

## Calendar

Wednesday, Jan. 7  
11:30 a.m.  
Traffic Safety Seminar - One West  
Speaker: John Denofrio, Green Light Driving School  
Title: Winter Driving Skills  
3:30 p.m.  
DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over  
4 p.m.  
[Fermilab Colloquium](#) - One West  
Speaker: John Sarrao, Los Alamos National Laboratory  
Title: Achieving Transformational Materials Performance in a New Era of Science

Thursday, Jan. 8  
THERE WILL BE NO PHYSICS AND DETECTOR SEMINAR THIS WEEK  
THERE WILL BE NO THEORETICAL PHYSICS SEMINAR THIS WEEK  
3:30 p.m.  
DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over  
4 p.m.  
[Accelerator Physics and Technology Seminar](#) - One West  
Speaker: Alexey Burov, Fermilab  
Title: Head-Tail Modes for Strong Space Charge (Part 2)  
[Click here](#) for NALCAL, a weekly calendar with links to additional information.

## Weather



Chance of snow  
27°/14°

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

## Feature

## Paul Mackenzie named USQCD chair



Paul Mackenzie

Theoretical physicist Paul Mackenzie was elected chair of the executive committee of USQCD, the national organization that guides the lattice quantum chromodynamics (QCD) computing program in the U.S.

On Jan. 1, Mackenzie, who has served on the organization's executive committee for the past decade, took over the position from Bob Sugar, University of California Santa Barbara.

"USQCD has been wisely led by Bob Sugar," Mackenzie said. "It is an honor for me to succeed him, and I hope to keep USQCD moving forward in the direction we've established under his leadership."

As part of the USQCD collaboration, U.S. scientists develop and use large-scale computers for calculations in lattice quantum chromodynamics, a way of determining the properties of quarks and gluons, which are bound together in nature. Lattice QCD plays an increasingly crucial role in analyzing the parameters of the Standard Model.

"During the 10 years of USQCD's existence, lattice gauge theory has developed into a precision tool for extracting the parameters of the Standard Model from hadronic experiments," MacKenzie said. "In the coming years, I hope to see even more spectacular accomplishments in high-precision lattice QCD and in strongly interacting beyond-the-Standard Model physics on the lattice."

The USQCD Executive Committee was formed in 1999 when Vicky White, then a DOE computing advisor, and Jeff Manula, DOE, urged U.S. lattice gauge theorists to organize nationally to plan for lattice QCD infrastructure. Fermilab is currently home to the Lattice Computing Center, which houses more than 1,300 high-performing computers for the Lattice QCD project.

## From FESS

## The work behind the scenes

*Randy Ortgiesen, head of the Facilities Engineering Services Section at Fermilab, wrote this week's column.*

At Fermilab, many of us will remember 2008 for the record performance of our Tevatron accelerator and our outstanding safety record. We will also remember the furloughs due to an unexpected budget shortfall and how we managed to overcome this challenge - a powerful testimony to the character and dedication of our employees.



Randy Ortgiesen

When I think of the past year's achievements, I also think of the laboratory employees in various support functions who have helped carry us through the past year. Building managers and safety professionals across the site have maintained safe and environmentally sound work environments for all of us. Our groundskeepers and mechanic have kept our snow plows up and running during record snow falls, and it is nice to know that our salt shed will soon again be full.

The taxi service, as well as the laboratory mail delivery and pickup have been reliable across the laboratory — crucial functions even in the age of the Internet. Our crafts folks have again kept us dry during record rain falls and prevented flooding due to melting snow. Many people helped with the recovery from an unscheduled power outage when our main power line faulted in November. The geese police and its border collies kept geese from nesting near our buildings and improved safety. And we once again made repairs to the repairs to fix the roof of the Meson Detector building. But to be sure I probably should have checked again.

The new year has the potential to be a very busy one for the laboratory as we anxiously await a budget that will enable us to continue our current operations and start new projects. Some of us will work miracles in running the accelerator complex while others will help plan and advance future projects, such as DUSEL

## Current Security Status

-- Rhianna Wisniewski

## Second Level 3

## In Brief

## Wilson Hall Cafe

## Last chance to register for JTerm III

Wednesday, Jan. 7  
 - 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



\*Carb restricted alternative

A tutorial on the CMS Starter Kit, a software toolbox that helps scientists get physics analyses started quickly, will be available at next week's workshop.

## Wilson Hall Cafe Menu

## Chez Leon

The LHC Physics Center at Fermilab will sponsor the third annual January-Term Workshop on Jan. 12-16. In response to demand for more tutorials about CMS physics analyses, the LPC created an extended week-long workshop with sessions for all levels of expertise.

Wednesday, Jan. 7  
 Lunch

- Chicken enchiladas  
 - Refried beans  
 - Spanish rice  
 - Pineapple flan

Thursday, Jan. 8  
 Dinner  
 - Closed

## Chez Leon menu

Call x3524 to make your reservation.

"We have had two successful winter-term workshops hosted by the LPC so far, and at the last meeting, everyone asked for more," said Fermilab's Dan Green, co-coordinator of the LPC.

## Archives

## Fermilab Today

The workshop will include an extended session on "CMS 101," which covers detector basics, remote operations, software tutorials and the use of generators. The LPC will also have dedicated sessions on physics objects, simulation, data handling, data quality monitoring and data access models. Tours of the Remote Operations Center, CDF and DZero will be also be available.

## Result of the Week

## Safety Tip of the Week

## ILC NewsLine

## Info

"The totality of the JTerm-III sessions has something for everyone," Green said.

For an agenda, visit the workshop [Web site](#). To register, click on the evaluation button at the top of the Web site's agenda page.

- Elizabeth Clements

and Project X. It is truly an all-hands effort to transition from the old to the new in more ways than one. Happy New Year to all Fermilab employees and users and to all our supporters.

## Safety Update

## ES&H weekly report, Jan. 6

This week's safety report, compiled by the Fermilab ES&H section, includes no injuries. We have now worked 20 days since the last recordable injury. Find the full report [here](#).

[Safety report archive](#)

## Announcements

[Have a safe day!](#)

[Science Chicago hosts Mythbusters](#)

[Python Programming - Jan. 6 - 8](#)

[Winter Driving Skills Seminar - Jan. 7](#)

[International Folk Dancing, Jan. 8](#)

[English Country Dancing, Jan. 11](#)

[Barn Dance Jan. 11](#)

[Argentine Tango Classes begin Jan. 14](#)

[Outlook 2007 New Features classes scheduled Jan. 15 and Feb. 3](#)

[Barn Dance Jan. 18](#)

[Intermediate / Advanced Python Programming - Jan. 27 - 29](#)

[Submit an announcement](#)

[Additional Activities](#)

*Fermilab Today*

is online at:

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suggestions to:

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