

Calendar[Have a safe day!](#)

Friday, July 17

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

[Joint Experimental-Theoretical](#)[Physics Seminar](#) - One West

(In conjunction with Neutrino Summer School)

Speaker: Yoichiro Suzuki,
University of TokyoTitle: An Ultimate Neutrino
Detector - Multi-Megaton
Water Cherenkov Detector

Monday, July 20

PARTICLE ASTROPHYSICS
SEMINARS WILL RESUME IN
THE FALL

3:30 p.m.

DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over
THERE WILL BE NO ALL
EXPERIMENTERS' MEETING
THIS WEEK[Click here](#) for NALCAL,
a weekly calendar with
links to additional
information.**Campaigns**[Take Five](#)[Tune IT Up](#)**Weather**
 Chance of showers
70°/52°
[Extended Forecast](#)

Weather at Fermilab

Current Security Status[Second Level 3](#)**From symmetry magazine****Dark Energy Camera scans ancient skies**

The Fermilab team that will use the Dark Energy Camera to peer deep into the dark includes, from left, physicists John Peoples, Brenna Flaugher, Juan Estrada and Tom Diehl.

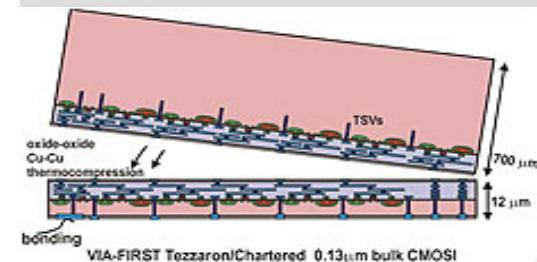
Gazing into space, scientists wonder why the universe is expanding ever faster. What mysterious force is at work? By recording the light from hundreds of millions of galaxies from a mountaintop in Chile, they hope to find out what's going on.

Imagine a camera that takes pictures of the universe not only as we see it today but back through time, closer to when the universe began, capturing images of roughly 300 million galaxies.

At Fermilab in Batavia, Illinois, Brenna Flaugher and her colleagues are building such a device. Called the Dark Energy Camera, it will survey the skies of the Southern Hemisphere and peer far back in time, allowing scientists to see galaxies as they were when the universe was only a few billion years old.

The goal is to search for signs of dark energy—the ubiquitous, invisible substance believed to make up 70 percent of the universe.

-- Kristine Crane

[Read more](#)**Photo of the Day****From ILC Newsline****3-D silicon technology project draws together industry and research for ILC**

The bonding of two electronic tiers using the oxide-oxide Cu-Cu thermo-compression technique employed by Tezzaron.

The International Linear Collider had more than a dozen circuit pixel-detector technologies to choose from for their vertex detectors. Now, they can choose from many more design options, thanks to a groundbreaking partnership among national laboratories, universities and industry.

This partnership of 17 European universities and US national laboratories with industry to explore the applicability of the 3-D silicon technology for particle physics could lead to an increase in detector precision as well as improved technology for medical applications, including X-ray machines and surgical devices.

This 3-D silicon technology project was formed in early 2006 as part of Fermilab's initiative to improve resolution and processing speed of detectors to meet the demanding ILC detector requirements. In 3-D silicon technology, thinned silicon layers are vertically bonded together and electrically connected to form one integrated unit. They can, in turn, provide more data storage space, can consume less energy, and process information quicker than traditional flat circuits.

-- Andre Sulluchuco

[Read more](#)**Announcements**

Wilson Hall Cafe

Friday, July 17

- New England clam chowder
- Black & blue cheeseburger
- Tuna casserole
- Dijon meatballs over noodles
- Bistro chicken & provolone panini
- Assorted sliced pizza
- *Carved top round of beef

Wilson Hall Cafe menu**Chez Leon**

Wednesday, July 22

Lunch

- Spinach & cheese stuffed portobello
- Mixed green salad
- Fresh fruit plate

Thursday, July 23

Dinner

- Closed

Chez Leon menu

Call x3524 to make your reservation.

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is online at:

www.fnal.gov/today/Send comments and suggestions to:
today@fnal.govVisit the Fermilab home page
[home page](#)**New employees - June 29**

First row from left: Natalie Harrison, Zackary Knoll, Gina Castelvecchi, Ievgeniia Iedemska and Krishna Bathina. Second row from left: Matthias Jamison-Koenig, Melanie Roberts, Alex Irigoyen, Braven Leung, Liana Nicklaus and Orlando Marrero. Third row from left: Debra Jones, Ami Dave, Tyler Rehak, Nick Gebbia, Alex Fitch, Konstantin Gudima and Charles H. Volk III.

In the News**I'm a particle physicist. Want to chat?**From **New York Times**, July 13, 2009

I always laugh when people say they don't want to talk to their seatmates. I'm a friendly guy and, on occasion, I wouldn't mind having a chat with a fellow passenger, especially if I'm not that busy with work.

But when my seatmates ask what I do for a living, the usual response is, "Oh" or "Oh, that sounds hard" or "Oh, I couldn't possibly do that."

I'm a physicist, and there's a perception about physics that it's somewhat of a remote discipline. People would probably love to talk to a musician or a doctor, but it's a no-go when it comes to making small talk with me.

Which is kind of amusing. As a particle physicist, I could talk to you about black holes, alternate universes and even the so-called and unfortunately named "God particle," which is really something called the Higgs boson. If it actually exists and we find it, we would be able to explain the origin of mass in the universe.

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