

Calendar

[Have a safe day!](#)

Monday, Nov. 2
1:30 p.m.

[Research Techniques Seminar](#) -

Curia II

Speaker: Juha Kalliopuska, VTT
Micro and Nanoelectronics, Finland

Title: Edgeless Detectors for High
Energy Physics Applications

2:30 p.m.

[Particle Astrophysics Seminar](#) - One

West

Speaker: Tyce DeYoung,
Pennsylvania State University

Title: Particle Physics and
Astrophysics with IceCube

3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd

Flr X-Over

4 p.m.

All Experimenters' Meeting

Special Topics: ILC Cavity Gradients
and Manufacturing; CMS/LHC Report

- Curia II

Tuesday, Nov. 3

3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd

Flr X-Over

4 p.m.

[Accelerator Physics and Technology](#)

[Seminar](#) - One West

Speaker: Bill Ng, Fermilab

Title: Coupling Impedances of
Accelerator Rings (Part 1 of 3)

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

Campaigns

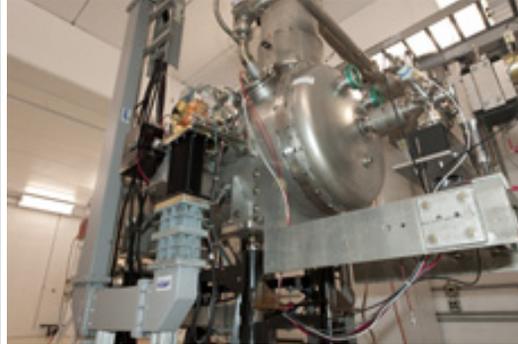
[Take Five](#)

[Tune IT Up](#)

H1N1 Flu

Feature

SRF cryogenics system proves its 'cool' factor



Engineers recently cooled this SRF test unit to 2 degrees Kelvin, or minus 271 degrees Celsius.

Fermilab has passed another major milestone on the road to becoming an expert in superconducting radio frequency technology.

In early October, in the first test of the cryogenics system at the RF-unit test facility at the New Muon Lab, Fermilab engineers cooled a superconducting capture cavity to 2 degrees Kelvin, or minus 271 degrees Celsius. This is the temperature needed for cavities that could be used in next-generation accelerators such as the proposed Project X. The successful test was the final step in commissioning the cryogenic system at the new test facility.

"It proves that our system works and we know what we are doing," said engineer Jerry Leibfritz.

Scientists will use the capture cavity, which resides inside a mini-cryomodule that can hold a single SRF cavity, to test the cryogenic and RF power systems recently installed in the New Muon Lab. Next, Fermilab plans to test cryomodules similar to those intended for the proposed Project X and the proposed ILC.

Because of limited funds, engineers used recycled parts from the Tevatron at Fermilab and took a giant vacuum pump out of storage from Thomas Jefferson National Accelerator Facility to construct the current cryogenic plant. With the help of funding from the American Recovery and Reinvestment Act, Fermilab will build a larger cryogenic plant adjacent to the New Muon Laboratory to increase dramatically the capability of the current facility.

Facilities to build and test cryomodules exist at DESY in Germany and are under construction at KEK in Japan. In the United States, Fermilab is the only laboratory capable of building and testing these multi-million dollar

ES&H Tips of the Week - Safety

Electric space heaters



Two views of an electric space heater from Fermilab's Stock Room show the UL label and tip-over switch (left) and a warning label with minimum spacing requirements (right).

With the return of cold weather, many folks at Fermilab will seek the supplemental warmth of an electric space heater. Because these devices use electricity and generate heat, we need to think about their potential to produce electric shocks and fires. These hazards can be controlled by selecting the best heater for the situation and applying good practices.

Get a safe space heater

Check for listing by Underwriters Laboratories (UL) or third-party certification ("FM" or "ETL"). Choose heaters that operate at lower temperatures, such as those manufactured with ceramic elements. Look for the presence of a tip-over switch and a maximum temperature switch. A good choice is the 1,500 W ceramic heater available through Fermilab's Stock Room (#2800-100000). Click [here](#) for access to the lab's stock catalog.

Follow manufacturer recommendations

Essentially everything you need to know about safe operation of the heater is written in the instructions. Key precautions are often summarized on equipment labels.

