

Calendar

Tue., June 12

12:00 p.m.

Summer Lecture Series - One West

Speaker: P. Oddone, Fermilab

Title: Introduction to Fermilab

3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

4:00 p.m.

Accelerator Physics and Technology Seminar - One West

Speaker: E. Todesco, CERN

Title: Parametric Studies for a Phase-One LHC Upgrade Based on NbTi

Wed., June 13

THERE WILL BE NO FERMILAB ILC R&D MEETING THIS WEEK

3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

4:00 p.m.

Fermilab Colloquium - One West

Speaker: T. Shutt, Case

Western Reserve University
Title: Results from XENON10 and the Race to Detect Dark Matter with Noble Liquids

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

Weather



Sunny 85°/59°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secur Level 3](#)

Wilson Hall Cafe

Feature

E-signs provide solution to communication problem



From her desk in VMS, Karen Seifrid controls Wilson Hall's electronic signs.

On most days, Wilson Hall looks more like a beehive than an office building. Lab personnel, users and visitors come and go, directed by the electronic signs located at Wilson Hall's main entrances.

While these signs keep up-to-the-minute information on the many workshops, meetings and activities at Wilson Hall, Visual Media Services Manager Fred Ullrich said that this wasn't always the case. The signs are a fairly recent solution to the building's communication challenge. "There has always been a sign problem [in Wilson Hall] in terms of knowing where certain things are going on," Ullrich said.

Inspired by an electronic PowerPoint display system in the Feynman Computing Center, Ullrich gained approval in April '06 to test a similar set-up in Wilson Hall. The original was quickly deemed a success and two others were installed at the other entrances. Initially, Ullrich predicted that the project would cost around \$20,000, but thanks to a collaboration between the Computing Division, who provided spare screens and desktop computers; Desktop Support, who programmed the auto features to the system; and VMS who handled installation, template design and operation; Fermilab's only cost was labor.

The electronic signs are a model of efficiency.

Director's Corner

DESY



Fermilab director Pier Oddone with a cryomodule vessel at DESY. The vessel, fabricated in Italy, is part of a complete cryomodule kit that DESY is providing to Fermilab for assembly.

A little over a week ago, the combined ILC GDE and ILC World Wide Study took place at DESY. Six hundred scientists from all over the world attended the meetings - a remarkable number and a visible demonstration of the great interest that the ILC holds for the future of our field. DESY was a great venue for this meeting. It is hard to overemphasize the huge role that DESY has played in the development of the SCRF technology that underlies today's ILC plans.

Starting from discussions between Directors Björn Wiik and John Peoples, Fermilab has had a strong interest in SCRF technology and has contributed to the Tesla Technology Collaboration that DESY has led. Over the last decade and a half the collaborative ties between Fermilab and DESY have grown and with the selection of the SCRF technology for the ILC they have been greatly enhanced.

At the end of this month and after many years of successful experiments, DESY will close the HERA e-p collider, its largest facility. At the same time the XFEL project is now a reality with the announcement at DESY last week that the collaborative arrangements were well enough in place to launch construction of this European facility with an investment greater than a billion dollars. In addition DESY is transforming PETRA into a world class synchrotron facility. While these two new

Tuesday, June 12

- Chicken and rice soup
- Cowboy burger
- Baked meatloaf with gravy
- Smart cuisine: Parmesean baked fish
- Peppered beef
- Assorted pizza slices
- Chipotle Chili and queso nachos supreme

*Carb Restricted Alternative

[Wilson Hall Cafe Menu](#)
Chez Leon
Wednesday, June 13 Lunch

- Sesame chicken salad
- Peanut noodle
- Lime tart

Thursday, June 14 Dinner

- Shrimp & chorizo kebobs
- Pork tenderloin w/ mexican chipotle marinade
- Sweet potatoes & poblano peppers
- Rum raisin soufflé

[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/

Send comments and suggestions to:
today@fnal.gov

From her desk in VMS, Karen Seifrid can edit a universal template that automatically uploads to the signs at midnight. She usually inputs info from NALCAL and other schedules once a day, but sudden changes require nothing more than a few keystrokes. Other benefits include a reduction in paper waste and unnecessary labor.

