

Calendar

Tuesday, September 19

11:00 p.m. Computing Techniques

Seminar - FCC 1

Speaker: J. Fortes, University of Florida

Title: Virtual Machines in a Distributed

Environment

12:00 p.m. Education Volunteer Training

1 North - Physics of Sports

3:30 p.m. Director's Coffee Break - 2nd

floor crossover

THERE WILL BE NO ACCELERATOR

PHYSICS AND TECHNOLOGY

SEMINAR TODAY

Wednesday, September 20

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

1 West

Speaker: T. Barklow, Stanford Linear

Accelerator Center

Title: Measuring the Higgs Self-Coupling

at the ILC

3:30 p.m. Director's Coffee Break - 2nd

floor crossover

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

Speaker: K. Kemner, Argonne National

Laboratory

Title: Molecular Environmental Science:

From X-Rays to Biogeochemistry to

Beethoven

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

Weather



Mostly Cloudy **55°/39°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Volunteers needed for annual prairie seed harvest



Volunteers are needed to help maintain prairie diversity by collecting seeds at the annual seed harvests Saturday, October 7 and Saturday, November 4. "Everyone is welcomed to help. You don't have to be a botanist," said Bob Lootens of Roads and Grounds. "If we need rattlesnake master [yucca-like plant], we'll show you how to find rattlesnake master."

Less than one tenth of one percent of the Illinois prairie remains in its complete and original state. Most prairies lack many of their original species and ecological interactions, such as insect pollination.

Fermilab has been working since the mid-70s to reverse this process. "We've come a long, long way," said Martin Valenzuela, senior grounds keeper.

During seed harvests volunteers collect seeds from older, species-rich areas for a spring-time planting in younger prairies.

This fall, volunteers will collect

Director's Corner

Our Ambassadors

We now have some 30 volunteers who will become new ambassadors from Fermilab to the community. The relations that the laboratory has developed over the years with our neighbors are outstanding. On the other hand, as the laboratory changes dramatically over the next decade, it is important that we stay even more connected with the community and that nothing about Fermilab is a mystery or a surprise to our neighbors and stakeholders.



Pier Oddone

Fermilab's [Community Envoy Program](#) is designed to vastly enlarge our channels of communication with Fermilab's stakeholders. By establishing an ongoing dialogue between Fermilab's envoys and key stakeholders we are ensuring that community members have a regular point of contact for any information or concern related to Fermilab. Elected officials, city mayors, heads of civic and social organizations, homeowners' associations, local school officials, local area universities and local business leaders and organizations will have an established personal connection with a member of Fermilab who can help them understand the laboratory, its programs, and the impact that these programs have now or might have in the future on the local area.

Current Security Status[Secou Level 3](#)**Wilson Hall Cafe****Tuesday, September 19**

- Golden Broccoli & Cheese
- Cheesy Greek Squeeze
- Coconut Crusted Tilapia
- Spaghetti with Meatballs
- Toasted Almond Chicken Salad on Crossaint
- Assorted Slice Pizza
- Chicken Fajitas

[Wilson Hall Cafe Menu](#)**Chez Leon****Wednesday, September 20****Lunch**

- Pastelon de Pollo
- Confetti Salad
- Tropical Fruit Platter w/Lime

Thursday, September 21**Dinner**

- Caponata
- Grilled Rack of Lamb
- Puree of Potatoes and Celery Root
- French Green Beans
- Amaretto Soufflé

[Chez Leon Menu](#)

Call x4598 to make your reservation.

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

uncommon species like white and purple prairie clovers, pale purple cone flower, yellowish and bottle gentians.

Volunteers should wear field clothing and gloves, and bring paper grocery bags and hand clippers if possible. Work will start at 10 a.m. and will last until 2 p.m. The harvests will take place in the center of the Tevatron ring, signs will be posted and a picnic lunch will be provided. E-mail [Bob Lootens](#) if you plan to bring a large group.