Use common sense

Place the heater in plain sight so it can be monitored. Turn it off when no one is in the room. Plug the heater directly into a wall outlet. Do not use extension cords or power strips. There should be nothing in contact with the top or sides of the heater. Keep combustible materials at least three feet away. Avoid use near water. Watch for frayed cords and loose parts.

— *Tim Miller*

[Safety Tip of the Week Archive](#)

Special Announcement

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

Weather

 Chance of rain
54°/30°

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

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Monday, Nov. 2

- Croissant sandwich
- Potato leek soup
- Monte cristo
- Half of a roasted chicken
- Alfredo tortellini
- Chicken ranch wrapper
- Assorted slices of pizza
- Szechuan-style pork lo mein

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, Nov. 4

- Lunch
- Pork braciolo
 - Latin fried rice
 - Pineapple flan

Thursday, Nov. 5

- Dinner
- Red pepper soufflé with julienne of zucchini
 - Lobster tail with drawn butter
 - Spaghetti squash with scallions
 - Steamed green beans with dill
 - Crème brule

[Chez Leon Menu](#)

Call x3524 to make your reservation.

Archives

ILC-type cryomodules. Help from international partners, such as DESY, INFN and KEK, and U.S. partners, including Argonne, Jefferson Lab, SLAC and Cornell, made the construction of Fermilab's test facility possible.

— *Tona Kunz*

Special Announcement

Register for seasonal influenza vaccinations

Fermilab's Medical Office will offer seasonal influenza vaccinations to Fermilab employees by appointment from 8:30 to 9:45 a.m. Wednesday in the Medical Department.

Employees can register to receive the flu shot [here](#).

If the number of employees interested in the vaccine exceeds available doses, the Medical Office will collect the names of those who were unable to register. This will help them gauge demand as they look for additional resources.

Fermilab will not offer H1N1 vaccinations to employees. But the Medical Office recommends that employees receive both the seasonal influenza vaccine and the H1N1 vaccine, as vaccines become available elsewhere.

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

Milestones

Editor's note: *Births, deaths, birthdays, weddings and other notable news from Fermilab employees and users will be included here on a regular basis.*

Weddings:

Dirk Hurd of Fermilab's Accelerator Division and Engineering Support Mechanical Department and Rachel Rauchmiller from Fermilab's Computing Division were married on Oct. 3. They traveled to St. Lucia for their honeymoon and are settling into their new home in Aurora.

Rhianna Wisniewski, editor of *Fermilab Today*, of Fermilab's Office of Communication, married Sebastian Szyszka on Oct. 17. They traveled to Italy for their honeymoon.

Submit your [milestones](#) to *Fermilab Today*.

Rural driving alert

The Secretary of State's office and the Illinois Farm Bureau are alerting motorists in rural areas that the state's farmers are running behind with this year's harvest because of continuing wet weather.

This means a record number of tractors, combines, trucks and wagons are still using rural roads and highways after Daylight saving time ended this weekend.

Please be careful on the roads and watch out for farm equipment during the darker drive home after work.

Accelerator Update

Oct. 28-30

- Four stores provided approximately 28.25 hours of luminosity
- FESS cleaned RF pond water strainer
- MI vacuum system rebooted
- TeV sector A4 cryo system lost control power
- CAMAC front ends and TCLK required reboot

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

Latest Announcements

[Badminton Open House - Nov. 4](#)

[Travelers must complete profile for TSA](#)

[Fermi Martial Arts classes today](#)

[Health screenings available](#)

[Health Risk Assessments - Learn more about your potential health risks](#)

[Coed indoor volleyball starts in November](#)

[Facilitating Meetings That Work - Nov. 4](#)

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

[PowerPoint Tips and Tricks - Nov. 11](#)

[Access 2007: Intermediate - Nov. 18](#)

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

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[CMS Result of the Month](#)

[User University Profiles](#)

[ILC NewsLine](#)

Info

Fermilab Today

is online at:

www.fnal.gov/today/

Send comments and suggestions to:

today@fnal.gov

Visit the Fermilab

[home page](#)

[HTML Intro: Intro to Web Publishing - Dec. 1](#)

["The Night Before Christmas Carol" at Fermilab Arts Series - Dec. 5](#)

[Discount movie tickets available](#)

[Chicago Bulls discount tickets](#)

[Chicago Blackhawks discount tickets](#)

[Thai Village restaurant discount](#)

[Additional Activities](#)

[Submit an announcement](#)