

Calendar

Tuesday, October 18

12:00 p.m. Screening of the Nova Program "Race for the Top" - 1 West

2:30 p.m. Theoretical Physics Seminar (NOTE DATE) - 1 West

Speaker: S. Dutta, Delhi University
Title: Anomalous Gauge-Boson and Higgs-Boson Couplings

3:30 p.m. Director's Coffee Break - 2nd Flr X-Over

Note: There will be no Accelerator Physics and Technology Seminar today

Wednesday, October 19

11:00 p.m. ILC R&D Meeting - 1 West

Speaker: D. Denisov, Fermilab
Title: Summary of the CALICE Collaboration Meeting

12:00 p.m. Screening of the Nova Program "Race for the Top" - 1 West

3:30 p.m. Director's Coffee Break - 2nd Flr X-Over

4:00 p.m. Fermilab Colloquium - 1 West

Speaker: D. Gross, Kavli Institute for Theoretical Physics
Title: The Future of Physics

Weather



Mostly Sunny 73°/49°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Fermilab Event to Award Scouts With Buffalo Badges



Local girl scouts will have the chance to add a buffalo badge to their uniforms next month. On Saturday, November 12, scouts will participate in scientific and nature-oriented activities at Fermilab during the Fermilab Badge Workshop. Those who complete the project requirements will receive a blue Fermilab uniform patch with a stitched image of a buffalo and Wilson Hall.

Throughout the day, Brownies, Juniors and Cadettes and Seniors from area troops will help harvest prairie seeds, interact with Fermilab scientists and engineers, take a tour of the on-site cemetery and learn the history of the village that once stood on the lab's grounds. They'll also test their map-reading skills by navigating from activity to activity. Anne Lucietto, of FESS-Ops/Engineering, is organizing the event and bringing her own troops of Brownies and Cadettes along. "They do the service project, but they also learn a little bit along the way," she said.

Lucietto usually coordinates a math and science workshop for local scouts but

Director's Corner

Who's In Charge Here?



Pier Oddone reflects on the zebra mussels (Click on image for larger version.)

My plan was to determine the shutdown date by carefully weighing the needs of DZero to upgrade the detector as soon as possible against the time needed to make improvements in the accelerator complex. That was before *Dreissena polymorpha* raised its ugly stripes.

Dumped from the fresh water ballast of a ship into Lake St. Clair in 1985 or 1986, *Dreissena polymorpha*, or zebra mussel, has invaded the fresh water lakes and rivers of this area. It reaches densities of 50,000 mussels per square meter in some areas, creating an ecological problem. Because the zebra mussels attach to hard surfaces at moderate depth, they invade water cooling systems, clogging intakes, heat exchangers and distribution pipes.

Zebra mussels were first found at Fermilab in the fall of 2004. Significant mussel infestation can be seen in Casey's pond, which serves as the main water intake for over 20 miles of cooling water (ICW) pipes. We need to deal with this problem during a shutdown because after

Tuesday, October 18

- Golden Broccoli & Cheese
- Hickory Smoked BBQ Pork
- Breaded Veal w/Mushroom Cream Sauce
- Spaghetti w/Meatballs
- Toasted Almond Chicken Salad on Croissant
- Supreme Baked Pizza
- Chicken Tostadas

The Wilson Hall Cafe accepts Visa, Master Card, Discover and American Express at Cash Register #1.

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, October 19

Lunch

- Stuffed Autumn Vegetables
- Cucumber Salad
- Black Forest Cake

Thursday, October 20

Dinner

- Tortilla Soup
- Grilled Spiced Lamb with Red Pepper Sauce
- Saffron Vegetables
- Profiteroles

[Chez Leon Menu](#)

Call x4512 to make your reservation.

Search

Search the Fermilab Today Archive

Info

created the Fermilab project last year to draw attention to the lab. "The site had been closed prior to then, so a lot of people wanted to know what was going on here," she said. "I thought, what better way to do it than through the girls and their parents and their leaders?" About 200 girl scouts showed up to last year's event and attendance is expected to at least double this year.

Volunteers still are needed to help with cemetery and village history projects, the prairie harvest, Ask A Scientist/Engineer-type activities and other events. To sign up, contact Anne at lucietto@fnal.gov.

—Kendra Snyder

New Electricity Training Sessions at Fermilab

ES&H has just begun new training sessions for all Fermilab employees who work with equipment that uses electricity. The new all-day sessions started this Monday and will run through December. Six sessions are already on the schedule for November with additional sessions in December if the need arises.

