

## Calendar

### [Have a safe day!](#)

Friday, Sept. 25

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

### [Joint Experimental-Theoretical Physics Seminar](#) - One West

Speaker: Sascha Glazov, DESY

Title: Results from HERA and Their Impact for LHC

Monday, Sept. 28

2:30 p.m.

### [Particle Astrophysics Seminar](#)

- One West

Speaker: Adam Ritz, University of Victoria

Title: Probing Dark Matter Through Dark Forces

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

All Experimenters' Meeting - Curia II

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

## Campaigns

### [Take Five](#)

### [Tune IT Up](#)

## Weather



Chance of showers  
69°/54°

### [Extended Forecast](#)

### [Weather at Fermilab](#)

## Current Security Status

## From *symmetry breaking*

### JLab, Fermilab collaboration keeps things humming



Jefferson Lab crews install Fermilab's spare turbine in JLab's cryogenics system.

It wasn't like ringing the door bell and asking to borrow a cup of sugar, but it was close.

In August, Jefferson Lab asked Fermilab to pack up its backup turbine for its cryogenics refrigeration unit and send it halfway across the country. Jefferson Lab's primary turbine was in Europe for normal wear-and-tear repair, overhaul, and design modification, and its spare turbine had just failed. The options were to lose countless hours of laboratory experiment time while the backup was sent to Europe for repair, or ask a friend for a favor.

Fermilab agreed to help, running the risk of its own equipment failure while its spare part is loaned out.

The loan of the highly delicate and complicated turbine went off as sweetly as if the two national laboratories had been sharing a white picket fence. It serves as the first success from a push for increased collaboration that arose when the two laboratory's senior engineers began chatting about their identical cryogenics refrigerators at the Particle Accelerator Conference in Vancouver in May. It is estimated that a handful or fewer of the more than three-decade-old refrigerators remain operational across the globe.

"Those turbines are essential for the production of liquid helium and take a long time to repair," says Ruben Carcagno, Fermilab's technical division head of tests and instrumentation. "They spin at over 2,000

## Recovery Act Feature

### NOvA uses Recovery Act funds to prepare Fermilab

While NOvA project collaborators carve a space for a future detector facility in Minnesota, they are preparing Fermilab's accelerator complex for the new neutrino experiment.



Fermilab purchased about 330,000 feet of cable from Andrew Solutions in Joliet, IL.

The NOvA project has used more than \$200,000 in American Recovery and Reinvestment Act funds to purchase about 330,000 feet of cable needed for an upgrade to Fermilab's accelerators.

The accelerator upgrade will allow Fermilab scientists to provide a larger supply of neutrinos for the NOvA experiment by increasing the number of protons the accelerator smashes every second into a graphite target to create neutrinos.

For the upgrade, the beam position monitors in part of the accelerator complex called the Recycler will need cable able to handle high-frequency signals.

The NOvA project purchased the necessary cable from Andrew Solutions, a company in Joliet, Ill., that designs and produces wireless communication equipment.

"We're one of the few American manufacturers of these cables," said Jack Gallagher, the Andrew representative who handled the sale. "It's nice for any customer support issues for Fermilab that we're a local company."

Fermilab has been buying materials from Andrew since 1996, but this was its largest purchase from the company.

Andrew products usually wind up on cell phone towers. At Fermilab, these cables will tell accelerator operators how to steer a beam of protons circling around the Recycler at close to the speed of light.

"This will give us more available beam power," said Paul Derwent, NOvA associate project manager.

[Secon Level 3](#)[Wilson Hall Cafe](#)

Friday, Sept. 25

- Chunky vegetable soup with orzo
- Buffalo chicken wings
- Cajun breaded catfish
- Teriyaki pork stir fry
- Honey mustard ham and swiss panini
- Assorted pizza slices
- Carved turkey

[Wilson Hall Cafe menu](#)[Chez Leon](#)

Wednesday, Sept. 30

Lunch

- Marinated flank steak with mushrooms and pea pods
- Jasmine rice
- Lemon cheesecake

Thursday, Oct. 1

Dinner

- Tomato soup with orange and cumin
- Individual beef croustades with boursin and mushrooms
- Baby spinach with scallions and lemon
- Chocolate mousse

[Chez Leon menu](#)

Call x3524 to make your reservation.

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

revolutions per second, so you need a very fancy mechanical device to sustain that rate without getting damaged. It is not like it is easy to find a similar machine."

[Read more](#)

-- Tona Kunz and Kandice Carter

[Recreation Feature of the Month](#)**Classes, events and discounts for October**

**Editor's note:** This is the third installment of a monthly article highlighting upcoming classes, events, clubs and discounts from the Recreation Department.

Fall is almost here, but that doesn't mean it is time to give up on your fitness. Fitness classes are starting now:

Yoga: Oct. 6 - Nov. 24 from noon-1 p.m. on Tuesdays in the Wilson Hall auditorium. Session fee: \$85.

Muscle Toning: Oct. 6 - Dec. 17 from 5:30-6:30 p.m. on Tuesdays and Thursdays at the Recreation Facility. Session fee: \$90.

This month, the Benefits/Recreation Department will also sponsor the following wellness events:

- Lunch and Learn: "Dealing with Difficult People," Wednesday, Oct. 14, from noon-1 p.m. in Curia II. Presenter: Ginny Stack, Employee Assistance Program.
- Health and Wellness Fair: Thursday, Oct. 29, from 11:30 a.m. - 2 p.m. in the Wilson Hall atrium.
- Weight Watchers at Work program: A free informational meeting is coming soon. Call x5427 for more information or to reserve your space.

