

Calendar

Wed., February 21

11:00 a.m. Fermilab ILC R&D Meeting - 1 West
 Speaker: S. Mishra, Fermilab
 Title: GDE Happenings from Beijing, Road to an Engineering Design Report (EDR)

3:30 p.m. DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

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

Speaker: D. Schurig, Duke University
 Title: The Transformation Design Method and Metamaterials: Tools to Realize Invisibility and Other Interesting Effects

Thurs., February 22

10:00 a.m. Research Techniques Seminar - Curia II
 Speaker: A. Curioni, Yale University

Title: Experimental Study of Neutrino Interactions on Ar with a Liquid Ar Time Projection Chamber

11:00 a.m. Academic Lecture Series - 1 West

Speaker: A. Kronfeld, Fermilab
 Title: Course 5, Part 1: Lattice QCD with Applications to B Physics

1:00 p.m. ALCPG ILC Physics and Detector Seminar - Hornets Nest (WH8XO)

1:30 p.m. Particle Astrophysics Seminar - Curia II
 Speaker: D. Croton, University of California, Berkeley
 Title: How to Model the Universe in N Easy Steps ($N \gg 1$)

2:30 p.m. Theoretical Physics Seminar - Curia II
 Speaker: R. Hill, Fermilab
 Title: Topological Interactions of Higgs Bosons

3:30 p.m. DIRECTOR'S COFFEE BREAK - 2nd Flr X-

Feature

Invasive beetle prompts Kane County quarantine



Jan Watson from the Morton Arboretum helped set up a trap tree on Fermilab grounds in 2005.

The Emerald Ash borer, a half-inch long, metallic green beetle, was first detected in Michigan in 2002, and has since caused the death of more than 20 million ash trees. Hailing originally from Asia, the beetles have no natural enemies in the United States, and their presence has forced strict regulations on transporting wood in five Midwest states, including Illinois. In January, hoping to contain a possible spread of the beetle, Kane County announced a quarantine prohibiting removal of whole firewood from the county.

The pest gets its name from its behavior during the larval stage, when hatchlings from eggs laid in the bark burrow into a host tree. "They bore under the bark and into the plant's vascular tissue, which is like our veins," said Fermilab ecologist Rod Walton. The destruction of the vascular tissue prevents water and nutrients from reaching the tree's branches. The larvae overwinter in the bark and pupate in spring. A large borer infestation can kill an ash tree in as little as 2 years.

Despite the telltale D-shaped holes they leave in a tree's bark when the adult beetle emerges, detection is difficult, since infestations usually begin in the upper canopy of the tree. In 2005, Fermilab collaborated with the Morton Arboretum to set up four "trap trees" on site to help determine if the borer

From Facilities and Engineering Services

Good, and getting better

This week's column is written by Randy Ortgiesen, head of FESS.

One way to measure how well we are doing in facility management is to look at what is happening with the Tevatron. When there are power outages that bring down the accelerator, or problems with the water cooling system that are not resolved quickly, the Tevatron loses valuable time that should be spent making particle collisions.



Randy Ortgiesen

The lab's recent record-breaking integrated luminosity indicates that facility management across the laboratory is working well. But are we working under the most cost-effective, safe, and productive processes and procedures? Based on my first six months as section head, I think so. But there is always room for improvement.

One major improvement effort began in January, at the request of FESS mechanics and electricians in bargaining unit Local 701. They formed a committee, with membership from lab management and FESS craft workers, to review HVAC work and safety and to offer joint recommendations to improve facility management in this area. A second major effort involves the lab's designated subcontractor under the new DOE and FRA contract, EG&G. EG&G has already completed a preliminary review of facility management at Fermilab, and more specifically in the area of Reliability Centered Maintenance. (If you don't know what that is, you can read about it [here](#).) We will be deciding how additional work in this area may improve our effectiveness in facility management across the laboratory...so stay tuned.

