

Calendar

Wednesday, October 25

11:00 a.m. Joint Fermilab ILC R&D

Meeting / Research Techniques Seminar
(note location) - Curia II

Speaker: C. Piemonte, ITC-irst, Trento

Title: Development of Silicon

Photomultipliers at ITC-irst

Speaker: N. Dinu, INFN, Trento

Title: Measurement of the Photodetection
Efficiency of SiPMs at ITC-irst

3:30 p.m. Director's Coffee Break - 2nd
floor crossover

4:00 p.m. Fermilab Colloquium - 1 West
Speaker: J. Golbeck, University of
Maryland

Title: Social Networks, the Semantic
Web, and the Future of Online Scientific
Collaboration

Thursday, October 26

2:30 p.m. Theoretical Physics Seminar
- Curia II

Speaker: B. Lillie, Argonne National
Laboratory

Title: Extra Dimensions and High pT
Tops at the LHC

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

THERE WILL BE NO ALCPG ILC
PHYSICS AND DETECTOR SEMINAR
THIS WEEK

THERE WILL BE NO ACCELERATOR
PHYSICS AND TECHNOLOGY
SEMINAR TODAY

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

Physicist wins Panofsky Prize for research at Fermilab



Former Fermilab user and University of
Chicago professor Bruce Winstein won the
2007 Panofsky Prize for his work at KTeV.

Former Fermilab researcher Bruce Winstein received the American Physical Society's 2007 Panofsky Prize along with Italo Mannelli of University of Pisa (INFN), and Heinrich Wahl, of the University of Ferrara (CERN). The award was given to the three physicists for discovering "direct CP violation" in particle decays--subtle differences between matter and their antimatter counterparts. Observing these slight differences is important because it may help explain why antimatter does not naturally exist in the universe, while matter is abundant. This question has puzzled physicists since antimatter was first detected in 1933.

From the Accelerator Division

Encouraging excellence

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

This past week I had the opportunity to serve as a judge for the Siemens-Westinghouse Science and Technology Competition for the 8th



Roger Dixon

year in a row. During an intense four days in Princeton, New Jersey, a panel of about 50 judges from all scientific disciplines selects the regional finalists. In the process we sort through more than 1000 papers describing science projects done by high school students from all over the United States. The competition is fierce and the projects seem to get better every year. It is an incredible experience for the judges, renewing our faith in the future. For the students, the rewards can be significant, with the winners of the individual and the team competitions receiving \$100,000 scholarships. In addition, there are many smaller awards for all of the highly-ranked projects. This is an incredible commitment to excellence and to our future scientists and engineers that is made each year by the Siemens Foundation.

Upon my return to the laboratory, I had to shift gears quickly because we were having a difficult time with the accelerator complex. The Tevatron was down for repairs after a pesky mouse caused a

WeatherPartly Cloudy **51°/37°**[Extended Forecast](#)[Weather at Fermilab](#)**Current Security Status**[Secou Level 3](#)**Wilson Hall Cafe****Wednesday, October 26**

- Italian Wedding with Meatballs
- Diner Style Patty Melt
- Chicken a la Mer
- Mongolian Beef
- Greek Chicken Panini with Feta Cheese
- Assorted Slice Pizza
- Chicken with Pesto Cream

[Wilson Hall Cafe Menu](#)**Chez Leon****Wednesday, October 25**

- Seafood Crepes with Sherry Sauce
- Field Greens with Raspberry Vinaigrette
- Lemon Yogurt Cake

Thursday, October 26**Dinner**

Booked

[Chez Leon Menu](#)

Call x4598 to make your reservation.

