

## Calendar

**Fri., July 6**

**3:30 p.m.**

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

**4:00 p.m.**

Joint Experimental-Theoretical  
Physics Seminar - One West  
Speaker: S. Dodelson,  
Fermilab

Title: Neutrinos and the  
Universe - Cosmology (as part  
of the Neutrino Physics  
Summer School)

**Mon., July 9**

PARTICLE 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: Recent  
Tevatron Operations

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

## Weather



Partly cloudy 76°/54°

## Extended Forecast

### Weather at Fermilab

## Current Security Status

[Secon Level 3](#)

## Wilson Hall Cafe

**Friday, July 6**

- Cream of wild mushroom
- Blackened fish filet sandwich
- Southern fried chicken
- Tuna casserole
- Eggplant parmesan panini
- Assorted pizza slices
- Assorted sub sandwich

[Wilson Hall Cafe Menu](#)

## Special Announcement

### Bob Betz memorial celebration Saturday, July 7

On Saturday, July 7, Fermilab will celebrate the life of Dr. Robert F. Betz and his lasting influence on the laboratory and the surrounding region. The memorial symposium, which will take begin at 2:00 p.m. in the Ramsey Auditorium, is open to the public.

Speakers at the event will include Melanie Gregory, daughter of Dr. Betz; Marlin Bowles, The Morton Arboretum; Stephen Packard, Audubon Society; Marcy DeMauro, Forest Preserve District Will County; Rod Walton, Fermilab; and Mike Becker, Fermilab.

## Feature

### Boy Scout provides benches for FNAL birdwatchers, hikers



Boy Scout Gregory Frister receives help from his father to install benches at Fermilab for nature enthusiasts.

Weary birdwatchers and other nature enthusiasts at Fermilab now have a place to take a break. Gregory Frister, a member of Boy Scouts of America Troop 37 in Geneva, recently installed four benches around the lab as part of his Eagle Scout Leadership Service Project. Frister organized the project after hearing that Fermilab wanted to place benches along some of the site's trails. "I thought it was a great project," he said.

Fermilab has a strong tradition of working with the Boy Scouts, offering a two-hour class for the Atomic Energy merit badge. Frister's Eagle project is one of a number that have been completed at the lab in recent years.

## From ILC Newsline

### Collaborating for the beam



[Fermilab, KEK and SLAC have joined forces to work on ATF.](#)

When the Accelerator Test Facility (ATF) group at KEK decided to upgrade their beam position monitor system in 2005, Marc Ross had a solution. Based at SLAC at the time, he was a longtime collaborator with KEK and familiar with the instrumentation systems used throughout Fermilab's accelerator complex. In 2006, Ross became the head of Fermilab's Technical Division and could see how to continue his initiated beam position monitor upgrade efforts at the ATF damping ring. Called Echotek boards, these digital signal processing based systems offer a higher resolution potential – a characteristic that allows physicists to see more details about the beam. As it turned out, Fermilab was willing to make several Echotek boards available for testing the ATF system. Hence a new collaboration was born.

"The collaboration between Fermilab, SLAC and KEK is absolutely good, and preliminary results are excellent," says KEK's Junji Urakawa, the spokesperson for the ATF international collaboration.

In operation since 1997, the ATF is a unique test facility for establishing the feasibility of producing and controlling the ultra-low emittance beams that are required for linear colliders. Capable of producing electron beams that will be similar to the ones in the ILC, the circular ring of KEK's test facility squeezes the beam down to make it extremely thin. For the ILC, the thinner the beam, or lower the emittance, the more particle collisions occur in the detectors and that makes everyone happy.

**Chez Leon****Wednesday, July 11****Lunch**

Charcuterie salad Peach and strawberry shortcakes

**Thursday, July 12****Dinner**

Marinated mussels Beef & vegetable kebabs Rice pilaf Lemon cheesecake w/ gingersnap crust

[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)

With a crew of seven volunteer Scouts under his direction, Frister constructed four benches from donated lumber, which he then placed at various locations around the east side of the site, including the north end of Nepese Pond and the east shore of Lake Law. The project took a total of 118 hours, surpassing the required 100-hour mark.

