

## Calendar

**Wednesday, Sept. 26**  
**3:30 p.m.**  
DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over  
**4 p.m.**  
[Fermilab Colloquium](#) - One  
West  
Speaker: M. Neubert, Mainz  
University  
Title: Precision Studies in the  
Quark Flavor Sector and the  
Search for New Physics  
THERE WILL BE NO  
FERMILAB ILC R&D  
MEETING THIS WEEK

**Thursday, Sept. 27**  
**1 p.m.**  
[ILC ALCPG Physics and  
Detector R&D Seminar](#) - West  
Wing, WH-10NW  
Speaker: C. Gatto, INFN Lecce  
Title: Tracking Studies for the  
ILC  
**2:30 p.m.**  
[Theoretical Physics Seminar](#) -  
Curia II  
Speaker: M. Herquet,  
Université Catholique de  
Louvain  
Title: Twisted Higgs  
Phenomenology at Hadron  
Colliders  
**3:30 p.m.**  
DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over  
THERE WILL BE NO  
ACCELERATOR PHYSICS  
AND TECHNOLOGY  
SEMINAR TODAY

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

## Weather

## In Memoriam

### Former SLAC Director Wolfgang Panofsky dead at 88

Menlo Park, CA—  
Wolfgang K. H.  
"Pief" Panofsky,  
professor of physics  
at Stanford  
University and  
director emeritus of  
the Stanford Linear  
Accelerator Center  
(SLAC), died of a  
heart attack at his  
home in Los Altos,  
Calif., Monday, Sept. 24. He was 88 years old.



[Pief Panofsky](#)

Panofsky was a renowned particle physics  
researcher, an accelerator builder and an  
administrator of basic research. In parallel with  
his science career, he pursued two other  
interests of interrelated historical significance:  
nuclear arms control and international peace  
and security.

"Pief Panofsky's contributions to SLAC and  
the field of physics have certainly earned him  
a place in Stanford's pantheon of scholars. But  
it is equally important to note that his work on  
nuclear arms control earned him a reputation  
not just as a scientist but as a patriot whose  
life will continue to influence and inspire us for  
generations to come," said Stanford Provost  
John Etchemendy.

[Read More](#)

## Feature

### Fermilab named one of top Chicago work sites

For the second year  
in a row, the  
Department of  
Energy's Fermi  
National Accelerator  
Laboratory has  
earned a spot on the  
list of best places to  
work in the Chicago  
area.



## From Center for Particle Astrophysics

### Beyond dark energy

*Today's column is by Scott Dodelson, the  
acting head of the Center for Particle  
Astrophysics*

Recently, the [Director's  
Corner](#) highlighted the  
recommendation by the  
Beyond Einstein  
Program Assessment  
Committee to launch  
the Joint Dark Energy  
Mission as the first  
Beyond Einstein  
experiment. We at  
Fermilab are



[Scott Dodelson](#)

collaborators in one of  
the JDEM proposals,  
the SuperNova Acceleration Probe, because  
we are eager to learn more about the  
mysterious dark energy that makes up the  
vast majority of our universe. Through SNAP,  
we could understand how fundamental  
principles of physics are connected to the  
acceleration of the universe.

Besides dark energy, there is another aspect  
to the JDEM mission. In its [report](#), the  
assessment committee emphasized how  
much valuable astronomy will be learned from  
JDEM data and compared its output to that of  
the Hubble Space Telescope. The committee  
wrote that SNAP "would greatly complement  
the exquisite detail obtained from HST."

Think of what the Hubble Space Telescope  
means to the community of astronomers and  
to the public, and you get a sense of the task  
in store for SNAP. If the SNAP team can  
demonstrate that we will be able to provide  
data to interested scientists and to the public  
the way that HST does, we can improve our  
chances of being selected.

The Computing Division at Fermilab has an  
extraordinary track record of moving large  
quantities of data. In particular, it processes  
and distributes the data from the highly  
successful Sloan Digital Sky Survey. We plan  
to apply these skills to SNAP. The Center for  
Particle Astrophysics has been working on a  
resource plan for Fermilab's involvement in  
SNAP and has identified data management as



Mostly sunny 71°/48°

[Extended Forecast](#)  
[Weather at Fermilab](#)

**Current Security Status**

[Secon Level 3](#)

**Wilson Hall Cafe**

**Wednesday, Sept. 26**

- Italian wedding w/meatballs
- Diner-style patty melt
- Chicken w/Yucatan sauce
- Mongolian beef
- Greek chicken panini w/feta cheese
- Assorted sliced pizza
- Chicken w/pesto cream

[Wilson Hall Cafe Menu](#)

**Chez Leon**

**Wednesday, Sept. 26**

- Cheese ravioli w/tomato basil cream
- Italian chopped salad
- Apple walnut turnovers

**Thursday, Sept. 27**

**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**

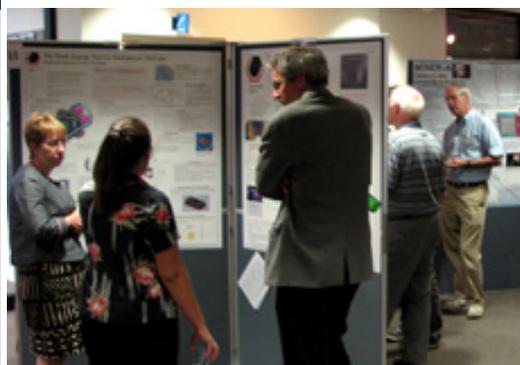
The Michigan - based National Association for Business Resources announced the 2007 winners of the "101 Best and Brightest Companies to Work For" at an August banquet in Oak Brook.

