

## Calendar

**Friday, Oct. 19**
**3:30 p.m.**

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

**4 p.m.**
[Joint Experimental-Theoretical Physics Seminar](#) - One West

Speaker: D. Tsybychev, State University of New York, Stony Brook

Title: Looking for New Physics in the B-Quark System

**8 p.m.**
[Fermilab International Film Society](#) - Auditorium

Tickets: Adults \$5

Title: Donnie Darko

**Saturday, Oct. 20**
**8 p.m.**
[Fermilab Arts Series](#) -

Auditorium

Tickets: \$16/\$8

The Tweaksters

**Monday, Oct. 22**
**11 a.m.**
[Computing Techniques Seminar](#) - FCC1

Speakers: S. Ostermann and K. Plankensteiner, University of Innsbruck

Title: ASKALON: A Workflow-Application Development and Runtime Environment for the Grid

**2 p.m.**
[Particle Astrophysics Seminar](#)

- Music Room in Users Center (NOTE LOCATION)

Speaker: C. Cramer, Harvard University

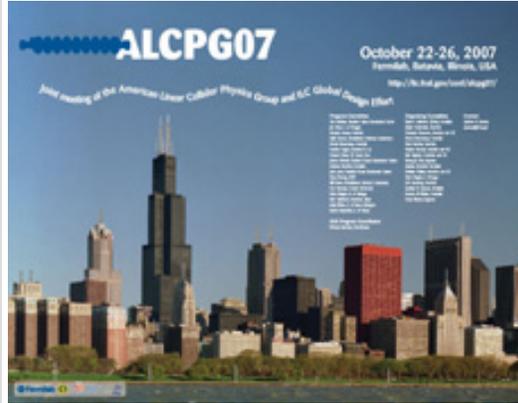
Title: Spin-Dependent Interactions and Fundamental Physics

 THERE WILL BE NO  
 DIRECTOR'S COFFEE  
 BREAK TODAY

 THERE WILL BE NO ALL  
 EXPERIMENTERS' MEETING  
 THIS WEEK

## Feature

### Ray Orbach to speak at ALCPG07 meeting Monday



ALCPG 2007 meeting poster

More than 300 members of the ILC community from laboratories and institutions across the globe will gather at Fermilab next week, Oct. 22-26, for the ALCPG 2007 workshop.

The five day meeting will kick off the engineering design phase of the ILC, which will last until 2010.

"The ALCPG07 meeting marks an important transition period for the ILC community," said Bob Tschirhart, Fermilab's ILC physics coordinator and ALCPG07 program and organizing committee chair. "ILC physics and detector groups are currently focused on preparing baseline detector designs, two of which will be chosen in a year. For the accelerator, the focus is on an engineered design capable of getting us off the construction starting blocks."

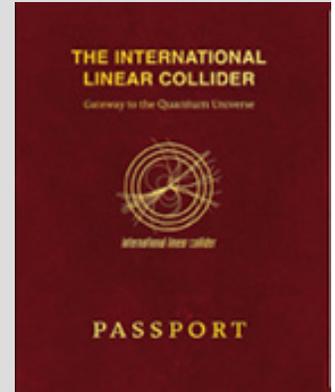
Meeting highlights include Monday morning presentations by DOE Under Secretary for Science Dr. Raymond S. Orbach and director of the Division of Physics at the National Science Foundation Dr. Joseph Dehmer. Orbach will address attendees of the ALCPG07 meeting and members of the Fermilab community at 11 a.m. Dehmer will speak at 11:45 a.m. All Fermilab employees are invited to attend. The presentation will also be available online via [streaming video](#).

During next week's meeting the parking lot on the east side of Wilson Hall will be closed to accommodate a lunch and break tent for

## From Newslines

### New ILC communication tool

The International Linear Collider community today released a new report, "The International Linear Collider – Gateway to the Quantum Universe" to mark the beginning of a new phase for the proposed particle accelerator. The document serves as a companion



The companion to the RDR: Gateway to the Quantum Universe.

piece to the recently published Reference Design Report and highlights the scientific goals and technical challenges of the proposed machine. The report also has a companion website at [www.linearcollider.org/gateway](http://www.linearcollider.org/gateway).

Intended for a general audience with an interest, but not necessarily a background in science, it translates the complicated technical details of the Reference Design Report into a visionary text. "As we commence the engineering design phase of the ILC, we require excellent communication tools to help explain the project's science and technology goals in an engaging way," said Barry Barish, Director of the Global Design Effort, the organisation that manages the engineering efforts and R&D programme for the accelerator. "I am confident that the 'Gateway to the Quantum Universe' report will play an important role during this next phase and successfully convey the excitement of future potential scientific discoveries."

[Read more](#)

## In the News

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

## Weather



Showers 59°/46°

## Extended Forecast

## Weather at Fermilab

## Current Security Status

[Secou Level 3](#)

## Wilson Hall Cafe

### Friday, Oct. 19

- Cream of asparagus
- Buffalo chicken wings
- Cajun breaded catfish
- Sweet & sour pork over rice
- Honey mustard ham & swiss panini
- Assorted pizza slices
- Carved turkey

[Wilson Hall Cafe Menu](#)

## Chez Leon

### Wednesday, Oct. 24

#### Lunch

Closed

### Thursday, Oct. 25

#### Dinner

Closed

[Chez Leon Menu](#)

Call x4598 to make your reservation.

