

Calendar

Monday, August 29

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

4:00 p.m. All Experimenters' Meeting -
Curia II
Special Topic: New Optics for the
Tevatron

Note: Particle Astrophysics Seminars will
resume in the Fall

Tuesday, August 30

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

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

Weather



Partly Cloudy 85°/60°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Monday, August 29

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

The Wilson Hall Cafe now accepts Visa,
Master Card, Discover and American

On the Job With: The Particle Physics Division's Design and Drafting Group



A 1969 cartoon from the Village Crier

(Click on image for larger version.)

In 1969, the Village Crier published a cartoon (above) representing different views of drafters, from the original Design and Drafting Departments. The newspaper was Fermilab's original news source, and the cartoon was an amusing way to thank the designers and drafters who worked at the lab. Many things have changed for this department over the years, but the hard work of the design and drafting teams here at Fermilab remains the same.

The first recorded drawing done at the lab was in 1967 at the Oak Brook office. It is currently estimated that the PPD/Mechanical Department alone has 100,000 drawings located on files. Originally, drafters used drawing boards, pencils and erasers to complete all of their designs by hand. "If you were good, you were an artist," said PPD Design and Drafting Supervisor Chuck Grozis. "Now, due to computers and increasing technology, the work of the group has changed dramatically." In many ways, the responsibilities of the group have

Safety Tip of the Week

West Nile Virus



A mosquito trap, like several located around the Fermilab site.

Even though this has been an extremely dry summer, and mosquito numbers have been down, the threat of West Nile Virus is still with us. The picture above shows a mosquito trap, like several located around the Fermilab site, that captures mosquitoes for testing. Recently, we recorded the first instance of a mosquito testing positive for the virus at Fermilab.

So far in 2005, there have been 28 cases of human West Nile Virus infection in Illinois. Most of the cases have been in Chicago, but DuPage County has recorded one, and Kane County two so far. Last year in Illinois, there were 60 human cases of West Nile disease resulting in four deaths. In 2003, 54 human cases led to one death. Illinois reported the most human cases in the nation at 884 in 2002 when 67 people died from the disease.

Animals can become infected as well. So far this year, the state has recorded positive tests for 139 birds, 1,125 mosquito samples, one horse, and one llama, from 33 of the state's 102 counties.

Express at Cash Register #1.

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, August 31

Lunch

Grilled Duck Salad with Green Beans

Pear Almond Strudel

Thursday, September 1

Dinner

Caponata

Grilled Scampi

Orzo with Arugual and Parmesan

Cassata

[Chez Leon Menu](#)

Call x4512 to make your reservation.

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diversified, and now include a broader range of tasks. "There are so many projects that we get involved in now," added Grozis. "Division lines were more concretely drawn in earlier years, now there is a much greater crossover between groups and more collaboration."

This collaboration is essential for many projects, including a current plan to remove the Chicago Cyclotron magnet from its home in the New Muon Building. "Just to move it is a massive effort," said Grozis. "It requires drawings, fixtures, and all of that is designed by our group." He also travels to Minnesota to work on the Cryogenic Dark Matter Search (CDMS) project and visits vendors to oversee complex fabrications for the department. "We have a lot of very talented and experienced drafters and designers," Grozis said. "With a group average of working for 24 years in the department, the overall experience in this group is quite dramatic."

—*Amelia Greene*



Members of the Particle Physics Division's Design and Drafting Group

(Click on image for larger version.)

Persons older than 50 are at most risk for the disease and are advised to take precautions to avoid mosquito bites. The disease is spread by the bite of infected mosquitoes which pick it up by feeding on infected birds, it is believed.

The best way to protect ourselves against West Nile Virus is to prevent the mosquitoes by:

- Eliminating all sources of standing water that could breed mosquitoes, such as water in empty cans, tops of 55 gallon drums, old tires or any other receptacles.
- Avoiding the outdoors when mosquitoes are active, especially between dusk and dawn.
- Wearing shoes and socks and long pants and a long-sleeved shirt, and applying insect repellent that includes DEET according to label instructions.
- Confirming your building's integrity. Repair or replace screens or other routes for mosquitoes to get inside.

[Safety Tip of the Week Archive](#)

Accelerator Update

August 24 - August 26

- During the 48 hour period operations established one store that combined with an existing store provided the experiments with 42 hours and 22 minutes of luminosity
- Electron cooling down for Pelletron repairs
- NuMI HV101 troubles due to LCW leak

[Read the Current Accelerator Update](#)

With School Open Again, Drive With Special Care

School has re-opened in Warrenville and in the surrounding communities, with yellow lights flashing



to remind drivers of the 20 mph speed limit in school zones—and to remind drivers of the presence of children. So be a good neighbor, and remember to observe the 20 mph speed limit. And please exercise extra caution when entering or leaving the Fermilab site from the east side, by way of Batavia Road. The penalty for violating the speed limit in a school zone consists of a \$75 bond and a fine beginning at \$150, increasing in proportion to the speed over the limit. As in any and every activity at Fermilab, safety is the top priority.

In the News

From *Physorg.com*, August 23, 2005

Fermilab's Recycler beams take electron cooling to new heights

After 10 years of preparation, a team at Fermilab has achieved electron cooling at high energy. On 9 July, on the first attempt, the Electron Cooling Group observed the interaction between an 8 GeV antiproton beam and an electron beam traveling at the same speed. Although commissioning will take another couple of months, accelerator experts have already begun to use the electron-cooling system to reduce the size of antiproton beams prior to their injection into the Tevatron proton-antiproton collider. Ultimately, they hope that electron cooling will increase the collider's

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

Open Enrollment for the Life Insurance Plan

The open enrollment period ends on Monday, September 12, 2005. The open enrollment form must be in by 5:00 P.M. on September 12, 2005. You can [access further information](#) on the web.

Power Outage

The power will be cut to Labs A, B, C, D, E, and F from 8:30 AM - 4:30 PM on Saturday, September 3, 2005.

Fermilab Health Fair

The Fermilab Health Fair, complete with demonstrations, screenings, and health information, will take place on Thursday, September 8 from 11:00 p.m. until 2:00 p.m.

Upcoming classes:

September 12 & 13: Word Intro & PowerPoint Intro
September 27: Excel Intermediate
September 28: Word Intermediate
October 11: Excel Advanced
October 12: Word Advanced
October 11 & 26: Interpersonal Communication Skills

[More Information](#)

[Upcoming Activities](#)

luminosity by 50-100%.

[Read More](#)

**From *FYI: Science Policy News*, August 26, 2005
Physics Enrollments and Degrees Growing**

A survey of the class of 2003 in physics departments around the country shows continued large increases in the number of undergraduate physics degrees produced, a "remarkably rapid rise" in the number of U.S. students starting physics graduate school, and, for the first time in almost a decade, an increase in the number of physics PhDs awarded. Information from this survey, conducted by the American Institute of Physics's Statistical Research Center, has been compiled in the "Enrollments and Degrees Report, 2003."

[Read More](#)