

Calendar

Monday, November 21

2:30 p.m. Particle Astrophysics Seminar
- Curia II

Speaker: A. Hime, Los Alamos National
Laboratory

Title: DEAP and CLEAN Detectors For
Low-Energy Particle Astrophysics

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

4:00 p.m. All Experimenters' Meeting -
Curia II

Special Topic: December Accelerator
Studies

Tuesday, November 22

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

There will be no Accelerator Physics and
Technology Seminar today.

Weather



Breezy **44°/28°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Paper of Summer Intern Picked for AAAS Meeting



Kristen Maier measures grass height in the Fermilab prairie as part of her study on preferred habitats of Henslow's Sparrows and Grasshopper Sparrows. (Click image for larger version.)

A scientific paper written by Kristen Maier, a Pre-Service Teacher intern at Fermilab this summer, is one of 16 selected for presentation by PST interns at the AAAS meeting in February. Maier studied the preferred habitats for Henslow's Sparrows and Grasshopper Sparrows during her 10-week PST internship, a DOE-funded program that helps future teachers increase their understanding of science by working at a national laboratory. "I was pretty nervous coming to Fermilab because I took Biology 101 and Chemistry 101, but I was worried that I didn't have enough of a scientific background to be successful," Maier said. "It turned out to be one of the best experiences I've had, just working through the scientific process."

Maier currently is teaching third grade in the Chicago Public Schools system and plans to earn a science teaching certificate. During the five years Fermilab has hosted PST students, Maier is the

Safety Tip of the Week

Want to Quit Smoking? Medical Office Can Help



We all know that smoking is a big health risk--a factor in nearly twenty percent of deaths. Cigarettes alone kill more Americans than alcohol, car accidents, suicide, AIDS, homicide, and illegal drugs combined. Even so, twenty-one percent of adults, twenty-two percent of high school students and eight percent of middle school students smoke.

The staff of Fermilab's Medical Department recently shared their experiences in working with people to quit smoking. They report that most smokers want to stop, but often are reluctant to try since their previous attempts have failed. However, many are able to change when presented with a very good reason. This often takes the form of a newly-identified health problem or a family-related concern such as exposing youngsters to second-hand smoke or the desire to "be around" as they grow up. In Dr. John Foxen's experience, "waking up in the intensive care unit following a first heart attack is a very powerful experience for some people, one we try hard to avoid."

Monday, November 21

- Wisconsin Cheese
- Corned Beef Reuben
- Stuffed Chicken Breast
- Shepherd's Pie
- Turkey Craisins Wrap
- Meat Lover's Pizza
- Pacific Rim Rice Bowl

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

[Wilson Hall Cafe Menu](#)

Chez Leon**Wednesday, November 23****Lunch**

- Cheese Fondue
- Salad of Marinated Vegetables
- Poached Pears with Red Wine

Thursday, November 24**Dinner**

Closed

[Chez Leon Menu](#)

Call x4512 to make your reservation.

Search**Search the Fermilab Today Archive****Info**

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

Send comments and suggestions to today@fnal.gov

[Fermilab Today archive](#)

[Hurricane Relief Page](#)

[Fermilab Today PDF Version](#)

[Fermilab Result of the Week archive](#)

first to have a paper selected for a poster presentation at the AAAS meeting. Her paper also will be reviewed for possible publication in the Journal of Undergraduate Research. "Kristen was able to pick up a lot about how science is done," said Spencer Pasero, who manages the internship for the Education Office. "This program teaches an appreciation for science that isn't in the textbooks."

With the help of Fermilab ecologist Rod Walton and bird expert Peter Kasper, Maier identified the sparrows on site, measured habitat and control site characteristics, completed a statistical analysis, wrote up the results and prepared a lesson plan. The project will be repeated with one of next year's PST interns to accumulate data, Walton said. Fermilab scientists changed the program this summer by providing instruction on statistics and methodology and meeting with the interns more often. "It's really nice to see it pay off," Kasper said.

—Kendra Snyder

Correction

In Friday's issue of *Fermilab Today*, Marci Rae McDade, the curator of "Perfect," was misquoted. She actually said: "The minuteness, the vastness, the complexity of our world can often be overwhelming but these aspects can also be intensely inspirational. The mediative, repetitive and obsessive qualities of each piece led me to believe the Fermilab community might find a unique appreciation for this work." We sincerely apologize for the misquote.

In the News

Nurse Karen Swanson pointed out that people should view previous failures as learning experiences. What should I do differently the next time? Dr. Foxen sometimes uses a technique in which people are able to smoke less as they learn to enjoy each smoking experience more. Nurse Mae Strobel added that the Medical Department is available to help Fermilab employees kick the smoking habit. If appropriate, they can even help set up an individualized smoking cessation plan.

[Safety Tip of the Week Archive](#)**Accelerator Update****November 16 - 18**

- One store provided one hour and seven minutes of luminosity.
- Accelerator safety system checks completed.
- Linac RF stations repaired.
- TeV vacuum and power supply problems.
- Feeder 37 fault
- Store delayed due to Recycler RF structure problem.

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

[Fermilab Safety Tip of the Week archive](#)

[Linear Collider News archive](#)

[Fermilab Today classifieds](#)

[Subscribe/Unsubscribe to Fermilab Today](#)

Argonne/DOE Press Release, November 18, 2005:

Argonne researchers discover keys to improving commercial magnet technology

ARGONNE, Ill (November 18, 2005) – Permanent magnets are important in a broad variety of commercial technologies, from car starters to alternators for wind power generation to computer hard drives. Researchers at the U.S. Department of Energy's Argonne National Laboratory have found new clues into ways to make those magnets longer-lasting and more powerful.

Using the Western Hemisphere's most powerful X-rays at the Advanced Photon Source at Argonne, the researchers were able to see new details of rare-earth ions, a critical component of permanent magnets. The examination of the ions, probing their magnetism with unprecedented resolution, revealed that the presence of rare-earth ions in more than one atomic environment reduces the magnetic stability of the best-performing permanent magnets to date. This knowledge will enable manufacturers to manipulate the rare-earth ion atomic structure for optimization of future magnets.

[Read More](#)

Holiday Book Fair

Your one-stop shopping for the Holidays: The Fermilab Recreation will sponsor its annual Holiday Book Fair, hosted by Books are Fun, in the Atrium on Tuesday, November 29 from 10:00 a.m. until 6:00 p.m. and on Wednesday, November 30 from 7:00 a.m. until 3:00 p.m. The Book Fair accepts cash, check, MasterCard, Visa, American Express, and Discover card. Be sure to tell your spouse and mark your calendars now. A portion of the proceeds from the Book Fair subsidizes some of our Recreation Programs.

Film Development

For film, disposable cameras and digital prints, Fermilab Recreation offers the convenience of film developing through the Sundance Photo Developing Company. Many types of photo finishing services are available. Film developing, disposable camera developing, enlargements, posters, black & white, slides, and digital is available at competitive pricing. Digital order forms are now available. Any questions, please contact the Recreation Office, x5427 or x2548. For more information go to [the Web](#).

Movie tickets

AMC movie tickets make great stocking stuffers. Tickets are only \$5.75. Save up to \$3.75 per ticket. Tickets do not expire until March 2007. Tickets are not valid for shows stipulating no passes. Purchase up to 10 tickets at a time. Cash, check, Visa or MasterCard is accepted.

[Upcoming Activities](#)