Club meetings:

- Toastmasters: Thursday, Oct. 1, Wilson Hall, 7th floor Racetrack; Oct. 15, Wilson Hall 13th floor Fishtank; Oct. 29, Wilson Hall One East. Meetings are scheduled from noon - 1 p.m. Click [here](#) for more info.
- Scrapbooking open house: Monday, Oct. 12, Wilson Hall Aquarium, 11:30 a.m. - 1 p.m. \$5 fee. Call x5427 for reservations.
- Fermilab Sustainable Energy Club: Tuesday, Oct. 20, Users' Center Music Room, 5:10 p.m.

Fall Athletic Leagues:

-Kathryn Grim

Visit Fermilab's [Recovery Act Web site](#).

[Feature](#)**Computer Security Awareness Day**

[Click the image for the full listing of all Computer Security Awareness Day events.](#)

You type your name, address and credit card number into an online form. Somewhere across the country, a hacker gains access to your personal information and swipes it. But what happens next?

A speaker from Team Cymru, a local Internet security research organization, will explain that and more in a lecture on the underground economy of identity theft at noon on Tuesday during Fermilab's Computer Security Awareness Day event. Lectures will take place in the Wilson Hall One West, Wilson Hall One North and Curia II conference rooms. The lectures are free and do not require registration. Friends and family members may also attend.

You can also bring your USB drives to the password doctor kiosk in the Wilson Hall atrium where CD's Greg Cisco will scan them for viruses between 11:30 a.m. - 1 p.m.

Computing Division employees will hold several other talks and training sessions between 9 a.m. and 5 p.m. on Tuesday. Attend these events to learn more about passwords, the new remote VPN system, the Tune IT Up campaign and other computer security topics. You can also fulfill your ITNA requirements by completing training provided Tuesday on subjects such as basic computer security, protecting personal information and security essentials for system administrators.

Check [here](#) for a full schedule.

*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)

Visit the Fermilab

[home page](#)

- Singles Tennis: Tuesdays and Fridays, 1-5 p.m., Recreation Facility Gym. Contact [John Yoh](#).
- Coed Volleyball League: Begins in November. Captain's meeting held Oct. 27 at Noon in Wilson Hall cafeteria. Contact [Sergey Los](#).
- Indoor Soccer league: Wednesdays 6-9 p. m. and Fridays 6-8 p.m., Recreation Facility gym. Contact [O'Sheg Oshinowo](#)
- Open Dodgeball coming soon: Contact Mike Geelhoed by [e-mail](#) or at x3721.
- Badminton coming soon: Contact [Aaron Chou](#).

Employees and users can also contact the Recreation Department to take advantage of special discounts, including:

- Great America Fright Fest tickets, \$28.
- Thai Village restaurant: \$7 Fermi Lunch menu. Menus are available in the Recreation Office or online.
- AMC and Goodrich Theater tickets, \$7.

### Special Announcement

## Oddone, Tollestrup speak at scientific discussion Sept. 28

Join Fermilab Director Pier Oddone and scientist Alvin Tollestrup at DePaul University on Monday, Sept. 28, as they discuss what lies at the roots of scientific discovery with author Marco Bersanelli.

Presented by the Crossroads Cultural Center and the Office of Academic Affairs at DePaul, the Wonder and Knowledge Conference marks the publication of "From Galileo to Gell-Mann: the wonder that inspired the greatest scientists of all time: in their own words," by Marco Bersanelli.

The event begins at 7 p.m. and will take place in John R. Cortelyou Commons at DePaul, located at 2324 N. Fremont St. in Chicago. The conference is free and open to the public.

### In the News

## Announcements

### Latest Announcements

[Computer Security Awareness Day - Tuesday, Sept. 29](#)

[Muscle Toning class begins Oct. 6](#)

[Weight Watchers at Work coming soon](#)

[Day of Astronomy in Aurora - Oct. 3](#)

[Special movie screening in Chicago for the Year of Astronomy - Sept. 25 - Oct. 1](#)

[On-site prescription eyewear technician dates of absence](#)

[Yoga class begins Oct. 6](#)

[Accelerate to a Healthy Lifestyle: Exercise! Wrap-up notification](#)

[Submit advance leave agreement form](#)

[Costco hosts Fermi reception in St. Clements- Sept. 24](#)

[International folk dancing on Thursdays begins today at Kuhn Village Barn](#)

[Argentine Tango through Sept. 30](#)

[ACU presents "Investing in an uncertain market" - Oct. 1](#)

[Toastmasters - Oct. 1](#)

[NALWO - Annual Autumn Potluck Luncheon - Oct. 2](#)

[Prairie Seed Harvest - Oct. 3](#)

[English Country Dancing - Oct. 4](#)

[Sign up for fall Science Adventures classes](#)

[Buttered Rum performs on Fermilab Arts Series - Oct. 24](#)

[Fred Garbo Inflatable Theatre - at Fermilab Arts Series - Nov. 7](#)

## Astronomy Day planned in Naperville

From **Suburban Chicago News**, Sept. 24, 2009

The International Year of Astronomy will be a global celebration of astronomy and its contributions to society and culture, marking the 400th anniversary of Galileo's first astronomical observations with a telescope. More than 125 countries will be participating in order to encourage worldwide interest in astronomy.

[Read more](#)

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

[Additional Activities](#)

[Submit an announcement](#)

Classifieds

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