

## Calendar

### Have a safe day!

Monday, July 19

2:30 p.m.

#### [Particle Astrophysics Seminar](#)

- One West

Speaker: Sukyoung Yi, Yonsei University, Korea

Title: SFH of Galaxies from Galex-SDSS and New Line Measurements on SDSS SEDs

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

All Experimenters' Meeting - Curia II

Special Topic: Beam-Induced Electron Loading Effects in High Pressure RF Cavities

Tuesday, July 20

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

12 p.m.

#### [Summer Lecture Series](#) - One West

West

Speakers: Donna Kubik, Fermilab

Title: Astrophysics

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

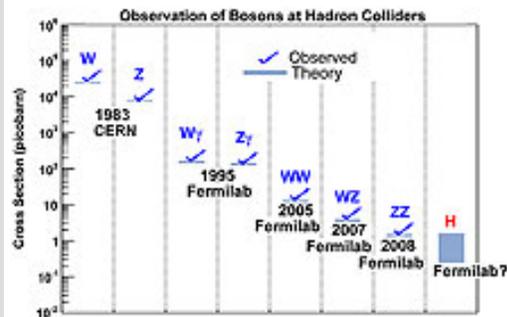
Click here for [NALCAL](#), a weekly calendar with links to additional information.

#### [Upcoming conferences](#)

## Campaigns

## Feature

### Tevatron experiments prepare to shine at ICHEP



Over the last 15 years, the CDF and DZero experiments at Fermilab have discovered increasingly rare combinations of the electroweak force carriers — gamma, W and Z — emerging from proton-antiproton collisions at the Tevatron. With the Tevatron producing a record number of particle collisions, will the Tevatron experiments be able to catch a glimpse of the Higgs particle?

On Friday afternoon, scientists from the CDF and DZero collaborations showed at a Fermilab seminar a large fraction of about 150 results that they will present at this year's International Conference on High Energy Physics, which will take place in Paris from July 22-28. ICHEP organizers have scheduled more than 40 talks and a large number of poster presentations on Tevatron results.

"This might be a record year in terms of the number of results produced," said Rob Roser, co-spokesperson of the CDF collaboration. "CDF and DZero have lots of results on searches for exotic particles and dark matter candidates, signs of symmetry violation and the search for the Higgs particle, not to mention the discoveries of new decay channels of known particles and the many precision measurements of numerous particle properties."

Both the CDF and DZero collaborations are taking advantage of the wealth of data delivered by the Tevatron particle collider. While the Large Hadron Collider in Europe now produces collisions at higher energy than Fermilab's collider, the Tevatron is still far ahead in the total number of collisions produced. Since 2001, the Tevatron has delivered [nine inverse femtobarns](#) of collisions per experiment, about 100,000 times more

## ES&H Tips of the Week - Health



### Take care to prevent clots on long airplane flights



Walking around on long airplane flights is one way to prevent deep vein thrombosis.

If you travel in airplanes, particularly for long periods of time, you need to consider the risks of deep-vein thrombosis, or DVT.

While the Fermilab Medical Office routinely reminds those travelling abroad for business about ways to avoid the dangers of DVT, the office staff also want all employees to consider the risks when taking domestic or vacation-related flights.

The veins in your legs and thighs are a low-pressure return circuit that uses valves and muscle compression to ensure flow. Compromised blood flow increases the possibility of clotting. A clot that dislodges and travels to the heart or lungs can cause death.

Follow these tips to lower your risk of DVT in flight:

- Maintain good fluid levels. Dehydration makes the blood more likely to clot.
- Avoid alcohol or sleeping pills, which are likely to immobilize you.
- Give yourself leg room by limiting the size of under-seat carry-on items.
- Fidget. Walk the aisle or move your ankles to force calf muscles to squeeze blood back toward the heart. Be wary of pinch points from clothing and where the seat edge contacts your knees. If you are short, put your feet on your under-seat carry-on. Practice bending your toes upward to relieve pressure behind the knee.

If you are at higher risk due to recent surgery,

[Take Five](#)[Tune IT Up](#)[H1N1 Flu](#)

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

[Weather](#)

**Sunny**  
88°/68°

[Extended Forecast](#)[Weather at Fermilab](#)[Current Security Status](#)[Secom Level 3](#)[Wilson Hall Cafe](#)**Monday, July 19**

- Breakfast: Croissant sandwich
- French Quarter gumbo soup
- French dip w/ horseradish cream
- Santa Fe pork stew
- Country baked chicken
- Popcorn shrimp wrap
- Assorted sliced pizza
- Sweet and sour chicken w/ egg roll

[Wilson Hall Cafe Menu](#)[Chez Leon](#)**Wednesday, July 21****Lunch**

- Chile rellenos
- Spanish rice
- Refried beans
- Pineapple flan

**Thursday, July 22****Dinner**

- Corn cakes w/shrimp & chipotle
- Filet of beef w/morel sauce
- Potato gratin
- Chive green beans
- Mocha soufflé

[Chez Leon Menu](#)

Call x3524 to make your

than the LHC has produced since its start in 2009.

