

Calendar

Friday, January 20

12:00 p.m. Wellness Works Brown Bag Seminar - 1 West
 Speaker: M. Kinzler (Registered Dietitian, Licensed Dietitian)

Title: Eating for Good Health

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

4:00 p.m. Joint Experimental Theoretical Physics Seminar - 1 West
 Speaker: G. Watts, University of Washington

Title: New Results on Properties of the Top Quark

8:00 p.m. Fermilab Lecture Series - Auditorium

Tickets: Adults \$5

Speaker: Rocky Kolb, Director, Fermilab
 Title: Einstein's Cosmic Legacy

Monday, January 23

2:30 p.m. Particle Astrophysics Seminar - Curia II
 Speaker: A. Mesinger, Columbia University

Title: Probing Reionization and Early Structure Formation

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

4:00 p.m. All Experimenters' Meeting - Curia II
 Special Topic: CDF Upgrade Completion

Weather

Neutron Therapy Facility Resumes Treating Patients

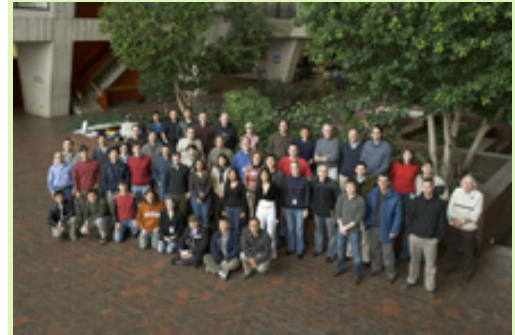


Some members of the NIUINT staff (left to right): Arlene Lennox, Dr. Katherine Baker, and Mark Austin. Dr. Kurubarahalli Saroja is not pictured. (Click image for larger version.)

The Northern Illinois University Institute for Neutron Therapy at Fermilab (NIUINT at Fermilab) has resumed treating patients this month, welcoming two new staff members after a 9-month hiatus. Dr. Katherine Baker was named as the new medical director. Dr. Kurubarahalli Saroja, who worked at the facility between 1985 and 1993, will be assisting and advising Dr. Baker. Both physicians are members of Nuclear Oncology Service Corporation, which agreed to provide clinical services beginning December 2005. The neutron facility has also undergone an extensive series of upgrades over the past 5 years thanks to grants secured by Speaker of the U.S. House of Representatives Dennis Hastert, who represents the Illinois 14th Congressional District, encompassing the Fermilab site. The upgrades included an updated waiting room, automated doors, and new treatment equipment.

The most important upgrade was the installation of the vertical CT scanner,

J-term at Fermilab Prepares the Next Generation for LHC



About seventy students attended J-term last week. (Click image for larger version.)

Last week at Fermilab, graduate students from across the country filed into Wilson Hall as J-term, a January-only "semester" that many universities have, got underway. J-term was a three-day workshop organized by the LHC Physics Center at Fermilab, designed to help physics students learn more about experimental aspects of the Large Hadron Collider at CERN. The workshop focused on the Compact Muon Solenoid, one of four detectors to be positioned in the new collider.

"Many of the university courses in physics are purely theoretical," said Sarah Eno, the co-head of the LHC Physics Center, which organizes a variety of workshops and training courses about the Large Hadron Collider. "Very few give details or address the technology of the detector that students will need if they are going to work on the frontier of experimental high-energy physics."

Eno says that providing a more solid background in the "nuts and bolts" of the LHC to the younger generation is



Rain/Snow 40°/23°

[Extended Forecast](#)[Weather at Fermilab](#)**Current Security Status**[Secou Level 3](#)**Wilson Hall Cafe****Friday, January 20**

- Cream of Wild Mushroom
- Blackened Fish Filet Sandwich
- Southern Fried Chicken
- Fish Mediterranean
- Eggplant Parmesan Panini
- Pizza Supreme
- Assorted Sub Sandwich

[Upcoming Menu](#)**Chez Leon****Wednesday, January 25****Lunch**

- Poached Salmon with Scallion Sauce
- Vegetable Medley
- Long Grain Rice
- Yogurt Cake with Raspberry Sauce

Thursday, January 26**Dinner**

- French Onion Soup
- Grilled Swordfish with Tomato White Butter Sauce
- Broccoli with Lemon Zest
- Saffron Rice
- Marzipan with Chocolate Sauce

[Chez Leon Menu](#)

Call x4512 to make your reservation.