[Kay Van Vreede](#), Fermilab's head of work force development and resources, displays the NABR award.

"Being named a 'Best and Brightest' company is a powerful recruitment tool in the drive to attract and retain exceptional employees," said Jennifer Kluge, NABR president. "These are companies that work with imagination and conviction to create organizational value and business results through their policies and best practices in human resource management. We are honored to recognize their efforts."

[Read More](#)

## DOE review poster display



Scientists gather Tuesday night for the annual DOE poster session in Wilson Hall.

Each year Fermilab researchers pull out the poster board and think of colorful ways to summarize their research for the Annual DOE Program Review. This year's posters are on display now through Oct. 1 on Wilson Hall's 15th floor. They provide an excellent overview of research at Fermilab. If you can't get away from the desk, you may view a sampling of the more than 30 posters [here](#).

one area in which our laboratory could play a substantial role. This will be a challenge, one that goes far beyond the SDSS effort, but the potential gains are commensurate. We can serve national interests, help the selection chances of SNAP, and - most important - learn about the properties of the dark energy that makes up 70 percent of the universe.

**Special Announcement**

## Chicago welcomes prospective students

The University of Chicago will hold a Columbus Day open house for prospective students and their families Monday, Oct. 8, from 8:30 a.m. to 2:30 p.m. at Ida Noyes Hall, 1212 East 59th St., Chicago. The open house offers the opportunity to tour the campus, attend a class, speak with faculty about academic departments and extracurricular opportunities, eat in one of the dining halls, learn about extracurricular activities on campus and attend a session on admissions and financial aid.

Interested parents and prospective students can register for the Columbus Day open house [online](#).

**Announcements**

**Have a safe day!**

**Prairie Harvest on Oct. 6**

The first 2007 Prairie Harvest is being held in conjunction with [National Lands Day](#) on Oct. 6, 2007, from 10 a.m. to 2 p.m. More information on the event can be found [here](#). Plan to learn more about our ecology and the prairies and participate in a national program.

**FNALU inbound e-mail stopped Oct. 1**

On Oct. 1, 2007, direct e-mail delivery to FNALU nodes will cease. This change only affects delivery, not how or where mail is read. Unless directed otherwise, mail forwarding will be retargeted to the IMAP servers. Users are encouraged to move their existing mail folders to IMAP. Please read the [FAQ](#) for further details. Please contact the help desk at x2345 if you have additional questions.

**Kyuki-Do class begins on Oct. 1**

Kyuki-Do combines the kicking of Taekwon-Do, the throwing and grappling techniques of Judo and Jujitsu, and the joint locks of Hapki-Do into one art. Classes are held on Monday and Wednesday from 5 to 6 p.m. at the

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)

## When protons collide

From *Techworld*, Sept. 25, 2007

*Smashing protons together is very hard to do and, when it is done, 15 petabytes of data will be generated annually and stored on tape.*

CERN, the European Organisation for Nuclear Research, is the world's largest high-energy physics research establishment and approximately half of the world's particle physicists use its facilities.

It has embarked on a multi-year effort to find and observe some of the most elusive particles in sub-atomic physics. To find them, CERN is building the largest and highest-energy particle accelerator in the world at its Geneva headquarters. This is the LHC, the Large Hadron Collider (protons belong to a class of subatomic particles called hadrons).

[Read more](#)

### In the News

## Colors and shapes: The magic of Fermi

From *The Daily Herald*, Sept. 26, 2007

In seven-plus years of shooting photos at Fermilab, I've learned some things: There's lots of science stuff there.

The science people, or scientists as they like to be called, have their own language with lots of long, complicated science-y words. I've come to learn that neutrinos are in no way related to Cheerios and that the Tevatron is not an arcade game that I once had the high score on at the Charlestowne Mall.

[Read more](#)

Recreation Facility in the Village. Teacher Bruce Worthel will focus on a practical self-defense that can be used by women or men. You will learn kicks, blocks, hand techniques, throws, pins and self-defense. You will learn forms that teach you balance, power and grace. Register through the Recreation Office; classes cost \$45 per six-week session. You must be a member of the Recreation Facility to join.

### Exciting Explorations fall program

Exciting Explorations will take place the following dates: Monday, Oct. 8 (Columbus Day); Monday, Nov. 19; and Tuesday, Nov. 20. Additional days may be added if there is enough interest. The cost is \$35 per day per child. Two snacks and beverages are included; lunch is not provided. Please call Patti or Mary Simmons at x3762 to register your child or send an [e-mail](#) to request additional days.

### Interpersonal Communication Skills

Learn effective communication strategies by assessing your communication style and developing skills for more productive work relationships through the Interpersonal Communications Skills course on Oct. 18. For more information and enrollment, go to the [Web site](#).

### [Additional Activities](#)