

Calendar

Monday, Sept. 24
2:30 p.m.
[Particle Astrophysics Seminar](#) - Curia II
 Speaker: K. Sigurdson, University of British Columbia
 Title: Photon Scattering by Atoms (and Dark Matter?)
3:30 p.m.
 DIRECTOR'S COFFEE BREAK 2nd Flr X-Over
 THERE WILL BE NO ALL EXPERIMENTERS' MEETING THIS WEEK

Tuesday, Sept. 25
3:30 p.m.
 DIRECTOR'S COFFEE BREAK 2nd Flr X-Over
4 p.m.
[Accelerator Physics and Technology Seminar](#) - One West
 Speaker: S. Stokov, University of Hiroshima
 Title: Experiments on Deflection of Charged Particles in Japan for ILC and J-PARC

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

Weather

 **Chance of thunderstorms**
84°/62°

[Extended Forecast Weather at Fermilab](#)

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Monday, Sept. 24
 - Wisconsin cheese
 - Corned beef reuben
 - Chicken Oriental wrap pineapple
 - Stuffed chicken breast
 - Mostaccioli al forno
 - Assorted pizza slices
 - Pacific rim rice bowl
[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, Sept. 26
 - Cheese ravioli w/tomato basil cream
 - Italian chopped salad
 - Apple walnut turnovers

Thursday, Sept. 27
Dinner
 Closed

[Chez Leon Menu](#)
 Call x4598 to make your reservation.

Archives

- [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

Feature

DOE goes covert to check Fermilab computer security



Don't use unfamiliar CDs or memory sticks.

Imagine: A pleasant, but flustered gentleman says he's late for a lecture and needs to print a copy of his presentation. He asks you to print it for him and hands you a memory stick.

Do you print it?

You could save his day or you could end up shutting down the laboratory's computer system. The Department of Energy wants to you err on the side of safety. And they plan to test you.

In the coming months, a computer security team from DOE will use scenarios like this to test Fermilab's computer security and security awareness. The would-be hackers are called the Red Team.

"If you don't know someone, ask for identification. This is counter to our culture. We like to be welcoming and helpful, but it can backfire," said Mark Leininger, Fermilab's computer security manager. "What the red team wants to see you do is challenge them, to request identification that they cannot provide and deny them access."

According to Leininger, printing the document in the proposed scenario isn't necessarily wrong, as long as you know and trust the person, or he or she presents you with accurate credentials.

The Red Team will use two tactics to try to compromise Fermilab's computer system: electronic penetration and social engineering. Penetration testing attempts to gain unauthorized access to Fermilab computers. Social engineering uses deceptive practices to trick users into giving out personal information or other details that allow unauthorized access. The Red Team may follow others into a secure location by asking them to hold the door, or even walk around during the lunch hour in search of computers without screen locks activated to gain unauthorized access.

Once the test is completed and the information processed, the Red Team will give the laboratory a narrative report of their attempts, highlighting weak areas that the laboratory should strengthen. That gives the laboratory a way to improve its security before real security breaches occur.

"The really important thing is that everyone should practice good computing habits," Leininger said. "Computer security measures should be thought of the same way as safety - they should be included in the way we do our jobs every day."

What you can do to ensure security:

- Don't allow "tailgating" of an unknown person into locked areas, especially property protection areas.
- Don't give out personal information or passwords.
- Do not open or use unsolicited e-mail attachments, Web links, CDs, DVDs or memory sticks.
- Don't allow anyone you don't know and trust to access your computer.
- Ask for identification from anyone you don't know.
- Set your computer screen to "lock" if you are away from you desk or have the computer inactive for more than a few minutes.

-- Rhianna Wisniewski

Photo of the Day

A bird's eye view of Fermilab



Visual Media Services took this aerial photo of Fermilab on a helicopter flight over the laboratory on Sept. 13, 2007. Aerial photos are taken every few years.

In the News

Imaging quantum entanglement

From *Physorg.com*, Sept. 21, 2007

An international team including scientists from the London Centre for Nanotechnology (LCN) today publishes findings in the journal Proceedings of the National Academy of Sciences demonstrating the dramatic effects of quantum mechanics in a simple magnet. The importance of the work lies in establishing how a conventional tool of material science – neutron beams produced at particle accelerators and nuclear reactors – can be used to produce images of the ghostly entangled states of the quantum world.

At the nano scale, magnetism arises from atoms behaving like little magnets called 'spins.' In ferromagnets – the kind that stick to fridge doors – all of these atomic magnets point in the same direction. In antiferromagnets, the spins were thought to spontaneously align themselves opposite to the adjacent spins, leaving the material magnetically neutral overall.

