

## Calendar

### Friday, August 11

**2:15 p.m.** Hadron Collider Physics

Summer School Open Lecture -  
Auditorium

Speaker: M. Shapiro, Lawrence Berkeley  
National Laboratory

Title: Simple and Compound Objects - 2

**3:15 p.m.** DIRECTOR'S COFFEE  
BREAK - Atrium (NOTE TIME and  
LOCATION)

**3:45 p.m.** Hadron Collider Physics  
Summer School Open Lecture -  
Auditorium

Speaker: T. Sjöstrand, CERN/Lund  
University

Title: Theory of Hadronic Collisions - 1  
THERE WILL BE NO JOINT  
EXPERIMENTAL THEORETICAL  
PHYSICS SEMINAR THIS WEEK

### Saturday, August 12

**2:15 p.m.** Hadron Collider Physics  
Summer School Open Lecture -  
Auditorium

Speaker: T. Sjöstrand, CERN/Lund  
University

Title: Theory of Hadronic Collisions - 2

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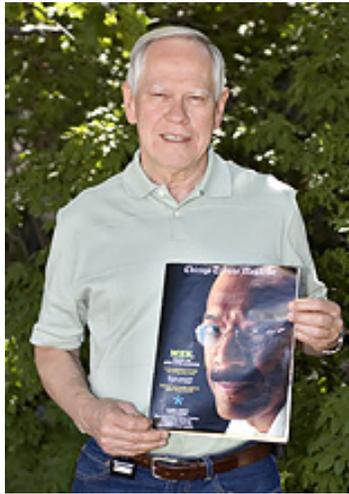
Title: Simple and Compound Objects - 3

### Monday, August 14

PARTICLE ASTROPHYSICS  
SEMINARS WILL RESUME IN THE FALL

**3:00 p.m.** Hadron Collider Physics  
Summer School Open Lecture -  
Auditorium

## Fermilab prostate cancer survivor to appear on TV



Ken Bourkland holds the Chicago Tribune Sunday Magazine with Robert Jordan on the cover. After reading about Jordan's struggle with prostate cancer, Bourkland wrote a letter to the journalist about proton therapy--a move that eventually led Bourkland to be included in the upcoming TV special.

On Saturday, August 12, at 6:00 p.m., Fermilab electrical engineer and prostate cancer survivor Ken Bourkland will appear in a WGN-TV special on proton therapy. When diagnosed with prostate cancer in 2005, he asked for treatment with proton therapy, knowing about Fermilab's connection to the proton therapy center at the Loma Linda University Medical Center in California. Twenty years ago, Fermilab built the proton accelerator that Loma Linda uses in cancer treatment. Former Fermilab Deputy Director Phil Livdahl led the charge for building the machine, and was, in fact, the first patient to be treated there for prostate cancer in 1990. He is still enjoying retirement.

Since receiving treatment at Loma Linda,

## ILC NewsLine

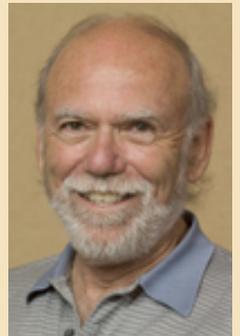
### Reflections from Vancouver: The ILC Reference Design

*This week's column is written by Barry Barish, director of the Global Design Effort for the ILC.*

Last week I discussed the physics and detector part of the joint American Linear Collider Planning Group and GDE

workshop held in Vancouver from 19-23 July. The GDE portion of the meeting focused on preparations for the Reference Design Report and had very large participation -- about 200 scientists and engineers. Participants reported on important progress on the accelerator design, as well as success in obtaining a first-cut at the costing of most components for the baseline machine.

The accelerator presentations at VLCW06 included an important recent study by Mauro Pivi and Lanfa Wang, both from SLAC. They suggest that by using clearing electrodes, electron cloud effects could be suppressed in the damping rings. This might allow the use of a single 6-km positron damping ring, rather than the present baseline which employs a pair of 6-km rings. The baseline uses two positron damping rings with the beam alternating between them, allowing enough separation between bunches to minimize the electron cloud



Barry Barish

Speaker: M. Strassler, University of Washington

Title: Beyond the Standard Model - 1

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

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

**4:30 p.m.** Hadron Collider Physics Summer School Open Lecture - Auditorium

Speaker: T. Sjöstrand, CERN/Lund University

Title: Theory of Hadronic Collisions - 3

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

## Weather



Chance of Showers **61%/79°**

[Extended Forecast](#)

[Weather at Fermilab](#)

## Current Security Status

[Secou Level 3](#)

## Wilson Hall Cafe

### Friday, August 11

- New England Clam Chowder
- Western BBQ Burger
- Tilapia w/Tortilla Crust
- Swedish Meatballs
- Bistro Chicken & Provolone Panini
- Assorted Slice Pizza
- Carved Top Round of Beef

## [Upcoming Menu](#)

## Chez Leon

Bourkland has led a cancer-free life. Now he wants to promote awareness of prostate cancer. "Prostate cancer is one that progresses slowly yet deserves attention," Bourkland said. "It can be treated successfully."

