Fermilab Today

Tuesday, October 4, 2005

Calendar

Tuesday, October 4

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

Note: There will be no Accelerator Physics and Technology Seminar today

Wednesday, October 5

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

4:00 p.m. Fermilab Colloquium-1 West

Speaker: P. Davies, Macquarie University

Title: Multiverse Cosmological Models and the Anthropic Principle

Note: There will be no Fermilab ILC R&D meeting this week

Weather

Chance of Storms **87º/68º**

Extended Forecast

Weather at Fermilab

Current Security Status

Secon Level 3

Wilson Hall Cafe

Tuesday, October 4

- Chicken and Rice Soup
- Mushroom Swiss Burger
- Baked Meatloaf with a Roasted Tomato Demi-Glace
- Parmesan Baked Fish
- Peppered Beef
- Ham and Pastrami Calzones
- South of the Border Burritos with Chips and Queso

The Wilson Hall Cafe accepts Visa,

World Year of Physics Symposium this Saturday

Tickets are still on sale for this Saturday's World Year of Physics Symposium for Students and Teachers, where physicists will honor the past and describe the future of their field from 8 a.m. to 3:15 p.m. in Ramsey Auditorium. The Education Office is hosting the event in honor of the World Year of Physics, an international celebration marking 100 years since Albert Einstein penned revolutionary papers on the theory of special relativity, quantum theory and Brownian motion. "We want to celebrate the 100 years since Einstein's miraculous year and reflect on that," said Spencer Pasero, of the Education Office. "But even more than that, we want to talk about the great physics that's happening today and what's coming."

Speakers include Nobel Laureate Leon Lederman, of the Illinois Math and Science Academy, and Fermilab Director Pier Oddone in addition to several high-energy scientists representing Fermilab and universities from across the nation. Topics range from historical reflections on Einstein's discoveries to dark energy, the relationship between space and time and the future of Fermilab. "We want to let people know that physics didn't end in 1905," Pasero said. "It's still going quite strong and the most exciting stuff is yet ahead of us."

Although the symposium is geared toward students of high-school level or higher, Pasero said the event will satisfy the curiosity of anyone with an interest in

Director's Corner

Pier Oddone in front of a Korean bullet train (Click on image for larger version.)

As the 300km/hr bullet train between Daegu and Seoul slows down to enter the station, you see a sign on the side of the locomotive, "Dynamic Korea," which appropriately describes a country on the move. The dynamism of the Korean economy is well known. Exports this month reached an all time record. Last weekend Seoul celebrated completion of a world-class urban renewal project, restoring a river bed buried 50 years ago. The river once again runs free, with paths alongside to provide a quiet reprieve from the hustle and bustle of the city. In the south, the Poohan Light Source is a world-class, third-generation light source enabling a broad range of scientific research. The level of energy is palpable from the most traditional markets to the ultramodern facilities and industries that define the country.

High energy physics in Korea is no exception to this dynamism. At the ICFA

Master Card, Discover and American Express at Cash Register #1.

Wilson Hall Cafe Menu

Chez Leon

Wednesday, October 5

Lunch

-Ancho Fried Pork

-Moroccan Sweet Potatoes

-Apple Strudel

Thursday, October 6

Dinner

-Curried Squash

-Grilled Duck with Red Wine and Fig Sauce

-Wild Rice with Raisins

-Almond Orange and Olive Oil Cake

Chez Leon Menu

Call x4512 to make your reservation.

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physics. A continental breakfast will be provided and refreshments will be served during breaks. Scientists from Fermilab's Ask-a-Scientist program answer questions during breaks and after presentations. Tickets cost $5. To register, visit the website or call Nancy Lanning at 630-840-5588.

—Kendra Snyder

In Memoriam: Leonid Grigor'evich Landsberg

Leonid Landsberg, a longstanding Fermilab user, passed away in Protvino, Russia after a long illness.

Leonid was the leader of the IHEP Protvino group in the SELEX (E781) Fermilab experiment, and several precision kaon physics experiments and proposals in the US over a period of more than twenty years. He also led SPHINX, the hadron spectroscopy experiment at IHEP where, in addition to many physics results, a generation of physicists was trained. A strong physics tradition was apparent in every aspect of his professional work. His experience and leadership were always demonstrated by raising the right questions to elucidate the real problems in designing new experiments and improving the current experiments. He was an exceptionally well-read physicist, and excelled in formulating the physics motivation of his proposals.

Nikolai Tyurin, Director of the IHEP, observed that "Leonid Grigor'evich Landsberg was a talented experimentalist

meeting this past week in Kyungpook University in Daegu, Professor Dongchul Son described the current status of Korean High Energy Physics and Korean dreams for the future. From a small beginning in cosmic ray physics in the 1950s there is now a thriving community of some 300 experimentalists, theorists and accelerator physicists across forty institutions. Among other projects, Korean physicists are major collaborators in accelerator-based experiments in Belle and T2K in Japan, CDF in the US and CMS in Europe. At FNAL there is also participation in D0. In addition there is an active program in non-accelerator based experiments with participation in the Antimatter Magnetic Spectrometer (AMS) and Cosmic Ray Energetics and Mass (CREAM) experiments and with a domestic deep underground Dark Matter Search.

The future will bring both continued international participation and the development of a national laboratory. On the international front, Korea will have a vigorous participation in the International Linear Collider. It is also planning to develop domestic facilities for an underground laboratory and a high intensity proton source for long baseline neutrino experiments. We at Fermilab share with Korean physicists very similar dreams. This augurs well for our continuing and expanding collaboration.

Accelerator Update

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and one of the key figures at IHEP. He supported a really creative and scientific atmosphere and helped to grow a few generations of young physicists".

Over the last few years, Leonid was in residence at Fermilab a significant fraction of the time and took an active part in the physics life of Fermilab. He was seen and often "heard" in the "Wine and Cheese" seminars here. His questions were often not easily answered, but more than often appreciated.

Leonid made many contributions to the Fermilab and particle physics community, not the least of which includes his son Professor Gregory Landsberg of Brown University and the DZero collaboration.

In the News

The Royal Swedish Academy of Sciences Press Release, October 4, 2005:

The 2005 Nobel Prize in Physics

The Royal Swedish Academy of Sciences has decided to award the Nobel Prize in Physics for 2005 with one half to Roy J. Glauber Harvard University, Cambridge, MA, USA "for his contribution to the quantum theory of optical coherence" and one half jointly to John L. Hall JILA, University of Colorado and National Institute of Standards and Technology, Boulder, CO, USA and Theodor W. Hänsch Max-Planck-Institut für Quantenoptik, Garching and Ludwig-Maximilians-Universität, Munich, Germany "for their contributions to the development of laser-based precision spectroscopy, including the optical frequency comb technique".

Read More

September 30 - October 3

- During this 72 hour period, two stores provided 30 hours and 29 minutes of luminsoity.
- NuMI Horn ground faulted
- Two TeV quenches during shot setup
- Recycler stash lost
- TeV separator problems

Read the Current Accelerator Update
Read the Early Bird Report
View the Tevatron Luminosity Charts

Announcements

World Year of Physics Symposium

Saturday, October 8 at Fermilab.
More Information

Women's Organization Luncheon

There will be plenty of food and lively conversation at the NALWO Annual Autumn Luncheon Monday, October 17.

Upcoming Activities