

Calendar

[Have a safe day!](#)

Wednesday, May 27

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

[Fermilab Colloquium](#) - One

West

Speaker: Tim Meyer, TRIUMF

Title: Being Relevant in Tough

Times: TRIUMF's Five-Year

Plan

Thursday, May 28

2:30 p.m.

[Theoretical Physics Seminar](#) -

Curia II

Speaker: Susan Gardner,

University of Kentucky

Title: Dark Matter and the

Transient Sky

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

[Extreme Beam](#) - Physics at the

Intensity Frontier Lecture

Series - One West

Speaker: Janet Conrad,

Massachusetts Institute of

Technology

Title: Neutrinos: To the

Terascale and Beyond!

THERE WILL BE NO

ACCELERATOR AND

PHYSICS TECHNOLOGY

SEMINAR TODAY

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

Weather



Showers

72°/50°

[Extended Forecast](#)[Weather at Fermilab](#)

Feature

Bring your kids to work for DASTOW 2009 on June 10



Children learn about the Fermilab Fire Department's equipment during the 2007 DASTOW.

School-aged children will get a chance to see how education pays off June 10 when they visit Fermilab for Daughters and Sons to Work day.

Fermilab is one of many companies that honors the event in the summer rather than have children miss school in April or May when DASTOW is nationally recognized.

Exposing children to workplaces is a way to show them the value of education, help them understand what their parents or relatives do at work and get them thinking about future career options. For adults, the day showcases how employees and employers strive for a work-life balance.

Fermilab's DASTOW program returns after a hiatus last year with the traditional favorite activities as well as a new program by astrophysicist Dan Hooper highlighting cosmic images and research in honor of the International Year of Astronomy.

Fermilab will showcase its environmental stewardship with two new programs: netting pond critters outside of the Lederman Science Center and a talk about Fermilab's wildlife given by Jim Kalina, Fermilab's lead groundskeeper.

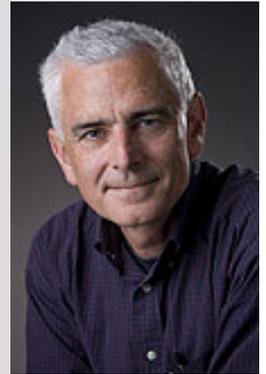
The Fire Department will have a small, replica house outfitted with smoke detectors and a smoke machine so that children can practice the correct way to escape from a fire. The smoke is non-toxic and indoor cameras and firefighters will monitor each child's path

From Center for Particle Astrophysics

How new experiments are born

Craig Hogan, head of the Center for Particle Astrophysics, wrote this week's column.

Last month, members of the Fermilab Center for Particle Astrophysics gathered for a two-day meeting to share the progress on their projects and to start planning the future direction of their research. We discussed proposed projects that cover the broadest possible range of physical scales, from the whole universe to the tiniest interval in nature, the Planck time. The proposed techniques range from low-frequency radio astronomy to the observation of the highest-energy particles ever detected by an experiment.



Craig Hogan

These extraordinarily diverse projects connect with each other in new and surprising ways. Let me give you one example.

The Dark Energy Survey collaboration is in the process of building a large digital camera for taking pictures of the cosmos, to be installed on a four-meter telescope on a Chilean mountaintop. The heart of the camera is an array of CCD light detectors. The detectors allow for accurate mapping of faint light signals by detecting a handful of electrons created by the light.

Fermilab physicist Juan Estrada and colleagues had the idea of using the CCD detectors for a completely different purpose. They installed some detectors 300 feet underground in the MINOS hall, buried inside a pile of lead bricks that provide extra shielding. Instead of looking for faint light from distant galaxies, these CCD detectors now search for dark matter particles in our own galaxy. Every now and then a dark matter particle flying through our laboratory could get caught in the silicon wafer of a CCD detector and leave a tiny, distinctive pixel-patch of electrons. In spite of the low amount of silicon in each wafer—about one gram—this prototype already is a competitive search for

Current Security Status

through the home. Future firefighters can try their hand at using the department hoses to put out a small blaze.

Secou Level 3

Wilson Hall Cafe

For a complete [schedule of events](#) and to see photos from previous DASTOWs, see the [DASTOW Web page](#).

Wednesday, May 27

- Beef barley
- Cowboy burger
- Smart cuisine: Caribbean grill salmon
- Liver w/onions
- Beef & cheddar panini w/ sauteed onions
- Assorted sliced pizza
- Cavatappi pasta w/Italian sausage & tomato ragu

To learn more about the history of the national DASTOW program, started in 1993 as Take Our Daughters to Work program and expanded to include boys in 2003, see the [Take Our Daughters And Sons To Work Foundation Web site](#).

--Tona Kunz



Each year, DASTOW provides events to showcase the environment as well as science. In 2006, families scooped up insects in the prairie near Lederman Science Center.

