

## Calendar

**Tuesday, Oct. 30**  
**11 a.m.**

Academic Lecture Series -  
Curia II

Speaker: B. Dobrescu,  
Fermilab

Title: Physics in Extra  
Dimensions - Part 3

**2:30 p.m.**

[Special Particle Astrophysics  
Seminar](#) - Curia II

Speaker: S. Koushiappas, Los  
Alamos National Laboratory

Title: Dark Matter Physics and  
Astrophysics with GLAST

**3:30 p.m.**

**DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over**  
**THERE WILL BE NO  
ACCELERATOR PHYSICS  
AND TECHNOLOGY  
SEMINAR TODAY**

**4 p.m.**

[Special Joint Experimental-  
Theoretical Physics Seminar](#) -

One West

Speaker: A. Chou, Fermilab  
Title: New Results from the  
Pierre Auger Observatory

**Wednesday, Oct. 31**

**THERE WILL BE NO  
FERMILAB ILC R&D  
MEETING THIS WEEK**

**3:30 p.m.**

**DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over**

**4 p.m.**

[Fermilab Colloquium](#) - One  
West

Speaker: F. Gianotti, CERN  
Title: Preparing for Physics  
with First ATLAS Data at the  
LHC

[Click here](#) for **NALCAL**,  
a weekly calendar with links  
to additional information.

## Weather

## Feature

### You'll be seeing more of Seymour Green



Seymour Green, Fermilab's icon of sustainability, promotes environmentally friendly options around the laboratory.

You may not have noticed him before, but you'll be seeing more of him soon: he is Seymour Green, Fermilab's icon of sustainability. As the laboratory's recycling plan expands, he will be showing up in a lot more places.

Seymour's role has evolved during his time at Fermilab. He began his career as a nameless cartoon known simply as The Green Guy and was an icon in engineering and construction projects. Today, his lopsided smile appears throughout Wilson Hall, on bin lids by the elevators and near hand dryers in the bathrooms.

His creator, Emil Huedem of FESS, hoped his 2004 sketch, which originated as a doodle on the white board of ecologist Rod Walton, was destined for greatness. Walton and environmental specialist Eric Mieland helped Huedem refined his original cartoon, changing Seymour's shirt and hat and eliminating his moustache.

In the fall of 2005, Fermilab employees suggested names for The Green Guy in a contest. More than 600 people voted and SciBooNE project head Rick Tesarek's

## Director's Corner

### Collaboration with India



Fermilab Director Pier Oddone, center, signs a Memorandum of Understanding with Indian institutions. Shekhar Mishra, left, serves as Fermilab's representative in India. Bob Kephart directs Fermilab's ILC effort.



Fermilab's Shekhar Mishra, left, presents the MOU to Anil Kakodkar, chairman of India's Atomic Energy Commission and secretary of the Department of Atomic Energy; with Vinod Sahni, director of RRCAT, Indore at a meeting in Mumbai.

Last month Fermilab signed an agreement with Indian laboratories and universities to collaborate on the ILC and more generally to collaborate in the development of superconducting radio frequency (SCRF) linacs. India has a deep interest in contributing to the development of the ILC and also to developing superconducting proton accelerators for its own domestic program. We have a keen interest in collaborating with physicists and their institutions in India in ILC research, because we expect to work together on future accelerator projects in which they could make major intellectual and in-kind contributions. This collaborative work falls under the broad Memorandum of Understanding signed in January of 2006 between U.S. institutions and Indian

**Mostly sunny 66°/47°**[Extended Forecast](#)  
[Weather at Fermilab](#)[Current Security Status](#)[Secon Level 3](#)[Wilson Hall Cafe](#)**Tuesday, Oct. 30**

- Chicken & rice soup
- Low-carb burger
- Baked meatloaf w/gravy
- Smart Cuisine: Parmesan baked fish
- Peppered Beef
- Assorted slice pizza
- Chipotle chili & queso nachos supreme

\*Carb Restricted Alternative

[Wilson Hall Cafe Menu](#)[Chez Leon](#)**Wednesday, Oct. 31  
Lunch**

- Skeleton's bones
- Monster's eyes
- Vampire's wishes
- Ghost delight

**Thursday, Nov. 1  
Dinner**

- French onion soup
- Grilled halibut w/tarragon white butter sauce
- Grilled new potatoes
- Green beans w/lemon zest
- Chocolate soufflé w/hazelnut crème Anglais

[Chez Leon Menu](#)

Call x4598 to make your reservation.

[Archives](#)

submission of the name Seymour Green won.

Since then, Seymour has had plenty of opportunity to make appearances. "His role here has really expanded," said Mieland. As the role of recycling also expands over the next year, Seymour Green will be coming to a recycling bin near you.

-- *Haley Bridger*

This original sketch of the character, The Green Guy, by FESS's Emil Huedem, remains on ecologist Rod Walton's white board. It remains there.

[Photo contest](#)**Pumpkin carving contest**

We received this photo of pumpkins carved for Halloween from DZero collaborator Anatoly Evdokimov. E-mail [Fermilab Today](#) a photo of your physics-related Halloween pumpkin by 11:59 p.m. on Oct. 31. The best photo(s) will be featured in Friday's *Fermilab Today*.

[In the News](#)

institutions.

