

Calendar

[Have a safe day!](#)

Wednesday, Jan. 20
10:30 a.m.

[Research Techniques Seminar](#) -

Curia II

Speaker: John Thome, Ecole Polytechnique Federale de Lausanne
Title: Two-Phase Cooling of Targets and Electronics for Particle Physics Experiments

3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

4 p.m.

[Fermilab Colloquium](#) -

One West

Speaker: Evan Finch, Yale University
Title: A Hint of Local Parity Violation in QCD? Recent Results from the STAR Collaboration

Thursday, Jan. 21

2:30 p.m.

[Theoretical Physics Seminar](#) - Curia II

Speaker: Gerben Stavenga, Fermilab
Title: Vortices in the Jackiw-Pi Model on the Torus

3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR THIS WEEK

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

[Upcoming conferences](#)

Campaigns

[Take Five](#)

[Tune IT Up](#)

H1N1 Flu

Feature

CMS researchers go back to school at J-Term workshop



Jeff Temple, U. Maryland, taught J-Term attendees how to spot noise in the CMS hadron calorimeter.

When Angela Marotta, a first-year graduate student at Texas A&M, learned she could spend a large portion of her winter break in the LHC Physics Center at Fermilab, she jumped at the opportunity.

"We have a lot of tutorials online, but it is so helpful to have someone explain it to you in person," Marotta said.

She and more than 100 other students, post-docs and professors signed up to take a crash course on the CMS experiment at the "[EJTERM](#)" (Extended January-term) workshop "Commissioning and Analysis of Early Data with CMS" on Jan. 5-9. From an overview of how the detector works to how to spot noise versus real particles in an analysis, attendees could sign up for more than a dozen different classes, making this year's workshop resemble a university campus.

"When you join a big collaboration like CMS, you need a university to go along with it," said Sudhir Malik, a physicist at the University of Nebraska and convener of the CMS Users Support Group.

This was the fifth time the workshop had been held, but in response to feedback, this time the organizers made 90 percent of the workshop hands-on tutorials (previously it had been 10 percent) and there were extensive pre-workshop online exercises as well so that students arrived well-prepared. For the very first time, attendees also had the opportunity to use real LHC data that was collected just before the holidays.

"We have been doing simulations for 10 years, and real data changes everything," Malik said.

Each attendee completed a mini-analysis and presented their results at the end of the workshop. Even though a physics analysis should take one to two years, Malik said, the mini-analyses help them prepare for the real thing.

From the Accelerator Division

Summit vistas

Roger Dixon, head of the Accelerator Division, wrote this week's column.

As accelerator experts and operations personnel tuned up the Fermilab accelerator complex this past fall, we heard almost daily updates on the significant strides being made on commissioning the Large Hadron Collider at CERN. We were delighted with the LHC's progress and pleased that people from our division were contributing to its successes, either working from the LHC Remote Operations Center at Fermilab or spending time at CERN. Nevertheless, we could not help but feel that the world was changing beneath our feet. It was as if the mountain we were about to summit was no longer the highest.



Roger Dixon

The excitement over the LHC is justified: the LHC will explore uncharted territory and should open a vista on new physics. If you are a scientist it is difficult to contain your enthusiasm. Nonetheless, it is also difficult to avoid the feeling that we at Fermilab will no longer have the prime vantage point, especially for those of us who have no direct involvement in the LHC.

It is worth noting that it will be quite some time before the data and physics output of the LHC will match the Tevatron's. If we stay focused and continue to climb our own mountain in the next couple of years, we may perhaps be the first to catch a glimpse of the new land.

The end of the Tevatron collider run in 2011 will mark the end of an era, but it will also usher in the next phase of Fermilab's research program. There are other mountains to climb after all, and other vantage points to new physics. Presently our neutrino program is unrivaled, and it will get even better with the completion of the NOvA project and the addition of a second long-baseline neutrino beam as part of the LBNE project. Future plans include a high-intensity accelerator, Project X, and could lead us to a muon collider or the International Linear Collider.

There is a lot of work to do. To reach one or more of these lofty goals will take the same kind of dedication and support from our laboratory staff and our funding agency that resulted in our extremely successful Tevatron program. Good crampons and fall protection will be necessary, of course, to reach our new summits safely.

For information about H1N1, visit Fermilab's flu information [site](#).

Weather



Freezing rain
30°/27°

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

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Wednesday, Jan. 20

- Breakfast: English muffin sandwich
- Chicken noodle soup
- Steak sandwich
- Maple Dijon salmon
- Mongolian beef
- California club
- Assorted sliced pizza
- Chicken pesto pasta

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, Jan. 20
Lunch

- Penne pasta w/ spinach & mushrooms in Alfredo sauce
- Green salad
- Italian cream cake

Thursday, Jan. 21
Dinner

- Pasta carbonara
- Stuffed filet of sole w/ crabmeat
- Sautéed spinach w/ lemon & pine nuts
- Salad of field greens, pear & shaved parmesan
- Pecan rum cake

[Chez Leon Menu](#)

Call x3524 to make your reservation.

