

Calendar

Mon., July 16

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

Special Topic: NuMI Horns

Tue., July 17
11:00 a.m.

Theoretical Physics Seminar - Theory Conference Room, WH-3NE (NOTE DATE, TIME, LOCATION)

Speaker: P. Huber, University of Wisconsin

Title: Future Long-Baseline Neutrino Experiments

12:00 p.m.

Summer Lecture Series - Hornets Nest, WH-8XO (NOTE LOCATION)

Speaker: N. Saoulidou, Fermilab

Title: Neutrino Physics and Experiments

3:30 p.m.

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

4:00 p.m.

Accelerator Physics and Technology Seminar - One West

Speaker: F. Lin, Indiana University

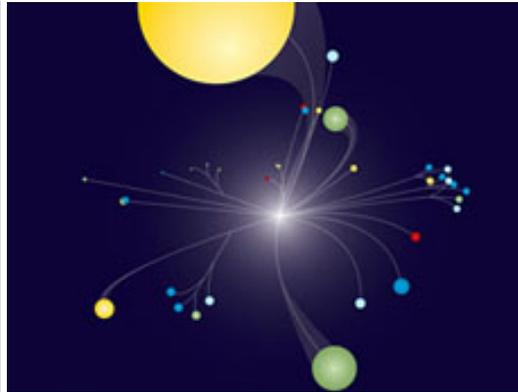
Title: Exploration of Spin Resonances with Dual Partial Siberian Snakes in the AGS

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

Weather

Feature

Fermilab goes to ILC School



Artist's impression of a particle collision inside the ILC. (Credit Sandbox Studio)

Although Rob Roser, co-spokesperson of CDF, has a busy schedule, he's taking the time to attend a three-day Fermilab ILC school on July 25-27. He hopes not only to find out the latest information on Fermilab's ILC efforts, but also to learn how to communicate those efforts to the public. "I know how to talk to other scientists about the ILC, but that doesn't translate easily to the public," Roser said. The school's organizers hope the program will respond to growing interest in the ILC for other members of the Fermilab community as well.

The goal of the program is to educate the Fermilab staff and user community on the ILC and encourage active engagement in the project's R&D at Fermilab. Bob Kephart, Fermilab ILC director, will present an introduction to the proposed collider project, and Mike Harrison, ILC Americas regional director, will discuss the role of Fermilab and the Americas in the global ILC effort. As part of Fermilab's ILC R&D participation, laboratory scientists have been working to develop a range of ILC components, with a focus on superconducting cavities. Hasan Padamsee, Cornell University professor and superconducting technology expert, will discuss the latest technological advancements and Fermilab's role in future developments.

"This school will help keep members of the Fermilab community informed about the ILC and Fermilab's role in the R&D program," said Shekhar Mishra, deputy director for the ILC program at Fermilab. "Hopefully it will motivate

Safety Tip of the Week

Ask an expert



"An expert is a man who has made all the mistakes which can be made, in a narrow field." -- Niels Bohr 1885-1962, Nobel Prize for Physics 1922.

Work processes for some Fermilab employees are fairly predictable. Their routine allows them to carefully analyze and subsequently implement measures to assure that their tasks have been completed efficiently and safely.

Unfortunately, much of our work has a non-routine nature and success rests heavily on the worker's problem solving skills. We recently had a few incidents at Fermilab where workers failed to realize what they didn't know, and wound up getting hurt.

At Fermilab, there are two basic approaches to deal with a task: ask an expert or handle it yourself. The former is generally preferred since it is more efficient, requires less effort and has a greater probability of getting the job done right. You should start by asking your expert to explain the correct way to do the task. Make sure they include potential problems and how to handle them. This information was missed in the recent incidents. If possible, ask the expert to demonstrate the technique while you watch, then have the expert watch while you perform the task.

So how do you find a knowledgeable expert at

**Chance of****Thunderstorms 83°/64°**[Extended Forecast](#)[Weather at Fermilab](#)[Current Security Status](#)[Secon Level 3](#)[Wilson Hall Cafe](#)**Monday, July 16**

- No menu available at this time

[Wilson Hall Cafe Menu](#)[Chez Leon](#)**Wednesday, July 18****Lunch**

- Shrimp & barley salad w/ green beans
- Summer melons in spiced white wine

Thursday, July 19**Dinner**

- Grilled portobello and red pepper salad
- Scampi
- Vegetable of the season
- Chocolate strawberry shortcake

[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/Send comments and suggestions to: today@fnal.gov

more people to get involved and help them make an informed decision on how they would like to contribute and join in the effort."

