

Calendar

Monday, July 11

PARTICLE ASTROPHYSICS SEMINARS
WILL RESUME IN THE FALL

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

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

Tuesday, July 12

12:00 p.m. Summer Lecture Series - 1
West

Speaker: A. Lennox, Fermilab

Title: Neutrons Against Cancer

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO ACCELERATOR
PHYSICS AND TECHNOLOGY
SEMINAR TODAY

Weather



Partly Cloudy **93°/67°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Sloan Digital Sky Survey Extended to Second Run



This image of the galaxy NGC 6070, which is more than 100 million light years away, was taken during the Sloan Digital Sky Survey's first run.

Over the past five years, the Sloan Digital Sky Survey mapped one quarter of the nighttime sky, identifying more than 100 million stars, galaxies and quasars. Now, with additional funding from the NSF, the Alfred P. Sloan Foundation, and participating institutions, the survey will continue through mid-2008, expanding its horizons to study the expansion of the universe and the formation of galaxies.

"This fundamental science will allow us to continue testing cosmological models," said SDSS director Rich Kron, of Fermilab and the University of Chicago.

The extension, which officially began on July 1, has three purposes. The first is to continue mapping the skies to create an even larger, contiguous chart of the heavens. The survey's first run mapped over 7,000 square degrees of the sky in two oval-shaped regions; the second run will fill in the gap between these two areas, creating one large map.

Safety Tip of the Week

ES&H Concern?

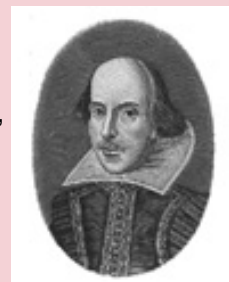
Fermilab's management has set high standards for ES&H performance. One key to success is the prompt resolution of ES&H concerns that are identified by the people who work here. In most cases, such matters can be satisfactorily addressed through interactions at the work-group level - co-workers and supervisors.

Sometimes, though, the involvement of ES&H professionals, or people further up the management chain, may be needed to get issues resolved.

Less often, these standard approaches can be ineffective or unusable. For

example, the process may simply fail to address the concern, or the identity of the organization that owns the concern may be unclear, or the observer may fear retribution for reporting the concern. Fortunately, there is an electronic reporting system that helps avoid these problems.

Go to the [ES&H Section's website](#) and click on the Quick Link labeled Report ES&H Concern. From there you will be given a choice of Safety Concern or Suggestion Box. Click on the Safety Concern link if you are willing to identify yourself. This is the preferred approach. If



"Out of this nettle,
danger, we pluck
this flower, safety."

William Shakespeare
(1564-1616), from
King Henry the Fourth,
Part I.

Monday, July 11

Potato Au Gratin

Chicken Pot Pie \$4.85

Savory Roasted Chicken Quarters \$3.75

Lasagna Bolognese \$3.75

Chicken Ranch Wrapper \$4.85

Assorted Pizza Slices \$3.00

Szechuan Style Pork Lo Mein \$4.85

The Wilson Hall Cafe now accepts Visa, Master Card, Discover and American Express at Cash Register #1.

[Wilson Hall Cafe Menu](#)

[Chez Leon](#) is now open. Call x4512 to make your reservation.

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In its second goal, the survey will scan the sky for supernovae to help measure dark energy. By tracking the brightness of supernovae over time, researchers will be able to accurately measure the rate at which the universe expands. Because this expansion is propelled by dark energy, the survey will help quantify the characteristics of dark energy in the universe.

The survey's third and final purpose is to measure the amount of dark matter in the Milky Way. Stars in the outer parts of our Milky Way are observed to travel faster than can be explained by the gravitational pull of other luminous stars alone, suggesting that dark matter also propels their movement. "Along with dark energy, this is the biggest challenge for astrophysics right now," said Fermilab scientist Brian Yanny. By measuring the speeds of these stars, the Sloan Extension for Galactic Understanding and Exploration (SEGUE) will attempt to quantify the amount and distribution of dark matter in our galaxy.

"These three goals make for a very ambitious project," said Steven Kent, the head of survey operations at Sloan and the head of Fermilab's Experimental Astrophysics Group. "We're taking not just one leap forward, but two."

--*Kelen Tuttle*

Accelerator Update

your identity is known, it makes it easier to understand the issue and make sure the results are reported back to you. By default, the message is routed to your Senior Safety Officer, though you can select another SSO if that seems appropriate.

Alternatively, you can click on the Suggestion Box link if you wish to remain anonymous. Fermilab's management does not want any ES&H issue to go unaddressed for fear of retribution or embarrassment.

Have a great day and let's work safely all week!

[Safety Tip of the Week Archive](#)

Announcements

Fermilab Science - The Witherell Years

On Thursday, July 14, there will be a symposium and reception to honor the former director, Mike Witherell. The symposium will begin at 1:00 p.m. in Ramsey Auditorium. A reception will follow in the Wilson Hall atrium from 5:00 p.m. to 6:00 p.m.

[more information](#)

Cake and Ice Cream with Mike

Come and say thanks and wish good luck to our departing Director and his family on Thursday, July 14th in the Atrium from 11:45 a.m. to 12:45 p.m.

[more information](#)

Upcoming Classes

July 18 - 21: Learning Perl

July 19 & 20: Interpersonal Communication Skills

[more information](#)

TeV Particle Astrophysics Conference

July 6 - July 8

- During this 48 hour period Operations established two store that combined with an existing store provided the experiments with 32 hours and 30 minutes of luminosity
- MI damper, beam loading, and feed forward problems
- New LRF4 PA has trouble conditioning

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

In the News

From *Nature Magazine*, July 1, 2005

Artists and scientists conspire at conference

Cartoons and morphing software may help to convey scientists' finds.

by Philip Ball

"We must do this more often" was the constant refrain at a gathering of scientists, artists, film makers, designers, writers, editors and art historians at a meeting in Los Angeles. They were there to explore the use of images in science, for both understanding data and communicating it to others.

Image and Meaning 2, held from 23 to 25 June at the Getty art museum, was the successor to the first conference of this sort, staged in 2001 at the Massachusetts Institute of Technology (MIT) in Boston.

[Read more](#)

The TeV Particle Astrophysics Conference will take place at Fermilab on July 13 through July 15. Registration is free.

[more information](#)

Scottish Country Dancing

Scottish Country Dancing will meet Tuesday, July 12, in Ramsey Auditorium in Wilson Hall. Instruction begins at 7:30 p.m. and newcomers are always welcome. Most dances are fully taught and walked through, and you do not need to come with a partner. Dancing will continue in the auditorium through the summer. Info at 630-840-8194 or 630-584-0825 or folkdance@fnal.gov.

Fermi Singers Perform on August 14

The Fermi Singers will perform at the Batavia Fine Arts Festival on Sunday, August 14 at noon. [more information](#)

Fermi Days at Great America in July - \$25 Tickets

Enjoy a day at Great America for only \$25.00. The Recreation Office has designated July 9, 10, 23 & 24 as Fermi Days at Great America. Purchase tickets in the Recreation Office for only \$25.00 and enjoy one of these days at Great America with your friends and family.

[more information](#)

[Upcoming Activities](#)