Search

said Arlene Lennox, medical physicist and technical director of NIUINT at Fermilab. "It's the only vertical CT scanner in the country. We use it for treatment planning purposes because our patients are treated either sitting or standing. Previously we had to use CT scan images done at a hospital with the patient lying down," said Lennox. "With an upright scan, the tumor is exactly in the treatment position."

The Neutron Therapy Facility opened in 1976. The facility did many studies in the 1980s and determined that a number of cancers resistant to conventional radiation, which uses electron, proton, or photon beams, could be successfully treated with neutron therapy. Northern Illinois University undertook operations and administration of the facility in 2004. NIUINT at Fermilab will continue to treat salivary gland tumors, advanced prostate cancer, head and neck cancers, melanoma, and sarcomas. Future studies will examine the effectiveness of neutron therapy in treating advanced brain tumors.

—*Dawn Stanton***ILC NewsLine****Role of the LHC/ILC Study Group**

Since spring 2002, a working group chaired by UK theorist Georg Weiglein (IPPP, Durham) has been working out how to



strengthen the interplay between the LHC and the ILC and how the physics outcome of both machines can be optimized. "The

essential. "This generation did not build the detector," she said. "But they will be the ones who have to operate it." About seventy graduate students attended the J-term workshops to bone up on everything from hadronic calorimetry to the mechanics of the CMS tracking system. "We had a good turnout," said Eno. "Students came from all across the country."

Fermilab and CERN are planning summer school workshops devoted to LHC physics from August 9-18, 2006. You can find more information [here](#).

—*Siri Steiner***Announcements****Habitat Restoration**

Do you love seeing the flowers and grasses come up in the spring in the Fermilab prairie? Help out the Habitat Restoration group this Saturday, January 21, by volunteering to sow seeds that were harvested from the prairie last fall. The group will meet at 9 a.m. in the Lederman Science Center parking lot. The Habitat Restoration group meets the third Saturday of every month, weather permitting. Please see their [Website](#) for more information.

Standard Mileage Reimbursement Rate

The Internal Revenue Service and the General Services Administration have issued the 2006 standard mileage reimbursement rates as 44.5 cents per mile, effective January 1, 2006. Please contact the Fermilab Accounting Dept. at x3980 with any questions.

Pheasant Run Outing

The Fermilab Recreation Office offers an adult outing with buffet dinner and

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[Gudrid Moortgat-Pick](#) combined studies carried out by the LHC/ILC Study Group open up a new kind of phenomenology", said CERN theorist and member of the group Gudrid Moortgat-Pick. At the Large Hadron Collider, most of the collision processes will arise through the strong force and will produce strongly interacting particles which decay, for instance into electroweak particles. The latter particles will further decay, giving rise to a cascade. The masses of the involved particles can then be related to kinematical distributions of the decay cascade.

[Read More](#)

In the News

**From *The AIP Bulletin of Science Policy News*,
January 18, 2006:
Brookhaven Receives Outside
Funding for RHIC**

Brookhaven National Laboratory Director Praveen Chaudhari has announced a \$13-million private contribution that will enable the Relativistic Heavy Ion Collider (RHIC) to operate for 20 full weeks this year. The money was raised by Jim Simons, a member of the Board of [Brookhaven Science Associates](#), which manages and operates the laboratory.

This is a remarkable change in this year's outlook for RHIC, which under the FY 2006 Energy and Water Development Appropriations Bill was being forced to postpone its run until late this year.

[Read More](#)

theater. Pheasant Run Resort & Spa presents "Accomplice" by Rupert Holmes, Saturday, March 4. The price of \$35.00/person includes the dinner buffet and theater, taxes and gratuity. Call or stop by the Recreation Office x5427, x2548 to pick up a brochure and registration form. Deadline is February 17. More information can be found on the Recreation [Web page](#).

Upcoming Classes

January 31: Adobe Acrobat 7.0 Professional

February 1: Excel Shortcuts

February 7: Interpersonal Communication Skills for Tech & PC Staff

February 14 and 16 (morning):

Creating RPMs

Feb 20 - 22: Python Programming

March 1: Word Tips, Tricks and Techniques

March 6: Interpersonal Communication Skills for Tech & PC Staff

March 7, (morning): Excel Pivot Tables

March 7, (afternoon): Word Mail Merge

March 8: Excel 2003 Advanced

March 14: Excel Power User / Macros

March 21 and 22: Intro to Dreamweaver MX

March 28 and 30 (morning): Creating RPMs

[More Information](#)

New [classified ads](#) have been posted on Fermilab Today.

[Upcoming Activities](#)