

## Calendar

**Fri., May 18**

**3:30 p.m.**

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

**4:00 p.m.**

Joint Experimental-Theoretical  
Physics Seminar - 1 West  
Speaker: I. Shipsey, Purdue  
University

Title: Latest Results from  
CLEO-c

**Mon., May 21**

**2:30 p.m.**

Particle Astrophysics Seminar  
- Curia II

Speaker: A. Friedland, Los  
Alamos National Laboratory  
Title: To Be Announced

**3:30 p.m.**

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

**4:00 p.m.**

All Experimenters' Meeting -  
Curia II

Special Topic: Proton Source -  
Update and Plans

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

## Weather



**Sunny 71°/49°**

[Extended Forecast](#)

[Weather at Fermilab](#)

## Current Security Status

[Secon Level 3](#)

## Wilson Hall Cafe

## Feature

### Fermilab pioneer Wes Smart retires after three decades



Wes Smart

After 36 years of service, Wes Smart is retiring from the Particle Physics Division. May 23, 2007 is his last normal work day, and he officially retires on July 6. Smart has been a laboratory leader since the early days, when he was in charge of the bubble chamber. Over the last few decades, he has served on

a number of safety committees and has proved an indispensable collaborator on both the NUMI and MINOS projects.

"It has been a very interesting job with a variety of things to do," said Smart. "I'll miss the people and the job, particularly the technical parts of my work."

Since he was hired in 1971, Smart has served under every director the laboratory has ever had. "I guess you could say that I've been here for 90 percent of the life of the lab," he said.

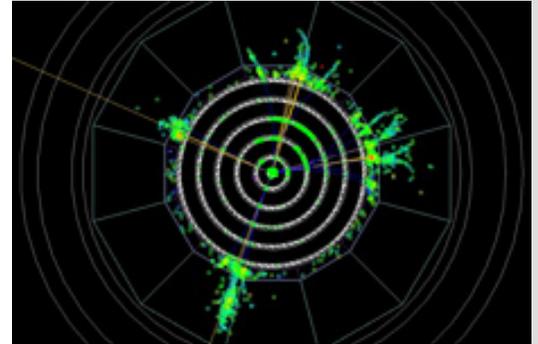
PPD's Greg Bock recalled Smart's precise handling of the NuMI beamline. "On NUMI, Wes was the manager of the alignment effort, working with Alignment Group with the responsibility for basically aiming the beam from here to Soudan, Minnesota," Bock said. "He hit the bullseye with that."

Rob Plunkett, the MINOS co-spokesperson, also lauded Smart for his expertise. "Wes's long involvement in determining and understanding the relative positions of the NuMI beam line and the two MINOS detectors made him the guy who knew the answer to this tough question," Plunkett said. "He had to understand positions over 735 km very accurately so we could point the beam correctly -- and this job was quite special and unique. Hitting the detector with the neutrino beam is our first job, and Wes showed us the way home."

Smart will be moving to California to enjoy his retirement in a family home near his daughter,

## ILC Newsline

### Global feedback sought on Detector Concept Report



A simulation of a particle event in the ILC that would enable physicists to determine whether the decays display evidence for the Standard Model Higgs or something else. (Image courtesy of Norman Graf, SLAC)

RDR, meet your other half. A draft version of the Detector Concept Report for the International Linear Collider is now available online. In February, the Global Design Effort published the draft Reference Design Report, providing the first detailed technical snapshot of the accelerator. The DCR completes the picture and makes the physics and detector case for the ILC.

"The Detector Concept Report allows the community to form physics goals and wishes for the overall programme," says DESY's Ties Behnke, an editor for the DCR. "It provides overall guidance for the community on areas where we still need to make progress and sets the stage for the Engineering Design Report."

Four possible detector concepts currently exist for the ILC. In writing the DCR, however, the four different concept groups came together to publish one joint document. "A major goal of this report is to demonstrate the performance of the proposed detector concepts, where, for the first time, we were able to show results based on a very detailed simulation," says KEK's Akiya Miyamoto, another editor for the DCR.

-- Elizabeth Clements

[Read more](#)

## Photo of the Day

**Friday, May 18**

- New England clam chowder
  - Black & blue cheeseburger
  - Mardi Gras jambalaya
  - Swedish meatballs
  - Bistro chicken & provolone panini
  - Assorted pizza slices
  - \*Carved top round of beef
- \*Carb Restricted Alternative**

[Wilson Hall Cafe Menu](#)

**Chez Leon****Wednesday, May 23****Lunch**

- Blackened catfish fillet
- Dirty rice
- Broccoli w/ lemon zest
- Pecan chocolate tart

**Thursday, May 24****Dinner**

- Tomatoes, fresh mozzarella & basil Salad
- Grilled halibut w/ spicy pimiento sauce
- Spinach risotto
- Julienne of multicolored pepper
- Pears & hazelnut soufflé

[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)

Karen, who lives in Sacramento, and his sister. Smart has two other children: Mathew, who is a playwright in New York City; and Tifanie, who works in aerospace engineering as a mission controller at NASA in Houston.

"Anything from Wes was always very precise and reliable," said NuMI's Jim Hylen. "He sweated the details. I'm sure going to miss him."

The Particle Physics Division is hosting a farewell gathering for his current and former colleagues to wish him well today, beginning at 2 p.m. on WH 15 South. Refreshments will be served.

--*Rhianna Wisniewski*

**Feature****NuInt07 confronts complex interactions with nucleus**

NuInt07 poster

When a low-energy neutrino interacts with a heavy nucleus the results are highly complex. An interdisciplinary group of scientists meets at Fermilab from May 30 to June 3, for the Fifth International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region (NuInt07)

to continue confronting these complications. "The goal of this series is to bring together theorists and experimentalists from the nuclear and high-energy physics communities, to address the many challenges in understanding these complex interactions," said NuInt07 workshop co-chair Jorge Morfin of Fermilab.