Fermilab and Indian institutions have been collaborating on high-energy physics experiments for over two decades. The first collaboration in 1985 was on the Fermilab fixed-target experiments and later on the DZero detector at the Tevatron. Many Indian students have received their Ph.D. degrees from research carried out at Fermilab. Lately the collaborative research has expanded to include accelerator technology. A delegation from our laboratory visited India in March of 2006 and established connections with laboratories in Delhi, Indore and Mumbai. Discussions on possible future collaborative efforts have continued over the last year, culminating in the signing of the present document here at Fermilab by the director and in India by the director of the Raja Ramanna Center of Advanced Technology (RRCAT) representing Indian laboratories. The signing took place in the Mumbai office of Dr. Anil Kakodkar, chairman of the Atomic Energy Commission, and secretary, Department of Atomic Energy. Fermilab's Shekhar Mishra has been our ambassador in these negotiations.

In addition to collaborating abroad in the Fermilab and CERN programs, India has developed its own high technology accelerator program, including the new light source at the Raja Ramanna Center of Advanced Technology (RRCAT) in Indore. The Inter University Accelerator Center at Delhi has a superconducting accelerator similar to the ATLAS linac at Argonne. In addition there are other accelerators devoted to Nuclear Physics, including the Variable Energy Cyclotron Center (VECC) in Calcutta. The Bhabha Atomic Research Center (BARC) has a remarkable and deep set of science and technology skills. These institutions have already started to participate in the SCRF R&D program with Fermilab. The collaboration is expected to grow in the area of radio frequency power, beam deposition and detector development. We look forward to a great collaboration to our mutual benefit.

[Accelerator Update](#)**Oct. 26 - 29**

- TeV establishes study stores
- Commissioning coming to an end

[Read the Current Accelerator Update](#)[Read the Early Bird Report](#)[View the Tevatron Luminosity Charts](#)

[Fermilab Today](#)[Result of the Week](#)[Safety Tip of the Week](#)[ILC NewsLine](#)**Info**

Fermilab Today

is online at:

[www.fnal.gov/today/](http://www.fnal.gov/today/)

Send comments and suggestions to:

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

**String theory's next top model**

From *Physorg.com*, Oct. 25, 2007

*Ernest Rutherford used to tell his physics students that if they couldn't explain a concept to a barmaid, they didn't really understand the concept. With regard to the cosmological implications of string theory, the barmaids and physicists are both struggling—a predicament that SLAC string theorist Shamit Kachru hopes to soon resolve.*

String theory is currently the most popular candidate for a unified theory of the fundamental forces, but it is not completely understood—and experimental evidence is notoriously elusive. Physicists can, however, gain crucial insight into the theory by evaluating how accurately its models can predict the observed universe.

[Read More](#)

**In the News****Look mum, it's a neutrino**

From *ABC.net.au*, Oct. 24, 2007

Physicists have taken a snapshot of an elusive neutrino, in research that could one day explain why some of the universe's mass seems to be missing.

European physicists sent a neutrino particle on a 730 kilometre trip under the earth's crust and taken a snapshot of the instant it slammed into lab detectors.

The particle zoomed from the European Organisation for Nuclear Research (CERN) in Switzerland to an underground laboratory at the Italian Institute for Nuclear Research at Gran Sasso.

The journey took about 2.4 milliseconds, with the particle travelling close to the speed of light, says France's National Centre for Scientific Research (CNRS).

Neutrinos are elementary particles that lack an electrical charge and do not appear to interact with mass, as they can travel through ordinary matter almost effortlessly.

Trillions of them pass through each of our bodies every day.

Neutrinos come in three types, or flavours, as physicists call them: electron neutrinos, muon neutrinos and tau neutrinos.

**Announcements****[Have a safe day!](#)****Project X Accelerator Physics and Technology workshop Nov. 12-13**

Fermilab will host a workshop to discuss the accelerator physics and technology issues of Project X. The workshop will also explore possible areas of overlap and interest among various particle accelerator laboratories and universities. For more information or to register, see the Accelerator Physics and Technology Workshop for Project X [Web site](#).

**Project X physics workshop Nov. 16-17**

Fermilab will host a user's workshop Nov. 16-17 to discuss the physics of Project X. The group will meet at 8:30 a.m. Friday, Nov. 16, in One West. A wine and cheese talk by Michelangelo Mangano runs from 4 to 5:30 p.m. The Saturday session will be partly in One West, but also will include parallel sessions in different rooms. Streaming video of the sessions will be provided. The agenda can be found [here](#). You should register if you plan to attend in person or via streaming video. [Online registration](#) is available.

**EAP office hours temporary change**

The EAP office will be open Tuesday, Oct. 30, from 9 a.m. to 1 p.m. but will be closed on Wednesday, Oct. 31, and Friday, Nov. 2. It will be open again on Tuesday, Nov. 6, from 9 a.m. to 1 p.m. but will be closed Wednesday, Nov. 7, and Friday, Nov. 9. The EAP office will resume the regular schedule on Wednesday, Nov. 14. The EAP is available 24/7 by calling (800) 843-1327.

**Scottish Dance Halloween party today**

Scottish Country Dancing will hold a Halloween Party today, Oct. 30, in Kuhn Barn. Costumes are encouraged but not essential. Instruction begins at 7:30 p.m. and newcomers are always welcome. Most dances are fully taught and walked through, and you do not need to come with a partner. Call (630) 840-8194 or (630)584-0825 or email [folkdance@fnal.gov](mailto:folkdance@fnal.gov).

**[Additional Activities](#)**

[Read More](#)