[Read More](#)

Safety Tip of the Week

Avoiding "knuckle busters" and other hand injuries



What do you think will happen next? A worker demonstrates poor hand safety technique.

Think ahead. Could the worker pictured injure himself by pushing on the wrench? Is there a better way to do this?

In last week's [Safety Tip](#), we pointed out that Fermilab's rate of hand injuries has steadily increased during the past year. We identified specialized gloves and tools that prevent injury. This week we'll address proper material handling and reporting of hand injuries.

According to Mike Bonkalski, FESS senior security officer, much of hand safety boils down to maintaining an awareness of your surroundings. Workers should watch where they put their hands, especially when trying to find a place to grab an object to move it. When multiple people are involved in a single manual lift, hand injuries can occur if unsynchronized actions result in a load shift. Martha Heflin, PPD senior security officer, adds that workers need to think about where their hands will go if the tool they are using suddenly slips. One example of this is the "knuckle buster," a type of injury that mechanics can experience when they push a wrench toward an unforgiving surface.

Heflin also has observed that workers are sometimes reluctant to report minor hand injuries. Brian Svazas, Fermilab's site occupational medicine director, has seen some serious infections result from trivial skin breaks. Although the initial appearance and discomfort of a hand wound may be minor, small puncture wounds can damage tendons, nerves, or bone. If you have an injury, but are unsure whether it's worth a trip to the medical department, call the medical staff at x3232.

[Safety Tip of the Week Archive](#)

Accelerator Update

Sept. 14-21

- Recycler: Two vacuum leaks were found and fixed
- Tevatron: The magnet unrolls were completed
- Safety: The Linac enclosure interlock work was completed
- NuMI: The HV101-1 magnet was repaired
- CDF: East end plug closed
- Controls: There will be NO CONTROL SYSTEM from 7 a.m. Saturday (9/22) to Sunday evening (9/23)

[Read the Current Accelerator Update](#)
[Read the Early Bird Report](#)
[View the Tevatron Luminosity Charts](#)

Announcements

Have a safe day!

FNALU nodes will be stopped on Oct. 1
 On Oct. 1, 2007, direct e-mail delivery to FNALU nodes will cease. This change only affects delivery, not how or where mail is read. Unless directed otherwise, mail forwarding will be retargeted to the IMAP servers. Users are encouraged to move their existing mail folders to IMAP. Please read the [FAQ](#) for further details. Please contact the help desk at x2345 if you have additional questions.

Bike path sections closed today

Some sections of the bike path from Switchyard Service building to the new CDF office building are closed today for crack filling and seal coating and will reopen on Tuesday, Sept. 25th.

NALWO Autumn Luncheon today

NALWO's Annual Autumn Luncheon will be held today from 11:30 a.m. to 1 p.m. at Chez Leon in the User's Center. All laboratory women and friends are invited to attend. Come and meet each other, plan the coming season's activities and enjoy international dishes. Please bring a dish to share. For additional information, contact the Housing Office or Rose Moore at (630) 208-9309.

Kyuki-Do class begins on Oct. 1

Kyuki-Do combines the kicking of Taekwon-Do, the throwing and grappling techniques of Judo and Jujitsu, and the joint locks of Hapki-Do into one art. Classes are held on Monday and Wednesday from 5 to 6 p.m. at the Recreation Facility in the Village. Teacher Bruce Worthel will focus on a practical self-defense that can be used by women or men. You will learn kicks, blocks, hand techniques, throws, pins and self-defense. You will learn forms that teach you balance, power and grace. Register through the Recreation Office; classes cost \$45 per six-week session. You must be a member of the Recreation Facility to join.

Exciting Explorations fall program

Exciting Explorations will take place the following dates: Monday, Oct. 8 (Columbus Day); Monday, Nov. 19; and Tuesday, Nov. 20. Additional days may be added if there is enough interest. The cost is \$35 per day per child. Two snacks and beverages are included; lunch is not provided. Please call Patti or Mary Simmons at x3762 to register your child or send an [e-mail](#) to request additional, days.

Interpersonal Communication Skills

Learn effective communication strategies by assessing your communication style and developing skills for more productive work relationships through the Interpersonal Communications Skills course on Oct. 18. For more information and enrollment, go to the [Website](#).

Scottish country dancing

Scottish country dancing will meet in Kuhn barn this Tuesday, Sept. 25. Instruction begins at 7:30 p.m. and newcomers are always welcome. Most dances are fully taught and walked through. You do not need to come with a partner. More information is available by calling (630)840-8194 or (630)584-0825 or e-mailing folkdance@fnal.gov.