Photo of the Day

Over

4:00 p.m. Accelerator Physics and Technology Seminar - 1 West

Speaker: C. Antoine, Saclay
Title: Superconducting RF Cavities and Materials Issues

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

Weather



Patchy Fog 45°/29°

Extended Forecast

Weather at Fermilab

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Wednesday, February 21

- Portabello Harvest Grain
- Santa Fe Chicken Quesadilla
- Teriyaki Chicken w/ Vegetables
- Beef Stroganoff
- Assorted Slice Pizza
- CPesto Shrimp Linguini w/ Leeks & Tomatoes

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, February 21

Lunch

- Spinach Strudel
- Confetti Salad
- Orange & Olive Oil Cake

Thursday, February 22

"Carnival" Celebration - (book now at x4598)

- Sancocho
- Roast Suckling Pig
- Moro y Cristanos
- Chayote Guisado
- Pineapple Flan & Tropical Fruit

[Chez Leon Menu](#)

Call x4598 to make your reservation.

Archives

had invaded Fermilab, said Bob Lootens of Roads and Grounds. Researchers from the arboretum removed bark in a ring around the trees and covered the bark above it with a sticky grey gel, which traps any insects on the tree. "If you peel back the bark and the borers smell the exposed sap, they might go to it," said Lootens, a current member and former chairman of Fermilab's Ecological Land Management committee.

Although the trap trees didn't turn up any emerald ash borers on Fermilab grounds, the ELM team plans to set up another trap tree in the near future and continues to take precautions against the beetle. Since a portion of Fermilab lies in Kane County, Roads and Grounds employees take extra precautions when transporting wood to the rest of the site, which lies in DuPage County. "We take them to burn piles or chip them as we cut," said Lootens. "We're keeping our ear to the ground."

--Christine Buckley

In the News

The Daily Herald, February 19, 2007

Working on possibly the longest 'Star Wars' movie of all time



Max Monning, left, of St. Charles, and Jim Kirkhoff, of Batavia, rehearse their lines for "Star Wars: Forgotten Realm." The movie was written and is being directed by Darren Crawford, a Fermilab employee. (Whitney Curtis/Daily Herald)

George Lucas might be done making "Star Wars" movies, but his fans aren't.

And possibly one of the longest and most extensive independent fan films is taking shape in Kane County.

Blood drive results



This year's blood drive at Fermilab drew 99 pints of blood. According to Heartland Blood Centers' website, someone needs blood every three seconds.

Announcements

Volunteer to teach Girl Scouts about other countries

A local Girl Scout Council is starting a program designed to teach scouts about what it's like to live outside the U.S. They are looking for volunteers to talk to the girls about what it was like to live in, or grow up in, another country. If you are available from 12-2 p.m. on March 3, and would like to help out, please contact Anne at Lucietto@fnal.gov.

DreamWeaver MX 2004: Advanced Class March 26 & 27, 9:00 a.m. – 4:30 p.m.

Learn how to manage Web sites with DreamWeaver's Site Manager Tool. Use linked styles to include Cascading Style Sheets (CSS), and design and manage templates to maintain a consistent look and feel. Create objects to add buttons or interactive behavior. Become familiar with behaviors to create behind-the-scenes JavaScript. Develop server-side "includes" to create a section of code and easily apply it automatically to any page. Click [here](#) to enroll.

Turn leave sheets in early

Since February is a short month, Payroll would like to remind all monthly employees to turn in their Leave Sheets today, February 21, before 10 a.m.

Ballroom Dancing

The Recreation Office is planning a private group class for ballroom dancing at the DuPage Dance Center in Naperville. The price will be \$7-\$10 per class, depending on the

[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

Written and directed by Darren Crawford, "Star Wars: Forgotten Realm" could be coming to public access television and the Internet by 2009.

The Yorkville man and his crew have been shooting scenes at a Waubensee Community College studio since early 2006.

Crawford, an operations crew chief at Batavia's Fermilab, hopes to wrap up filming of live actors this year and spend next year creating digital environments and backgrounds for his characters.

[Read More](#)

[Read the *Fermilab Today* story](#)

class size. If you are interested in participating, please contact Jean Guyer, X2548, or Kathy Phelan, X5427. Let them know how many people you would like to register and what day(s) of the week would work out best for you. Deadline to contact the Recreation Office is Friday, February 23.

Special Carnival celebration at Chez Leon

There is still sitting room for the "Carnival" meal at Chez Leon on February 22 (see left-column menu). Call x4598 for a reservation.

Upcoming brown bag seminar

Please mark your calendars for Friday, March 2. Sheron Brown, M.D. will present a brown bag seminar titled "Eat..Sleep...Breathe... & Move" (re-scheduled from an earlier date). The seminar will be held in One West from noon to 1:00 p.m.

[Upcoming Activities](#)