

## Calendar

### Monday, October 17

**2:30 p.m.** Particle Astrophysics Seminar  
- Curia II

Speaker: A. Hamilton, University of Colorado

Title: Inside (Classical) Black Holes

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

**4:00 p.m.** All Experimenters' Meeting -  
Curia II

**6:00** UTeV Lecture - 1 West

Speaker: E. Kolb, Fermilab

Title: Dark Matter

### Tuesday, October 18

**12:00 p.m.** Screening of the Nova  
Program "Race for the Top" - 1 West

**2:30 p.m.** Theoretical Physics Seminar  
(NOTE DATE) 1 - West

Speaker: S. Dutta, Delhi University

Title: Anomalous Gauge-Boson and  
Higgs-Boson Couplings

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

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

## Weather



Chance of Rain **74°/50°**

[Extended Forecast](#)

[Weather at Fermilab](#)

## Current Security Status

[Secou Level 3](#)

## Wilson Hall Cafe

## New GSA Officers Ready to Represent, Unite Students



The new Graduate Student Association

Officers, front row from left to right: Alexis Aguilar-Arevalo, Jim Degenhardt, Cristobal Cuenca Almenar. Back row, from left to right: Tuula Maki and Leah Welty-Rieger. (Click on image for larger version.)

Fermilab's Graduate Student Association has elected five new officers to voice student concerns and rouse a little fun along the way. Alexis A. Aguilar-Arevalo of MiniBooNE, Cristobal Cuenca Almenar and Tuula Maki of CDF, and James Degenhardt and Leah Welty-Rieger of DZero will lead the student organization for the next year. With about 600 graduate students at Fermilab, representation is important, said Cuenca Almenar. "A big percentage of work here is done by students," he said. "We are making this lab work."

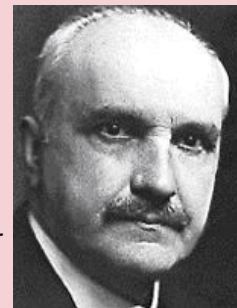
GSA officers attend monthly Users Executive Committee meetings to voice the needs of Fermilab's graduate students, lobby for high-energy physics during an annual trip to Washington, D.C., and organize New Perspectives, a summer conference where undergraduate, graduate students and young post-docs can present their work through talks and posters. Officers also

## Safety Tip of the Week

### Celebrate Ergonomics

*"If pain could have cured us, we should long ago have been saved"*

--George Santayana,  
American philosopher  
(1863-1952)



George Santayana

It seems as if there is a month for everything. Among other things, October is [National Ergonomics Month](#). In case you've been living under an accelerator magnet, ergonomics is defined as "the applied science of equipment design, as for the workplace, intended to maximize productivity by reducing operator fatigue and discomfort."

The key to good ergonomic workstation design is to have the correct tools, the correct workstations and the optimal task sequences so that people don't work in awkward postures, don't make avoidable errors and don't run unnecessary risks for being injured.

Fermilab's Occupational Medical Director, Dr. John Foxen, urges people to seek help as soon as they begin to experience discomfort. He typically sees one or two employees every week who are suffering from less-than-perfect workplace ergonomics, most often at computer workstations. Fortunately, a few simple adjustments to the work process are often all that is needed to eliminate the problem and avoid injury. Putting up with the discomfort for months or years could

## Monday, October 17

- Minestrone
- Chicken & Mushroom Cheese Steak
- Baked Chicken Enchiladas
- Pot Roast
- BLT Ranch Wrap
- Assorted Slice Pizza
- Chicken Stir Fry

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

[Wilson Hall Cafe Menu](#)

## Chez Leon

### Wednesday, October 19

#### Lunch

- Stuffed Autumn Vegetables
- Cucumber Salad
- Black Forest Cake

### Thursday, October 20

#### Dinner

- Tortilla Soup
- Grilled Spiced Lamb with Red Pepper Sauce
- Saffron Vegetables
- Profiteroles

[Chez Leon Menu](#)

Call x4512 to make your reservation.

## Search

Search the Fermilab Today Archive

## Info

hold an annual career night to answer students' questions about life in the real world.

GSA also is about fun. Members will sponsor a Halloween party on Friday, October 28 at Kuhn Barn in the Village in addition to an on-site triathlon and other social gatherings. "One thing we want to do this year is make GSA more relevant to students," said Cuenca Almenar. "A lot of students don't even know we exist." Possible new activities such as a formal ball or a second career night might help, Welty-Rieger said. "We all want to have more opportunities for other graduate students to get together," she said. "You can just sit in your cubicle here and type and never see anyone. It's important to get together with people and say 'Oh, you work on that, tell me about that.'" To reach the GSA officers, you can e-mail [gsa\\_officers@fnal.gov](mailto:gsa_officers@fnal.gov).  
—Kendra Snyder

## In the News

### KEK Press Release, October 14, 2005: KEK pushes superconducting cavity to work at its theoretical limit

A team of accelerator physicists led by associate professor Kenji Saito, High Energy Accelerator Research Organization (KEK), successfully achieved 52.3 MV/m gradient field on Niobium superconducting accelerator cavity. This field is an equivalent to connecting 35 million AA battery cells in series.

The high gradient superconducting cavity is one of the most vital components in designing the next generation high energy accelerators such as the International

result in a permanent condition and/or the need for surgery.

In addition to the Medical Department, employees can seek help from their supervisor, local ES&H organization or representative on the Ergonomic Subcommittee. Greg Mitchell is the current chairperson of this subcommittee and reminds us that all the elements of an effective ergonomic program are already in place. Most of what the Lab has to offer is described in [ES&H Manual Chapter 5084](#)-- Ergonomics program.

[Safety Tip of the Week Archive](#)

## Computer Security Program being reviewed by DOE

In early November a team from DOE will be onsite to review the computer security program at Fermilab. As a DOE laboratory, it is important that Fermilab demonstrate that we are diligent about protecting the computing resources and information that we are responsible for.

The visiting DOE team will review the operation of our computer security program, conduct a technical analysis based on penetration testing of the entire site, and randomly select users and managers to interview. In preparation for this review, upcoming articles in Fermilab Today will explain how to report a suspected computer security incident, avoid phishing exploits, identify social engineering tactics, keep your system secure, and verify the identity of anyone who asks questions about computer security.

## Accelerator Update

Fermilab Today is online at:

<http://www.fnal.gov/today/>

Send comments and suggestions to

[today@fnal.gov](mailto:today@fnal.gov)

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Linear Collider (ILC). Existing superconducting cavities, such as the ones developed by DESY, used to achieve 41 MV/m. Saito's group tested two types of single-cell cavities designed based on present understanding of the nature of the surface field limitation. KEK also contributed with its surface cleaning technique with ultra-high pressure water cleaning for perfecting the surface of the cavity, which is originally developed for KEK B-factory.

[Read More](#)

## October 12 - 14

- During this 48 hour period, two stores provided 38 hours and 9 minutes of luminosity.
- NuMI resumes taking beam
- Pelletron repaired
- Store 4445 sets Record Luminosity: 142.51E30

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

## Announcements

### Halloween Party

The Annual GSA Halloween Party will be on Friday, October 28th from 7 p.m. to midnight at the Kuhn Barn.

### Upcoming Classes

October 11, 12, and 26: Interpersonal Communication Skills  
October 24-27: C++ for Embedded Programmers

[More Information](#)

### [Upcoming Activities](#)