Fermilab Today

Thursday, February 23, 2006

Calendar

Thursday, February 23

11:00 p.m. Academic Lecture Series - Curia II
Speaker: S. Parke, Fermilab
Title: The New World of Neutrino Physics – Part II (2nd Lecture)

1:30 p.m. Theoretical Physics Seminar - Curia II
Speaker: A. Delgado, CERN
Title: Can the Higgs Be Supersymmetric and Composite?

3:30 p.m. DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

4:00 p.m. Accelerator Physics and Technology Seminar - 1 West
Speaker: V. Ivanov, Stanford Linear Accelerator Center
Title: Computational Models, Algorithms and Computer Codes in Accelerator Physics

Friday, February 24

3:30 p.m. DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

4:00 p.m. Joint Experimental Theoretical Physics Seminar - 1 West
Speaker: D. MacFarlane, Stanford Linear Accelerator Center
Title: Status and Physics Opportunities with BaBar

Weather

Partly Cloudy **39º/15º**

Extended Forecast

Weather at Fermilab

Current Security Status

Katrina Memories Still Vivid for Lab Firefighters

Lt. Chris Williams (left) and Ryan Lambert each spent about two weeks on fire crews deployed to New Orleans after Hurricane Katrina.

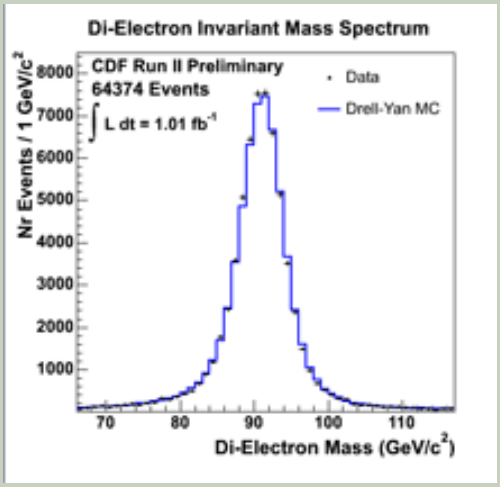
Fermilab firefighters Lt. Chris Williams and Ryan Lambert had both received specialized training, such as dealing with mass casualty situations and hazardous materials, which made them eligible to volunteer in New Orleans with other local firefighters after Hurricane Katrina. Still, they felt nothing could have prepared them for what they encountered there: the heartbreak of helping someone salvage a keepsake from a home slimy with toxic sludge, the fear of being shot at while responding to a gas leak call in an unsecured area, the gratification of aiding New Orleans firefighters in their efforts to restore their city.

"When you do a job like ours, guys do it because they honestly want to help people," said Lambert, who has been a Fermilab firefighter for 5 years. "So when something like Katrina happens, everybody volunteers to help. Chris and I felt fortunate to go."

But whether or not they could go was not

Fermilab Result of the Week

First 1-fb^{-1} Physics Result at a Hadron Collider



This figure shows the dielectron invariant mass distribution of all the CDF data collected up to November 9, 2005. This is the first time that a result based on more than 1-fb^{-1} of data is shown at the Tevatron. (Click on images for larger version.)

Late last year, the lab celebrated reaching 1-fb^{-1} of luminosity delivered to the collider experiments. A few months later, CDF now celebrates its first physics result based on 1-fb^{-1} of aquired data. The result came in the form of a Z boson mass peak produced from e+e- events. There are now 64,374 Z candidates, which is 10 times more than in Run 1 at the Tevatron and more than 10,000 times that used in the discovery of the Z boson in 1983 by UA1.

This result was possible due to the excellent performance of the Tevatron and whole accelerator complex, the efficient data taking by CDF, the fast data calibration and processing, and the availability of large computing facilities for data analysis.

CDF is now looking forward to many

Secon Level 3

Wilson Hall Cafe

Thursday, February 23

-Southwestern Chicken Tortilla
-Philly Style Cheese Steak
-Chicken Pot Pie
-Tomato Basil Chicken Parmesan
-Southwestern Turkey Wrap
-4 Cheese Pizza
-Marinated Grilled Chicken Caesar Salads

Wilson Hall Cafe Menu

Chez Leon

Thursday, February 23

Dinner

-Steamed Mussels
-Pork Tenderloins w/Madeira Sauce
-Sweet Potatoes
-Profiteroles

Wednesday, March 1

Lunch

-Chicken Enchiladas
-Mexican Rice
-Confetti Salad
-Pineapple Flan

Chez Leon Menu

Call x4512 to make your reservation.

Search

Search the Fermilab Today Archive

search

Info

entirely in their hands. "Without support from our families, from the lab, from Chief [Jack] Steinhoff, from people on our shifts... there's no way we could have done it," explained Williams, who has been a Fermilab firefighter for 15 years.

Both men keep in touch with people they met in New Orleans. "They keep looking forward," Williams says. "Every little thing that happens, they look at it as a sign of progress." Among other correspondents, he has remained in contact with two of the sisters from Our Lady of Holy Cross College, where his team of firefighters camped. "They've opened up the college again," he says. "They're surprised how many students have returned and feel it's a good sign that young people are coming back."

