

Calendar

[Have a safe day!](#)

Wednesday, Dec. 1
3:30 p.m.

DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over
4 p.m.

[Fermilab Colloquium](#) - One
West

Speaker: Asantha Cooray,
University of California,
Irvine

Title: The New Era of Sub-
Millimeter Cosmology: First
Results from Herschel
Space Observatory

Thursday, Dec. 2
10:30 a.m.

[Research Techniques](#)

[Seminar](#) - Curia II

Speaker: Guido Magazzu,
University of California,
Santa Barbara

Title: FF-LYNX: Protocol
and IP-Cores for Integrated
Control and Readout in
Future HEP Experiments
2:30 p.m.

[Theoretical Physics Seminar](#)

- Curia II

Speaker: Pierre Artoisenet,
Ohio State University

Title: Automation of the
Matrix Element Reweighting
Method

3:30 p.m.

DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over
THERE WILL BE NO
ACCELERATOR PHYSICS
AND TECHNOLOGY
SEMINAR THIS WEEK

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

[Upcoming conferences](#)

Campaigns

Special Announcement

Physics for Everyone today at 12:30 p.m. in auditorium



Electron Beam Technologies, a small company based in Kankakee, uses electron beam accelerators to treat wire and cable insulation. *Photo: Reidar Hahn*

Particle physics research has helped lead to the development of some of today's most commonly used technology, including the MRI machine and the Web.

Learn more about the benefits of particle physics at today's Physics for Everyone lecture. Elizabeth Clements, senior science communicator in Fermilab's Office of Communication, will discuss how advances in research led to breakthroughs in such areas as medicine, national security and industry. From the economy to the environment, particle physics has a role to play in addressing the global challenges that are at the top of every nation's list.

The lecture "How particle physics can benefit society" will take place from 12:30 – 1:30 p.m. today in Ramsey Auditorium. There will be time for questions and answers. The lecture is part of a non-technical series about Fermilab science and culture. Members of the public are welcome.

Correction

Correction

The article titled "Fermilab begins operation of first SRF cryomodule" that ran in Tuesday's [issue](#) of *Fermilab Today*

Director's Corner

Next steps



Fermilab Director Pier Oddone

The Voluntary Separation Offer closed on Monday, Nov. 29. Thirty-two employees volunteered, and we accepted 31 into the program. One group had more volunteers than could be accepted without harming the group's performance. While the number of volunteers is somewhat lower than we had expected, at this time we contemplate no further actions until we learn more about upcoming Congressional actions.

The first Congressional action is needed before Dec. 3 when the present Continuing Resolution (CR) expires. Yesterday, the House prepared an extension of the CR to Dec. 18 that may come up for a vote before the end of the week. This would create a brief extension that hopefully will allow the President and Congressional leaders to agree on an overall legislative strategy to address several critical issues, including the ratification of the Strategic Arms Reduction Treaty (START), the extension of the tax cuts that expire at the end of this year and the FY2011 appropriation bills for the fiscal year that started last Oct. 1. During this short extension of the CR the Congress may pass an omnibus appropriations bill for FY2011, or, more likely, a year-long CR at the FY2010 enacted funding level. If there is no agreement before Dec. 18, the Congress is likely to extend the CR to February or March, kicking the can down the road and maintaining an unhealthy level of uncertainty for all science programs. There is no way to sugar coat the current situation.

[Take Five](#)[Weather](#)

Chance of Snow
27°/18°

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

[Current Security Status](#)[Secon Level 3](#)[Wilson Hall Cafe](#)

Wednesday, Dec. 1

- Breakfast: English muffin sandwich
- Portobello harvest grain
- Santa Fe chicken quesadilla
- Hoisin chicken
- *Parmesan chicken
- Cuban panini
- Assorted sliced pizza
- Shrimp pesto

**carb restricted alternative*

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Wednesday, Dec. 1

Lunch

- Shepherd's pie
- Field greens w/ cranberries & walnuts
- Cocoa cappuccino mousse w/ cookies

Thursday, Dec. 2

Dinner

- Family-style seating buffet
- Roast suckling pig
- Oven roasted turkey
- Baked sweet potatoes
- Sage & onion stuffing
- Mashed potatoes
- Medley of vegetables
- Assortment of desserts

[Chez Leon Menu](#)

Call x3524 to make your reservation.