"For many sought-after phenomena, such as new, heavy particles, the higher the collision energy the better the chance for discovery," said Dmitri Denisov, co-spokesperson of the DZero experiment. "But for some rare processes, including low-mass Higgs production, extra energy is less important than a large number of collisions produced. As we saw two months ago, the Tevatron experiments still can yield surprising results." In May, the DZero collaboration [announced](#) that B hadrons produced in proton-antiproton collisions seem to produce more muons than antimuons in their decays, evidence for a new type of matter-antimatter asymmetry.

[Read more](#)

[Special Announcement](#)**Shutdown-related power outage Tuesday morning**

An outage to the master substation will take place from 7-7:30 a.m. on Tuesday, July 20. The nearly site-wide outage will affect all buildings except for the Village buildings and the Main Injector. Please power down all personal electronics and computers before leaving work today. To learn more about Fermilab's four-week shutdown, [view the article](#) in the July 16 issue of *Fermilab Today*.

[Photo of the Day](#)**New employees - July 12**

From left: Ben Hansen, Anthony Kephart, Mark Hauser, Daria Haznar and Ashley Schultz.

[In Brief](#)

cancer, bad leg veins or prior DVT, you should also:

- Talk to your doctor about aspirin use and its anti-clotting effect. See the [June 14 ES&H tip](#).
- Wear compression stockings to make up for bad vein valves and boost the compression your muscles can provide on their own.
- Consult with your doctor about low molecular weight heparin shots.

For more traveling tips see the [Aerospace Medical Association website](#).

-- Brian Svazas, MD

[Safety Tip of the Week Archive](#)[Accelerator Update](#)**July 14-16**

- Four stores provided ~34 hours of luminosity
- Booster GMPS, Linac LRF5, and the MI-8 line all caused problems
- Booster repaired a kicker
- All proton beams off at midnight 7/16
- TeV store collided until Sunday at midnight
- Shutdown began at 8 a.m. today

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

[Announcements](#)**Latest Announcements**

[Today is the deadline for on site housing requests](#)

[Applications for URA Visiting Scholars Awards due Aug. 20](#)

[Take 5 challenge quiz](#)

[Pre-K & youth swim lesson session 4 deadline](#)

[Argentine Tango, Wednesday, July 7 to 28](#)

[Ask HR: Professional Development at CDF July 21](#)

[Club & league fair - August 11](#)

[Day Camp payments due](#)

[Artist Reception - 5-7 p.m., Saturday, July](#)

reservation.

## Archives

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[CMS Result of the Month](#)

[User University Profiles](#)

[ILC NewsLine](#)

## Info

*Fermilab Today*

is online at:

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Send comments and

suggestions to:

[today@fnal.gov](mailto:today@fnal.gov)

Visit the Fermilab

[home page](#)

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*Today*

## EAP offers July webinars

Fermilab's Employee Assistance Program will offer webinars in July that focus on business etiquette and the importance of sleep.

- Thursday, July 22, from 1-2 p.m., CDT, "Etiquette in the Workplace"
- Thursday, July 29, from 1-2 p.m., CDT, "Sleep for Success"

Anyone interested in virtually attending the live events can register through the Fermilab [EAP Web site](#) with the User ID "Fermilab" and the password "eap". The event is one of the monthly one-hour Webinars offered by Fermilab's Employee Assistance Program. All Webinars are archived so they can be viewed at a later date if the scheduled date/time is not convenient.

## In the News

### Are we alone – Rend me your ears: Craig Hogan

From *Are We Alone* radio show, July 9, 2010

Part 5 of "Rend Me Your Ears", a program on the one-hour *Are We Alone* radio program features Craig Hogan, Director for the Center for Particle Astrophysics at Fermi National Accelerator Laboratory. *Are We Alone* is produced by the SETI Institute and broadcast and podcast every week

[Listen to the show](#)

[24](#)

[Sons of the Never Wrong - July 24 - 8 p.m](#)

[Grounding and Shielding of Electronic Systems course - Aug 12 and 13](#)

[Free Piano Concert featuring Sandor Feher, Ramsey Auditorium at 12:00 p.m. on Aug. 12](#)

[Claudia Schmidt - Singer/Songwriter - Fermilab Arts Series - Aug. 14](#)

[Gizmo Guys - Fermilab Arts Series - Sept. 25](#)

[Submit an announcement](#)