

## Calendar

### Friday, September 29

**3:30 p.m.** DIRECTOR'S COFFEE

BREAK - 2nd Flr X-over

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

Speaker: M. Morii, Harvard University

Title: Semileptonic Decays at BaBar

### Monday, October 2

**2:30 p.m.** Particle Astrophysics Seminar - Curia II

Speaker: R. Scoccimarro, New York University

Title: Nonlinear Evolution of Baryon Acoustic Oscillations

**3:30 p.m.** DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

**4:00 p.m.** All Experimenters' Meeting - Curia II

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

## Weather



Chance showers **59°/49°**

[Extended Forecast](#)

[Weather at Fermilab](#)

## Current Security Status

[Secou Level 3](#)

## Wilson Hall Cafe

## Roof repairs ready for leaky Meson Lab



The Meson Lab in 1975, not long after it was built.

The Meson Laboratory's scalloped roof is part of Fermilab's architectural heritage from founder Robert Wilson and in-house artist Angela Gonzales. The design, while an aesthetic success, is flawed functionally. The weakness lies in the corrugated steel arches, the ridges of which run perpendicular to the flow of the water. "They do not encourage water to move from the roof," said Elaine McCluskey, FESS Project Engineer. The roof has many steel-to-steel connection points, which provide inlets for water. Unlike the roof of a house, in which shingles coat a frame support, the Meson arches are both the roof's structural support and its outer barrier. Without a watertight coating, the roof has been leaking almost since it was built.

Repairs will begin the second week in October and last up to two months, if the weather is cooperative. Workers will continue to use the building during repairs. The contractor will set up scaffolding next week to access the roof; employees should not walk under the scaffolding unless they are using a posted entrance or exit. As the final step

## ILC NewsLine

### Virtually there - the control room of the future?



A real team working on virtual revolutions: the GANMVL collaboration at a workshop at DESY.

Imagine the ILC is up and running. Electrons and positrons collide happily and scientists are taking data. Suddenly there's a problem with one of the laser wires. All experts are at a meeting on a different continent, but the problem needs to be fixed immediately. Difficult? Not when there's a Multipurpose Virtual Lab in place. High-speed, high-resolution cameras would allow the faraway experts to look at the fault, a web-based portal would let them access the controls and tools of the system with a simple "single-sign-on" procedure. And if you think this is far-fetched, think again: the first prototype was tested during the last week of August. And it works!

"I was in a hotel room in Berkeley, California, and was able to do all the things you can normally do in the HERA control room and nowhere else," explains Ferdinand Willeke, one of the developers of the new tool. His partners in the project, the 20-strong collaboration (an Italian-German EUROTev

**Friday, September 29**

- Cream of Wild Mushroom
- Blackened Fish Filet Sandwich
- Southern Fried Chicken
- Tuna Casserole
- Eggplant Parmesan Panini
- Assorted Slice Pizza
- Assorted Sub Sandwich

**[Upcoming Menu](#)****Chez Leon****Wednesday, October 4****Lunch**

- Enchilada de Mole
- Ensalada de Nopalito
- Pastel de Tres Leche

**Thursday, October 5****Dinner**

Booked

**[Chez Leon Menu](#)**

Call x4598 to make your reservation.

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of the repairs, the contractor will spray on a rubber sealant. Meson Lab workers will need to park only in posted areas to protect their cars from sealant spray.

The renovation will include power-washing, filling in cavities with a mastic-type material and two coats of a spray-on rubber coating. The material, used in many industrial roofing applications, will dry as a sheet. The material's manufacture said Fermilab's Meson roof is one of its most unique uses.

Once finished, the contractor has guaranteed the roof to be water-tight for 10 years. The roof will be restored in the bright blue and terracotta colors used throughout Fermilab, in line with the original design intent. "The architectural legacy of Dr. Wilson is something we try to preserve as we remodel buildings and look to future facilities," said McCluskey.

--D.A. Venton

**Photo of the Day**

**Garter Snack:** AD's Greg Vogel caught this red-tailed hawk dining on a garter snake in front of the Master Substation.

**In the News**

workpackage), were in a meeting at DESY in Hamburg, Germany. After 1.5 years of programming work on the Global Accelerator Network Multi-Purpose Virtual Laboratory (GANMVL), the international team set up their prototype for the first time. "It's a great success. Naturally we found a couple of things that need fixing, but that will help us improve the system," says Matthias Kasemann, leading scientist at DESY. The next step is to offer it as a tool to the whole community for testing and use – the next guinea pig for the virtual lab is the Calice collaboration. They run a test of their calorimeter at CERN in October and will try to control it remotely.

**[Read More](#)**

**Announcements****Attention hiring managers: Check out the new personnel requisition form**

In pursuit of continuous improvement, the Employment Department has updated the online [personnel requisition](#) to include a link to goals for increased diversity awareness, links to training courses for hiring managers, physical activity requirements, and a 120-day expiration date to assist with the efficiency of the hiring process. We encourage those involved in the hiring process to view the updated form and to provide feedback on content and ease of use to [hsidman@fnal.gov](mailto:hsidman@fnal.gov).

**Calling all scouts**

Scouts of all ages are invited to come to Fermilab to pick prairie seed on Saturday, October 7 from 10 a.m. to 2:00 p.m. To take part, contact Anne Lucietto at [lucietto@fnal.gov](mailto:lucietto@fnal.gov) or call her at 630-840-8506. Note: This activity is for scouts and scout leaders; it is separate from the [harvest for the general public](#) on the

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## **WorldScience.net, September 25:**

### **Physicists seek to put one thing in two places**

Physicists say they have made an object move just by watching it. This is inspiring them to a still bolder project: putting a small, ordinary thing into two places at once.

It may be a fantasy, admits Keith Schwab of Cornell University in Ithaca, N.Y., one of the researchers. Then again, the first effect seemed that way not long ago, and the second is related.

The re-search comes from the edge of quantum mechanics, the sub-microscopic realm of fundamental particles. There, things behave with total disregard for our common sense.

[Read More](#)

same day.

### **Professional Development**

New classes are always being added to the professional development schedule. For the most up-to-date course offerings, go to [the web page](#).

### **Classifieds**

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

### **[Upcoming Activities](#)**