From her office, Seifrid observes that "many more people stop to read the e-signs than they did for the paper signs." In the future, Ullrich plans to install "larger, more easily identifiable monitors," but for now, he is proud to say, "The system works."

-- J. Bryan Lowder

In the News
From *NewScientistSpace.com*, June 9, 2007
Quantum quirk may reveal early universe

A TABLE-TOP experiment to mimic conditions in the early universe could steal some thunder from the Large Hadron Collider (LHC), the world's largest particle smasher.

As the hot infant universe rapidly expanded, cosmologists believe that particles were created from the vacuum of empty space. To find out how, physicists generally use giant accelerators like the LHC - currently being built at CERN in Switzerland - to generate the kind of energies that existed soon after the big bang.

Now Ralf Schützhold at Dresden University of Technology in Germany and his colleagues are proposing a considerably cheaper and easier experiment. "We could potentially model the conditions of the universe at times stretching back beyond the reach of the LHC," Schützhold claims.

The team's method relies on a quirk of quantum mechanics. Just as light waves can be thought of as a series of photon particles, sound waves moving through ions in a solid can be thought of as a beam of phonon particles. According to the team's calculations, the same quantum processes that gave rise to photons and other particles in the early universe should create pairs of phonons in a cloud of ions in the lab.

[Read more](#)

facilities give a brilliant future to DESY, this brilliant future is mostly outside of high energy physics for the time being. Nevertheless, DESY will provide a critical system test of the ILC technology with the XFEL which is close to a 10 percent model of the ILC. We look forward to close ties with DESY in the continuing development of SCRF technology that will support the ILC and many other future facilities.

Accelerator Update
June 8 - 11

- Four stores provided 60 hours and 53 minutes of luminosity
- Recycler stash lost
- MI kicker problems

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements
Taxi service closed on lunch Wednesday

The Fermilab taxi service will be closed from 11:15 a.m. to 1:15 p.m. on Wednesday, June 13, for a safety luncheon.

Barnstormers meeting June 13

The Fermilab Barnstormers will have their monthly meeting on June 13 at 5:30 p.m. at the Frelø Field (next to site 39). Apart from flying, there will also be an auction of pre-owned RC items donated by members. The auction is open to club members only, but interested Fermilab employees and users may join at the meeting. Spectators are also welcome. [More information.](#)

Volunteers for prairie study

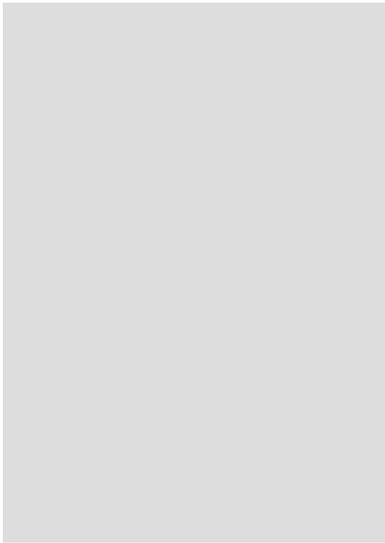
The Education Office is looking for volunteers, both adults and teenagers, to help with the plant monitoring program. In a 3-hour session, participants will learn to identify prairie plants, map a prairie plot and track restoration progress just like the experts. First session is offered on Monday, June 18, with a registration deadline of June 13. Sign up as individual or as group. [More information](#)

Salary review information for supervisors

Managers and supervisors will receive information on new features of this year's performance and salary review process in one-hour training sessions scheduled on June 14, 15 and 25. [Enroll here.](#)

June Wilson Hall window washing

Window washing began yesterday at Wilson



Hall and will continue through the end of June. The exterior of Wilson Hall will be washed this week. Please avoid walking through or moving barricades.

DASTOW 2007

On June 21, Fermilab will hold this year's Daughters and Sons to Work day (DASTOW). Please check the [DASTOW Web site](#) for more information.

Men's locker room closed this week

The men's locker room on the ground floor of Wilson Hall will be closed through June 15 for ceramic tile repair.

[Additional Activities](#)