

## Calendar

**Mon., Aug. 20**

PARTICLE ASTROPHYSICS SEMINARS WILL RESUME IN THE FALL

**3:30 p.m.**

DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over  
THERE WILL BE NO ALL EXPERIMENTERS' MEETING THIS WEEK

**Tue., Aug. 21**

**11:30 a.m.**

Summer Lecture Series (NOTE TIME & LOCATION) - Curia II

Speaker: R. Pasquinelli, Fermilab

Title: Engineering at Fermilab

**3:30 p.m.**

DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over  
THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

[Click here for NALCAL, a weekly calendar with links to additional information.](#)

## Weather



Mostly Cloudy 70°/60°

[Extended Forecast](#)  
[Weather at Fermilab](#)

## Current Security Status

[Secou Level 3](#)

## Wilson Hall Cafe

## Feature

### Construction of Fermilab's ILC Test Area moves forward



Getting ready to house the first cryomodules: Fermilab's ILCTA.

As ILC research and development efforts ramp up around the world, Fermilab is preparing to make an important contribution. Engineers and technicians at the lab's new ILC Test Area (ILCTA) have worked hard all summer creating a state-of-the-art cryomodule test facility, and the infrastructure is almost complete.

Located at the end of an old accelerator beam line, the ILCTA has taken up residence in the New Muon Lab (NML). The former inhabitant of the building was the 2000-ton Chicago cyclotron magnet, which had lain dormant for many years. After removing this behemoth, workers cleared out the building and sealed the floors, making way for the new construction that took place over the past few months.

The most striking feature inside the ILCTA is the 50-meter-long cave needed to house the test equipment. Construction of this mammoth structure is nearly finished except for a few coats of paint and the roof, which will be added once a crane lowers the machines into place. Tenants of the cave will include accelerator components, the cryomodules and associated support systems. When assembly is complete, a radio frequency gun and photo-injector mechanism will fire a beam of electrons through the cryomodules to create a miniature version of the ILC.

Users from around the world will then be able to use the apparatus to conduct a number of ILC R&D related tests. Cryomodules are a

## Safety Tip of the Week

### What could go wrong?



When most people begin a new activity, they tend to hope that things will go right. After all, it is human nature to be optimistic. While a great approach to life, this trait can get in the way of looking at a situation with a critical and objective eye. Although we try to develop a straightforward set of tasks to accomplish a project, if we don't think about what could go wrong, we are more likely to experience accidents, delays, increased costs, and decreased quality.

Lab policy requires a pre-work review for all activities carried out by Fermilab employees (FESHM 2060) or service subcontractors (FESHM 7010, 7011, and 7020). The purpose is to identify the ES&H hazards and specify the controls needed to minimize the likelihood of an accident. In some cases, a written hazard analysis may be required such as when the jobs are complex, hazards are great or unfamiliar, or the actions of multiple organizations must be coordinated.

Here are some questions you should ask to avoid these "hidden" hazards.

- *Deficiencies* - Do we have the needed materials, equipment, training, experience, knowledge and information?
- *Control* - Are we dependent on someone else to provide something?
- *Concurrence* - Are the key players in agreement?
- *Time* - Is there enough time to do the job

**Monday, August 20**

- Minestrone
- Chicken, mushroom and cheese steak
- Baked chicken enchiladas
- Pot roast
- Garden turkey
- Assorted slice pizza
- Szechwan green bean w/ chicken

[Wilson Hall Cafe Menu](#)

**Chez Leon****Wednesday, August 22  
Lunch**

- Sausage & roasted pepper & three cheese calzone
- Caesar salad
- Peach cardinale

**Thursday, August 23  
Dinner**

Closed

[Chez Leon Menu](#)

Call x4598 to make your reservation.

**Archives**

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[ILC NewsLine](#)

**Info**

Fermilab Today is online at: [www.fnal.gov/today/](http://www.fnal.gov/today/)

Send comments and suggestions to: [today@fnal.gov](mailto:today@fnal.gov)

highly complicated technology, so working out any bugs on a small scale is important. Furthermore, the ILCTA will test different kinds of cryomodules to determine which is best for the ILC. Other purposes include testing control systems, diagnostics, and instrumentation.