"The areas where these benches were placed are hotspots for bird watching, horseback riding, hiking, and butterfly monitoring. I'm sure they will get a lot of use in the years to come," said Roads and Ground's Bob Lootens, who oversaw the project.

Frister's project is one of the last requirements he must fulfill to earn the Eagle Award, Scouting's highest honor. If he receives the award, Frister will have earned an honor that only five percent of Scouts ever achieve.

-- J. Bryan Lowder

**Special Announcement****Fermilab vacation donation program underway**

Vacation time is an employee benefit that we all utilize: traveling to new places, starting a project around the house, or in less fortunate situations, covering an extended illness or taking care of an ailing family member. Ideally, we all would have enough leave accrued to remain "whole" if we experienced a medical emergency and were off work an extended time. However, a portion of Fermilab's workforce does not have enough sick leave and vacation time to cover such an event.

Effective July 1, 2007, Fermilab has implemented a vacation donation program that will offer employees the opportunity to donate vacation time to fellow employees who experience a medical emergency and have exhausted all paid leave. Donations are completely voluntary and confidential.

For more details, visit the [Vacation Donation](#) website, contact [Employee Relations](#), or attend a brown bag lunch information session on July 11 at noon in the Aquarium, WH15SW.

**In the News**

In order to achieve this ultra low emittance, the beam optics must be controlled with a high degree of precision, which require a very precise understanding of the beam's position within the damping ring magnets. Like global positioning systems inside the accelerator, the beam position monitors in the ILC will require an extremely high resolution of less than one micron. While the physical beam position monitor pickups in the ATF were already similar to the design that will be used in the ILC, their readout systems required an upgrade to meet the resolution requirements, which is where the Echotek based system comes in.

[Read more](#)

-- Elizabeth Clements

**Accelerator Update****July 2 - 4**

- Three stores provided 42 hours and 36 minutes of luminosity
- Switchyard has QXR trouble
- Pbar lithium lens trip
- Recycler has electron Cooling problem

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

**Announcements****Vacancies in DOE Office of Science**

The U.S. Department of Energy's Office of Science is seeking a highly qualified candidate with outstanding scientific achievements to fill the position of [physicist](#). Apply [here](#).

**MS Project 2003 class August 1 and 2**

Learn to create and modify a project plan file that contains tasks, resources, and resource assignments in an MS Project Class. Additional classes have been scheduled for August 1 and 2. [Learn more and enroll](#)

**Kyuki-Do classes**

Kyuki-Do is a Korean martial art based on Taekwondo, but includes Hapkido, Judo, and Jujitsu. The next class will begin July 9 and run through August 15. Classes are held on Mondays and Wednesdays from 5:00 – 6:00 p. m. in the exercise room of the Recreation Facility. Cost is \$45 per 6-week session. You must be a member of the Recreation Facility to join, and must register through the Recreation Office by July 6.

**Summer Muscle Toning classes**

## From *Interactions.org*

**July 5, 2007:**

### **SLAC Announces New Director and Deputy Director of Particle and Particle Astrophysics**

Menlo Park, CA-Steven Kahn, the current Deputy Director of the Kavli Institute for Particle Astrophysics and Cosmology (KIPAC), has been named the next Director of Particle and Particle Astrophysics (PPA) at the Department of Energy's Stanford Linear Accelerator Center (SLAC).

David MacFarlane, currently the Assistant Director for Elementary Particle Physics, will take on the role of Deputy Director of Particle and Particle Astrophysics.

[Read More](#)

Get a head start in getting fit and have fun doing it by joining the Muscle Toning Classes. Classes are held on Tuesdays and Thursdays from July 10 through August 2, in the Recreation Facility from 5:30-6:30 p.m. A four week session at \$32.00. Registration deadline is July 6. You must be a Recreation Member to participate.

#### **Classifieds**

New [classified ads](#) have been posted on *Fermilab Today*.

#### [Additional Activities](#)