More information related to the broadcast is on the [WGN-TV website](#). Loma Linda University Medical Center provides information on [proton therapy](#) as well.

--Dave Mosher

## Photo of the Day



Adrienne Kolb, Fermilab's archivist, snapped this photo of two mute swans last Thursday near the A. E. Sea. "It's fairly unusual to see them on site, though we're seeing them more in recent years," said AD's bird enthusiast Peter Kasper. He said the birds are most likely a local couple that attempted to breed in the area and are wandering around. Fermilab previously hosted a swan couple during the 1980s ([brought in from a Hampshire breeder during the late 1970s](#)), but because caring for them proved difficult they were not replaced after they died. (Click image for larger version.)

## In the News

effect. The new studies reported at VLCW06 are preliminary, but the damping ring group is already considering to submit a configuration change proposal. I'd like to emphasize that such a change would both simplify our configuration and significantly reduce costs.

[Read More](#)

## ILC NewsLine

### Magnet coming out



Make way for an ILC test beam! This week, workers began removing the Chicago Cyclotron magnet from the New Muon building at Fermilab. The giant magnet was originally part of the Chicago Cyclotron, made famous when Enrico Fermi and his colleagues at the University of Chicago used it to show that particles called "pions" are largely responsible for the force that holds protons together in the nucleus of an atom. Once the magnet is put out to pasture, work will begin to convert the building into a test beam facility for the ILC.

## Announcements

**Wednesday, August 16****Lunch**

- Chicken Sate' w/Peanut Sauce
- Marinated Oriental Salad
- Coconut Cake

**Thursday, August 17****Dinner**

Closed

[Chez Leon Menu](#)

Call x4598 to make your reservation.

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## ***Berkeley Lab Research News, August 9, 2006: SNAP Wins NASA Support for Joint Dark Energy Mission***

BERKELEY, CA — NASA has announced that it will support an advanced mission concept study for the SNAP experiment, proposed by the Department of Energy's Lawrence Berkeley National Laboratory and the Space Sciences Laboratory of the University of California at Berkeley for NASA and DOE's Joint Dark Energy Mission (JDEM). In addition to SNAP, NASA also selected the ADEPT and DESTINY proposals to perform mission concept studies for JDEM.

"As one of three groups chosen by NASA for further development of the Joint Dark Energy Mission, we are pleased that NASA is interested in our approach to the problem with the SNAP concept," said Berkeley Lab Director Steven Chu. "DOE and NASA have provided funding to us in the past for our approach, and it is a very good sign that the two agencies are moving forward together on the project."

SNAP, the SuperNova/Acceleration Probe, is an experiment designed to learn the nature of dark energy by precisely measuring the expansion history of the universe. At present scientists cannot say whether dark energy has a constant value or has changed over time — or even whether dark energy is an illusion, with accelerating expansion being due to a gravitational anomaly instead.

[Read More](#)

**Hatha Yoga Classes**

Join Fermilab's next 8-week session of Hatha yoga classes and see why this class is our most successful. The classes are held in the auditorium from noon to 1 p.m. on Tuesdays, August 22 through October 9. The cost for this session is \$80.00. Registration can be made in the Recreation Office or, if using a credit card, by phone at x5427 or x2548. Membership to the Recreation Facility is not required.

**Fermi Singers perform tomorrow**

The Fermi Singers will perform at the [Art In Your Eye Fine Art Show and Festival](#) tomorrow at the Riverwalk (Houston St., between N. Island Ave and N. Water Street) in Batavia. You can catch them on the Peg Bond stage at 9:30 a.m.

**Hadronic Shower Simulation Workshop**

A hadronic showers workshop will take place at Fermilab from September 6 through 8. The workshop will focus on the understanding and simulation of hadronic showers in calorimeters, in shielding, in the atmosphere and the ocean. If you would like to participate, please [register](#) as soon as possible. There is no registration fee.

**Prairie Quadrat Program**

The Lederman Science Center still has openings for the [Prairie Quadrat program](#). Get out and learn about the prairie's natural diversity while helping real ecology researchers. "The plants are lush and denser than ever," said Education's Mary Hawthorne. "People have enjoyed this so much. We've had a number of repeat participants." This is the last chance of the year to take part; outings for the August 15, 24 and 30 are

still available. Find out more and sign up [here](#).

### **Professional Development**

New classes are always being added to the professional development schedule. For the most up-to-date course offerings, go to [the web page](#).

### **Classifieds**

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

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