Call Fermilab switchboard at (630) 840-3000 in case of bad weather. For more information call the Public Affairs Office at (630) 840-3351 or check this [Website](#).
--D.A. Venton

Photo of the Day

Bob(ette) Andree hosted "Let's Make a Deal" at Technical Division's lunchtime picnic Friday. The picnic also featured a beanbag game and a talk by TD head Marc Ross. "It was a very pleasant day," said engineer Tom Nicol, "but we had to fight the bees for food." (Click image for larger version.)

In the News

Our ambitions for a strong and healthy future will mean significant changes not only for Fermilab but for the community. As one of the members of our community task force said last year: "Fermilab has to think of itself as an integral part of the community, not an entity apart." Fermilab together with the community will confront the future challenges and opportunities. The envoys are a key ingredient in binding Fermilab and the community together. I want to personally thank our envoys - another example of the spirit that makes Fermilab a great institution.

Accelerator Update**September 15 - 18**

- Three along with an existing store provided 49 hours and 15 minutes of luminosity
- Store 4960 quenched due to [lightning strike](#)

[Read the Current Accelerator Update](#)[Read the Early Bird Report](#)[View the Tevatron Luminosity Charts](#)**Announcements****Fermilab volunteers**

The education office is looking for more classroom presenters to visit local schools. The following equipment training times for new and experienced presenters will be held as brown bag sessions in WH-1N:

September 19 from 12:00 to 1:30 -

Physics of Sports - Dave Harding and Linda Valerio

September 26 from 12:00 to 1:30 -

Light and Color - Jean Slaughter and Jim Zagel

October 10 from 12:00 to 1:30 - Force and Motion - Anne Heavey

Fermilab Today is online at: <http://www.fnal.gov/today/>

Send comments and suggestions to today@fnal.gov

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PhysOrg.com, September 18, 2006:

Scientists snap first images of brown dwarf in planetary system

Scientists using NASA's Spitzer Space Telescope have discovered and directly imaged a small brown dwarf star, 50 times the mass of Jupiter, orbiting with a planet around a Sun-like star. Such an arrangement has never before been seen but might be common, the scientists say, leading to solar systems with distorted planetary orbits.

Kevin Luhman of Penn State University is the lead author on a report describing this discovery, which will be published in *The Astrophysical Journal*. The discovery concerns a class of the coldest brown dwarfs, called T dwarfs.

"Over the last ten years, astronomers have been extremely successful in finding planets close to their host stars using indirect detection methods," said Luhman, an assistant professor in the Penn State Department of Astronomy and Astrophysics. "Because of its infrared capabilities, Spitzer is well suited for directly detecting cool T dwarfs, and perhaps even large planets, in the outer parts of planetary systems."

Luhman's team also discovered a second brown dwarf that is smaller yet, about 20 times the mass of Jupiter, orbiting another star. This smaller object could be the youngest T dwarf known, offering scientists a snapshot of early brown-dwarf development. The two T dwarfs are the first to be imaged by Spitzer. Shortly after these companions were found, Spitzer also discovered a T dwarf that is floating through space by itself rather than orbiting a star. The team that

October 17 from 12:00 to 1:30 -

Electricity and Magnetism - Sharon Lackey

You can read more about the program [here](#).

Three Cosmic Tenors

Fermilab physicist Herman White will give a talk with two other leading physicists Sunday, September 24, from 2-4:30 p.m. at the Field Museum. The talk, titled "Three Cosmic Tenors," will discuss the creation of theoretical models and the use of technology to help understand the fundamental nature of energy. Call 312-665-7400 for a free reservation. Check Wednesday's issue of *Fermilab Today* for more information.

Annual Benefits Enrollment

Soon you will be able to review your benefit offerings and make changes. Annual enrollment begins on Monday, September 25, and ends on Friday, October 6. Materials will be sent to your mail station no later than Monday, September 25. If you will be away from the lab during the annual enrollment period, or have questions regarding your benefits, please contact the Benefits Office. Additional details will be provided in your enrollment materials; and other enrollment information is available on the [Benefits Department Website](#).

[Upcoming Activities](#)

discovered that T dwarf is led by Daniel Stern at NASA's Jet Propulsion Laboratory.

[Read More](#)