

Calendar

[Have a safe day!](#)

Tuesday, March 23
3:30 p.m.

DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over
4 p.m.

[Accelerator Physics and
Technology Seminar](#) - One
West

Speaker: Chris Densham,
Rutherford Appleton
Laboratory
Title: Design and Development
of the T2K Pion Production
Target

Wednesday, March 24
1 p.m.

Particle Astrophysics Seminar
- One West (NOTE DATE)
Speaker: David Schlegel,
Lawrence Berkeley National
Laboratory

Title: BigBOSS, Dark Energy,
and Inflation

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

[Fermilab Colloquium](#) - One
West

Speaker: Paola Sapienza,
Northwestern University
Title: Culture, Gender and Math

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

[Upcoming conferences](#)

Campaigns

[Take Five](#)

[Tune IT Up](#)

Feature

MINERvA caps detector with final module



Members of the MINERvA collaboration pose in front of the detector on Monday, March 15, after installing the final plane.

Three technicians stood underground last week glancing between a walkie-talkie and a semicircular hole in the ceiling leading 330 feet up to the surface.

"This is the last one," said technician Steve Ruzzano, trying to suppress a smile.

The 120th module of the MINERvA detector was on its way. For about a year, the collaboration for the neutrino experiment had been collecting the 4-ton, hexagonal steel planes into what resembled a horizontal stack of 11-foot quarters in the MINOS near detector hall.

Collaborators first put the idea for such a detector into writing in June 2002, said co-spokesperson Kevin McFarland, who worked on the document.

"This has been the culmination of a huge amount of planning, execution, getting funding, recruiting, hiring people and figuring out how to work together," he said.

"To see it all come together and to see the actual detector up there... I have to rub my

Director's Corner

Visiting committee



Fermilab Director Pier Oddone

During Thursday and Friday of last week the FRA Visiting Committee visited Fermilab to review our research program and the strategy for our future program. The FRA Board of Directors selected the committee, which reports to the Board. It comprises distinguished physicists from diverse areas of our field, including accelerators. This yearly independent review of our program and strategy by eminent folks in our field is part of the assurance that the FRA Board of Directors seeks to make sure we are fulfilling our scientific mission.

This year the review was organized along the three frontiers of research at Fermilab. Because of time limitations, the review did not cover the Energy Frontier in full, leaving out detailed reports of the remarkable Tevatron performance and the great progress on the ILC R&D program at Fermilab. The review concentrated on the LHC and the development of the muon collider/neutrino factory R&D program. At the other two frontiers, the review was comprehensive.

Probably the most important conclusion of the report was that the strategy we have developed is well balanced and a strong complement to the LHC. We are moving from a situation that is very stable-- running the Tevatron for the last 20+ years-- to a situation that is very fluid, with the need to respond to many external factors in terms of the level of support as well as physics results. Both the future program at the Energy Frontier and the program on neutrinos depend crucially on experimental results expected in the next

H1N1 Flu

For information about H1N1, visit Fermilab's flu information [site](#).

Weather

 Mostly sunny
56°/37°

[Extended Forecast](#)
[Weather at Fermilab](#)

Current Security Status

Secon Level 3

Wilson Hall Cafe

Tuesday, March 23
- Bagel sandwich
- Chicken & rice soup
- Italian sausage w/peppers & onions
- Beef stroganoff
- Chicken lemon
- Peppered beef
- Assorted sliced pizza
- Chicken tostadas

Wilson Hall Cafe Menu

Chez Leon

Wednesday, March 24
Lunch
- Catfish w/coarse ground mustard sauce
- Collard greens
- Parsley potatoes
- Jalapeño cheese cornbread
- Pecan pie w/ bourbon cream

Thursday, March 25
Dinner
- Closed

Chez Leon Menu

Call x3524 to make your reservation.

Archives

eyes on occasion."

The crew lowered the planes, each less than 2 inches thick, into the MINOS near detector hall by attaching them to a wheeled frame and rolling them down the flat side of the hole. The crew could see little more than two cables dipping into the shadows from above until the frame crawled into the light about 10 feet above them.

The technicians gingerly caught the frame and attached it to a large, pinkish cart to move it toward the detector. Then they hooked the module to a crane built into the ceiling of the cavern.

The crew slowly rotated the plane into alignment with the rest of the modules, as if closing the final page of a book. As the plane swung into its parallel position, two words written on its face in white grease pencil came into view: "The End."

The collaboration may have reached the end of the detector, but this is hardly the end of the story for MINERvA.

