

## Calendar

Tuesday, November 2

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. Accelerator Physics and  
Technology Seminar - 1 West

Speaker: P. Piot, Fermilab

Title: Flat Electron Beam Production in  
a Photoinjector: Status and Prospects

Wednesday, November 3

11:00 a.m. Fermilab ILC R&D Meeting -  
1 West

Speaker: N. Solyak, Fermilab

Title: 3.9 GHz Accelerating Cavity  
Fabrication at Fermilab: Status and  
Plan

Speaker: L. Bellantoni, Fermilab

Title: 3.9 GHz Deflecting Cavity  
Fabrication at Fermilab: Status and  
Plan

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. Fermilab Colloquium - 1  
West

Speaker: G. Greene, University of  
Tennessee/Oak Ridge National  
Laboratory

Title: Parity Violation, Time Reversal  
and the Neutron: Nuclear and Particle  
Physics at the Spallation Neutron  
Source

## Wilson Hall Cafe

## Astronomer First to Conduct Research at Fermilab From An Indonesian Institution



Chatief Kunjaya is the first Fermilab User  
from an Indonesian institution ([Click on  
image for larger version.](#))

Chatief Kunjaya's three-month stay at  
Fermilab this fall makes him the first  
Fermilab user from an Indonesian  
institution. Kunjaya is an assistant  
professor at the Institut Teknologi in  
Bandung, the capital of the West Java  
province, and is working with the  
Experimental Astrophysics Group on  
the Sloan Digital Sky Survey.

Kunjaya would like to see Indonesian  
astronomers -- many of whom have  
returned from graduate studies in the  
U.S., Europe, or as in his case, Japan --  
strengthen their international ties. "I  
hope we can establish a continuous  
collaboration between Indonesian  
astronomers and Fermilab," he said.

After the 1997 South-East Asian  
financial crisis, it has become  
especially difficult for Indonesian  
researchers to get funding, Kunjaya  
said. The public availability of the  
SDSS data makes it possible for  
scientists to work with limited

## Director's Corner

### Good Morning!

Fermilab is in the  
eleventh week of an  
annual shutdown,  
and the work is  
going well.



Mike Witherell

A large amount of  
important work was  
planned for this  
shutdown. The installation and repair  
work in the Proton Source is complete  
and the Linac and Booster are  
operating and being tuned. The new  
focusing horn for the MiniBooNE  
beamline has been installed and is  
ready for power testing. Installation of  
the NuMI kicker magnets into the Main  
Injector is complete. Installation of the  
electron cooling apparatus into the  
Recycler continues to make progress  
toward completion right at the end of  
the shutdown, as planned. In the  
Tevatron, new separators have been  
installed, many magnets shimmed, and  
alignment work done. A great deal of  
survey and alignment work has been  
done, including on the transfer lines in  
the antiproton source.

The Accelerator Division has managed  
to keep the work on the thirteen-week  
schedule, although a great deal of  
work still lies ahead. It can be very  
difficult to maintain schedule at the  
end of a shutdown, when vacuum  
leaks and cooldown problems can  
cause delays. But the carefully  
planned shutdown work has gone well

Tuesday, November 2  
Chicken & Rice Soup  
Mushroom Swiss Burger \$4.75  
Baked Meatloaf with a Roasted Tomato  
Demi-Glace \$3.75  
Parmesan Baked Fish \$3.75  
Southwestern Turkey Wrap \$4.75  
Ham & Pastrami Calzones \$3.25  
Burritos with Chips & Queso \$4.75

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

#### Weather



Chance Showers 52°/39°

[Extended Forecast](#)

[Weather at Fermilab](#)

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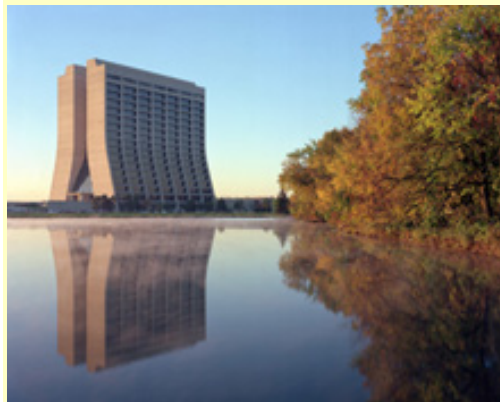
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resources. "We found that there is a way to do research with a virtual observatory," he said.