Aside from the basic infrastructure, the other key element of the test facility is its cryogenic system. The cryomodules in the ILCTA must be kept at temperatures near absolute zero to operate properly. While a series of three cryosystem phases are planned, the first has already been completed. Engineers and technicians recently installed the first refrigerator along with its related equipment. Not quite your typical icebox, this large cylindrical device will be sufficient to provide cooling to the first cryomodule. Other developments around the ILCTA include installation of the electronics racks along the outside of the cave and the freshly refurbished control room.

[Read More](#)

-- J. Bryan Lowder

**In the News****From *Chicago Tribune*,  
August 20, 2007****'X' marks Fermilab future**

*A proposed \$500 million particle accelerator could help it land an even bigger project*

Fermilab is floating plans for a new \$500 million particle accelerator in hopes of paving the way for a much larger project and shoring up the lab's fragile position in the world of high-energy physics.

A road map for the machine, dubbed "Project X" for now, was quietly disclosed last week in the lab's daily newsletter. The new device would become the biggest project at the Batavia facility after the scheduled shutdown in 2009 of the Tevatron, currently the world's most powerful accelerator studying the fundamental structure of the universe.

[Read more](#)

**In the News**

properly?

[Safety Tip of the Week Archive](#)

**Accelerator Update****August 10 - 17**

- Linac: crane blocking off about 20 parking spots
- MiniBooNE: No work completed this last week
- NTF treating patients during the evening
- Pictures of new collimator bases
- [Alignment questions](#)
- Controls - Get requests in now

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

**Announcements****Have a safe day!****Steering Group draft report discussions  
August 24 and September 27**

All Fermilab employees and users are invited to attend the upcoming presentations and discussions of the Fermilab Steering Group draft report. The first meeting will be on Friday, August 24 at noon in Ramsey Auditorium. To give users more time to make travel arrangements, a Town Hall meeting organized by the Users Executive Committee has been scheduled for Thursday, September 27 at 5 p. m. in One West. Fermilab Deputy Director Young-Kee Kim will lead the program at both meetings.

**New hours for village pool**

The Village Pool schedule has changed due to staffing shortages. You can find the current schedule [here](#). A schedule will also be posted on the bulletin board at the pool. Please contact the Recreation Office at x2548 if you have any questions.

**Professional and organization  
development classes**

The Office for Professional and Organization Development has recently add new classes to the fall schedule. [More information.](#)

**NALWO end of summer picnic Aug. 24**

NALWO will host an end of summer picnic on August 24 at 5:30 p.m. The event will be located in front of the Kuhn Barn in the picnic area, or in the barn in case of rain. Employees, users and their families are invited. Attendees should bring a dish to share and something for the grill. Small favors will be

**From *Northeastern University*  
press release,  
August 20, 2007**

**Northeastern University Professor Darien  
Wood Elected Spokesperson of DZero  
Experiment at Fermilab**

On August 19, Northeastern University Associate Professor of Physics Darien Wood assumed the position of Spokesperson for the DZero Experiment, which is located at the Department of Energy's Fermi National Accelerator Laboratory in Batavia, IL. The DZero Experiment, well-known for its pursuit of the Higgs particle, explores the fundamental nature of matter. The experiment uses the world's premier high-energy accelerator, the Tevatron particle collider at Fermilab, to answer the question, "What is the universe made of?" DZero scientists sift through the debris of proton-antiproton collisions produced at the highest available energies and search for subatomic clues that reveal the character of the building blocks of the universe. The DZero collaboration consists of about 600 physicists from 79 institutions in 19 countries.

[Read more](#)

provided for children. Please contact [Jennifer Jansson](#), 879-0172 for more information.

**Scottish country dancing**

Scottish Country Dancing will meet in Ramsey Auditorium this Tuesday, Aug. 21 and next Tuesday, Aug. 28, and will continue at Kuhn Barn beginning in September. 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.

**Wed. bowling league looking for players**

The Fermilab Wednesday night [bowling league](#) is looking for individuals or teams interested in joining their co-workers this season at Bowling Green Sports Center on Rt.38 just west of Rt.59. The season starts on Sept. 5, 2007 at 5:30 p.m. and lasts for 30 weeks. Cost is \$14.00 per week and includes cost of bowling plus year-end prize fund. For more information, contact Al Legan x4074, Rich Neswold x3454 or Jeff Artel x3325.

**[Additional Activities](#)**