

Calendar

Friday, June 18

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

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

Speaker: A. Evdokimov, ITEP, Moscow
Title: First Observation of a New Narrow Ds Meson at 2632 MeV

Monday, June 21

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

Special Topic: Experimenter Contributions to Main Injector Improvements

Wilson Hall Cafe

Friday, June 18

Seafood Gumbo

Cod Fish Filet \$4.75

Roasted Chicken Vesuvio \$3.50

Lemon Fish \$3.50

Tuna Nicoise Salad on Panini \$4.75

Double Stuffed Pizza \$3.75

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Weather



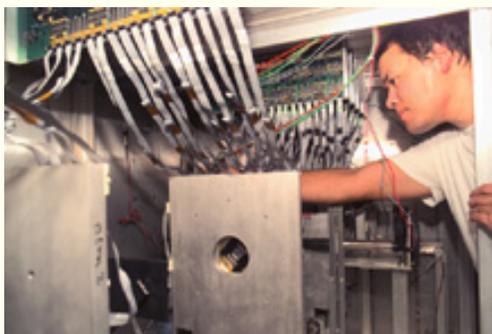
Chance Thunderstorms 78°/53°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

Surprise: SELEX Experiment Finds Puzzling New Particle



Experimenter Mark Mattson checking a SELEX apparatus in 1999. (Click on image for larger version.)

At today's wine and cheese seminar, the SELEX experiment will announce the observation of an unexpected new member of a family of subatomic particles called "heavy-light" mesons. The new meson, a combination of a strange quark and a charm antiquark, is the heaviest ever observed in this family, and it behaves in surprising ways -- it apparently breaks the rules on decaying into other particles.

As a rule, the more massive the meson, the shorter its lifetime before decaying into other particles. But not this time. This heavy meson lives three times longer than its lighter relatives. In another contradiction, SELEX also saw the new meson decay about six times more often than expected into an eta particle (a rarer but well-studied member of the meson family), rather than into the expected particle, called a K meson.

"It's like watching a water bucket with a large hole and small hole in the bottom," said Carnegie Mellon University physicist and SELEX spokesman James Russ.



The Research Yard at SLAC (Photo courtesy of Peter Ginter) (Click on image for larger version.)

German Photographer Peter Ginter Visits Fermilab Next Week

Starting Monday, June 20, world renowned photographer Peter Ginter will be taking pictures of various people and experiments on Fermilab's site. A self-taught photographer, Ginter has won 3 World Press Prizes for his creative, richly textured science photos that have appeared in National Geographic, Geo Magazine, and Stern.

"He has a unique ability to visualize fantastic pictures when he enters an experimental area," said Neil Calder, head of SLAC's Office for Communications. "He prepares his photos like he would a theatrical play -- set, lighting, and actors have to be perfect, and perfectly rehearsed." Ginter has taken photographs at SLAC, CERN, and DESY, and is currently keeping a photographic record of the construction of CMS detectors to be used in CERN's Large Hadron Collider. Before taking up photography, he was a professional basketball player in Germany.

"Ginter is a remarkable individual, and

[Seco Level 3](#)

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"For some reason, the water is pouring out the small hole six times faster than it's coming out of the large one. Something unusual must be going on inside the bucket."

[press release](#)

Fourteen Fermilab Employees Receive Employee Performance Recognition Awards



Award Recipients: (back row, left to right) Elizabeth Clements, Patricia McBride, Mike Witherell, Jack Schmidt, Don Holmgren, Stu Fuess, Nelson Chester, Giorgio Apollinari, Rob Roser, Dave Harding, Mike Perricone (front row, left to right) Oleg Prokofiev, Dmitri Denisov, Ray Yarema, Manuel Seales, Wayne Shaddix, Kurt Riesselmann (Click on photo for larger version.)

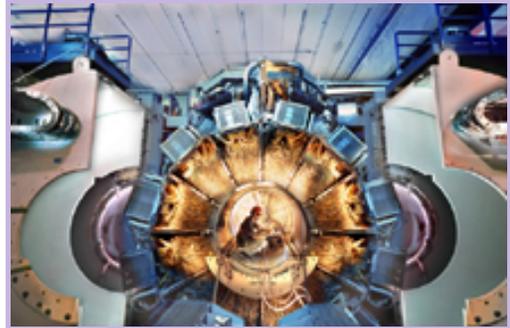
On June 14, fourteen employees received Employee Performance Recognition Awards. Following a luncheon at Chez Leon, Fermilab Director Michael Witherell handed out the awards. "This is an important program at the lab," Witherell said. "These are the people who make the lab work by doing much more than their job descriptions." [read more](#)

Photo of the Day

Great Horned Owls Living It Up in Fermilab's Village

does things his own way," Calder said.

"Sometimes, to get the best photos, it's necessary to move or specially light installations, which may come as a surprise to the technical staff." Ginter will be at Fermilab until Wednesday, June 30. He will set up day-long photo shoots at several locations over the course of his stay.



BaBar detector at Stanford Linear Accelerator Center (Photo courtesy of Peter Ginter) (Click on image for larger version.)

Nobel Laureate Chu New Director of Berkeley Lab

Yesterday, the University of California announced Steven Chu to be the new director of Lawrence Berkeley National Laboratory. The sixth director of the lab, Chu, will oversee the oldest and most varied of the Department of Energy's multi-program research laboratories, with a budget of more than \$490 million and a workforce of 4,000 employees. Chu, a physics professor at Stanford University, replaces Charles Shank, who has served as lab director from 1989 until now. The University of California manages and operates LBNL. [more information](#)



Steven Chu

Announcements



Click on images for larger versions. (Photo courtesy of Reidar Hahn)

On [April 13, 2004](#), *Fermilab Today* reported that FESS safely returned two baby great horned owls to their nest after discovering them on the ground. A few weeks ago, members of Roads & Grounds and VMS Photographer Reidar Hahn recognized the two owls. Roads & Grounds reported that the owls appeared to be in good health and were taking flying lessons from their mother, who was also spotted in the area. Since that time, however, Roads & Grounds suspects that the owls have -- literally -- flown the coop.

In the News

From *The New York Times*,
June 17, 2004

Scientists Teleport Not Kirk, but an Atom
by Kenneth Chang

And the beryllium atom said to the
Starship Enterprise, beam me up!

Two teams of scientists report today that for the first time they have teleported individual atoms, taking characteristics of one atom and imprinting them on a second.

[read more](#)

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.

Missing Red-Tail Hawk

The falconry bird was last spotted near the garden plots on Fermilab's site. She is wearing bells. If you hear or see her, please call Cyndi Swanson at 917-1001(cell); 231-2917(home); 466-1515 (work).

Claim Your Bikes Outside Wilson Hall

Wilson Hall Building Manager Stan Boyson requests all bicyclists to claim their bikes that are located in the Wilson Hall bike rack. Tags will be placed on all of these bikes. Bicyclists must remove the tag and bring it to the ComCenter on the Ground Floor of Wilson Hall. Bikes that are not claimed by June 21 will be removed and relocated to storage. Contact Stan Boyson at x4753 with any questions.