

Calendar

Friday, Jan. 4
Happy New Year!
 THERE WILL BE NO SEMINARS THIS WEEK

Weather



Mostly sunny 32°/27°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Friday, Jan. 4

- Old fashioned ham & bean
- Philly style chicken
- Braised pork chops
- Baked fish over rice
- Roasted veggie & provolone panini
- Assorted pizza slices
- Baked potato

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, Jan. 9

Lunch

- Cheese fondue
- Marinated vegetable salad
- Fresh fruit plate

Thursday, Jan. 10

Dinner

- Shrimp chowder
- Filet mignon w/pinot noir sauce
- Potato dauphinos
- Steamed green beans
- Marzipan cake

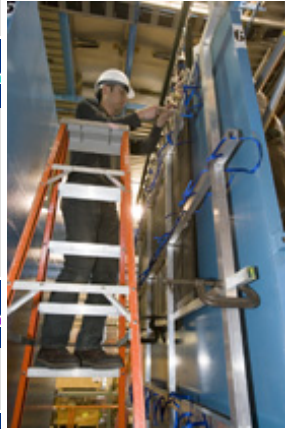
[Chez Leon Menu](#)

Call x4598 to make your reservation.

Archives

Feature

Second to none, but made from second-hand parts



SciBooNE collaborator Yasuhiro Nakajima, a graduate student from Kyoto University, installs counters made up of reused scintillators, photo tubes and bases onto 2-inch recycled steel plates. Other than the support frame, everything in the photo is recycled.

Those photomultiplier tubes are essential for SciBooNE's measurements of cross sections of neutrino interactions. A new tube can cost several hundred dollars. However, scrounging collaborators and a resourceful international collaboration, put SciBooNE together on a shoestring budget.

SciBooNE's detector systems are made almost entirely of reused materials, including components from Japan, Italy and from Fermilab projects. SciBooNE's muon range detector has 360 channels of scintillators, photomultiplier tubes and bases, all collected or borrowed.

Reusing materials for SciBooNE has saved limited resources and millions of dollars. SciBooNE project head Rick Tesarek estimates that it would cost \$4.5 million to create the components of the experiment. Instead, the project cost \$1.2 million.

One of Joe Walding's fond memories of working on SciBooNE takes place amid piles of rubbish. Walding and other graduate students dug through abandoned materials, collecting electronic cables from previous experiments and sorting through 30-year old photomultiplier tubes. "We were very close to not having enough tubes for the detector," Walding recalled. "So every good one found brought a sense of excitement and relief."

Tesarek estimates that they saved \$120,000 on photomultiplier tubes alone

In the News

Fermilab funding cuts don't make a particle of sense

From *Chicago Sun-Times*, Jan. 4, 2008

The first proton therapy cancer treatment center in the United States opened in 1990 using equipment made at Fermilab near far west suburban Batavia.

The technology behind the MRI comes courtesy of Fermilab, too.

The scientific work at the lab is esoteric. But a side result of such science are innovations that make our lives better. It's sort of like that commercial that boasts: We don't make the products, we just make them better.

But apparently that kind of high-brain science is too much for legislators in Washington. They're slashing Fermilab's funding by \$52 million. The lab is set to lay off 10 percent of its 2,000-person work force, and those left have to take two unpaid days off a month.

Senators Dick Durbin and Barack Obama and Rep. Judy Biggert have requested more money.

[Read more](#)

[Listen](#) to a WBEZ radio interview with Fermilab Director Pier Oddone Jan. 3, 2008. (Interview starts at 15:40).

Read a related news story on budget cuts affecting [Argonne](#).

See all related news stories [here](#)

Photo of the Day

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

Fermilab Today is online at:
www.fnal.gov/today/

Send comments and suggestions to:
today@fnal.gov

[Listen to a Fermilab Today interview with SciBooNE project head Rick Tesarek.](#)

thanks to the help of graduate students like Walding, a student from Imperial College, London. Tesarek called friends and colleagues to ask for old tools, equipment racks, cable trays, cables and electronics. In an international recycling effort, the project's collaborators disassembled, shipped and reassembled a detector from KEK in Japan. "The SciBar detector represents 15 tons of scintillator that we were able to reuse," said Tesarek.

