

Calendar

Monday, July 17

2:00 p.m. Research Techniques Seminar

- Curia II

Speaker: M. Trimpl, University of Bonn

Title: DepFET Pixels for ILC Vertex

Detectors

PARTICLE ASTROPHYSICS

SEMINARS WILL RESUME IN THE

FALL

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

floor crossover

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

Curia II

Tuesday, July 18

12:00 p.m. Summer Lecture Series -

Curia II

Speaker: B. Flaugher, Fermilab

Title: Dark Energy

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-over

4:00 p.m. Accelerator Physics and

Technology Seminar - Curia II (note location)

Speaker: R. Pasquinelli, Fermilab

Title: Radio Frequency (RF) Systems for the ILC

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

Weather



Chance of T-storms **95°/69°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

Water system at the heart of keeping Fermilab cool



Greg Gilbert monitors Fermilab's 255-million-gallon water system from the Central Utility Building control room. (Click image for larger version.)

As Greg Gilbert pulls off the Main Ring Road and into a gravel lot, a cloud of dust lifts around his white pickup truck. The Fermilab maintenance superintendent steps out and finagles one of countless keys into a heavy steel door, opening a service building to reveal a massive blue cylinder humming loudly. "This is a shell-and-tube heat exchanger," he says. The device is a part of Fermilab's extensive water cooling system that includes a series of ponds containing 255 million gallons of water--a system crucial to the lab's operation.

In the exchanger, like other water cooling devices across the site, pond water and purified water work together. Purified water travels from hot electrical loads and meets cooler pond water indirectly, drawing heat away from accelerator devices to keep them operating safely. Gilbert says the purified water is filtered of ions to make it less likely to carry electrical current around high-voltage equipment.

Safety Tip of the Week

Poison ivy



Stay away from poison ivy, which grows along the edge of wooded areas at Fermilab. It may also appear as a fuzzy vine along a tree trunk and has leaves that change color in the fall.

The component in poison ivy that causes an allergic reaction is an oil called urushiol. It's present in all parts of the plant and can maintain its toxic properties for more than a year. It's best to avoid all contact, even if you have never had a reaction. If you've been exposed to poison ivy, stay outdoors until you complete the first two steps below. (1) Clean exposed skin with generous amounts of isopropyl (rubbing) alcohol. (2) Wash skin with water. (3) Take a regular shower with soap and warm water. (4) Clothes, shoes, tools, and anything else that may have been in contact with the urushiol should be wiped off with alcohol and water. Wear gloves while doing this last step and discard them when done.

Itching symptoms may be controlled with hot compresses, calamine lotion or antihistamine creams. The urushiol does not spread after a day or so, so

[Secon Level 3](#)**Wilson Hall Cafe****Monday, July 17**

- French Quarter Gumbo
- French Dip with Horseradish Cream Sauce
- Santa Fe Pork Stew
- BBQ Roasted Quartered Chicken
- Turkey Breast on Homemade Focaccia
- Assorted Slice Pizza
- Sweet n' Sour Chicken w/Egg Roll

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

[Wilson Hall Cafe Menu](#)

Chez Leon**Wednesday, July 19****Lunch**

- Marinated Flank Steak w/Mushrooms and Pea Pods
- Jasmine Rice
- Lemon Cheesecake

Thursday, July 20**Dinner**

- Layered Mozzarella and Tomato
- Grilled Swordfish w/Chipotle Butter
- Roasted Corn w/Potatoes and Bacon
- Banana Spring Rolls w/Caramel Rum Sauce

[Chez Leon Menu](#)

Call x4598 to make your reservation.

Search

Search the Fermilab Today Archive

Info

Because megawatts of electricity heat the lab's equipment, more than 100 gallons of water evaporate each minute from cooling towers at the Central Utility Building, the nexus of the water system. The CUB houses a maze of pipes connecting water to boilers, chillers, filters, pumps and exchangers to keep Fermilab running smoothly.

In charge of overseeing the extensive system, Gilbert spends most of his day at the desk when he's not outside checking for problems. "That's my job. I take care of things here so the FESS supervisors can be out in the field," he says. Whether he's managing maintenance shops, giving safety meetings, answering complaints or handling major problems such as floods or droughts at any time of the day or night, Gilbert says the job is natural for him. "I'm just oriented that way," he says. "I like working with people, making things happen and fixing things."

--Dave Mosher

A peek inside One West: Get ready for 'new carpet smell'



scratching the blisters does not necessarily make the rash worse. However, scratching can lead to a nasty skin infection. For some people, the allergic response can be severe, with swelling and difficulty breathing. If this happens onsite, dial x3131 to initiate an emergency response. An injection of steroids may be necessary to reduce swelling and control other symptoms.

[Safety Tip of the Week Archive](#)

Accelerator Update**July 12 - 14**

- Three stores provided 25 hours and 3 minutes of luminosity
- NuMI repairs progressing
- Booster quadrupole problems
- Two stores aborted due to B4 vacuum trouble
- TeV A1 heat exchanger plugged
- Machine Reports

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements**Air Pollution Action Day, June 17**

Today, Monday, July 17, the air quality is forecasted to reach unhealthy levels. Residents of the Metropolitan Chicago area are asked to take actions to reduce ozone and particle pollution. Suggested actions include:

- Limit driving. Rideshare, carpool, walk or bike.
- Take public transportation.
- If you must drive, avoid excessive idling, abrupt starts and use I-PASS.
- Refuel your vehicle after 7 P.M., when sunlight is not as strong.
- Do not use gasoline powered recreational vehicles on Action Days.

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

Send comments and suggestions to today@fnal.gov

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

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Tired of having to "Note new location" for meetings that used to be in One West? Don't worry, it should all be over soon. Since the conference room closed last month, workers have been busy ripping out old carpet, removing old seating fixtures and installing new overhead gadgets. "The remodeling of One West conference room continues on track to be completed this month," said FESS's Elaine McClusky. "Carpet is almost complete, and chair installation begins this week."

In the News

BBC News, July 13, 2006: 'Super-scope' will unlock secrets

The biggest science facility to be built in the UK for 30 years has marked its first major milestone.

The Diamond machine has produced its first "synchrotron" light beam, which will allow experiments to get underway.

Diamond is described as a series of "super microscopes" that will probe the structure of matter down to the scale of atoms and molecules.

[Read More](#)

- Postpone lawn mowing and gardening chores that use gasoline-powered equipment on Action Days.
- Use a charcoal chimney or electric starter instead of lighter fluid when starting a barbeque grill.
- Limit use of household and personal products that cause fumes.
- Conserve energy at home to reduce energy needs from power plants.
- Do not burn leaves or other yard waste.
- Postpone burning wood in fireplaces on Action Days.

Why Work at Fermilab?

The Employment Department is conducting an employee survey to find out why you enjoy working at Fermilab. Some of your answers will be posted on the Employment website as another avenue to help attract candidates to the lab. Click [here](#) to start the survey. It should take you about 2-3 minutes to complete.

[Upcoming Activities](#)