

Calendar

[Have a safe day!](#)

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

[Accelerator Physics and
Technology Seminar](#) (NOTE
LOCATION) - One West
Speaker: Erik Hemsing,
University of California, Los
Angeles

Title: Generation of Light with
Orbital Angular Momentum in
Free-Electron Lasers

Wednesday, May 5
3:30 p.m.
DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over
THERE WILL BE NO
FERMILAB COLLOQUIUM
THIS WEEK

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

[Upcoming conferences](#)

Campaigns

[Take Five](#)

[Tune IT Up](#)

H1N1 Flu

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

Weather

Special Announcement

Plant a tree today in honor of Earth Day/Arbor Day

You can plant a tree or shrub today as part of the laboratory's annual Earth Day/Arbor Day celebration.

Planting takes place at 11:30 a.m. today near B Road and Old Batavia Road [\[see map\]](#).

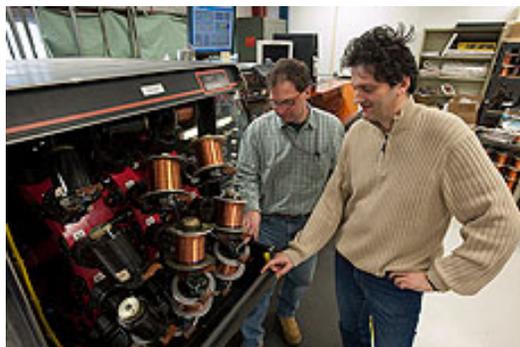
Bring a shovel and wear boots, gloves and clothes that can get dirty.

The rain date is Thursday, May 6.

Visit the Earth/Arbor Day event [website](#) for more information.

Feature

Fermilab, Japanese team earns superconductor technology award



From left: Fermilab technicians Allen Rusy, who is in charge of cabling, and Dan Turrioni, who is responsible for cable tests, inspect the cabling machine used to make the Nb₃Al cable.

Fermilab and Japanese collaborators have expanded the practicality of a cutting-edge superconductor for use in accelerator magnets, creating a path to new uses of high-field magnets in particle physics, medicine and nuclear fusion. For this achievement, Fermilab's Emanuela Barzi and Ryuji Yamada are sharing with Japanese colleagues the prestigious Japanese Superconductor Science and Technology Award.

The scientists optimized niobium aluminum, Nb₃Al, through a fabrication process called Rapid Heating Quenching and Transformation,

Director's Corner

One lab. One system.

The laboratory is adopting a single electronic system for reporting time and effort. It's about time.

Every Fermilab employee will soon begin using a new version of Fermilab Time & Labor electronic reporting. The new timecard, produced by Kronos Inc., will allow employees to use a single interface to report time worked, leave taken and effort on specific projects and tasks. For monthly employees already using FTL, the process of reporting time and effort will remain largely unchanged, although the system will be new.

This month the FTL project team, led by the Computing Division, will begin providing training and guidance to all employees on how to use the new timecard system. Monthly employees, who have already been trained in electronic reporting, will receive group instruction on how to use the new timecard. Weekly employees will receive individualized training. Timekeepers and timecard approvers will receive training as well. Computing Division employees will visit divisions during the time they begin using the new timecard to provide assistance.

Of all workers who report time and effort across North America, close to 80 percent do so via the Kronos timecard. Adoption of this well known and accepted interface reduces the need to customize the Fermilab timecard and saves on support costs. Additionally, Kronos Inc. will host the servers for the new timecard, a support role that has previously gone to the Computing Division. This will free resources to support projects and experiments central to the laboratory's mission.

One of the notable outcomes by which the Office of Science will establish the laboratory grades this year is the implementation of the time and labor reporting system for all employees. For more information, please see the Fermilab Time and Labor reporting



Fermilab Director
Pier Oddone

 Sunny
78°/56°

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

Current Security
Status

[Secou Level 3](#)

Wilson Hall Cafe

Tuesday, May 4

- Bagel sandwich
- Golden broccoli soup
- Southern-style fish sandwich
- Coconut crusted tilapia
- Burgundy beef tips
- La grande sandwich
- Assorted sliced pizza
- Chicken fajitas

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, May 5

- Lunch
- Crepes w/ Black Forest ham & gruyere
 - Cabbage salad
 - Chocolate mousse w/butter cookies

Thursday, May 6

- Dinner
- Pear and parmesan salad
 - Steak au poivre
 - Potato gratin
 - Haricots verts
 - Soufflé glace au grand marnier

[Chez Leon Menu](#)

Call x3524 to make your reservation.

Archives

or RHQT, and copper plating. This enables scientists to form niobium aluminum into long wires and cables that can withstand high-magnetic fields, above 15 Tesla without losing its superconductivity. The creation of the world's first fully copper-stabilized Nb₃Al wire

longer than one kilometer allows access to commercial applications and higher-energy accelerators. The material also provides a potential option, in addition to niobium tin, for planned upgrades to the LHC accelerator.

This leap in superconductivity technology earned those researchers one of the top Japanese awards for superconductivity research, the Superconductor Science and Technology Award. The award citation praised the researchers for widening the applications of Nb₃Al wire.

