, cost and schedule of the proposed ILC before it is built. The scope of such a large system test would be determined by the Global Design Initiative established by the International Linear Collider Steering Committee. Mishra reported that a panel discussion on the large system test was held in Victoria, and he termed it "really productive."

In all, Fermilab scientists and Guest Scientists offered 8 detector presentations (3 by Gene Fisk), 6 accelerator presentations and 2 theory presentations. The conference was sponsored by the National Sciences and Research Council of Canada; the University of Victoria; TRIUMF, Canada's National Laboratory for Particle and Nuclear Physics; and the Institute of Particle Physics in Canada.

A list of the Fermilab presentations at Victoria is [available online](#).



sculpture. FESS sanded, primed and painted the sculpture to create longevity in the metal." FESS started refilling the pond mid-day on Wednesday. It took almost 20 hours to bring the pond back up to its normal water level.

In the News

From *SpaceRef*, August 10, 2004

David Schramm Award to Writer Oliver Morton for Article on High-energy Neutrinos

Oliver Morton wins the fourth edition of the David N. Schramm award for an article describing the appeal and pitfalls of high-energy neutrino science. The article "Moonshine and Glue" was published in the spring 2004 issue of "The American Scholar".

The David N. Schramm award is offered by the High Energy Astrophysics Division (HEAD) of the American Astronomical Society. The author will receive the \$1,500 cash prize and travel expenses to the HEAD scientific meeting in New Orleans (Louisiana) at the beginning of September. He will also be presented a plaque and, for the publisher of the article, a certificate honoring his work.

"Moonshine and Glue" describes the difficulties of hunting for high-energy neutrinos. It tackles the science in a thorough but clear way. The article also conveys magnificently the nature of scientific endeavor.

[read more](#)

Nicolay Solyak (left), George Gollin and Shekhar Mishra were among the Fermilab presenters at the Victoria Linear Collider Workshop. (Click on image for larger version.)

Announcements

New Classified Ads 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*.

Free English Classes

NALWO-sponsored free English language classes for beginning and advanced levels are Fridays at the Users Center from 9:30 a.m. to 11:00 a.m.

Wilson Hall Power Outages

On August 28 and 29, Wilson Hall will have power but no air conditioning.

Listed below are other proposed dates and times for the upcoming 'shutdown' related power outages that will affect Wilson Hall:

September 13 for half an hour starting at approximately 7:00 a.m.

September 18 for 8 to 10 hours starting at approximately 7:00 a.m.

September 24th for half an hour starting at approximately 7:00 a.m.

For more information, contact the Wilson Hall Building Manager, Stan Boyson at x4753.

Wilson Hall Interior Window Washing This Week

The cleaning crew started washing the interior windows in Wilson Hall this week. Please remove any papers that are taped to the windows in your office. Please move any papers or other items on your desk that are near the windows. For questions, contact

Enixe Castro at x2798. The windows will be cleaned according to this schedule:

August 13: 3rd, 2nd, 1st floors

August 16: Ground floor and mezzanine

August 17-18: Atrium