Archives

Marotta, for example, focused on muon reconstruction and learned how to spot a real muon from a fake one. "I really liked measuring cross-sections," she said.

But for her, the best part about EJTERM was talking to other people and figuring out who to contact for help.

All of the tutorials and mini-analyses are now available on the Web, and so many more new to CMS around the world can benefit from them.

"The support structure in the LPC is very good," Malik said. "If you're doing analysis, this is the place to be."

--Elizabeth Clements

Special Announcement

Open house, talk Thursday at seed processing facility



Roads and Grounds' employee Martin Valenzuela works at the seed processing facility in the Fermilab Village. Valenzuela will give a lecture at 1 and 2 p.m. at the facility open house from 1-3:30 p.m. on Thursday.

from, why Roads and Grounds goes through the process of preparing them and where the process ends. Staff members will also explain how specific seed mixes are custom blended and planted in the spring.

The seed processing facility is located at 28 B Sauk Blvd. in the Fermilab Village. Please RSVP to Roads and Grounds at x3303 if you would like to attend.

Special Announcement

Safety Update

ES&H weekly report, Jan. 19

This week's safety report, compiled by the Fermilab ES&H section, includes no injuries reported this week. We have now worked 26 days since the last recordable injury. Find the full report [here](#).

[Safety report archive](#)

In the News

Buzz Blog: A day to remember

From *Physics Central*, Jan. 18, 2010

...This is a topic that could lead to many a long blog post, but in honor of MLK I'd rather recount a great story about a group of physicists who supported his cause during a period of great turmoil in our nation.

In the mid 1960's, particle physics was about to enter a new era with the construction of a new government laboratory, later named Fermilab after Enrico Fermi. Fermilab would eventually host the Tevatron, an accelerator that was, up until a few weeks ago when the LHC started up, the largest and most energetic accelerator in the world.

[Read more](#)

Accelerator Update

Jan. 15-18

- Five stores provided ~62 hours of luminosity
- Linac RF station (LRF2) repaired
- MTest (T977 MINERvA) resumed taking beam
- MI injection kicker power supply repaired

*The integrated luminosity for the period from 1/11 to 1/18 was 48.75 inverse picobarns. NuMI reported receiving 6.86E18 protons on target during this same period.

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

[Fermilab Today](#)[Result of the Week](#)[Safety Tip of the Week](#)[CMS Result of the Month](#)[User University Profiles](#)[ILC NewsLine](#)**Info****Fermilab Today**

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Personally identifiable information training required

Fermilab takes the job of preventing identity theft and protecting the privacy of employees and users seriously.

This is why all Fermilab employees must complete a training course about protecting personally identifiable information.

The training, which takes about 15 minutes, explains how to handle personally identifiable information, or PII.

At Fermilab protected PII is defined as an individual's name in combination with one or more of a list of items including medical records, social security, passport, visa or personal credit card information. Employees may come across PII in resumes, conference databases or trip reports.

Employees who have already taken the course are not required to take it again. Employees who do not complete the course within the next couple of months be reported as delinquent.

The training is available online, and the Computing Division offered it at the recent annual Computer Security Awareness Day.

To take the training, go to the [TRAIN class schedule page](#) and sign in with your employee ID. Select the training category "Computing" and click "Submit."

Next, click on "Protecting Personal Information at Fermilab." Click on the button "Go to Online Test." This will generate an e-mail message with a link to both the test and the training material.

Once you have reviewed the training material, take the online test to complete your requirement.

Latest Announcements

[Fermi Mac Users' Group meeting - today](#)

[TIAA-CREF financial education seminar Jan. 20](#)

[Lunch & Learn about glaucoma - Jan. 21](#)

[Elder Care: Where do I begin? Interactive seminar](#)

[Tai Chi For Health begins Jan. 21](#)

["Evolution in the 21st Century" - Jan. 22](#)

[Argentine Tango at Fermilab through Jan. 25](#)

[Romanian/Fusion Dance workshop Jan. 28 at Kuhn Village Barn](#)

[Muntu African Dance Theatre - Feb. 6](#)

[English country dancing Feb. 7, with live music](#)

[Fermilab Management Practices Seminar beginning Feb. 11](#)

[Applications accepted for awards in URA Visiting Scholars program](#)

[BLAST! The Movie: intro, film and Q&A - Feb. 19](#)

[Fermilab Family Open House Feb. 21](#)

[Python Programming class offered Feb. 24-26](#)

[FRA Scholarship 2010](#)

[Atrium events - book through Office of Communication](#)

[2010 standard mileage reimbursement rate](#)

[Fermilab Natural Areas newsletter](#)

[International folk dancing, Thursdays at Kuhn Village Barn](#)

[Additional activities](#)



[Submit an announcement](#)