

Calendar

[Have a safe day!](#)

Tuesday, June 1
12 p.m.

[Summer Lecture Series](#) - One
West

Speaker: Young-Kee Kim,
Fermilab
Title: Introduction to Fermilab
3:30 p.m.

DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over
4 p.m.

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

Speaker: Valeri Lebedev,
Fermilab

Title: Optical Stochastic
Cooling in the Tevatron

Wednesday, June 2
8 a.m.

Users Annual Meeting
Registration

9 a.m. – 5 p.m.

[Users Annual Meeting](#)

3:30 p.m.
DIRECTOR'S COFFEE BREAK
THERE WILL BE NO
FERMILAB COLLOQUIUM
THIS WEEK

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

[Upcoming conferences](#)

Campaigns

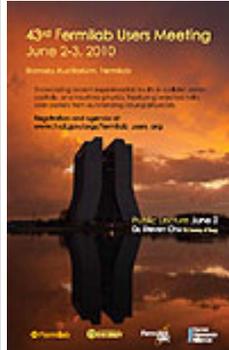
Take Five

Tune IT Up

H1N1 Flu

Feature

Fermilab annual Users' Meeting begins tomorrow



Fermilab's 2010
Users' Meeting
takes place June 2-
3

Join experimenters and theorists from around the world this week for an up-to-date look at particle physics at Fermilab now and in the future. The 43rd annual Users' Meeting takes place on Wednesday, June 2, and Thursday, June 3, at Fermilab's Wilson Hall.

The meeting begins at 9 a. m. Wednesday with an introduction by Users' Executive Committee Chair Ron Moore. The day's presentations and talks include a status update on Fermilab's Accelerator Complex; results presentations from MINOS, MiniBooNE, SciBooNE and MINERvA; and talks by Department of Energy Under Secretary for Science Steve Koonin and Deputy Director of the Office of Science for High Energy Physics Dennis Kovar.

Thursday's presentations include talks on the Energy Frontier, including the LHC; Perspectives of HEP from Congress from Rep. Bill Foster (D-IL); flavor physics, astrophysics and Fermilab's proposed future experiments, such as Project X, Mu2e, a Muon Collider and LBNE.

All Fermilab employees are invited to attend with approval from their supervisor.

The Fermilab Graduate Student Association's New Perspectives conference will not take place as planned today. The GSA poster session will take place during the banquet on Wednesday, June 2.

Registration for the meeting is free. The Festa Italiana will take place in Kuhn Barn Wednesday evening.

View the Users' Meeting [agenda](#).

Photo of the Day

Director's Corner

Results, results

Last week I gave the closing talk at the [Brookhaven Forum 2010](#).

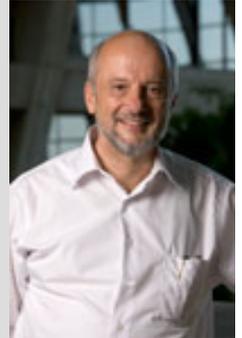
At BF2010, over a period of two and half days, we got an excellent review of current results and a comprehensive description of the outlook for the next decade. Several scientists from Fermilab or associated with the

Fermilab program gave excellent talks at the forum. Once again, Fermilab was the source of the results that folks talked about. We do live in a most interesting era.

Soon the LHC will open a huge new territory and much of the early new physics will be extremely exciting and maybe very hard to interpret. There is an almost endless variation in expectations from supersymmetric models, extra dimension theories, strong dynamics, Higgs models and so on. Many of these mimic each other (see [Joe Lykken's talk](#) at BF2010) and, to add to the chaos, the pressure on the experiments will lead to making statements of interesting physics early when the statistics are not yet completely conclusive. We are about to enter an era of absolutely enjoyable chaos and excitement.

It is clear that the LHC is making good progress and has already reached a luminosity of $4 \times 10^{29} \text{ cm}^{-2}\text{sec}^{-1}$. While the progress is impressive, the physics results from LHC this summer are likely be based on a very small amount of data. Starting with the [XXIV International Conference on Neutrino Physics and Astrophysics](#) in Athens in June to the [35th International Conference of High Energy Physics](#) in Paris in late July, it will be results from our Tevatron and neutrino programs that are most likely to add to current knowledge.