Now, Tesarek and his colleagues are thinking about ways to reuse materials when SciBooNE ends. "Some components will go back to Europe and Japan, but we will likely reuse the scintillator and steel here at Fermilab," said Tesarek. Fermilab's tradition of saving parts and money will continue.

-- *Haley Bridger*

NYSGrid and OSG Partner to Expand Grid Capabilities and Collaborations

From Press release, *Open Science Grid*, Jan. 3, 2008

NYSGrid, a consortium of institutions collaborating to create a blueprint for New York's 21st century cyberinfrastructure, announced today that it has signed a partnership Memorandum of Understanding with the Open Science Grid, a consortium developing international grid capabilities for scientists...

"With its reach across New York State, NYSGrid brings a number of strong research institutions and resources to OSG," said [Fermilab's] Ruth Pordes, OSG executive director. "This is a constructive step in creating an interoperable system for scientific research that spans the globe."

[Read more](#)

Cool, calm and reflective



AD's Mike McGee submitted this serene photo, taken Friday, Dec. 28, 2007, of a small Fermilab pond located north of Feynman Computing Center.

Announcements

[Have a safe day!](#)

Project X physics workshop Jan. 25-26

Fermilab will host a second users' workshop Jan. 25-26 to discuss the physics of Project X. The workshop will focus on the details of the experiments that might be proposed to take advantage of a high-intensity proton source, their physics impact and the development of the overall experimental strategy. Information about the workshop, working groups and ongoing efforts is available [online](#).

New location for International Services

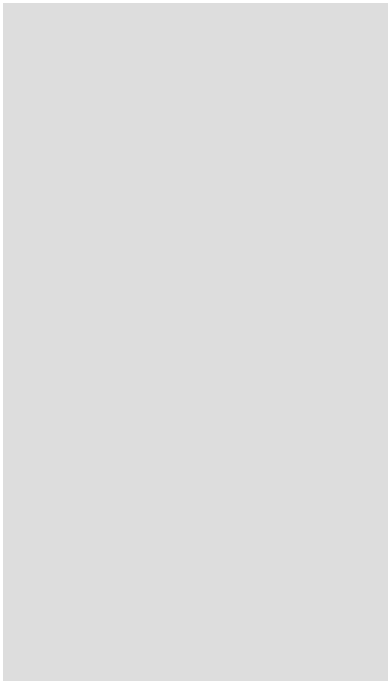
The Visa Office and Assignment Services have joined the User's Office to form International Services. The office has moved to the first floor of Wilson Hall on the west side. The contact information is as follows: Amanda Petersen, x4203; Barb Book x3111; Melissa Clayton Lang, x3933; and John Galvan, x3811. The mail stop is MS 103 and the fax is x3688.

LPC Jterm-II workshop Jan. 10-12

The LHC Physics Center at Fermilab will sponsor a workshop titled "Jterm - II" from Jan. 10-12. The workshop is named for the January term at LPC and is for graduate students and postdocs between semesters. The two-day workshop will include plenary talks and tutorials. Visit the workshop [Web site](#). For more information or to register. To register, click the evaluation button at the top of the Web site's agenda page.

Fermi Kyuki-Do Class begins Jan. 7

Want to start the New Year out right with practical exercise? Kyuki-Do is a practical method of self defense that will teach you three important things: balance, power and



grace. Classes are held for six weeks on Monday and Wednesday from 5-6 p.m. at the Recreation Facility in the Village. You need to register through the Recreation Office and also be a member of the Recreation Facility.

English country dancing Sunday

English country dancing will meet Sunday, Jan. 6, in Kuhn Barn. Dancing starts at 2 p.m. and there will be a potluck following. Dances will continue on the first Sunday afternoon of the month through the winter and spring. For more information please contact folkdance@fnal.gov or call (630) 584-0825 or (630) 840-8194.

Classifieds

New [classified ads](#) have been posted on *Fermilab Today*.

[Additional Activities](#)