

Calendar

Wednesday, October 19

11:00 p.m. ILC R&D Meeting - 1 West

Speaker: D. Denisov, Fermilab

Title: Summary of the CALICE

Collaboration Meeting

12:00 p.m. Screening of the Nova

Program "Race for the Top" - 1 West

3:30 p.m. Director's Coffee Break -

2nd Flr X-Over

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

Speaker: D. Gross, Kavli Institute for

Theoretical Physics

Title: The Future of Physics

Thursday, October 20

8:30 a.m. - 6:00 p.m. [TeV4LHC 2005](#)

[Workshop](#) - 1 West

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

Flr X-Over

4:00 p.m. Accelerator Physics and

Technology Seminar - Curia II (note

location)

Speaker: P.N. Ostroumov, Argonne

National Laboratory

Title: Beam Physics in the RIA

Accelerators

Note: There will be no theoretical physics

seminar today

Weather



Breezy 61°/38°

[Extended Forecast](#)

[Weather at Fermilab](#)

Security

[Secou Level 3](#)

DZero's Tully: Look to Top for New Discoveries



As a DZero convener, Chris Tully studies the Top Quark, which will be celebrated this weekend at Fermilab. (See article for more details.)

Ten years ago, Chris Tully watched the top quark discovery unfold from CERN's Large Electron Positron Collider. "I'm surprised it's been so long," said Tully, a Princeton University physicist. "Now, we take the top quark as sort of a fact of life. "But people had theories that it wasn't there, that we wouldn't find it," he said. "And we all sat on the edge of our seats waiting to hear from Fermilab to see if they'd found it or not." Tully has since joined the DZero collaboration, becoming one of the leading conveners for the experiment and one of the many who continue to study the top quark a decade after its discovery.

Tully concentrates on perfecting and testing the original top quark measurements with a new set of data an order of magnitude larger than previously used. The ultimate goal is to learn how the top quark interacts with other particles, specifically the Higgs particle. Scientists believe that if the top mass is found to be too heavy relative to the Higgs particle, there must be something

Avner the Eccentric to Take Stage this Saturday



Avner the Eccentric will perform in Ramsey Auditorium this weekend.

Come see Avner the Eccentric at 8 p.m.

Saturday in Fermilab's Ramsey

Auditorium. The comedian and magician

is often a featured performer at worldwide

festivals and television specials and was

recently inducted into the International

Clown Hall of Fame. Last year, he

performed a three-month run of sold-out

performances at Theatre Fontaine in

Paris and has won international acclaim.

"Avner the Eccentric is a brilliant comic,"

said Joel Siegel, of ABC-TV. "I laughed

for two solid hours - the show only lasted

an hour and a half."

Tickets for Avner the Eccentric are \$17

for adults and \$9 for children age 18 and

under. For more information or telephone

reservations, call 630-840-2787 on

weekdays between 9 a.m. and 4 p.m. or

visit Fermilab cultural events [online](#).

Users' Safety at Fermilab

Cafeteria

Wednesday, October 19

- French Onion Soup
- Texas Style Meatloaf Sandwich
- Grilled Chicken w/Black Bean & Corn Salsa
- Kielbasa & Sauerkraut
- Smoked Turkey Panini Pesto Mayo
- Sausage & Pepperoni Combo
- Fettucini Carbonara w/Ham & Mushrooms

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

[Wilson Hall Cafe Menu](#)

Cafeteria

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.

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present, possibly supersymmetry, that stabilizes its interactions.

However, there's also the possibility that studying the top quark could lead to a discovery beyond the current understanding of particle physics, Tully said. "Just one graduate student could come up with a very simple analysis that could find something that dramatically alters our perspective on the elementary interactions," he said. And that possibility is what Tully says inspires physicists to look beyond daily calibrations and measurements. "Some days might seem mundane," he said. "But we realize that just around the corner, we could discover something that could change everything we know. It's that sort of excitement that keeps us working late."

For more reflections on the top quark's discovery, attend the [Top Turns Ten celebration](#) October 21, 2005 from 1-5 p.m. Friday in Ramsey Auditorium.

—Kendra Snyder

In the News

**From [RockyMountainNews.com](#), October 18, 2005:
Colorado hopes to win bid for underground lab**

Underneath the two snowcapped mountains that form part of the Continental Divide, workers inside the Henderson Mine move 30,000 tons of rock each day, searching for molybdenum.

A consortium of researchers and scientists from 11 agencies, including three Colorado universities, believes the mine is the perfect site for a proposed

There is a new process in place to train and supervise users at Fermilab. The objective of this process is to provide users the same tools employees have to keep themselves safe while at the work place. When a new user joins the Lab, he or she will be required to attend New Employee ES&H Orientation (NEO). This course consists of short presentations/discussions of topics identified in the ES&H Manual, OSHA requirements, and DOE orders 5483.1A. To be sure there is ample opportunity to attend the NEO, classes will be offered every week on Monday afternoons and Thursday mornings. Monday afternoon classes will be held in Wilson Hall 15NW, beginning at 1:00 p.m. Thursday morning classes will be held at the Training Center, beginning November 3, 2005, at 8:00 a.m. Training times and places are also available via the [web](#).

In addition to NEO, users will each be assigned a Point of Contact (POC), or a supervisor for the time the user is on the site. This POC will be responsible for such things as completing the ITNA (Individual Training Needs Assessment), disseminating relevant ES&H information and being a contact person in the event that the user is injured while at Fermilab. These responsibilities are consistent with those imposed on the supervisors of Fermilab employees. With this process in place, the Laboratory will be better able to train users and will provide each user with a line organization they can follow when questions or concerns arise.

[Read More](#)

Announcements

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underground laboratory where they might unlock mysteries of the Earth and the universe beyond.

The Henderson Mine, about 50 miles west of Denver near Berthoud Pass, is one of two finalists for the National Science Foundation's Deep Underground Science and Engineering Laboratory, or DUSEL.

The other site is a shuttered gold mine in Lead, S.D.

A group of about 20 scientists, state officials and reporters recently toured the site. The National Science Foundation gave \$500,000 to each finalist to develop conceptual designs for the lab. The final selection should come in late 2006 or early 2007.

The group trying to get the DUSEL lab in Colorado calls itself the Henderson Underground Science and Engineering Project, or HUSEP.

Molybdenum mining will continue at the Henderson Mine for 10 more years, but there will be plenty of room for the research facility, HUSEP officials said, noting lifts and ventilation systems are more than adequate for both operations.

[Read More](#)

Power Outage Scheduled

On Saturday, October 22, the power in the Village will be cut for annual maintenance. Updates will be posted at the [FESS Web Site](#). Contact your [building manager](#) for outage accommodation plans such as relocation, emergency power and emergency bathroom facilities.

FSGI01 To Be Decommissioned

The SGI computer fsgi01 will be decommissioned on Dec 31, 2005. The Computing Division is encouraging users of fsgi01 to migrate their interactive computer usage to other interactive machines in the FNALU cluster. You can visit the [Website](#) for information on the cluster. The label on the left frame named "cluster information" maps out the cluster. New additional Linux interactive machines and batch machines are being added and will be available soon.

International Folk Dancing

International Folk Dancing will meet Thursday, October 20, at Kuhn Barn on the Fermilab site. Dancing begins at 7:30 p.m. with teaching earlier in the evening and request dancing later on. Newcomers are welcome and you do not need to come with a partner. Info at 630-584-0825 or 630-840-8194 or folkdance@fnal.gov.

[Upcoming Activities](#)