[Archives](#)

mentioned that the eight-cavity superconducting radiofrequency cryomodule was the first in the U.S. We appreciate the correction by our friends at Jefferson Laboratory who pointed out that CM1 was not the first eight-cavity cryomodule in the U.S. The article should have explained that CM1 is the only one of its kind in the U.S. It comprises eight nine-cell 1.3 GHz SRF cavities. *Fermilab Today* regrets the error.

[In the News](#)

Tune in to live whale songs on your computer

From ***Treehugger (A Discovery Company)***, Nov. 30, 2010

You can stream all sorts of nature sounds on your computer to keep you calm during the day -- babbling brooks or rustling trees or ocean waves. But have you ever listening to whales singing live to you? A project called Listen to the Deep Ocean or LIDO, gives you that opportunity. But surprisingly, the tools used to record the song are tuned for something much more... spacey. Researchers trying to listen to neutrinos, which are emitted by distant stars, they've been able to pick up some extraordinary sounds of more earthly creatures.

EarthTimes reports, "Amazingly, whales sing at the same wavelength as the neutrinos emitted by distant stars. Fishing for neutrinos 2500 metres under the Mediterranean Sea off Toulon in France lies the Antares project, one of 12 giant underwater telescopes located around the world. Particle physicists seek to detect the pulse of light emitted when a rare passing neutrino collides with a water molecule. Robert Lahmann is acoustic team leader at the Antares project, explains why the astrophysicists started to listen in to the depths, "While no one has ever heard a neutrino, it is theoretically possible that we could hear a high energy collision, which is why Antares has an array of hydrophones attached to it."

While it's one thing to listen to neutrinos, it's also possible to tune in to the songs of whales and other creatures. Biologists are using the instruments to learn more about marine noise and how it impacts living creatures. We understand that noise pollution can be lethal to whales, and that even baby corals use reef "music" to find

In the meantime we continue to make the strongest possible case for supporting Fermilab's science programs and to articulate the value they bring to the nation. We are also as conservative as possible with expenditures, delaying what we can without creating major problems, in order to be in a position to deal with the uncertainties ahead.

[Safety Update](#)

ES&H weekly report, Nov. 30

This week's safety report, compiled by the Fermilab ES&H section, includes no recordable incidents. Find the full report [here](#).

[Safety report archive](#)

[Announcements](#)

Latest announcements

[Fermilab blood drive - Dec. 20 & 21](#)

[Scrappers club meets Dec. 7](#)

[Symposium celebrates 25th anniversary of first collision at Tevatron - Dec. 17](#)

[Annual potluck party and skits - Dec. 17](#)

[Node registration unavailable Dec. 2](#)

[Fermilab Arts Series presents "A Celtic Christmas"](#)

[Fermilab Art Gallery - artist reception Dec. 10, painting demo Dec. 15](#)

[Toastmasters - Dec. 2](#)

[Winter holiday party special - Dec. 10](#)

[Winter holiday tea - Dec. 3](#)

[Submit a topic suggestion for Disability Awareness seminar](#)

[Wilson Hall super science stocking stuffer sale - Dec. 8-9](#)

[Free martial arts class - Dec. 15](#)

[PayFlex PowerPoint presentation](#)

[**Fermilab Today**](#)

[Director's Corner](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[CMS Result of the Month](#)

[User University Profiles](#)

[ILC NewsLine](#)

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just the right spot on a reef, but this is only the beginning of understanding how sound affects marine life.

While this telescope is perhaps intended for particle physicists, marine biologists are certainly benefiting -- and so can you. Check out the LIDO project...and put on your headphones. Last checked, the Antares was picking up sperm whales, dolphins, baleen whales, shipping noise, and other sounds.

[Read more](#)

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

[Fermilab Arts and Lecture Series box office winter schedule](#)

[Users Office holiday hours](#)

[Tango at Fermilab through today](#)

[Pedestrian safety awareness for families](#)

[Pedestrian safety at crosswalks](#)

[Accelerate to a Healthy Lifestyle program through Dec. 31](#)

[Submit an announcement](#)