The new program meets OSHA standards, but also meets the requirements of the National Fire Protection Agency, which go a little farther. The sessions are more interactive, including an open-book, written test at the end. "We found that people get confused about how to use the new NFPA 70E Standard," explained Rafael Coll, who helped the ES&H electrical safety subcommittee launch the new program. "This way we can get the student to open the book and see where things are located."

(EPA-approved) chemical treatment, zebra mussel debris could clog our water-cooling systems.

To be effective, the treatment needs to be done when the water temperature is sufficiently warm and the mussels are biologically active. Zebra mussels are dormant below 55 degrees Fahrenheit. Industrial experience suggests a much higher treatment success at 65 degrees than at 55 degrees. Since at least four to five weeks are needed after the treatment for the de clogging and clean-up, the start of the fourteen-week shutdown is dictated by the zebra mussel to be around March 1 to allow a reasonable chance to have the water temperature warm enough at the end of the shutdown for an effective treatment.

Ten days ago I did not even know that zebra mussels existed.

Accelerator Update

October 14 - 17

- During this 72 hour period, 4 stores provided 57 hours and 19 minutes of luminosity.
- Meson LCW Leak
- TeV C1 Pump Fails
- Vacuum Failure Aborts Store
- Pelletron Off
- NuMI has Bad Chiller Compressor

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

Fermilab Today is online at:

<http://www.fnal.gov/today/>

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today@fnal.gov

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The workshop will emphasize the danger of working on equipment that is energized. Live equipment can produce electric shock or create an arc flash, which is a surge of untamed electricity reaching temperatures two times as hot as the sun. This is where most injuries occur, Coll said, and they can be easily prevented with a little extra precaution.

"Never work on live equipment," he said.

"And if, as in very rare cases, you absolutely have to, always wear rubber gloves and know how to isolate yourself."

But according to Coll, most Fermilab workers are knowledgeable about electricity, and many problems are a result of complacency, not inexperience. "As your skills increase, you get too comfortable," he said. "You begin to put productivity over caution." Compared to the small amount of time saved in skipping a few steps, the time and money lost on a single accident can be staggering. "If we remember to take care of quality and safety," he said, "productivity will take care of itself."

—Siri Steiner

In the News

From *The National Academies News*: October 12, 2005

Broad Federal Effort Urgently Needed to Create New, High-Quality Jobs for All Americans in the 21st Century

WASHINGTON -- The unmatched vitality of the United States' economy and science and technology enterprise has made this country a world leader for decades, allowing Americans to benefit from a high standard of living and national security. But in a world where advanced knowledge is widespread and low-cost

Emergency Warden Training

Attention all Wilson Hall emergency wardens and new appointees: training is available on Wednesday, October 19 and Wednesday, October 26 from 9 a.m. - 10:30 a.m. in 1-West. No need for an early sign-up, just arrive on time and sign in.

Winter Leagues are Forming

- Winter Coed Volleyball League Play begins November 7 on Monday and Friday evenings. A captain's meeting will be held at Noon in the Cafeteria on October 31. Interested persons and teams should contact the league representative, Elizabeth Gallas at gallas@fnal.gov.

- Soccer League play is on Wednesday and Fridays. Contact representative is Sandor Feher, fehers@fnal.gov.

- Doubles Tennis League play is on Sunday evening. Contact representative is Don Flynn, flynn@fnal.gov.

- Singles Tennis League play is on various days at various times. Contact representative is John Yoh, johnny@fnal.gov.

- Basketball League play is on Thursday evenings. Contact representative is Brian Niesman, niesman@fnal.gov.

All winter league participants must be current Recreation Facility members.

Yoga Classes Start October 25

Classes are held on Tuesdays from 12:00 p.m. to 1:00 p.m. in the Auditorium at Wilson Hall. [More Information](#)

Upcoming Classes

labor is readily available, U.S. advantages in the marketplace and in science and technology have begun to erode. A comprehensive and coordinated federal effort is urgently needed to bolster U.S. competitiveness and pre-eminence in these areas so that the nation will consistently gain from the opportunities offered by rapid globalization, says a new report from the National Academies.

[Read More](#)

October 26: Interpersonal Communication Skills

October 24-27: C++ for Embedded Programmers

[More Information](#)

Scottish Country Dancing

Today, October 18, at Kuhn Barn on the Fermilab site. Instruction begins at 7:30 p.m. and newcomers are always welcome. Most dances are fully taught and walked through, and you do not need to come with a partner. Info at 630-840-8194 or 630-584-0825 or

folkdance@fnal.gov.

[Upcoming Activities](#)