NuInt07 opens Wednesday morning, May 30, with sessions on "Using Neutrino Interactions to Search for New Physics," and "Review of New Results in Neutrino Interactions". Other workshop sessions will include current and future neutrino-nucleus scattering experiments; introduction to nuclear effects; and a review of the status of all relevant scattering physics channels. The scientific program put together by the organizing committee is available at the [conference website](#).

Also on the program is the Friday afternoon

**WDRS tops participation for Employee Fitness Day**

Employees bike around the main ring Wednesday as part of Fermilab's celebration of National Employee Health and Fitness Day.

Workforce Development and Resources Section (WDRS) took the trophy for greatest percentage of participation during Wednesday's Employee Health and Fitness Day activities, as Mother Nature broke past a poor forecast and again provided beautiful weather. Overall, 228 people participated, though turnout was held down somewhat by predictions of storms, and by several meetings and training sessions at the same time.

The day would not have been successful without the volunteer contributions of Kathy Phelan, Tom Pavnica, Janet Rubel and Mary Todd (WDRS); Mae Strobel and Karen Swanson (ES&H); Nancy Sells and Bill Wickenburg (AD); Ingrid Fang and Angie Prosapio (PPD); Bob Andree (TD); Connie Kania (FESS), and Chuck Grimm (TD). Special thanks to Mike Becker (Roads&Grounds) and Mike Bonkalski (ES&H) for the Backyard Safety presentation; firemen Chuck Kuhn and Eric Poss, for the Fire Safety presentation; Chris Hoff from the Kane County Health Department for the Emergency Preparedness presentation; the Directorate for the free yogurt to everyone who participated; and Cigna for the prizes.

-- *Jean Guyer*

**In the News**

"wine and cheese" gathering at 4 p.m. for the Fermilab Joint Theoretical-Experimental Seminar. GERALYN Zeller of Columbia University will discuss "Neutrino Cross Section Physics: Past, Present and Future." A poster session follows at the Users' Center, then dinner for workshop participants in the Users' Center.

Registration, available online at the [conference website](#), will close on May 21.

-- Mike Perricone

## Feature

### Reception with the stars: "Thru a Distant Lens"



Made of yarn and strips from cotton cloth, North Polar View shows the surface of the moon.

When Barbara Cervenka and Sherri Smith are painting and weaving, their thoughts are traveling to outer space. Instead of contemplating traditional portraits and patterns, they think about the birth of stars, light storms exploding billions of years ago and the fantastic geological details of the Moon and our other neighbors in space.

In their exhibit, "Thru a Distant Lens," on display in the Fermilab Art Gallery until June 28, Cervenka and Smith show their interpretation of images taken by telescopes and spacecrafts. A reception on Friday, May 18, from 5 p.m. to 7 p.m. will give the Fermilab employees and friends an opportunity to meet the artists.

For her paintings, Cervenka uses Hubble Space Telescope photographs such as the Hubble Deep Field images. She combines the expansive wonders of space with the minute miracles of Earth: the opening of flowers, the symmetry of shells and other terrestrial

## From New York Times May 17, 2007:

### A Collision Course for Physics

Excitement is building among high-energy physicists as construction in Europe of a huge new particle accelerator nears completion, with the first experiments scheduled for next year. It will be the purest exercise of pure science with researchers spending billions of dollars pursuing knowledge with no practical use, but that could add to our understanding of the universe's fundamental constituents.

Practical or not, a lot is riding on the outcome, including whether high-energy physics vaults to new levels or falls flat on its face, whether some highly mystical theories will gain at least a smidgen of evidence, and whether Europe will forge far ahead in a field from which the United States began retreating for cost reasons more than a decade ago.

[Read More](#)

## Announcements

### Farewell to Mike Perricone

Mike Perricone is retiring from the Office of Public Affairs. Please come and join Mike and his Public Affairs colleagues for some pizza and cake at the Users Center on Wednesday, May 23, from 4 to 6 p.m.

### A Brief Introduction to Mathematica 6

ESH will provide training, titled "A Brief Introduction to Mathematica 6" on June 4, from 3:00 p.m. - 5:00 p.m. This class will provide direct experience with all of the basic features of Mathematica 6, as well as a foundation for developing advanced applications of the system. [Learn more and enroll.](#)

### What's New in Mathematica 6?

ESH will provide training, titled "What's New in Mathematica 6?" on June 4, from 1:00 p.m. - 2:30 p.m. The seminar will display and explain the new visualization power and the dynamic capabilities new to Mathematica 6. Other topics will include high performance computing and gridMathematica. There is no cost for this seminar or the following training. [Learn more and enroll.](#)

### EAP office closed May 18

The Employee Assistance Program office will be closed Today, Friday, May 18. The EAP is available 24/7 by calling 800-843-1327.

beauties. Smith works with yarn and strips from cotton cloth. Her rugs include images of the moon's surface, created by Apollo Missions before the landing on the moon.

"We both find these images from our space program worth celebrating," Cervenka and Smith proclaim. "We find it interesting to work on them in two of the oldest technologies, painting and weaving."

For more information on the artists and the reception, visit the [Art Gallery website](#).

-- Kurt Riesselmann

### **Village Pool Memberships on sale**

The Village Pool opens May 26, Memorial Day weekend. A family pass (2-4 members) is \$95.00 and \$9.00 for each additional family member. A single pass is \$55.00. Season passes are available to Fermilab employees, visitors, on-site contractors, their immediate families and retirees. More information and registration forms can be found in the Recreation Office or [online](#).

### **Classifieds**

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

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