

Calendar

Wed., March 14

11:00 a.m. Fermilab ILC R&D Meeting - 1 West
 Speaker: P.J. Hewett, Stanford Linear Accelerator Center
 Title: Recent Studies of New Physics Sensitivity and Background Rejection with the SiD Detector at the ILC

12:00 p.m. Wellness Works Brown Bag Seminar - Curia II
 Speaker: B. Hatipoglu (Medical Doctor)
 Title: A Healthy View of Diabetes

2:00 p.m. Special Accelerator Physics and Technology Seminar - Curia II
 Speaker: D. Marreiro, Illinois Institute of Technology
 Title: The Efficient Particle-Based Simulation of Ion Channels

3:30 p.m. DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

4:00 p.m. Fermilab Colloquium - 1 West
 Speaker: C. Forest, University of Wisconsin, Madison
 Title: Turbulent Liquid Metal Dynamo Experiments

Thurs., March 15

1:00 p.m. ALCPG ILC Physics and Detector Seminar - West Wing WH-10NW

Speakers: J. Brau, University of Oregon and H. Weerts, Argonne National Laboratory
 Title: The Five Year US Detector R&D Plan

2:30 p.m. Theoretical Physics Seminar - Curia II
 Speaker: N. Arkani-Hamed, Harvard University
 Title: Quantum Black Holes and the Standard Model's Landscape

3:30 p.m. DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

Feature

Habitat restoration volunteer day on Saturday, March 17

This article is the second in a four-part Fermilab Today series on lab ecology.



Students from Marmion Academy joined Fermilab's Marilyn Dixon, Martin Valenzuela and Barbara Kristen for a habitat restoration day.

This Saturday, the first Habitat Restoration Volunteer Day of 2007 will be held on Fermilab grounds. The goal of this group is to remove non-native plants from the natural areas around Fermilab, focusing on disturbed areas where invasive plants are likely to grow.

The group works on the pathway between Wilson Hall and the Lederman Science Education Center, removing invasive shrubs and small trees. This area is especially vulnerable because even small disturbances to natural areas, such as walking paths, can create a void that is quickly invaded by non-native plants. The remnants are piled up in the wooded areas, providing shelter for wildlife and eventually returning their nutrients to the soil. "We clear things like honeysuckle and buckthorn, which are not native to Illinois," said project leader Barbara Kristen, who works in Fermilab's Particle Physics Division. "We want to make room for our native species, which are so beautiful."

Kristen and fellow project members Martin Valenzuela and Bob Lootens, both of Roads and Grounds, have all undergone training to become environmental stewards. The training allows them to lead groups in the removal of non-native species. The volunteer day, now in its fifth year, provides an opportunity for the public to learn how to recognize which plants are native and which are invasive. "Martin is especially good at teaching people to identify

From the Technical Division

Meeting expectations

Today's column is written by Roger Dixon, head of the Accelerator Division.

My first attempt at writing a column this week failed: it turned out to be incomprehensible. This happens sometimes. But solving problems and coming up with quick solutions that meet deadlines and expectations is something that we all are familiar with. Instead of an ambitious fairy tale, I wrote something simple.



Roger Dixon

The Accelerator Division is excited to be a part of the Higgs and supersymmetry searches at the Tevatron. I know that none of us should be paying any attention to the recent articles that have appeared concerning possible signals. As the articles preach, it is way too early to get excited, but I can't help it. I have been excited since the day I stumbled onto this place on my way across the galaxy. We will definitely do our best in the AD to make certain that the experiments have the best opportunity to make important discoveries.

In addition to Tevatron operations, there is an abundance of other projects going on at the Accelerator Division. Of course, everyone already knows about the proposed International Linear Collider and the contributions Fermilab makes to the design as well as R&D needed for this machine. But we are also exploring the possibility of a muon collider and an intense proton source. On a shorter time scale, we are working on increasing the intensity of our proton beams for neutrino experiments here at Fermilab.

There are plenty of possibilities. It is necessary to pick a path carefully in order to keep accelerator-based physics alive and well in this country. We at Fermilab are in a good position to lead the way.

Special Announcement

4:00 p.m. Accelerator Physics and Technology Seminar - 1 West
 Speaker: S. Antipov, Argonne National Laboratory
 Title: Metamaterial-Loaded Waveguides for Accelerator Applications

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

Weather



Chance of Showers

59°/35°

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

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Wednesday, March 14

- Italian wedding with meatballs
- Diner style patty melt
- Chicken a la Mer
- Mongolian beef
- Greek chicken panini w/feta cheese
- Assorted slice pizza
- Chicken w/pesto cream

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, March 14 Lunch

- Beef Fajitas
- Pico de Gallo
- Rice and Beans
- Rum Pecan Cake

Thursday, March 15 Dinner

- Fontina and Prosciutto Crepes
- Scampi with Fettuccine
- Apricot Tart

[Chez Leon Menu](#)

Call x4598 to make your reservation.