## Archives

## Fermilab Today

## Result of the Week

## Safety Tip of the Week

## ILC NewsLine

## Info

meeting attendees. Handicap parking will be available. Fermilab taxi service will pick up on the west side of the building during this time. In order to prepare for ALCPG meeting activities on Monday and Tuesday, the Fermilab cafeteria will close early at 3 p.m.

More information on the workshop can be found [here](#).

-- Rhianna Wisniewski

## Fermilab Profiles in Safety



**Stewart Bledsoe,**  
**CD-Core Support Services**

*"To err is human, but high voltage does not forgive. Take a chance at a casino, not at the work place."*

See all Fermilab Profiles in Safety [here](#).

## Feature

## Next-gen particle collider's slick new sales brochure

From *Wired*, Oct. 18, 2007

The folks behind the proposed International Linear Collider (ILC), a next-gen particle smasher that would complement Europe's Large Hadron Collider (LHC), have posted a slick new Web site explaining why their project is worth funding.

Old particle physics hands probably won't find anything new here, but for newcomers to the subject, people looking to catch up on recent discoveries and goals, or those trying to understand why two multi-billion dollar accelerators are necessary, the site is worth a visit. It offers a summary of the science involved, a useful outline of the ILC design and technical challenges, and a call to industry to help develop the tools needed.

[Read More](#)

## In the News

## Particle collider is on schedule... just

From *nature.com*, Oct. 17, 2007

*CERN's new machine still aiming for 2008 debut.*

Rumours of construction delays at the world's largest particle accelerator have exaggerated the size of the problem, according to the project's head. "There have been no show stoppers," wrote Robert Aymar, director-general of CERN, the particle physics lab near Geneva, Switzerland, in the 8 October issue of the lab's CERN Bulletin. "We can all look forward to the LHC producing its first physics in 2008."

His reassuring announcement came after gossip on physics blogs of new problems that could set the lab's Large Hadron Collider (LHC) even further behind its already delayed start date. But for all the reassurance, the LHC schedule remains tight, says project leader Lyn Evans. Relatively small mishaps could push the opening back beyond July 2008, when the LHC is supposed to start doing physics.

[Read More](#)

## Accelerator Update

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)

## US CMS workshop a springboard for LPC



Fermilab's Liz Sexton-Kennedy gives a presentation about physics support groups on Oct. 11, the first day of the US CMS First Physics workshop.

By nearly any measure, the US CMS First Physics workshop at Fermilab last week was a success. More than 215 people attended the three-day workshop, which was an opportunity for U.S. scientists working on the CMS experiment to talk shop about the upcoming science at CMS.

The workshop served as a successful testing ground for EVO, a new telecommunications conference system and an opportunity to brainstorm ways to get the collaboration to work more closely together, said organizers and [LHC Physics Center](#) co-coordinators Dan Green, Fermilab; and Chris Tully, Princeton.

The workshop, hosted by the LPC between Oct. 11-13, spurred ideas on how to make the collaboration more effective, Green said.

"A lot of workshops are a one shot deal," said Green. "There was a lot of momentum and enthusiasm generated at this workshop and we don't want to let that die away."

Communication is often lacking among the experiment's individual working groups, Green said. He and Tully hope to fix that by taking advantage of the interest generated at this workshop.

"We're really looking to organize these groups and get them launched," Green said. "We'd like to see this work from the bottom up, where the ideas come from the individual groups up the pipeline."

Tully and Green hope to quickly establish clear leadership for each research group and a strong communication network, letting everyone know what others are working on. They also hope to establish a "starter kit" of

### Oct. 17-18

- TeV access to adjust lead flows
- TeV injected reverse protons
- Pbar has Debuncher momentum cooling problems
- Recycler conducts electron cooling and proton studies

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

### Announcements

#### Have a safe day!

#### **Wilson Hall exterior restoration work through mid-December**

Wilson Hall will undergo concrete repair, power washing and concrete sealing through mid-December as weather permits. This phase of the Wilson Hall five-year inspection and repair cycle will affect the east side of Wilson Hall only. Noisy work will be limited to early morning hours before 9 a.m. Parking and pedestrian traffic will be limited along the east side, depending on which building bays are being serviced. Motorcycle and bicycle parking will be temporarily moved from the east to the west side lot starting Oct. 29. For more information, contact Russ Alber (630) 840-2501 or [ralber@fnal.gov](mailto:ralber@fnal.gov).

#### **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 or watch the streaming video. [Online registration](#) is available.

#### **Fright Fest discounted tickets**

Buy tickets now for Fermilab Fright Fest Days at Six Flags Oct. 19-21. Tickets are \$25.25 each and available at the Recreation Office, WH15W. If you cannot attend the Fermilab days, ask about other special savings for other weekends.

#### **Classifieds**

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

#### [Additional Activities](#)

code and terminology to describe project results and goals so that everyone can share information and work well as a coherent and unitary team.

This universal code would also benefit graduate students and postdocs arriving to work on the experiment. "By getting them all on the same page initially, they can more quickly becoming productive members of the CMS community," Green said.

-- *Rhianna Wisniewski*