Each day of the school includes a discussion session. Friday's event will address the role of neighboring communities in planning for the ILC and how construction of the global collider would affect the surrounding community if it were to be built at Fermilab.

The full agenda and school registration form can be found [online](#). Those interested in attending need to register by Tuesday, July 17 at 5 a.m.

-- *Amelia Williamson*

Feature**Dark matter brought to light through artist's exhibition**

Artist Lylie Fisher creates art from bubble chamber experiment data.

Thousands of scientific eyes have scanned SLAC's 1960s-era bubble chamber experiments, but Lylie Fisher's artistic vision has transformed them from raw data on film reels into a series of interpretive paintings.

Each print in Fisher's *In Search of Meaning*, currently on display in the [Fermilab Art Gallery](#), combines art and science through consistent unifying elements. Color schemes meet concentric circles, wispy lines meet designated points, and the result is a collection of eleven paintings that intrigue the viewer with mysteries of both particle physics and art. The artist has taken negative black-and-white images from the SLAC experiments and used acrylics to create elegant, colorful and often whimsical interpretations of particle interactions as seen in a bubble chamber.

Fisher began her process with films of SLAC's bubble chamber experiments, spending long hours assessing the visual impact of thousands of images.

Fermilab? Ask your manager or a department or section head to recommend someone who is experienced at whatever task it is that you need to do. In the recent incidents, advice from a qualified machinist or someone experienced in the task at hand would have saved the day.

[Safety Tip of the Week Archive](#)**In the News****NPR, All Things Considered, July 13, 2007****'Bye Kids': Where Teachers Go in Summertime**

Ever wonder what teachers do over the long summer break? Many teachers take classes, travel on exotic exchange programs, or do fancy research, all in preparation for the coming school years. Others catch up on their reading, or use the time to recharge their batteries.

[Click here to listen](#)

In the News**msnbc.com, July 11, 2007****Deep in the Earth, a search for neutrinos**

A historic gold and silver mine in South Dakota's Black Hills has been selected as the site for an underground laboratory complex that could become the largest and deepest in the world. The Homestake mine near Lead, S. D., the oldest mine in the Western Hemisphere, won out over three other sites in a bid to develop an underground lab that may help illuminate both a tiny particle known as a neutrino and some of the universe's biggest mysteries.

[Read more](#)

Accelerator Update**July 11 - 13**

- One store provided 54 minutes of luminosity
- Feeder 89-1 tripped off due to power supply

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

"My selection was methodical," said Fisher. "I pondered the visual strength of each experimental image. Did it represent the form, shape and diversity I was seeking?"

After choosing her images, she created the color palette of the entire exhibit using only red, yellow and blue. Her paintings remain untitled, prompting the viewer to look at each through an uninfluenced perspective.

"I allow viewers to take personal journeys, to find their own meaning and answers," said Fisher. "Each image in the series represents a tribe, a species; groupings of emotional, intellectual and abstract life."

Fisher will inaugurate the exhibit with a talk on Friday, July 20, at 2:00 p.m. in One West, followed by a reception at 5:00 p.m. *In Search of Meaning* will be on display through August 22.

-- *Lauren Younis*

2007 GSA Triathlon

The 2007 GSA Triathlon will take place on August 11, 2007. Those interested in participating should email [Mandy Rominsky](#) as soon as possible. Please include your estimated swim time and overall completion time in your message. Volunteers are also needed to help during the event and should contact Mandy.

Professional Development classes

New classes are always being added to the professional development schedule. For the most up-to-date course offerings, visit the training [web site](#).

Labwide party on August 3

To celebrate our laboratory community and its achievements, the Fermi Research Alliance will host a labwide party in the Wilson Hall atrium on Friday, August 3, from 3:30 to 6:30 p.m. The theme of the party is "World-class people, world-class research." The party will feature international snacks, beverages, music and door prizes. All Fermilab employees, users, contractors and DOE employees are invited.

[Additional Activities](#)