Archives

plants," said Kristen.

"I grew up in a small town, so I always wanted to be outside," Valenzuela says. "I do this because there are so many benefits that come with preserving wildlife - what's not to like about the blooming and the butterflies?"

The group encourages anyone who has a love for nature and enjoys fresh air to join the effort this Saturday. Families are especially welcome. The group will meet at the Lederman Science Education Center for coffee and doughnuts at 9:00 a.m. and will wrap up work no later than noon.

[Learn More](#)

--Christine Buckley



[Marilyn Dixon clears brush from disturbed areas near the Lederman Science Center.](#)

Readers Write

NALWO German cooking demonstration



Dear FT:

On March 12, NALWO hosted a German Cooking Demonstration presented by Selitha Raja, Claudia Schaefer, Angela Jostlein and Petra Naujokat. It was well attended and interesting, and the luncheon was delicious! Thank you, ladies.

--Georgia Schwender,
 Fermilab Art Gallery Curator

Ron Lutha leaving Fermilab to be new Argonne site manager



[DOE Deputy Site Manager Ron Lutha has worked at Fermilab for 15 years.](#)

Fermilab's DOE Deputy Site Manager, Ron Lutha, will be moving to Argonne National Laboratory this Monday to become the new DOE Site Manager there. A 30-year veteran of DOE, Ron has been the Deputy Manager for the Fermi Site Office since 2004. Before coming to Fermilab, Ron worked for 10 years at the Argonne Site Office. He also served as DOE Project Manager for the Fermilab Main Injector, Neutrinos at the Main Injector (NuMI), CZero and B-Particle Physics at the Tevatron. "This is a tremendous, well-deserved opportunity for Ron and great for the Office of Science organization," said Joanna Livengood, DOE Fermi Site Office Manager.

"Each lab has its key points that make it unique," Lutha said. "I'll really miss all the very fine people at Fermilab, and I hope to maintain all these wonderful friendships I've made here."

Join Ron for a send-off party tomorrow from 2:00-3:30 p.m. in Wilson Hall 6 East. Refreshments will be served.

Announcements

[Fermilab Today](#)[Result of the Week](#)[Safety Tip of the Week](#)[ILC NewsLine](#)**Info**

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

Send comments and suggestions to:
today@fnal.gov

Press Release - SLAC

New Form of Matter-Antimatter Transformation Observed for the First Time

March 13, 2007

Menlo Park, CA—For the first time, scientists of the BaBar experiment at the Department of Energy's Stanford Linear Accelerator Center (SLAC) have observed the transition of one type of particle, the neutral D-meson, into its antimatter particle. This observation will now be used as a test of the Standard Model, the current theory that best describes all the universe's luminous matter and its associated forces.

"Achieving the large number of collisions needed to observe this D-meson transition is a testament to the tremendous capabilities of the laboratory's accelerator team," said SLAC Director Jonathan Dorfan. "The discovery of this long-sought-after process is yet another step along the way to a better understanding of the Standard Model and the physics beyond."

[Read More](#)

String Theory: Brian Greene and Lawrence Krauss Debate

Is all of nature really made up of tiny bits of vibrating strands of energy? The controversial string theory could bridge the gap between classical and quantum physics, and could explain some of the universe's biggest questions, such as the origin of space and time. Critics, however, say the theory has no empirical foundation. The DOE Office of Science and the Smithsonian Institution will co-sponsor a debate between string theory proponent Brian Greene and skeptic Lawrence Krauss on Wednesday, March 28 at 7:00 p.m. at the National Museum of Natural History in Washington, D.C. The debate will be moderated by University of Chicago cosmologist Michael Turner. Tickets are \$25 general admission. Call 202-357-3030 or visit the [website](#) for details.

Brown Bag Seminar on Diabetes Care

Betul Hatipoglu, director of the Pancreas-Islet Transplantation Program for the University of Illinois at Chicago, will present a Brown Bag Seminar on advances in diabetes care. The seminar will be held today in Curia II from noon to 1:00 p.m.

Professional Development

New classes are always being added to the professional development schedule. For the most up-to-date course offerings, go to the [web page](#).

Folk Club Barn Dance

The Fermilab Folk Club will host a barn dance this Sunday, March 18 at 2:00 p.m. with music by the Joe Samojedny & Fred Campeau and calling by Paul Tyler.

[Learn more](#)

Upcoming Activities