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The prize is given for outstanding efforts made over a substantial part of a physicist's career. Winstein, a University of Chicago professor, received the 2007 award for his work during the 80s and 90s at the Fermilab Tevatron, which culminated with the KTeV experiment. KTeV recorded and precisely compared millions of kaon and antikaon decays. In 1999, KTeV found that kaons and antikaons decayed to the two pion final states at slightly different rates--definitively showing that matter and antimatter behave differently when they decay. "The fact that we could find out something important about nature was very satisfying," said Winstein, who is currently working on a cosmology experiment dealing with cosmic microwave background radiation. "It was certainly an important event in my life and the life of many of the experimenters." Mannelli and Wahl worked on the NA48/2 experiment at CERN, which investigated the same topic.

Winstein was a KTeV spokesperson from 1992 to 1998. He made crucial contributions to the design and construction of KTeV, and to data analysis after KTeV started running. "Bruce was the intellectual father of the kaon physics program at the Tevatron," said Bob Tschirhart, who worked on the experiment with Winstein and now leads continuing KTeV data analysis efforts with Ed Blucher of the University of Chicago. "It's hard to say enough good things about Bruce's grasp of physics. It was really special to have a leader with such a great understanding of both the underlying theory and experimental techniques."

power glitch that resulted in a quench that damaged two magnets. It is always a gratifying experience to watch the dedicated and talented people in the AD bring the complex beast back to life. When I arrived, AD people had been working around the clock for several days, and the repairs were nearing completion. I could not help but compare the incredible efforts I see routinely at our laboratory to the superb efforts of the Siemens competitors. These quality efforts occur in all of our divisions and sections and in the work of our users. The people who make these efforts are a vital resource. If our laboratory and our country are to meet the challenges of the future, it is crucial that laboratory management, our funding agencies, and everyone in leadership positions all the way up the chain to the President encourage this excellence by making a commitment to the dedicated people who routinely make these extraordinary efforts. Excellence must be nurtured. It does not result from filling out forms.

Announcements**International Folk Dancing**

International Folk Dancing will not meet this Thursday, October 26, but everyone is invited to come to a joint Scottish and International dance Halloween party on Tuesday, October 31, at the Barn. Costumes and treats are optional. Newcomers are welcome and you do not need to come with a partner. International Folk Dancing will meet again Thursday, November 2, as usual. On November 9, there will be a special workshop on Serbian dances taught by Dennis Boxell and Marko Vukadinovic at 7:30 p.m. in the Barn. Info at 630-584-0825 or 630-840-8194 or folkdance@fnal.gov.

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--Siri Steiner



Experimenters from University of Chicago outside of KTeV Hall in 1996. Winstein is on the far right.

In the News

***The Register,* October 24, 2006:**

Scientists catch exotic new particles

Researchers working at the Fermilab particle accelerator in the US have discovered two new kinds of particle, exotic relatives of the common-or-garden proton and neutron.

Dr Todd Huffman of the University of Oxford, one of the UK scientists in Collider Detector at Fermilab (CDF), said although the particles have been predicted by theory, they haven't been seen before.

[Read More](#)

A Taste of Taiwan

CDF physicists are organizing a get-together with Taiwanese food and music on Thursday, October 26, from 6:30 p.m. to 9:00 p.m. in the Kuhn Barn. "There will be free Taiwanese food," said organizer Shin-Shan Eiko Yu. "We will also provide some travel information, play traditional Taiwanese music, and display news clips about Taiwan."

GSA Halloween Party

GSA will have its annual Halloween party in the Kuhn Barn on Friday, Oct 27 at 7:30 p.m. Come, hang out and enjoy snacks and beverages and candy. You can wear your favorite Halloween costume for a shot at a prize and join in the pumpkin carving contest! RSVP to kendallm@phys.columbia.edu.

UNIX user meeting

There will be a UNIX user meeting today, October 25, in Curia II at 1:00 p.m.

Give an old coat to someone who needs it

Jeannette Olah of Roads and Grounds is collecting winter coats to deliver to a local non-profit homeless shelter. She needs gently used coats for adults and children. If you have an old coat that you are willing to part with, please drop it by Jeannette Olah's office at Site 37, Roads and Grounds before November 2. You can reach her at 404-0699 if you have any questions.

[Upcoming Activities](#)