

Calendar

Tuesday, December 6

11:00 a.m. Academic Lecture Series -
1 West

Speaker: P. Langacker, Fermilab/
University of Pennsylvania

Title: Tests of the Electroweak Theory -
Lecture 1

3:30 p.m. Director's Coffee Break -
2nd Flr X-Over

4:00 p.m. Accelerator Physics and
Technology Seminar - 1 West

Speaker: J. Cary, University of Colorado

Title: Advances in Self-Consistent
Electromagnetic Modeling

Wednesday, December 7

3:30 p.m. Director's Coffee Break -
2nd Flr X-Over

4:00 p.m. Fermilab Colloquium - 1 West
Speaker: R. Scherrer, Vanderbilt
University

Title: Science and Science Fiction

Note: There will be no Fermilab ILC R&D
Meeting Today

Weather



Snow Flurries **15%0°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

CERN, Fermilab to Launch Hadron Collider Schools



This is an aerial view of CERN in Geneva, Switzerland, the future site of the Large Hadron Collider.

Fermilab and CERN will sponsor a series of Hadron Collider Physics Summer Schools, with the goal of offering students and young researchers a view of the theoretical and experimental aspects of hadron collider physics. The Fermilab school will take place on August 9-18, 2006 with Program Planning head Jeff Appel and theoretical physicist Bogdan Dobrescu as co-directors. The school at CERN will be held in the summer 2007.

The idea is to prepare young researchers for current and anticipated challenges at hadron colliders, such as the LHC and the Tevatron, Appel said. "There are people who have been working on LHC experiments for more than a decade and neither they nor their students and postdocs have had the opportunity to experience and learn firsthand from real data," he said. "There are techniques, and more importantly, a way of looking at things that you just don't get trained for with simulated data."

Fermilab's school enrollment will be

Director's Corner

Slippery Ice



Last week we had an unfortunate accident on our site when a person walking at night, in poor lighting, slipped on a patch of ice, fell and broke her wrist. I am learning, after living in the temperate Bay Area for the past three decades, to walk on ice myself. My ability to keep in balance is directly proportional to the attention I pay and inversely proportional to the hurry I am in.

I would like to understand what we can do to avoid accidents like this. Part of the responsibility to avoid such accidents rests clearly with the laboratory, to maintain walkways cleared and well lit. But it is impossible in a climate like ours to clear, sand or salt every patch where an individual may walk. Individual responsibility is the other essential component to being safe: we watch out for our own safety and the safety of others.

Each injury accident adds to the Total

Tuesday, December 6

- Tomato Bisque
- Lemon Pepper Club
- Burgundy Beef Tips
- Baked Fish Creole over Rice
- Grilled Chicken Caesar Wrap
- Supreme Pizza
- Rio Grande Taco Salads

The Wilson Hall Cafe accepts Visa, Master Card, Discover and American Express at Cash Register #1.

[Wilson Hall Cafe Menu](#)

Chez Leon**Wednesday, December 7****Lunch**

- Shrimp
- Roasted Red Peppers with Spinach
- Tortellini in Cream Sauce
- Lingonberry Cheesecake

Thursday, December 8**Dinner**

- Shrimp Bisque
- Quail in Pear
- Wild Rice w/Pecans & Currants
- Multicolor Julienne of Peppers
- Cranberry Cake

[Chez Leon Menu](#)

Call x4512 to make your reservation.

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limited to 100 students, Appel said, to "maintain a small-school atmosphere where students will feel free to ask questions and interact with instructors and each other." A series of lectures and informal discussions will provide an overview of hadron collider physics and underlying theory and develop a common language. Participants also will learn about data analysis using examples of physics analyses drawn from the current Tevatron experience. "Data is always trying to tell you things that you have to be receptive to hear," Appel said. "So you want to be trained to hear and to know how to ask the appropriate questions."

For more information about the schools, visit [the Website](#). Further details will be posted as they become available.

—Kendra Snyder

Milestones

Fermilab's Office of Public Affairs intern, Kendra Snyder (shown above in front of the DZero detector), finished her term Friday, December 2 after a job well done. Good luck Kendra; we will miss you! (Click on image for larger version.)

In the News

Recordable Cases (TRC), which is one of the safety measures for the laboratory. We had an outstanding record last year, but expectations are always being raised, and it will be a great challenge for us to achieve the levels that DOE has set for our laboratory in the future. It would seem that in a climate like ours we are doomed to do worse than other laboratories that do not have patches of ice to slip on. Our challenge is to use these patches of slippery ice to our advantage.

One way to do this is to regard these patches of slippery ice as reminders of not only the immediate hazards but also other hidden hazards we may have to contend with. Only yesterday *Fermilab Today* carried a safety tip on the hidden hazards of super glue. If every time we encounter a patch of ice we have "a moment of safety," we will improve our ability to navigate the ice and also train ourselves to be more safety conscious.

Accelerator Update**December 2 - 5**

- The TeV B1 mechanical and cryo system sign offs should occur by noon on Monday.
- The TeV B1 cooldown will start shortly after the sign offs.
- The TeV B1 separator bakeout should finish on Tuesday.

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

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

Send comments and suggestions to today@fnal.gov

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From *Wired Magazine*, December 1, 2005: The Cyclotron Comes to the 'Hood

Albert Swank Jr., a 55-year-old civil engineer in Anchorage, Alaska, is a man with a mission. He wants to install a nuclear particle accelerator in his home.

But when neighbors learned of plans to place the 20-ton device inside the house where Swank operates his engineering firm, their response was swift: Not in my backyard...

..."Cyclotrons are not nuclear reactors," explains Roger Dixon of the Fermi National Accelerator laboratory or Fermilab in Illinois, funded by the U.S. Department of Energy. "Probably the worst thing that could happen with small cyclotrons is that the operator might electrocute themselves."

At Fermilab, Dixon oversees the world's highest-energy collider, about four miles in circumference. It smashes matter and antimatter together so scientists can study the nature of energy.

[Read More](#)

Fermilab Singers

Mark your calendars for December 15! The Fermi Singers are preparing a winter concert for your listening pleasure. It will be at noon in the Ramsey Auditorium - just 30 minutes and treats to follow!

Scottish Country Dancing

Scottish Country Dancing will meet tonight, December 6, at Kuhn Barn on the Fermilab site. Instruction begins at 7:30 p.m. and newcomers are always welcome. Most dances are fully taught and walked through, and you do not need to come with a partner. Info at 630-840-8194 or 630-584-0825 or folkdance@fnal.gov.

Blood Drive

Mark your calendars! Fermilab's blood drive will be held on December 12 and 13 from 8 a.m. to 2 p.m. at Wilson Hall, Ground Floor NE Training Room. Appointments can be scheduled on [the web](#) or by calling Lori at x6615. A prize drawing will be held for all donors.

[Upcoming Activities](#)