

## Calendar

### Friday, July 14

**3:30 p.m.** DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

**4:00 p.m.** Joint Experimental Theoretical Physics Seminar - Curia II (note location)

Speaker: P. Mackenzie, Fermilab

Title: Quark Masses, Coupling

Constants, and the CKM Matrix from Lattice QCD

**8:00 p.m.** Fermilab International Film Society presents *A Face in the Crowd* in the Auditorium

### Monday, July 17

**2:00 p.m.** Research Techniques Seminar - Curia II

Speaker: M. Trimpl, University of Bonn

Title: DepFET Pixels for ILC Vertex Detectors

PARTICLE ASTROPHYSICS

SEMINARS WILL RESUME IN THE FALL

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

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

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

## Weather



Partly Cloudy **89°/69°**

[Extended Forecast](#)

[Weather at Fermilab](#)

## Current Security Status

## Camp Invention in full swing



Randy Jones teaches students about physics during Camp Invention, a five-day summer program at the Lederman Science Center. Jones is demonstrating what happens to water in a cup during free-fall. (Click on image for larger version.)

Swinging a cup tethered to a piece of string in a circle, Randy Jones addresses a restless group of second-to-sixth graders at Fermilab's Lederman Science Center. "Why are the metal washers staying in the cup?" he asks the campers. One says they stay in because of momentum. "That's absolutely right," Jones affirms, explaining how roller coasters work in a similar way. The ecstatic Glen Ellyn school teacher then shows the group how to build their own coasters with bendable foam tubes, marbles and masking tape. The class members are among 86 local students enrolled in Camp Invention, a five-day summer science program created by the National Inventors Hall of Fame Foundation.

Jones taught "Imagination Point: Ride Physics" as one of five different activities led by local educators. "The great part

## Readers Write

### Others have seen 'glory,' too

In this "Readers Write" column, Fermilab Today runs letters from our readers. Below is PPD's Dave Finley's response to Tuesday's [photo](#) of an airplane shadow circumscribed by a rainbow.

Dear FT:

I'm just catching up on my email and I see the July 11 Photo of the Day today. Excellent!

Perhaps you did not know that this phenomenon is called "the glory." A careful observer will note the arrangement of colors is opposite to those of a rainbow. A good physicist (even a great physicist) can explain why. This phenomenon has also been observed over the millennia, but instead of using airplanes one would stand at the top of a mountain with the proper atmospheric conditions and location of the sun. Although it is called "the glory" today (in English), there have been many other words in many other languages, some dead now, to put a word on this spectacular phenomenon.

Cheers,  
Dave Finley

**If you would like to submit a letter, write to us at [today@fnal.gov](mailto:today@fnal.gov).**

[Secou Level 3](#)**Wilson Hall Cafe****Friday, July 14**

- 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

The Wilson Hall Cafe accepts Visa, Master Card, Discover and American Express.

[Upcoming Menu](#)**Chez Leon****Wednesday, July 19****Lunch**

- Marinated Flank Steak w/Mushrooms and Pea Pods
- Jasmine Rice
- Lemon Cheesecake

**Thursday, July 20****Dinner**

- Layered Mozzarella and Tomato
- Grilled Swordfish w/Chipotle Butter
- Roasted Corn w/Potatoes and Bacon
- Banana Spring Rolls w/Caramel Rum Sauce

[Chez Leon Menu](#)

Call x4598 to make your reservation.

**Search****Search the Fermilab Today Archive****Info**

about Camp Invention is that kids get to see physics in action," Jones said. "It's a completely hands-on program."

Other activities included "Problem Solving on Planet ZAK," where students crash land on an alien world and learn to survive, as well as "I Can Invent," where students disassemble old appliances, learn how they work and invent them into something else. Eight-year-old Matty said he took apart an old toaster. "It was all buttery inside," he said.

Susan Dahl, the organizer of the camp that ends Friday, said she has been touched by the enthusiasm of people in the program. "Fermilab is such a special place to come," she said. "Many of these kids will think back five, ten years from now and say 'wow, wasn't it amazing?'"  
--*Dave Mosher*

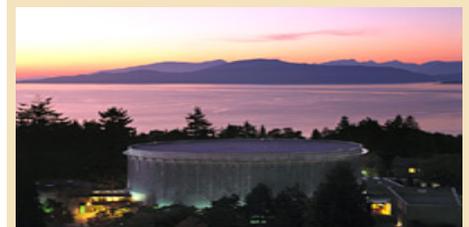
**Photo of the Day**

CD's Igor Mandrichenko snapped this picture near the Wilson Hall pond on his way home from work. (Click image for larger version.)

**In the News****CMS 101 gives lecture, lunch**

CMS 101 has been held at Fermilab since 2004. Sessions are held about every three months, with the next one tentatively scheduled for October or November. (Click on image for larger version.)

An introductory session for newcomers to CMS and to the LHC Physics Center (LPC) was held Tuesday afternoon. Participants, mostly grad-students from US universities, attended talks about CMS, the detector, the trigger system, and the software. [The 2-hour session](#) finished with introduction to the LPC and its facilities. "It went very well and people were excited," said Boaz Klima, who helped with Tuesday's session. CMS 101 celebrated the completion of the course with food and drinks.

**ILC NewsLine****Vancouver Linear Collider Workshop/GDE Meeting**

Vancouver Linear Collider Workshop, 19-22 July 2006.

*Today's issue features a Director's Corner from Gerry Dugan, GDE Americas Regional Director.*

The first GDE meeting in the Americas region since the Snowmass 2005 workshop will take place next week on

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## **CERN Press Release, July 13, 2006: Putting your computer to work to fight against malaria in Africa**

Geneva, 13 July 2006 – While you are sending an email or surfing the web, your computer could be helping to tackle one of Africa's major humanitarian challenges, malaria. Africa@home, a project conceived and coordinated by CERN[1], was launched publicly this week. It is recruiting volunteer computers in homes and offices to run a computer-intensive simulation program called MalariaControl.net[2], developed by researchers at the Swiss Tropical Institute (STI)[3].

Malaria is responsible for about a million deaths every year in sub-Saharan Africa, and is the single biggest killer in children under five. The MalariaControl.net program is being used to simulate how malaria spreads through Africa. Running the simulations on thousands of volunteer computers will enable researchers to better understand and improve the impact of introducing new treatments.

[Read More](#)

19-22 July, as a joint meeting with the American Linear Collider Physics Group (ALCPG) at the University of British Columbia in beautiful Vancouver, Canada. Information about the workshop and a complete agenda are available online.

[Read More](#)

### **Announcements**

#### **Professional Development Schedule:**

July 18: Introduction to LabVIEW  
 August 7 & 8: Verilog Introduction  
 August 9 - 11: Advanced 2001 Verilog Coding Styles  
 Sept. 11 - 15: Java: Introduction  
 Sept. 20 - 22: Advanced Perl Programming  
 Oct. 17 & 18: Advanced Python Programming

[More information](#)

#### **English country dancing**

English country dancing will continue at Fermilab's Barn, generally meeting the last Sunday afternoon of the month. The group will meet next on Sunday, July 30 at 2 p.m. Newcomers are always welcome and you don't need to come with a partner. Please contact [folkdance@fnal.gov](mailto:folkdance@fnal.gov) or call 630-584-0825 or 630-840-8194.

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

[Upcoming Activities](#)

