

## Calendar

### Wednesday, May 4

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

Speaker: A. Juste, Fermilab

Title: Overview of Top and QCD at the ILC

**12:00 p.m.** Wellness Works & The Fermi Creative Writers Club - Brown Bag Seminar - 1 West

Speaker: S. Weller (Author of The Bradbury Chronicles)

Title: Predicting the Past; Remembering the Future

**2:00 p.m.** Proton Driver General Meeting - 1 West

Speaker: H. Nguyen, Fermilab

Title: Instrumentation Development for Proton Driver Era Kaon Experiments

Speaker: P. Limon, Fermilab

Title: SMTF Status and Plan

**3:30 p.m.** DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

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

Speaker: D. Bryman, University of British Columbia

Title: Decays: Status and Prospects of Experiments

### Thursday, May 5

**1:30 p.m.** Special Particle Astrophysics Seminar (NOTE DATE, TIME, LOCATION) - One North

Speaker: M. Jarvis, University of Pennsylvania

Title: Cosmological Constraints from the CTIO Weak Lensing Survey

**2:30 p.m.** Theoretical Physics Seminar - Curia II

Speaker: B. Ermolaev, Ioffe Physics

## Sci-Fi Writers Visit Lab For Ideas and Information



AD's Bill Higgins, at far right, explains Foucault's Pendulum to a group of SFWA members. (Click on image for larger version.)

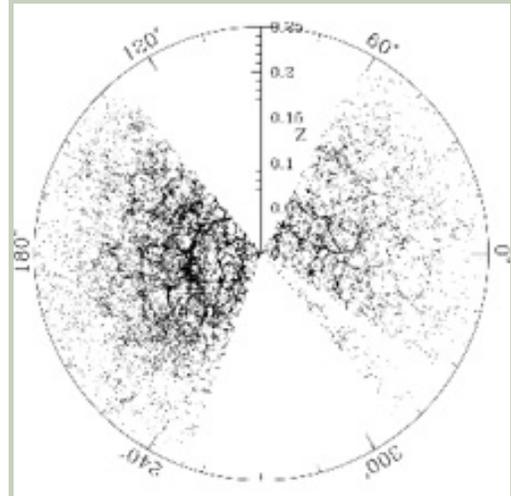
Last Friday, April 30, a group from the Science Fiction and Fantasy Writers of America visited Fermilab and Argonne National Laboratory to broaden their knowledge of science and gather new story ideas. The SFWA members were in Chicago last weekend for the 2005 Nebula Awards, given for excellence in science fiction and fantasy writing based on the judgment of their peers.

Accelerator Division's Bill Higgins gave the dozen writers an afternoon tour of the lab. Higgins is not a science fiction writer, but was asked to lead the tour because of his decades-long activity in the sci-fi community. "These folks have fun learning about science," said Higgins. "I wanted to give them an opportunity to explore real science."

While SFWA members write fiction, getting the science right in their stories is important. "We are science fiction writers," said June Jewell, executive director for SFWA. "There are a lot of scientists in our audience, and they want

## Astrophysics Result

### SDSS Spectroscopic Survey Shows Spongy Distribution of Galaxies in the Universe



This "pie diagram" shows the distribution of galaxies found by the SDSS redshift survey out to redshift 0.25, corresponding to a comoving distance of 3.3 billion lightyears. The SDSS is the largest redshift survey of galaxies ever. (Click on image for larger version.)

The Sloan Digital Sky Survey is really two surveys wrapped into one project. The first survey is the photometric survey, which takes 5-color images of the night sky. The photometric pipeline software identifies astronomical objects in these images and determines their positions, brightnesses and sizes. However, these observations do not reveal the distance to any object. Finding out the distance to any object is the task of the second survey inside the SDSS - the spectroscopic survey using the SDSS spectrograph. A spectrograph works like a prism, deflecting light of different wavelengths (colors) by different amounts and creating a spectrogram (or simple spectrum). Each kind of astronomical object has its unique fingerprint in a spectrogram, allowing astronomers to

Technology Institute

Title: Impact of the Total Resummation of the Leading Logarithms on the Small x Behavior of the Spin Structure Function g1

**3:30 p.m. DIRECTOR'S COFFEE**

BREAK - 2nd Flr X-Over

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

## Weather



Sunny **64°/38°**

[Extended Forecast](#)

[Weather at Fermilab](#)

## Current Security Status

[Secou Level 3](#)

## Wilson Hall Cafe

**Wednesday, May 4**

French Onion Soup

Texas Style Meatloaf Sandwich \$4.75

Grilled Chicken with Black Bean & Corn

Salsa \$3.75

Kielbasa & Sauerkraut \$3.75

Three Cheese & Tomato Panini \$4.75

Sausage & Pepperoni Combo \$2.75

Fettucini Carbonara with Ham &

Mushrooms \$4.75

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.

## Search

good science as well as a good story."

Richard Lovett, a professional geoscience writer and a part time sci-fi writer, came to the labs looking for inspiration. On seeing the Crockcroft-Walton he said, "You see this stuff and it fires your imagination. You can't get much better than Fermilab."

*-Eric Bland*

## Judy Huite Heading Home For Gardening and Travel

After serving the Fermilab community for nearly 16 years in a variety of roles, Directorate's Judy Huite retired on May 2. The O'Fallon, Illinois native and her husband, Bob Huite of Business Services, who will

retire next week, plan to move back to the downstate area,

across the Mississippi

River from St. Louis.