Read full accounts of the firefighters' experiences on the Hurricane Relief page.

— Dawn Stanton

Science Grid This Week

Grid Technology Helps UNOSAT Tackle Humanitarian Challenges

CERN's Patricia Mendez Lorenzo and UNOSAT's Einar Bjorgo have adapted satellite imagery tools to the Grid.

physics results using 1-fb^{-1} of data. The high quality of the Z mass peak in the recent data gives CDF confidence that all the data can be understood quickly to be used for many analyses. Thus many physics results using more than 1-fb^{-1} of CDF data are expected soon, hopefully with some exciting surprises awaiting!

Above: Some of the key people currently in charge of keeping the CDF detector operating smoothly to get the maximum data recorded, left to right: Aron Soha (UC Davis), Dee Hahn (Fermilab), Greg Feild (Yale), Steve Hahn (Fermilab), Guram Chlachidze (JINR Dubna). Not pictured: Pat Lukens (Fermilab), Willis Sakumoto (Rochester).
Below: Some of the key people currently in charge of computing and processing the data to make it ready for physics analysis on the shortest time scale possible, left to right (top) Dehong Zhang (Fermilab), Sinead Farrington (Liverpool), Pierre Savard (Toronto), Krzysztof Genser (Fermilab), Doug Benjamin (Duke), (bottom) Elena Vataga (New Mexico), Pasha Murat (Fermilab), Elliot Lipeles (UC San Diego). Not pictured: Glenn Cooper (Fermilab), Ashutosh Kotwal (Duke & Fermilab), Igor Sfiligoi (INFN Frascati & Fermilab), Rick Snider (Fermilab).

Result of the Week Archive

Accelerator Update

Fermilab Today is online at: http://www.fnal.gov/today/

Send comments and suggestions to today@fnal.gov

Fermilab Today archive

Hurricane Relief Page

Fermilab Today PDF Version

Fermilab Result of the Week archive

Fermilab Safety Tip of the Week archive

Linear Collider News archive

Fermilab Today classifieds

Subscribe/Unsubscribe to Fermilab Today

Patricia Mendez Lorenzo is part of the LHC Computing Grid's Experiment and Integration Support Team at CERN. Normally she supports the ALICE particle physics experiment, helping LCG sites to install and run the ALICE software. But last summer she was assigned an additional task: to help gridify satellite imagery applications for UNOSAT, a United Nations initiative that provides the humanitarian community with access to satellite imagery for use in crises such as earthquakes and tsunamis.

Read More

In the News

ASCE Press Release, February 21, 2006:

Neutrinos Project Nominated for National Outstanding Civil Engineering Achievement Award

Reston, Va.—The world's first high-energy, long-baseline neutrino experiment, the Neutrinos at the Main Injector (NuMI) project—which runs from the Fermi National Accelerator Laboratory in Batavia, Ill., to the Soudan Underground Mine Park in northern Minnesota—has been named one of five finalists for the 2006 Outstanding Civil Engineering Achievement Award (OCEA), presented by the American Society of Civil Engineers (ASCE). This year's award winning project will be named at ASCE's 2006 Outstanding Projects and Leaders (OPAL) awards gala on April 26 at the Ronald Reagan Building and International Trade Center in Washington, D.C.

"The OCEA program recognizes projects on the basis of their resourcefulness in addressing planning and design challenges, as well as their impact on the

February 20 - 22

- Two stores provided 22 hours and 51 minutes of luminosity.
- TeV quenched with no store.
- Store 4658 lost due to vacuum trouble.

Read the Current Accelerator Update

Read the Early Bird Report

View the Tevatron Luminosity Charts

Announcements

Professional Development Schedule:
Classes are added weekly. To see the most recent schedule, visit the Office for Professional and Organizational Development website.

Blood Drive Results
During the recent blood drive, 97 units were collected--the double red donors provided 2 full doses of red cells each, and the whole blood donors provided 1 unit of red cells and partial doses of platelets and plasma. In total, up to 271 patients will be helped by your generous donors. Thank You!

NALWO - Folk Dance Potluck
Everyone at the lab and in the dance communities who use the Barn is welcome to come to a NALWO - Folk Dance Potluck and Dance Party, Saturday, Feb. 25 at Kuhn Barn. Bring food to share at 6 p.m., then after 7 p.m. there will be dancing as the folk and Scottish dancers introduce what they enjoy to others in the community. NALWO will provide beverages (no alcohol) and participants should bring a dish to share (ethnic specialties encouraged) as well as comfortable shoes for dancing. More info at 630-584-0825 or folkdance@fnal.gov.

Upcoming Activities

environment, pioneering uses of materials and techniques, construction innovations and contribution to the well-being of people and their communities," said ASCE President Dennis R. Martenson, P.E., DEE, F.ASCE. "The civil engineering solution employed to facilitate the NuMI Project's scientific experiments is an exceptional example of everything the OCEA award embodies."

Read More