

Calendar

[Have a safe day!](#)

Friday, July 10

9 a.m. - 5 p.m.

[International Neutrino Summer School](#)

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

[Joint Experimental-Theoretical](#)

[Physics Seminar](#) - One West

Speaker: Andre De Gouvea,

Northwestern University

Title: Neutrino Summer

School: Possible Physics

Surprises in Future

Experiments

Saturday, July 11

8 p.m.

[Fermilab Arts Series](#) -

Auditorium

Tickets: \$16/\$8

Ashley Lewis with Ashton Gap

Monday, July 13

9 a.m. - 6 p.m.

[International Neutrino Summer School](#)

PARTICLE ASTROPHYSICS SEMINARS WILL RESUME IN THE FALL

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO ALL EXPERIMENTERS' MEETING THIS WEEK

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

Campaigns

[Take Five](#)

[Tune IT Up](#)

From *iSGTW*

A solid production demonstration of the CMS role in WLCG



The Worldwide Computing Grid allows fast data transfer between CERN and the US CMS Tier 1 computing center, making remote operations possible. CMS employees work in the Remote Operations Center at Fermilab.

Last fall's unplanned shutdown of the Large Hadron Collider was a disappointment for physicists around the world. But for organizers of the computing grid supporting the collider's detectors, it was also an opportunity to keep working hard. For the first two weeks of June, instead of flooding the grid with data from actual particle collisions, experiment collaborators at CERN and remote computing sites in Europe, Asia and North America joined up to test the ability of the collider's Worldwide LHC Computing Grid (WLCG) to record, transfer and analyze simulated data in a step-by-step "production demonstration."

Scientists conducted a series of challenges, collectively called the Scale Test of the Experimental Program 2009 (STEP09). All four LHC experiments participated in the test. For example, at the CMS experiment (see earlier [iSGTW story](#), [CMS readies network links for LHC data](#)) they first tested the archiving of older recorded data from CERN to CMS's seven Tier 1 computing sites. There, scientists checked the Tier 1 central processing power as they shuttled data to Tier 2 sites. Finally, they challenged the full physics analysis capacity of the Tier 2 sites. On 15 June, as the curtains closed on STEP09, Oliver Gutsche, a Fermilab physicist who was one of those participating in the effort for the CMS experiment, declared the overall performance "very good."

While the CMS portion of this grid — like the

Recovery Act Feature

Wood from NOvA site fuels renewable energy in Minnesota



This power plant in Virginia, Minn., burns both coal and wood.

Construction of the NOvA detector facility, funded in part by the American Recovery and Reinvestment Act, has created business opportunities for members of the local community in northern Minnesota.

Recently it also created an opportunity to fuel renewable energy in the state.

This month a local logging company cleared trees from about 20 acres of the site to make way for the facilities and 3 ½ miles of widened road. Rather than wasting that wood, the company will sell it as a source of renewable energy to two Minnesota power plants.

Imhof Logging did the work for subcontractor Hoover Construction free of charge in exchange for the wood.

"We drove by to see if they'd started working and asked if they needed someone to clear the right-of-way," said Michael Imhof, who co-owns Imhof Logging with his brother. "We started the next day."

Imhof spends most of the year gathering lumber to sell to the Boise Cascade paper mill in International Falls, Minn. Usually he has filled his quota by late spring, and his business goes idle during the summer months.

In January, Imhof found a new opportunity: selling the limbs and tops of harvested trees to be burned as biomass fuel.

-- Kathryn Grim

[Read more](#)

Feature

Weather

 Chance of
thunderstorms
84°/65°

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

Current Security
Status

Secon Level 3

Wilson Hall Cafe

Friday, July 10

- Italian vegetable soup
- Teriyaki chicken
- Southern fried chicken
- Mediterranean baked tilapia
- Eggplant parmesan panini
- Assorted sliced pizza
- Assorted sub sandwich

[Wilson Hall Cafe menu](#)

Chez Leon

Wednesday, July 15
Lunch

- Maple bourbon glazed salmon
- Roasted potatoes
- Baby carrots w/dill
- Caramel apple shortcake

Thursday, July 16
Dinner

- Melon & prosciutto
- Herbes de Provence—
crusted lamb chops
- Grilled new potatoes w/mint
- Steamed green beans
- Blueberry-blackberry
shortcakes

[Chez Leon menu](#)

Call x3524 to make your
reservation.

Archives

rest of the WLCG — was ready to take data last September, says Gutsche, the test “gave us an opportunity to test parts that could not be tested on the previous schedule.” It also showed how the system will function under simultaneous demands from the LHC’s three other detectors.

-- *Rachel Carr*

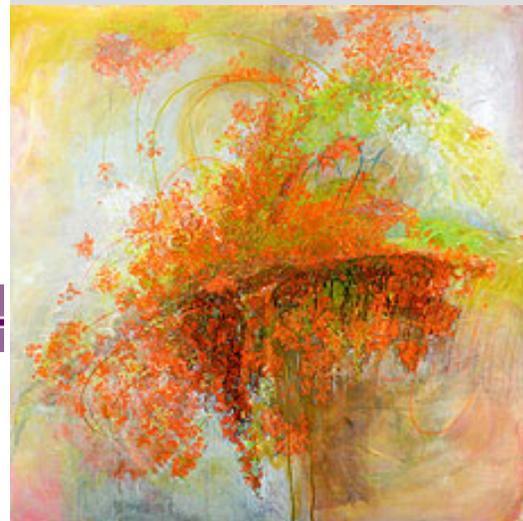
[Read more](#)

Feature

2009 Neutrino Summer School
underway at Fermilab

[Scott Willenbrock, a University of Illinois physics professor, gives a lecture on the Standard Model to students at the 2009 International Neutrino Summer School at Fermilab on July 6, 2009.](#) *Photo credit: Tonisha Taylor.*

For the past week, nearly 100 graduate students and postdocs have gathered at Fermilab for the fourth annual Neutrino Summer School. They heard lectures from Fermilab staff and staff from 15 other institutions who covered the full breadth of neutrino physics. Smaller workshops allowed students to concentrate on topics of upcoming interest. Participants also enjoyed tours of Fermilab’s neutrino facilities and evening social events. The program concludes Friday, July 17.