"My husband and son

are big Cardinals and

Rams fans," said

Judy, who has family in the area. Judy considers Business Services her home,

but she has also worked in the Directorate, FESS, AD and PPD, and

spent a summer working for former director Leon Lederman. Wherever there

was a need for administrative support, Judy was on call to help. "I will definitely

miss the people," she said. "Everyone is laid back, friendly, and very nice."

Judy is excited about retirement. "This really is a milestone. I now get to do all

the things I want to do," she said. She plans to spend her time traveling with

Bob, and gardening. In a few years, she and Bob plan to visit Svendborg,

Denmark, where they were married almost 25 years ago.



[Judy Huite plans to move downstate, garden, and travel.](#)

determine whether an object is a star in our own galaxy or in another galaxy, or a quasar (a very luminous object powered by the release of gravitational energy from matter falling into a supermassive black hole). The universe's expansion makes the light from distant objects appear redder when it arrives on Earth than when it was

originally emitted. The amount of this redshift encodes the distance to the object.

This figure, created by Fermilab alumnus

Michael Blanton (now at NYU), shows the

distribution of nearby galaxies found by the

SDSS in a small slice of the sky. On small scales, the galaxy distribution is not

homogeneous; but there is structure on all scales, starting from groups of galaxies

with just 2 or 3 members, to clusters of tens or hundreds of galaxies, and up to

superclusters - clusters of galaxy clusters. Conversely, there are big voids in the

galaxy distribution - vast stretches of space which are really mostly empty, and

of comparable size to the superclusters. The SDSS is the biggest redshift survey

so far, charting these clusters and voids in a large fraction of the sky visible

outside the Milky Way, beautifully showing the spongy structure of the

universe. All SDSS data are [available online](#).

[Result of the Week Archive](#)

## Announcements



[Michael Blanton of NYU contributed to this result.](#)

Info

Fermilab Today is online at:  
<http://www.fnal.gov/today/>

Send comments and suggestions to  
[today@fnal.gov](mailto:today@fnal.gov)

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- Eric Bland

Photo of the Day

Let's Play Chess



Bradley Guan waits for a challenger in Fermilab's cafeteria last week.(Click on image for larger version.)

Last Friday afternoon, a very patient 7-year-old Bradley Guan waited in the Fermilab cafeteria for a scientist to play a game of chess with him. Bradley Guan had the day off from school, and his dad, Computing Division's Richard Guan, had arranged for his son to play chess with Fermilab Chess Club President Lenny Spiegel.

When Spiegel got held up in a meeting, Bradley Guan and his dad decided to open the game up to anyone who wanted to play. Eventually Brian Yanny, of the Experimental Astrophysics Group, challenged Bradley Guan to a game. "Bradley won 6th place in a State Chess Tournament in February and 15th place in the Illinois 2005 Scholastic State Chess Championships (2nd and 3rd Grade Division)," said Richard Guan. "He admires all scientists and dreams of watching their work and playing chess with the Fermilab Chess Club."

-Elizabeth Clements

In the News

Monthly Windows Policy Committee Meeting

The monthly Windows Policy Committee meeting will be on Wednesday, May 4 from 1:30-2:30pm in WH5SW. For more information, contact [winpol@fnal.gov](mailto:winpol@fnal.gov).

Brown Bag Seminar Today

There will be a Brown Bag Seminar on Wednesday, May 4 from noon to 1:00 p.m. in One West. Wellness Works will present, "Predicting the past; Remembering the future." The presenter, Sam Weller, is the author of "The Bradbury Chronicles" the recently published, authorized biography of Ray Bradbury.

Save the date! Witherell Symposium, Reception on Thursday, July 14

Fermilab will hold a symposium, "Fermilab Science: The Witherell Years" in honor of Michael Witherell, who will leave his position as director on June 30. The Symposium will be held in Ramsey Auditorium on the afternoon of July 14, and will be followed by a labwide reception at 4:30 p.m. in the Wilson Hall atrium. *Fermilab Today* will publish more details as soon as they are available.

Mail a Scientist

Today, the US Postal Service begins the sale of four new stamps honoring American scientists. The stamps feature images of physicists Richard Feynman and Josiah Willard Gibbs, mathematician John von Neumann, and geneticist Barbara McClintock.

[More Information](#)

International Folk Dancing

International Folk Dancing will meet Thursday, May 5, at Kuhn Barn on the

## **FYI: AIP Bulletin of Science Policy News, May 3, 2005**

### **Senators Support Higher Funding for DOE Office of Science**

More than two-thirds of U.S. senators have signed a letter recommending an increase of 3.2% in the FY 2006 DOE Office of Science budget. Senator Lamar Alexander (R-TN) and Senator Jeff Bingaman (D-NM) were joined by 66 of their colleagues in signing a letter to Energy and Water Development Appropriations Subcommittee Chairman Pete Domenici (R-NM) and the subcommittee's Ranking Member Harry Reid (D-NV) advocating a \$3.715 billion budget for the Office of Science.

[read more](#)

Fermilab site. Dancing begins at 7:30 p.m. with teaching earlier in the evening and request dancing later on. Newcomers are welcome and you do not need to come with a partner. A workshop with Bulgarian Daniela Ivanova, and live accordion music by Angel Nazlamov is planned for May 12. Info at 630-584-0825 or 630-840-8194 or [folkdance@fnal.gov](mailto:folkdance@fnal.gov).

### [Upcoming Activities](#)