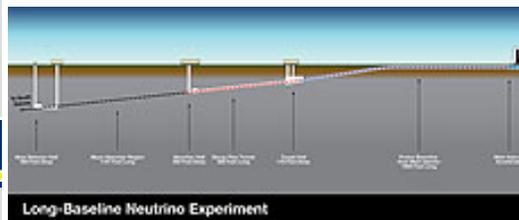
On April 13 the Japanese Society of Non-Traditional Technology gave the award to Yamada and Barzi from Fermilab and their Japanese colleagues Akihiro Kikuchi and Takao Takeuchi from the National Institute for Materials Science, or NIMS; Kiyosumi Tsuchiya from KEK; Kazuhiko Nakagawa from Hitachi Cable Ltd.; and Michio Kobayashi from Hikifune Co. Ltd. This award, recognized by the Science and Technology Agency of the Prime Minister's Office, has been given to only one other non-Japanese recipient in its 14-year history.

[Read more](#)

-- Tona Kunz

Feature

LBNE expands project office, seeks staff members



The proposed LBNE beamline would use protons from the Main Injector to create a beam of neutrinos that travels straight through the Earth to a large neutrino detector in South Dakota. The neutrino beam would traverse a small neutrino detector before leaving the Fermilab site.

In early January, the [Long-Baseline Neutrino Experiment](#) received DOE's [CD-0 approval](#), establishing mission need for the proposed project. Now the LBNE project office is gearing

[website](#). You can submit any questions about the new timecard through the Q&A section of the site.

From *symmetry breaking*

LHC Update: May 3, 2010

The Large Hadron Collider launched its research program on March 30 with the first collisions of protons at 7 TeV. In the month since those first collisions, what have the scientists working on the LHC accelerator and experiments been up to?

The LHC accelerator team has begun the long process of turning the LHC—already the world's highest-energy particle accelerator—into the world's most powerful particle collider. When any new particle collider starts up, it does so with a very low luminosity. This quantity, a measure of how efficiently a particle collider produces collision events, is key to a particle collider's power: the more particle collision events, the greater a collider's ability to produce new particle physics discoveries.

[Read more](#)

Accelerator Update

April 30 - May 3

- Four stores provided ~52.5 hours of luminosity
- Pbar LCW leak found and fixed
- TeV quench during shot setup
- TEL2 vacuum leak fixed
- NuMI extraction kicker power supply problems

*The integrated luminosity for the period from 4/26/10 to 5/3/10 was 70.55 inverse picobarns. NuMI reported receiving 8.46E¹⁸ protons on target during this same period.

[Read the Current Accelerator Update](#)
[Read the Early Bird Report](#)

[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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suggestions to:

today@fnal.gov

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up and [seeking new staff](#) to prepare for the CD-1 review that will take place in FY2011.

"We have more work to do, and we are organizing ourselves to the work done for CD-1," said Vaia Papadimitriou, level-2 project manager of the LBNE neutrino beamline.

So far, the LBNE project office comprises about a dozen level-1 and level-2 managers, including people at Brookhaven and Los Alamos National Laboratory. The project office, led by Project Manager Jim Strait of Fermilab, plans to add a [handful of positions](#) to help with finances, engineering and project controls.

"You have to have the right people in the right positions," said Elaine McCluskey, LBNE project engineer.

-- *Kurt Riesselmann*

[In the News](#)**Degrees of doubt: NAU seniors stress flexibility**

From *Arizona Daily Sun*, April 23, 2010

For soon-to-be graduates of Northern Arizona University, the "real world" could mean a job, an internship, graduate school or a question mark.

NAU will send forth about 3,200 graduates on May 7 into an economy where the clouds haven't fully parted. Not all of them know what their immediate professional future holds, but here are a few seniors preparing to make the leap:...

...THE ATOM SMASHER

Arron Shiffer didn't go to college right out of high school. He couldn't afford it, so he got into the accounting field, where he stayed for about 10 years.

But now, at age 34, he's earning degrees in physics, astronomy and philosophy, and ready to head into a doctoral program in physics at the University of California-Riverside. It was a path he meant to take -- graduate school wasn't a backup plan to ride out the recession, but part of a dream.

[Read more](#)

[View the Tevatron Luminosity Charts](#)

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

[English country dancing Sunday, May 16](#)

[Outdoor soccer league begins today](#)

[Next yoga session begins today](#)

[ACU presents "Retirement Planning for Women" - today](#)

[IMAP users: Configure your e-mail client by May 5](#)

[Argentine Tango Wednesdays May 5 to May 26](#)

[Muscle Toning by Bod Squad - May 6](#)

[National Day of Prayer observance May 6](#)

[National Lab Day 2010 - May 3-7](#)

[NALWO Children's Playgroup international party - May 14](#)

[NALWO Spring Tea - May 20](#)

[SciTech summer camps start June 14](#)

[Butts & Guts class - sign up now](#)

[Employee discount at Batavia Rosati's](#)

[Fermilab Arts Series presents Leo Kottke - May 8](#)

[Fermilab Arts Series presents Corky Siegel and Chamber Blues - June 26](#)

[ANSYS Mechanical Application classes offered in May](#)

[Submit an announcement](#)