

Calendar

[Have a safe day!](#)

Friday, May 28

3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd

Flr X-Over

THERE WILL BE NO JOINT
EXPERIMENTAL-THEORETICAL
PHYSICS SEMINAR THIS WEEK

Monday, May 31

HOLIDAY - MEMORIAL DAY

Tuesday, June 1

12 p.m.

[Summer Lecture Series](#) - One West

Speaker: Young-Kee Kim, Fermilab

Title: Introduction to Fermilab

3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd

Flr X-Over

4 p.m.

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

Speaker: Valeri Lebedev, Fermilab

Title: Optical Stochastic Cooling in the
Tevatron

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

Feature

Wanted: Coyote sightings



AD's Greg Vogel took this photo of a 2-year-old coyote on site wearing a tracking collar.

The largest coyote study in the Chicago area needs your help.

Even though the [six-year study](#) ended four years ago, researchers think they might be able to add valuable new information gleaned from coyote No. 351 who has been spotted at Fermilab.

The coyote, a 2-year-old male, is one of about 150 coyotes tagged with a radio transmission collar during the [Cook County Coyote Project](#) launched in 2000 by the [Max McGraw Wildlife Foundation](#) in Dundee, Ill. The study also became part of a [larger research report](#) on coyotes in five urban areas done by Ohio State University. The transmitter has long stopped working so researchers must rely on observations. The coyote is bold, unlike most coyotes, and is willing to walk around in broad daylight. There have been no reports of this coyote acting aggressively.

Researchers are particularly interested because this coyote traveled to Fermilab from Schaumburg, where its parents were also tagged, when it was a year old. They also want information about how successful he has been integrating himself with the 24 coyotes that call Fermilab home.

Anyone who spots the coyote at Fermilab or in nearby Warrenville, where it also has been seen, should contact Fermilab's ecologist Rod Walton at rwalton@fnal.gov.

From *symmetry breaking*

Recovery Act

Recovery Act funds two new cryostats



Joe Ozelis, area leader for test cavity facilities, is working with a 9-cell cavity in the vertical test stand. The addition of two new cryostats will more than triple the capacity of the facilities.

A local company, Ability Engineering Technology Inc., is building two cryostats for Fermilab with funding from the American Recovery and Reinvestment Act.

"This has been a good project for us," said Eugene Botsoe, Ability president and owner. "It's allowed us to keep several people on payroll that might not have been able to stay here otherwise. In fact, because we are involved with multiple jobs at Fermilab at the moment, we've been able to bring back several people."

The small company, based in South Holland, Ill., has worked with Fermilab for more than 20 years.

Each 20-foot-long cryostat costs approximately \$142,000, and the pair will be used to test superconducting radio-frequency cavities in Industrial Building 1's vertical cavity test facility.

"This funding is helping to fast track these facilities for the higher testing capacity required by potential Fermilab projects like Project X," said Joe Ozelis, cavity test area leader for the Technical Division's Test and Instrumentation Department. "This is moving us closer to meeting goals for the lab's future."

SRF cavities must withstand very high electric fields in order to accelerate particles. However, their superconducting abilities require temperatures close to absolute zero. To measure the performance of these cavities, technicians place them in a vertical test stand,



Sunny
79°/55°

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

[Current Security Status](#)

[Secou Level 3](#)

[Wilson Hall Cafe](#)

Friday, May 28

- Breakfast: Chorizo burrito
- Old fashioned ham & bean soup
- Philly-style chicken
- Chicken pot pie
- Smart cuisine: Baked fish over rice
- Roasted veggie & provolone panini
- Assorted sliced pizza
- Baked potatoes

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Wednesday, June 2

Lunch

- Bourbon baby back ribs
- Coleslaw
- Baked beans
- Lemon meringue pie

Thursday, June 3

Dinner

- Melon & prosciutto
- Prime rib
- Whipped potatoes
- Steamed asparagus
- Fruit sorbet

[Chez Leon Menu](#)

Call x3524 to make your reservation.

[Archives](#)

Minnesota governor visits NOvA site

Saturday, May 15, marked a state holiday in Minnesota. Enthusiasts headed north to the annual Governor's Fishing Opener, the first day of the fishing season, in search of Minnesota's state fish, the walleye.

On Friday, Minnesota Gov. Tim Pawlenty stopped to visit Minnesota residents and visitors interested in a different type of catch: neutrinos.

Pawlenty took a quick tour of the future site of the NOvA neutrino detector facility in Ash River, Minn. The facility is not far from where Minnesotans cast their lines during this year's opener, Lake Kabetogama. Scientists and those managing construction held public tours on Friday before welcoming the governor.

Pawlenty expressed his support for conducting the research in Minnesota. But he didn't stay long; the afternoon clouds had begun to clear just in time for the Fishing Opener community picnic.



-- *Kathryn Grim*

[View](#) the article

In the News

Muon whose army? A tiny particle's big moment

From *New Scientist*, May 26, 2010

THE standard model of particle physics is like Gormenghast - a sprawling castle constructed by tacking on new rooms as needed, with no underlying grand design. It was built to house a particle-level explanation for the entire universe and it succeeds on many counts.

Some physicists are now looking to tack on annexes to accommodate the Higgs boson, dark matter and the graviton, if they can be found (see "Inside the standard model"). Others think the structure needs an overhaul, and they have worked up new blueprints for magnificent palaces based on ideas such as string theory. Trouble is,

which includes a cryostat. The cryostat acts like a thermos: the cavity is placed in the cryostat's inner chamber, which is filled with liquid helium and tested at a temperature between 1.5 and 2 Kelvin.

Currently, the vertical test stand facilities include a 3-year-old cryostat that can test a pair of nine-cell SRF cavities each week. The additional two cryostats will more than triple the capacity of the facilities. This will allow the test facility to support the proposed Project X requirements and continue research and development of SRF cavities at the laboratory.

-- *Daisy Yuhas*

[Announcements](#)

Latest Announcements

[Lecture Series: Intermediate/Advanced Topics](#)

[Weekly time sheets due today](#)

[Behavioral interviewing](#)

[Earned Value Management \(EVMS\) - June 7&8](#)

[Diversity Office volunteer opportunity - May 25-June 8](#)

[Ask HR: 15th floor visits CD - FCC on Wednesday, June 2](#)

[Toastmaster meeting - June 3](#)

[10,000 Steps Per Day walking program](#)

[Sand Volleyball held on Tuesdays starting May 25](#)

[May Benefits Bulletin](#)

[43rd Fermilab Users' Meeting registration - June 2 - 3](#)

[SciTech summer camps start - June 14](#)

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

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

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

[***Fermilab Today***](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[CMS Result of the Month](#)

[User University Profiles](#)

[ILC NewsLine](#)

it's almost impossible to tell whether these designs are realistic, or just fairy-tale constructions with clouds for foundations.

Even those who don't want to tear the castle down wouldn't mind testing its strength using some big artillery. That's the main reason for building the Large Hadron Collider (LHC), the brawniest of all particle experiments at the CERN laboratory near Geneva, Switzerland.

Yet several smaller groups are successfully using a gentler approach, tapping at the castle walls, feeling for weak points. Among these, one experiment stands out for identifying what may be the first major crack in the edifice of the standard model.

[Read more](#)

[Introduction to LabVIEW course - July 13](#)

[Embedded Design with LabVIEW FPGA and CompactRIO seminar - July 13](#)

[Interaction Management Coaching Forum - July 27](#)

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