Both the Tevatron and the neutrino facilities are headed for records this year. This level of performance with machines that have many antique parts is a credit to the many individuals who work indefatigably to make the



Fermilab Director
Pier Oddone

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

Weather



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

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Tuesday, June 1

- Breakfast: Bagel sandwich
- Bagel sandwich
- Golden broccoli soup
- Southern style fish sandwich
- Coconut crusted tilapia
- Burgundy beef tips
- La grande sandwich
- Assorted sliced pizza
- Chicken fajitas

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, June 2

- Lunch
- Bourbon baby back ribs
 - Coleslaw
 - Baked beans
 - Lemon meringue pie

Thursday, June 3

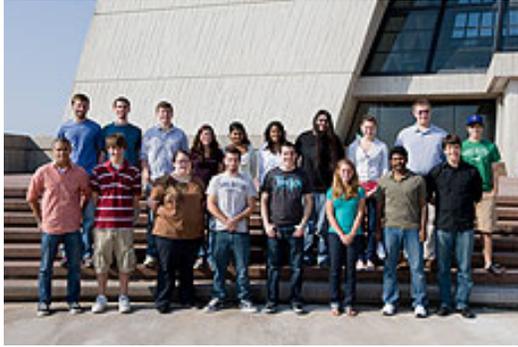
- Dinner
- Melon & prosciutto
 - Prime rib
 - Whipped potatoes
 - Steamed asparagus
 - Fruit sorbet

[Chez Leon Menu](#)

Call x3524 to make your reservation.

Archives

New employees - May 24



Front row from left: Joshua Hooks, AD; Mike Alber, FESS; Rebecca Bemrose-Fetter, PPD; Alex Irigoyen, TD; Andrew Dalesandro, AD; Ericka Rogers, FESS; Kranti Gunthoti, PPD; and Dan Chase, AD. Back row from left: Chad Becker, AD; Mike Beck, FESS; Jake Annala, TD; Danielle Coppola, PPD; Rachel Pirovano, TD; Novarah Kazmi, WDRS; Jacob Noyola, TD; Lisa Reger, ES&H; Paul Butkovich, WDRS; and Andrew Rauchmiller, FESS.

From *symmetry breaking*

Accelerator physicists strive to lower cost of cancer treatment

Several facilities that will offer cancer patients the latest innovation in hadron therapy, a medical application of particle accelerators, are under construction in Europe and Asia.

But so far the high cost of building and operating these facilities has prevented the treatment from becoming widely available.

Accelerator physicists from industry and academia were challenged this week at the International Particle Accelerators Conference in Kyoto, Japan, to find ways to make the treatment, carbon-ion therapy, more affordable.

Hadron therapy uses an accelerator to send particles such as protons or ions into a patient's tumor. The particles travel through the patient's body and release most of their energy into the tumor cells, damaging them while limiting harm to the surrounding healthy tissue.

The development of proton therapy was a huge advancement in the treatment of cancer and is often just as effective as the more expensive carbon-ion therapy, Chu said. It has been the most widely used form of the treatment.

By the end of 2009, about 78,000 patients worldwide had been treated using hadron therapy, according to the Particle Therapy Co-Operative Group, PTCOG. About 86 percent

production runs as effective as possible. Starting this Wednesday, the [Fermilab User's Meeting 2010](#) will provide a comprehensive review of current results, progress on experiments now under construction and plans for future experiments and facilities. We will also hear important talks giving us the perspective from Washington by Associate Director for High Energy Physics Dennis Kovar, Undersecretary for Science Steven Koonin, and Congressman Bill Foster.

Accelerator Update

May 26-28

- Three stores provided ~16 hours of luminosity
- TeV wet engine repaired
- Store 7839 quenched due to poor beam positions
- TeV quench during shot setup due to beam instability
- Pbar cryo system derimed

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

Latest Announcements

[Pool opens June 8](#)

[Walk to Health class begins June 7](#)

[Butts & Guts class begins June 7](#)

[Behavioral interviewing](#)

[Earned Value Management \(EVMS\) - June 7&8](#)

[Lecture Series: Intermediate/Advanced Topics in C++](#)

[Diversity Office volunteer opportunity May 25-June 8](#)

[Ask HR: 15th floor visits CD - FCC on Wednesday, June 2](#)

[10,000 Steps Per Day Walking Program](#)

[Sand Volleyball Held on Tuesdays began May 25](#)

[43rd Fermilab Users Meeting Registration June 2 - 3](#)

[Fermilab Today](#)

were treated with protons, and less than 10 percent—about 7000 patients—with carbon ions.

[Read more](#)

[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:

www.fnal.gov/today/

Send comments and

suggestions to:

today@fnal.gov

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Today

[Toastmasters meeting - June 3](#)

[SciTech summer camps start June 14](#)

[Employee Discount at Batavia Rosati's](#)

[Fermilab Arts Series presents Corky Siegel and Chamber Blues June 26](#)

[Sign up for summer Science Adventures classes](#)

[Introduction to LabVIEW course being held July 13](#)

[Embedded Design with LabVIEW FPGA and CompactRIO seminar being offered July 13](#)

[Interaction Management Coaching Forum - July 27](#)

[Submit an announcement](#)