

## Calendar

Friday, Oct. 31  
10:30 a.m.

[Research Techniques Seminar](#) -

Curia II

Speaker: Harry van der Graaf,  
NIKHEF

Title: GridPix/Gossip

3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd  
Flr X-Over

4 p.m.

[Joint Experimental-Theoretical](#)

[Physics Seminar](#) - One West

Speaker: Kendall Mahn, Columbia  
University

Title: MiniBooNE Muon Neutrino and  
Muon Antineutrino Disappearance  
Results

Monday, Nov. 3  
11 p.m.

[Presentations to the Physics Advisory](#)  
[Committee](#) - Curia II

2:30 p.m.

[Particle Astrophysics Seminar](#) - One  
West(NOTE LOCATION)

Speaker: Ashley Ross, University of  
Illinois, Urbana-Champaign

Title: Characterizing the Universe via  
Nth-Order Galaxy Correlation  
Functions

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.

## Weather



Sunny 69°/44°

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

[Current Security](#)  
[Status](#)

## From *Interactions.org*

### New Director-General for DESY



Helmut Dosch *Image*  
*courtesy of Max*  
*Planck Institute*

*Professor Helmut Dosch*  
*takes the Chair of the*  
*DESY Directorate*

Professor Helmut Dosch will become the new Chair of the Directorate of the Research Centre DESY. Solid-state physicist Helmut Dosch, born in Rosenheim, Bavaria, is at present Director of the Max Planck Institute for Metals

Research in Stuttgart and professor at the University of Stuttgart. On March 1, 2009, he will replace Professor Albrecht Wagner as Chair of the DESY Directorate who has served as DESY Director since 1999.

“DESY is a brand name standing for top research worldwide. With the new accelerator facilities which are currently built in Hamburg, DESY will shed light on so far unexplored dimensions in nanospace and will continue to play a leading role in the international top league of large-scale research,” explains Helmut Dosch. “Particularly, we will further strengthen the collaboration with CERN and the University of Hamburg and create a magnet for junior scientists.”

Albrecht Wagner, present Chair of the Directorate: “I am very pleased to be able to welcome Helmut Dosch – an outstanding scientist and experienced leader – as my successor. With him at the helm, DESY will be well prepared for future challenges.”

[Read more](#)

## From *ISGTW*

### A fine-grained approach to “cool” simulations

When deciding how best to design equipment in a chemical plant that produces liquid nitrogen, designers must know the properties of a mixture of nitrogen and oxygen gas at various stages as it cools and compresses. Researchers at the State University of New York at Buffalo have developed a new simulation technique that makes calculating these properties much more efficient.

OSG is “the ideal workhorse”

The new technique involves running simulations on the

## In Brief

### Lattice QCD computer arrival



Packaging for nearly 300 computers sits on the lawn of Fermilab's Grid Computing Center. The computers are currently being installed as part of Fermilab's lattice computing center.

Earlier this week, Fermilab received a delivery of 300 new computers for a computing cluster dedicated to calculations of lattice gauge theory.

The computers are currently being installed in the Grid Computing Center. The Lattice QCD project operates a cluster of more than 1,300 high-performing computers in the Lattice Computing Center that crunch numbers for lattice quantum chromodynamics (QCD) calculations.

Physicists use the cluster for lattice QCD calculations to try to understand the strong dynamics of quarks and gluons. Lattice QCD plays an increasingly crucial role in analyzing the parameters of the Standard Model.

Fermilab is a leading institution for the Department of Energy's national program to develop computing hardware and software for U.S. lattice gauge theory. In 2008-2009, Fermilab will be the primary institution to receive hardware for this program.

-- *Rhianna Wisniewski*



Technicians install new computing hardware into the lattice computing cluster in the Grid Computing Center.

[Second Level 3](#)[Wilson Hall Cafe](#)

Friday, Oct. 31

- New England clam chowder
- Black & blue cheese burger
- Tuna casserole
- Smart cuisine: Dijon meatballs over noodles
- Bistro chicken & provolone panini
- Assorted sliced pizza
- \*Carved top round of beef

\*Carb restricted alternative

[Wilson Hall Cafe Menu](#)[Chez Leon](#)Wednesday, Nov. 5  
Lunch

- Chicken Marsala
- Carrots with garlic and rosemary
- Rum pecan cake

Thursday, Nov. 6  
Dinner

- Corn chowder
- Mahi mahi
- Island rice
- Sautéed pea pods
- Key lime pie

[Chez Leon Menu](#)

Call x4598 to make your reservation.

[Archives](#)[Fermilab Today](#)[Result of the Week](#)[Safety Tip of the Week](#)[ILC NewsLine](#)[Info](#)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)

grid unfeasible on a single computer because they require large amounts of computing power. Andrew Schultz, a SUNY-Buffalo chemical and biological engineering researcher, said Open Science Grid (OSG) is "the ideal workhorse" to run these simulations. Schultz and his team have run more than 60,000 jobs on OSG resources since January—an order of magnitude jump in productivity.

[Read more](#)-- *Amelia Williamson, iSGTW*[In the News](#)**How to repair the biggest science experiment in the world**From *Nature News*, Oct. 29, 2008*Physicists get CSI on the LHC*

Physicists are close to finalizing a repair plan for the Large Hadron Collider (LHC), the world's most powerful particle accelerator located at CERN, near Geneva in Switzerland.

The LHC has been out of commission since mid-September after an electrical fault destroyed part of the machine and caused several tonnes of liquid helium to leak into the tunnel (see 'Eight month delay for LHC'). The incident damaged up to 29 of the LHC's superconducting magnets and contaminated the pristine 'beam pipe' that carries protons around the collider's ring. Physicists hope to have the machine repaired and ready for first collisions by May or June 2009.

But simply replacing the damaged magnets will not be enough — physicists and engineers at CERN must also ensure that a similar accident cannot occur in the future. "The real question is how did this happen?" says Lucio Rossi, a CERN physicist who's helping to oversee the repairs.

[Read more](#)[Announcements](#)[Have a safe day!](#)

## Traffic safety poster contest for kids entries due today

The Traffic Safety Subcommittee is sponsoring a traffic safety poster contest for fourth and fifth grade students of Fermilab employees, users and contractors. The posters should promote increased traffic safety awareness. Entries are due Oct. 31. The contest winner will be announced in *Fermilab Today*. The top posters will be displayed in the Wilson Hall atrium. For more information and an entry form, [click here](#).

## Change clocks, batteries in smoke detectors Saturday

The Fermilab Fire Department would like to remind everyone that Daylight Saving Time ends this weekend. When changing your clocks back this Saturday, Nov. 1, remember to replace the batteries on your smoke detectors and CO detectors. This is also the perfect time to test your smoke detectors to make sure they are working properly. If you have any questions regarding fire safety, please feel free to contact the Fire Department at x3428.

## Yoga class begins Nov. 4

The next session of yoga will begin on Nov. 4. The class will take place on the stage of Ramsey Auditorium from noon-1 p.m. through Dec. 16. The seven-week class costs \$70. Register through the Recreation Department, WH15W, or call x4527.

## Interpersonal Communication Skills course Nov. 11

A course in interpersonal communication skills will take place Nov. 11 for scientific, computing, engineering and technical staff. Attendees can increase their awareness of their communication skills and personality type. Attendees can also develop skills for more productive work relationships. [Learn more and enroll](#)

## Classifieds

Find new [classified ads](#) on *Fermilab Today*.[Additional Activities](#)