Abstract art works on display
examine physics, nature

"Effusion," a painting by abstract artist Kate Friedman, is an example of some of the works on display in the Fermilab Art Gallery.

A new exhibit in the Fermilab Art Gallery features multi-media abstract art works by five artists.

An artist reception celebrating the works and the artists will take place from 5-7 p.m. today in the Art Gallery.

A summary of the artists and their works is below: Guy Bellaver uses bronze or painted steel to create sculptures that range from tabletop-sized to more than 18 feet tall. He uses his works to express his fascination with positive and negative spaces and attempts to stretch the physics of the medium that he’s working in to occupy those spaces.

Mixed-media artist Kate Friedman uses painting and drawing as ways to explore nature’s visual language. Her works reflect her interest in the elemental connections between people and raw materials and physical laws of the natural universe.

John Slavik brings his artistic visions to fruition through abstract, representational and conceptual art. His pieces record his emotional response to events, places and thoughts. He hopes that they invite interaction and induce a strong physical presence.

Shawn Slavik works to capture fleeting moments in her art works. These are the moments that offer a sudden glimpse of clarity. The art works are the moments exposed and without context.

The watercolors that Ana Žanic creates are

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is online at:

www.fnal.gov/today/

Send comments and suggestions to:

today@fnal.gov

Visit the Fermilab [home page](#)

Students attending the 2009 International Neutrino Summer School at Fermilab take a coffee break between lectures. *Photo credit: Jeremy Johnson.*

[Special Announcement](#)

Wanted: Fermilab ushers Reward: Free tickets to show

The Fermilab Arts & Lecture Series is looking for a few extra ushers for Saturday evening's concert in Ramsey Auditorium by [Ashley Lewis and Ashton Gap](#), an energetic and riveting bluegrass band. Please e-mail Janet Mackay-Galbraith at mackay@fnal.gov if you want to volunteer.

Ushers will meet 45 minutes before the show and receive two free tickets. You should also contact Mackay-Galbraith if you want to be added to the Usher Corps for future events. Members of the Usher Corps are asked a few days before a show to help on a first-come, first-served basis.

[In the News](#)

Historic atom smasher reduced to rubble and revelry

From *Wired.com*, July 8, 2009

BERKELEY, California — What was once the world's biggest atom smasher will soon be nothing more than a collection of old photos and the dust beneath the next big science machine.

Lawrence Berkeley National Laboratory's Bevatron, built by the Atomic Energy Commission for \$9 million in the early '50s, is slowly being demolished in the hills overlooking San Francisco Bay. In a few years, all traces of it will be gone.

The Bevatron was a marvel, that, when compared to the rest of the human world drew ridiculous comparisons. Popular Science called it a "10,000-Ton Cracker for Invisible Nuts" and rapturously listed its dimensions. For boys of all ages, the Bevatron's stats were the 36-24-36 of physics.

The Bevatron occupied 125,000 square feet of land at the center of Lawrence Berkeley National Laboratory. It was once the crown jewel of the lab, of the National Lab system and of the particle physics world.

What it would actually do — the physics of the

abstract compositions of layered washes mixed with dynamic lines, scribbles and ink marks. She uses the colors and forms to create atmospheric spaces of transcendence.

The art works will remain up until Sept. 23.

[Announcements](#)[Latest Announcements](#)

[Accelerated C++ Short Course begins August 6](#)

[Toastmaster Meetings scheduled July 23](#)

[Change to Users' Office hours](#)

[Reminder: changes to FTL system](#)

[Time to complete accomplishment reports](#)

[Bristol Renaissance Faire discount tickets](#)

[On-site housing-fall 2009/spring 2010](#)

[Six Flags Great America discount tickets](#)

[Pool memberships available in the Recreation Department](#)

[Raging Waves Waterpark online discount ticket program](#)

[Scrapbooking Open House - July 13](#)

[Adult Swim Lessons and Water Aerobics offered at Fermi Pool - July 13](#)

[MathWorks free seminar - July 15](#)

[English Country dancing, July 19](#)

[Argentine Tango classes through July 22](#)

[Intermediate/Advanced Python Programming July 22-24](#)

[Outlook 2007: New Features class Aug. 6](#)

[The University of Chicago Tuition Remission Program Aug. 17 deadline](#)

thing — was probably obscure to most readers of Popular Science. The enormous size of this mechanical monument belied the tiny scale on which it really worked.

“It takes this mammoth to smash atoms, which are so small 20,000,000 just span a pinhead,” Huff wrote in a photo caption.

[Read more](#)

[Process piping \(ASME B31.3\) class offered in October](#)

[Interaction Management and Performance Review courses scheduled for summer 2009](#)

[Fermilab Barnstormers](#)

[Additional Activities](#)

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Classifieds

Find new [classified ads](#) on *Fermilab Today*.