Still, it's not easy to start an SDSS project anywhere in the world. "The problem is, the data is so enormous it is necessary to get experience using the database tools," he said. Fermilab's software allows effective ways of searching and analyzing it, he said. Kunjaya said his Fermilab tour is crucial for him to establish contacts and to familiarize himself with the methods they developed.

Kunjaya studies quasars, some of the oldest and most powerful sources of light in the universe -- but also some of the most mysterious. Kunjaya has developed a quasar model based on "cellular automata" -- a mathematical tool invented in the 1940s by John von Neumann and Stanislaw Ulam -- and wants to test his model against the SDSS observations.

### Teaming Up For Safety



so far. Thanks to everybody across the laboratory involved in the planning and execution of this effort.

We have had a couple of injuries serious enough to result in work restrictions this month. These occurred despite the good effort people have made to plan their work. It is time for the entire laboratory to start another long stretch without a DART injury case.

#### Accelerator Update

October 22-October 29

Tevatron: D17 separator installation - 99% complete

Linac: Up and running.

Booster: Hit 4E12 at 70% efficiency.

Antiproton Source: The Kicker beam pipe coating was completed.

Main Injector/Recycler: The overall MI-31 Electron Cooling is 69% complete.

MiniBooNE: The Horn was tested on October 29th.

NuMI: The horn has been successfully tested.

[Read the Current Accelerator Update](#)

[View the Tevatron Luminosity Charts](#)

#### Announcements

Power Outage News

PS3, Pagoda, PC2, PC3, and possibly PW5

November 2 – The power will be off to these Proton areas to repair an oil switch starting at 8 AM on Tuesday, if it isn't raining. The work will end sometime on Wednesday.

Meson and Radiation Facility

November 6 – The power will be off to Meson and the Radiation Facility for five hours on Saturday beginning at 7 AM.

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The Oct. 20th Wilson Hall fire drill was a success, said Building Manager Stanley Boyson, thanks to the collaboration of the wardens, the Fire Maintenance System crew, the Fire Department and all employees.

Beginning at 9 a.m., the 1-1/2 hour evacuation plan proceeded in four steps, starting from the top and going down -- three floors at a time for floors 16-7, then all at once from the sixth floor down. In case of fire, smoke travels upwards and those who are on the top floors are most at risk of suffocating, Boyson said. "An effective evacuation plan has the power to save lives," he said.

October 3-9 was national Fire Prevention Week, and Chicagoland residents are especially aware of fire hazards in high-rise buildings, Boyson said, after last year's Cook County building fire in downtown Chicago took six lives. "There's more alertness," he said.

All Wilson Hall alarm sirens, voice instruction systems and strobes were reported in good order.

#### **In the News**

### **From the *Chicago Tribune*, November 1, 2004**

**States collide on science project**

*Illinois lobbies for new isotope lab*

**By Jon Van**

Isotopes, unstable atomic forms that are of interest primarily to scientists and crossword puzzle enthusiasts, are, of late, catching the attention of politicians from Illinois and Michigan.

#### **Wilson Hall**

November 14 – The power will be off to Wilson Hall for ten hours on Sunday, beginning at 7 AM.

#### **Budker Seminar Tomorrow**

There will be a Budker Seminar on November 3, 2004 in the Users' Center Music Room.

Talk Title: "Optimization of TeV Phase Space Parameters"

Speaker: Alexey Poklonskiy - Michigan State University

Pizza, beer and soft drinks will be served at 6:00 p.m.

#### **New Books in the Fermilab Library**

New books in the Fermilab Library for the week of November 1 are now on display in the Library near the front desk. An [online list](#) of the of new books is now available. New books may be reserved by using the [online Library catalog](#), by calling the library at x3401, or by filling out the reserve card in the book.

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

The federal government plans to spend about a billion dollars in the coming years to build a new isotope lab, and the smell of jobs has aroused interest from congressional delegations and governors.

[Read more](#)