

Calendar

Monday, Nov. 17

2:30 p.m.

[Particle Astrophysics Seminar](#)

- Curia II

Speaker: Adam Lidz, Harvard-Smithsonian Center for Astrophysics

Title: Future Probes of Hydrogen Reionization, Current Probes of Helium Reionization

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

All Experimenters' Meeting - Curia II

Special Topics: Pinged Extracted Beam from the MI; T-980 Crystal Collimation Tests in the Tevatron

Tuesday, Nov. 18

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

[Accelerator Physics and Technology Seminar](#) - One

West

Speaker: James Volk, Fermilab

Title: Permanent Magnet Work at Fermilab 1995 to Present

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

Weather



Chance of snow
37°/18°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secur Level 3](#)

Wilson Hall Cafe

From Computer Security

Red Teams are phishing

Mark Leininger, Fermilab's computer security manager, wrote this column



Mark Leininger

Red Teams are groups of cyber security experts who work directly for, or are under contract to, the Department of Energy. They are charged with testing whether federal cyber security standards are followed within DOE, including the national laboratories.

Red Teams have been active at other laboratories recently, and it is likely that Fermilab will see activity soon. To make sure you are practicing good cyber security, follow these tips:

- Lock your screen or log out of your computer if you leave the room. Red Teams may look for unattended login sessions.
- Make sure to ask people you don't recognize for identification. Red Teams often appear in person to try to bypass defenses. They may come to your office and claim to be your new system manager. They may go into wiring closets to try to install their own equipment. They may search your monitor and desk for written user names and passwords.
- Stay alert while reading your e-mail. Look for suspicious e-mail addresses, and don't click on any links from questionable sources.

Although we are unaware of what form Red Team activities will take, e-mail messages such as the one sent to SLAC [earlier this year](#) are likely. The message, which security experts believe was sent by a Red Team, was intended to compromise the recipients' computers and record whether they fell for this scam. These types of test messages also record whether the recipients read their e-mail in html format. While not a violation of laboratory policy, reading e-mail in html format is strongly discouraged. It is much safer to read e-mail with html and image display disabled.

Each computer user at Fermilab is the first line

Safety Tip of the Week

Attentiveness



Even when performing routine tasks, cats continually watch for dangers, a habit that would also help humans in the workforce. *Image courtesy of "hagit" at www.sxc.hu*

Repetitive tasks on a job can increase the risk of injury. As people become comfortable with the task, they establish mental shortcuts to selectively block out unnecessary information. While this reduces stress and improves efficiency, it can also block information necessary to prevent accidents.

Simply urging people to pay more attention seldom has a significant or lasting effect. Here are some suggestions that are more likely to improve attentiveness.

Selection – People vary in their ability to deal with information presented to them. Select workers whose skills correlate with the task at hand.

Mental workload – Try to balance the mental workload. Too much work can tax abilities, while too little can create complacency.

Avoid interruptions – Any sudden change could startle a person, breaking their concentration. Try to avoid making loud noises.

Rest – Lack of sleep can decrease reaction time, shorten attention spans and disturb a person's ability to process information.

Diminished abilities – Poor health, major life events or use of medications can adversely affect one's attentiveness to the task at hand.

Fitness – Overall fitness correlates with

Monday, Nov. 17

- Spicy beef & rice soup
- Corned beef reuben
- Honey dijon glazed pork loin
- Vegetable lasagna
- Chicken oriental wrap
- pineapple
- Assorted sliced pizza
- Pacific Rim rice bowl

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Wednesday, Nov. 19
Lunch

- Asian grilled flank steak with rice noodles and vegetables
- Coconut caramel cake

Thursday, Nov. 20
Dinner

- Steamed mussels with white wine & thyme
- Grilled marinated lamb chops
- Mushroom risotto
- Sautéed spinach
- Mocha soufflé

[Chez Leon Menu](#)

Call x3524 to make your reservation.

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www.fnal.gov/today/

Send comments and suggestions to:

today@fnal.gov

of defense against phishing exploits; please be careful.

[In the News](#)

New theories may shed light on dark matter

From *Scientific American*, Nov. 10, 2008

The stuff of mystery may be more than meets the eye

If current theories prove correct, ordinary matter—all that we can see, smell and touch—makes up just a fraction, maybe four percent, of the universe. The rest comes from the so-called dark sector: dark matter and dark energy, a mysterious and pervasive energy that is suspected of speeding the universe's expansion. Dark matter, so known because it refuses to emit or interact with light in a way that we can see, is nearly six times as prevalent as ordinary matter. But, for all its ubiquity, it is often tagged as being fairly bland, a sort of galactic deadweight that only reveals itself through its gravitational pull.

New theories about the hidden life of dark matter aim to shed this dull image once and for all. Whereas dark matter may not mix much with the ordinary kind, it may tango with other dark matter particles via some new force—one outside the purview of the Standard Model of particle physics.

A group of researchers at the California Institute of Technology proposes that dark matter could have its own force analogous to electromagnetism—mediated, naturally, by "dark photons". Just as in regular electromagnetism, the force would act over long ranges, and the photon (the discrete unit of light energy) would be massless. As noted by study co-author Sean Carroll, a Caltech physicist, on the blog Cosmic Variance, the theory opens the door to a rich, as yet unseen world of dark radiation, even dark magnetic and electric fields.

[Read more](#)

improved mental abilities. Participate in regular aerobic exercise, healthy eating and activities that stimulate the brain.

[Accelerator Update](#)

Nov. 12-14

- Two stores provided ~34.7 hours of luminosity
- Operations and controls expert resolve database errors
- Linac experts discover phase errors causing trips
- TeV quench near end of store setup
- Cryo experts fix stuck Kautzky valve

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

[Announcements](#)

[Have a safe day!](#)

[Join Fermilab volleyball, training](#)

[NALWO Thanksgiving feast Nov. 17](#)

[Annual enrollment Nov. 17 - Dec. 10](#)

[Scottish Country Dancing Nov. 18](#)

[International Folk Dancing, Nov. 20](#)

[Fermi singers perform Thursday, Nov. 20](#)

[English Country Dancing, Nov. 23](#)

[Director's volunteer award Nov. 25](#)

[Exciting Explorations! child care program offered Nov. 24-26](#)

[Additional Activities](#)

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