Special Announcement

Wilson Hall Cafe Menu

Chez Leon

Wednesday, May 27

- Lunch
- BBQ ribs
 - Baked beans
 - Cole slaw
 - Black bottom banana cream pie

Thursday, May 28

- Closed

Chez Leon menu

Call x3524 to make your reservation.

Archives

Fermilab Today

Result of the Week

Safety Tip of the Week

ILC NewsLine

Info

Special Announcement

Extreme Beam lecture Thursday, 4 p.m. in One West

The sixth lecture of the Extreme Beam lecture series will take place at 4 p.m. Thursday in One West. Janet Conrad, from MIT's Department of Physics, will give a talk titled "Neutrinos: To the Terascale and Beyond!"

The lecture series, which will feature talks at Fermilab throughout 2009, will give in-depth information about the science and accelerator and detector technologies that will create a world-leading physics program at the Intensity Frontier.

Visit the [Extreme Beam Web site](#) for more information.

very light dark matter particles, because of the low intrinsic noise level of the CCDs.

I share this anecdote not because it is unusual, but because it is exemplary. It shows how a lively, cross-cutting group of scientists can find new ways to do science.

Special Announcement

Tune IT up campaign underway

Fermilab launched Tune IT up on Tuesday, May 26, as an effort to increase IT and cybersecurity management standards at the laboratory. More information is available on the dedicated [campaign Web site](#), which will track progress, provide resources and answer questions.

Special Announcement

Paving preparations on B Road begin today

Over the next few weeks, paving will take place on B Road, from A-1 out toward Wilson Street. Preparations for paving will begin today. The road will not be closed during paving, but may be down to one lane. Signs will direct motorists to an alternate route if they wish to avoid the construction.

Safety Update

ES&H weekly report, May 26

This week's safety report, compiled by the Fermilab ES&H section, lists one reported first-aid-only injury. It has been 34 days since the last recordable injury. Find the full report [here](#).

Safety report archive

Accelerator Update

May 22-25

- Four stores provided ~56.25 hours of luminosity
- MiniBooNE air conditioning problems fixed
- H⁻ Source brought online

*The integrated luminosity from 5/18/ to 5/25 was 32.5 inverse pico barns.

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

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

Send comments and
suggestions to:
today@fnal.gov

Visit the Fermilab
[home page](#)

Do you recognize these languages?



Do you know what languages are shown in this image? See the article below for the correct answer.

This month, the safety signs at the three site entrances greet employees and visitors with the message "Safety First" in six foreign languages (see image above). The different languages that were displayed in celebration of the Asian/Pacific Heritage Month are as follows from top: Chinese, Hindi (India), Turkish, Urdu (Pakistan and India), Russian and Lao. You can find the corresponding countries on this [map of Asia](#).

In the News

QUIET team to deploy new gravity-wave probe in June

From *University of Chicago News Office*,
May 15, 2009

A tiny fraction of a second following the big bang, the universe allegedly experienced the most inflationary period it has ever known.

During this inflationary era, space expanded faster than the speed of light. It sounds crazy, but it fits a variety of cosmological observations made in recent years, said University of Chicago physicist Bruce Winstein.

"Theorists take it to be true, but we have to prove it," said Winstein, the Samuel K. Allison Distinguished Service Professor in Physics at the University of Chicago. "It needs a real test, and that test is whether or not gravity waves were created."

Winstein and his Chicago associates are part of the international QUIET (Q/U Imaging Experiment); the Q and U stand for radiation parameters called Stokes parameters) collaboration that has devised such a test.

Latest Announcements

[Users' Office closed May 27, 29](#)

[Asian/Pacific quiz contest winners week 3](#)

[Costco Warehouse Club Memberships](#)

[New URA e-mail address](#)

[Are you Fit to a T? May 27 event](#)

[Computing account requests reach peak season](#)

[Concerned about H1N1? Ask a question](#)

[Argentine Tango Classes through June 24](#)

[Summer co-ed volleyball league begins June 1](#)

[Registration for Users' meeting is open](#)

[Conflict Management and Negotiation Skills class - June 3 and 10](#)

[Discount tickets to "1964"...Beatles tribute - June 6](#)

[Accelerated C++ Short Course: registration open - June 8](#)

[Python Training June 17-19](#)

[Susan Werner - Singer/Songwriter Performs on Arts Series](#)

[Microsoft Office 2007 help at the Library](#)

[Process piping \(ASME B31.3\) class offered in October](#)

[Nanotechnology Lecture: Crafting of Self-Assembling Materials for Medicine & Energy - Fermilab Arts Series](#)

[Science adventures for children](#)

[Discounted Rates at Grand Geneva](#)

QUIET's goal: detect remnants of the radiation emitted at the earliest moments of the universe, when gravity waves rippled through the very fabric of space-time itself.

[Read more](#)

[Resort, Lake Geneva, WI](#)

[SciTech summer camps](#)

[Intermediate/Advanced Python Programming July 22-24](#)

[Additional Activities](#)

[Submit an announcement](#)