

## Calendar

### Friday, December 10

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

BREAK - 2nd Flr X-Over

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

Speaker: J. Mohr, University of Illinois, Urbana/Champaign

Title: Studying Structure Formation and Dark Energy with Galaxy Clusters – In conjunction with the Workshop, "Fundamental Physics from Galaxy Clusters"

**8:00 p.m.** Fermilab Lecture Series - Auditorium

The Dawn of X-Ray Astronomy

Prof. Riccardo Giacconi, Johns Hopkins University

Tickets: \$5

### Monday, December 13

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

Speaker: L. Mersini, University of North Carolina

Title: Can We Distinguish New Physics Signatures in the Sky?

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

BREAK - 2nd Flr X-Over

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

Special Topic: MINOS Near Detector Commissioning Report

## Wilson Hall Cafe

## Open House Launches Fermilab's Particle Astrophysics Center



Director-designate Pier Oddone, Director Michael Witherell, Particle Astrophysics Center Director Rocky Kolb and cosmologist Michael Turner of the National Science Foundation cut a star-studded cake. (Click on image for larger version.)

The Fermilab community converged on Wilson Hall's 15th floor on Wednesday afternoon, December 8, for an Open House to inaugurate the laboratory's new Particle Astrophysics Center. On hand to share their excitement about the new Center were Fermilab scientists from the Pierre Auger Project, the Cryogenic Dark Matter Search, the Dark Energy Survey, the Sloan Digital Sky Survey, the Supernova Dark Energy Probe and the Theoretical Astrophysics Group. The new PAC brings them together into one organization.

"Fermilab is a pioneer in recognizing the deep connection between elementary particles and the cosmos," said University of Chicago astrophysicist Michael Turner, associate director for the Math and Physical Sciences Directorate of the National Science Foundation. "A number of exceptional astrophysics endeavors have grown up right here. Bringing them

## First NuMI Beam from Main Injector



Peter Lucas, Rick Ford (both Fermilab), Malika Meddahi (CERN), Bob Zwaska (U.Texas, Austin), Sam Childress (Fermilab). (Click on image for larger version.)

In a major milestone for the NuMI Project, on Friday, December 3 at 6:40 p.m., NuMI collaborators extracted a beam of protons from the Main Injector and centered it on a downstream particle detector for the first time. Shortly thereafter, a crowd of experimenters and employees gathered in the Main Control Room to celebrate this remarkable achievement.

Just 10 hours earlier at 9:00 a.m., more than 20 physicists and engineers had begun setup and testing of the NuMI beamline in the Main Injector. Using a low-intensity beam -- about 100 times less intense than the actual NuMI beam will be -- it took only 10 pulses to extract the beam from the Main Injector, transmit it through the NuMI beamline into the target hall and send it 700 meters further down the line.

The day began with a check-out of the critical devices essential for a successful extraction, leading to the arrival of beam at the primary transport on the first pulse.

## Friday, December 10

Old Fashioned Ham & Bean soup  
Black & Blue Cheese Burger \$4.75  
Chicken Wellington \$3.75  
Tex-Mex Lasagna \$3.75  
Roasted Veggie & Provolone Panini  
\$4.75  
Pizza Cacciatore \$2.75  
Vegetarian Stir Fry \$4.75

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

## Weather



Rain 45°/30°

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together under one roof represents a forward-looking strategic move. I wish them every success."

Fermilab Director Michael Witherell introduced the Center's new director, astrophysicist Rocky Kolb.

"We searched the country to find the key person to direct our new Particle Astrophysics Center," Witherell said. "We were fortunate to find the best possible candidate right here at Fermilab, and equally fortunate that Rocky has agreed to lead this exciting new venture."

Following the Open House, NSF's Turner brought his unique brand of cosmological shtick to a colloquium on the great questions of cosmology. At one point an insect crawled across one of Turner's colorful signature transparencies on the connection between quarks and the cosmos.

"Don't worry, it's just an experimentalist trying to understand what I'm saying," quipped Turner, a theorist.



Fermilab physicists Peter Limon and William Wester, center, demonstrate a model of the camera for the Dark Energy Survey to Associate Director Hugh Montgomery and Director Michael Witherell. (Click on image for larger version.)

## In the News

A careful process of small magnet current adjustments followed, with the beam reaching the end of the pretarget enclosure by pulse # 8. On pulse #10, the beam was centered at the beam stop more than 1 km from the Main Injector extraction point.

[Read more](#)

## 35 Year Service Award Luncheon



35 Fermilab employees were honored with the 35 Year Service Award. Not all recipients are included in photo. (Click on image for larger version.)

### 35 Year Service Award recipients:

Thomas S. Anderson, Edwin J. Arko, Winslow F. Baker, Charles L. Bartelson, Kenneth R. Bourkland, Fred H. Browning, Cutchlow F. Cahill, David C. Carey, Frank L. Cesarano, David P. Eartly, Joseph J. Gomilar, Jr., Robert W. Goodwin, Theophilus Gordon, Johnny B. Green, Charles P. Grozis, Merle Haldeman, Jr., Roger E. Hiller, Lawrence A. Jackson, Walter F. Jaskierny, Richard A. Krull, Edward J. LaVallie, Albert M. Legan, Jr., Michael A. Mascione, Howard Pfeffer, Stanley M. Pruss, Charles W. Schmidt, Richard L. Smith, Daniel Snee, Raymond Stefanski, C. Joy Thomas, Samuel J. Upton, Alan A. Wehmann, Susan Winter, George M. Zielbauer, John M. Zuk

## Announcements

## From The AIP Bulletin of Science Policy News

### Winners and Losers: Outcome of FY 2005 Budget Cycle

The 3,000+ page omnibus appropriations bill that President Bush will sign in the next few days marks the conclusion of the FY 2005 budget cycle. This bill, and the earlier stand-alone bills for the Department of Defense and the Department of Homeland Security, fund science and technology programs of interest to the physics community. As is true of any budget cycle, there were winners and losers.

[Read more](#)

### New Classifieds 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*.

### Upcoming Power Outages

#### Neutrino Labs A, B, D, E, & F

12/11/04 - These Neutrino Labs will be without power for four hours starting a 7 AM on Saturday.

#### Neutrino Labs A, C, & D

12/14 or 15/04 - These Neutrino Labs will be without power for one hour while they get connected to a generator. They will be on the generator for about a week and then go down for another hour to connect back to regular power.

### SciTech Exhibit

A T. rex Named Sue, November 27, 2004 - February 21, 2005 at SciTech. Fermilab employees receive 2-for-1 admission on Friday, December 10, 2004 from 4:00 to 7:00 p.m.

### Fermilab Folk Club Barn Dance

Fermilab Folk Club Barn Dance Sunday, Dec. 12 at 6:30 p.m. with music by ThisBigStringBand and calling by Paul Watkins.

[more information](#)

### [Upcoming Activities](#)