

## Calendar

### Fri., March 9

**3:30 p.m.** DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

**4:00 p.m.** Joint Experimental-Theoretical Physics Seminar - 1 West

Speaker: M. Ross, Fermilab  
Title: The Reference Design Report and Cost Estimate for the International Linear Collider

### Mon., March 12

**10:00 a.m.** Research Techniques Seminar - Curia II  
Speaker: M. Goncharov, Texas A&M University

Title: Calorimeter Timing System at CDF

**2:30 p.m.** Particle Astrophysics Seminar - Curia II  
Speaker: H. Peiris, KICP Chicago

Title: Understanding Cosmic Accelerations: Connecting Theory and Observation

**3:30 p.m.** DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

**4:00 p.m.** All Experimenters' Meeting - Curia II  
Special Topics: Sloan Survey II (E-949) Status and Future Plans;  
Modeling of the Booster Beam

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

## Weather

 Light Rain 49°/31°

## Extended Forecast

## Weather at Fermilab

## Current Security Status

## Secon Level 3

## Wilson Hall Cafe

## Feature

### Daylight-saving time begins this Sunday



Daylight-saving time begins three weeks early this year, starting this Sunday.

This Sunday, daylight-saving time begins at 2 a.m. As mandated by the Energy Policy Act of 2005, the United States' one-hour "spring forward" will now come three weeks earlier than in previous years. In addition, clocks will be turned back in the fall on the first Sunday in November, one week later than usual. These changes will extend the darkness in the mornings, but will provide more light in the evenings, which lawmakers say could save energy and reduce crime.

Whereas some potential problems with this change may be a mere annoyance (like your TiVo missing your favorite shows), others could have more severe consequences. At Fermilab, the Computing Division has been rushing to update both servers and computers before the new time goes into effect. If computers aren't updated, users won't be able to log in to their system accounts: if the time on the local computer doesn't match that of the server to within five minutes, the system won't authenticate the user.

"Every year this happens to a few people. Some people will be surprised," said CD's Troy Dawson, who works on updates for Linux operating systems. "But it won't be on the level of Y2K."

Whereas users with administrator privileges could change their computers' settings manually, this would have to be done a total of four times per year on most operating systems to make up for the previous time change

## Feature

### Science, design, costing for the ILC--and Fermilab's role

Employees gathered Wednesday in the Auditorium to learn more about the ILC and Fermilab's role in it. Three speakers discussed big physics questions, technical issues, and the effects on the lab of an extended ILC completion date.



Director Pier Oddone highlighted some ways that Fermilab might deal with an extended time-frame for building the ILC while maintaining a robust physics program. He described how a new steering committee will help evaluate ILC development projects that could also lead to other future experiments. "The idea is to go full blast to the accelerator, which is what we really want, while having a full program of physics along the way," he said.



GDE Director Barry Barish addressed two critical issues: "Why linear?" and "Why collide electrons and positrons?" He also explained the rationale behind the machine's design, and described major hurdles the group overcame in cutting costs for the machine, such as finding a way to control the electron cloud that

**Friday, March 9**

-Beef Pepper Pot  
 -Buffalo Chicken Wings  
 -Cajun Breaded Catfish  
 -Baked Fish over Rice  
 -Sweet & Sour Pork over Rice  
 -Honey Mustard Ham & Swiss Panini  
 -Carved Turkey

[Wilson Hall Cafe Menu](#)

**Chez Leon****Wednesday, March 14****Lunch**

-Beef Fajitas  
 -Pico de Gallo  
 -Rice and Beans  
 -Rum Pecan Cake

**Thursday, March 15****Dinner**

-Fontina and Prosciutto Crepes  
 -Scampi with Fettuccine  
 -Apricot Tart

[Chez Leon Menu](#)

Call x4598 to make your reservation.

**Archives**

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[ILC NewsLine](#)

**Info**

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

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

settings. Most software vendors have developed user-friendly software patches that members of CD have remotely uploaded to on-site computers, said CD's Cele Bruce. But some software that relies heavily on timing, such as the personal scheduling program Meeting Maker, does not have such patches. Bruce and her team worked with the vendors to develop an appropriate patch and finalized updates to the software on Thursday. "We tried to pinpoint everything that has a calendar, so we'll be ready when that magic March 11 comes around," she said.

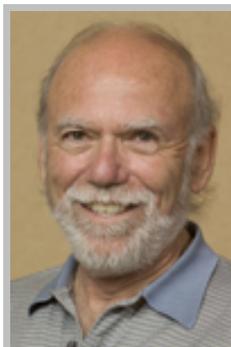
If you have any issues on Monday, please contact your local desktop support or the Help Desk.

--Christine Buckley

**ILC NewsLine****What's in a Schedule?**

*This week's column is written by GDE Director Barry Barish.*

On February 22, I reported on our Reference Design Report to HEPAP, High Energy Physics Advisory Panel in the US. The committee responded very positively to what we have achieved, and the chair, Mel Shochet, wrote to me after the meeting on behalf of HEPAP. He said, "HEPAP congratulates the GDE on the outstanding accomplishment of completing the Reference Design Report for the ILC. This is a major step towards achieving the primary long-term goal of the international high-energy physics community: the approval and construction of the International Linear Collider." We should feel very pleased and proud to receive this strong affirmation.



Barry Barish

[Read More](#)

**In the News**

accumulates in damping rings--which will allow two rather than three damping rings--and shifting the major underground infrastructure from the ends of the collider to its center. He said that ILC technology has come a long way, but emphasized the need for strong international management to ensure timely development. (See Barish's column in *ILC NewsLine*, at left, for more details.)



Fermilab theorist Chris Quigg outlined big physics questions that the ILC could tackle, such as understanding electroweak symmetry breaking and the nature of the Higgs boson, searching for dark matter and extra spacetime dimensions. "Discoveries at the Tevatron or at the Large Hadron Collider can test ILC parameter choices and make the case for the ILC specific and compelling," he said.



Employees gathered at a reception after the symposium to continue discussions on ILC prospects.

--Siri Steiner

Streaming video will soon be available. *Fermilab Today* will post the link when it is available.

**Announcements**

## ***The Economist*, March 8, 2007**

### **Higgs may fly**

*Physicists in America may have scooped their counterparts in Europe in the hunt for the source of universal mass*

BUMBLEBEES cannot do it. Fly, that is. Or so physics is said to have shown. That the insects routinely become airborne demonstrates the shortcomings of some theoretical accounts of the world. Particle physics is in a similar state. The Standard Model that scientists have devised to describe the building blocks of nature is incomplete. One failing is the lack of a proven explanation for the existence of mass. Finding exactly what bestows this vital property on matter is the quarry of a global hunt.

[Read More](#)

### **NALWO Cooking Demonstration**

NALWO will host a German cooking demonstration, presented by Selitha Raja and Angela Jostlein on Monday, March 12 from 10:30 a.m. until 2:00 p.m. at Chez Leon in the Users' Center. Come to learn traditional techniques and recipes and stay for lunch to taste the results! Please RSVP to SelithaR@hotmail.com or call Selitha Raja at 630-305-7769.

### **Brown Bag Seminar on Diabetes Care**

Betul Hatipoglu, director of the Pancreas-Islet Transplantation Program for the University of Illinois at Chicago, will present a Brown Bag Seminar on advances in diabetes care on Wednesday, March 14. The seminar will be held in Curia II from noon to 1:00 p.m.

### **Classifieds**

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

### **[Upcoming Activities](#)**