-- *Kathryn Grim*

View [a video](#) of four MINERvA planes being installed

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CERN Press Release

CERN sets date for first attempt at 7 TeV collisions in the LHC

With beams routinely circulating in the Large Hadron Collider at 3.5 TeV, the highest energy yet achieved in a particle accelerator, CERN has set the date for the start of the LHC research programme. The first attempt for collisions at 7 TeV (3.5 TeV per beam) is scheduled for March 30.

"With two beams at 3.5 TeV, we're on the verge of launching the LHC physics programme," explained CERN's Director for Accelerators and Technology, Steve Myers. "But we've still got a lot of work to do before collisions. Just lining the beams up is a challenge in itself: it's a bit like firing needles across the Atlantic and getting them to collide half way."

Between now and 30 March, the LHC team will be working with 3.5 TeV beams to commission the beam control systems and the systems that protect the particle detectors

couple of years.

The interlinking of various elements of our strategy gives us great flexibility. Project X helps us position Fermilab at the Energy Frontier through synergies with ILC and the muon collider. Similarly at the Intensity Frontier the neutrino program and rare decay programs are linked to Project X and benefit from the ILC R&D program.

The Cosmic Frontier is somewhat independent in its development from the other frontiers, for now having a well defined roadmap until we achieve the discovery of dark matter or a better understanding of the nature of dark energy. The program is well aligned with the recommendations of the most recent [Particle Astrophysics Scientific Advisory Group](#).

Now all we have to do is secure the financial resources we need and discover the physics we are still missing, the discoveries that will lead to the right choices at all branch points in our roadmap.

Accelerator Update

March 19-22

- Five stores provided ~46.5 hours of luminosity
- Linac repairs LRF1
- Feeder 46A faulted
- MI RF problems
- TeV quench during shot setup
- Store 7690 quenched due to ComEd power glitch off-site
- Store 7695 third highest with a luminosity of $350.7E^{30}$

* The integrated luminosity for the period from 3/15/10 to 3/22/10 was 57.89 inverse picobarns. NuMI reported receiving $6.74E^{18}$ protons on target during this same period.

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

[Fermilab Today](#)[Result of the Week](#)[Safety Tip of the Week](#)[CMS Result of the Month](#)[User University Profiles](#)[ILC NewsLine](#)**Info**[Fermilab Today](#)

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from stray particles. All these systems must be fully commissioned before collisions can begin.

"The LHC is not a turnkey machine," said CERN Director General Rolf Heuer. "The machine is working well, but we're still very much in a commissioning phase and we have to recognize that the first attempt to collide is precisely that. It may take hours or even days to get collisions."

[Read more](#)**Photo of the Day****Spring weather wakes local butterfly population**

Fermilab's butterfly expert Tom Peterson snapped this image of a Mourning Cloak butterfly last week. The Mourning Cloak butterfly is among many species that overwinter as adults in our woods and were drawn out during the first, sunny, 65-degree days of the year last week.

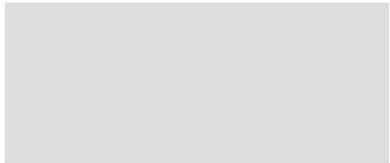
From iSGTW

OSG All Hands meeting

Last week, 183 researchers and vendors gathered at Fermilab in Batavia, Illinois for the Open Science Grid's annual All Hands Meeting.

In addition to hosting workshops for CMS and ATLAS computing meetings, sessions covered a variety of topics, including security, virtualization, cloud computing, biology applications, reports from European colleagues, and the future of US cyberinfrastructure. This year also marked the first vendor and e-demonstration session.

[Read more](#)**Latest Announcements**[Butts & Guts class - March through May](#)[SciTech summer camps start June 14](#)[Ask HR - 15th floor comes to CDF Thursday](#)[NALWO bus trip to The Museum of Science and Industry - April 24](#)[Blackberry Oaks Monday night golf league](#)[Martial arts classes begin March 29](#)[Spring book fair - March 24-25](#)[Watch you mail station for the arrival of your Fermilab statement of benefits](#)[Employee discount at Batavia Rosati's](#)[Fermilab summer day camp registration deadline April 2](#)[Harlem Globetrotters special ticket price - April 15](#)[Qi Gong, Mindfulness and Tai Chi Easy for Stress Reduction](#)[International Folk Dancing, Thursday evenings at Kuhn Barn](#)[Argentine Tango through March 31, student discount](#)[Hiring summer students for 2010](#)[Calling all softball players](#)[English country dancing - March 28](#)[Requesting donations for Fermi Maternity Closet](#)[Excel Programming with VBA class - March 30 and April 1](#)[Fermilab Management Practices seminar classes begin in April](#)[March 31 deadline to enroll young adult dependents](#)



[Intermediate /Advanced Python Programming - May 19-21](#)

[Submit an announcement](#)