

Calendar

Tuesday, October 3

3:30 p.m. Director's Coffee Break - 2nd floor crossover

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

Speaker: R. Madrak, Fermilab

Title: New Materials and Designs for High-Power, Fast Phase Shifters

Wednesday, October 4

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

Speaker: L. Emery, Argonne National Laboratory

Title: Status of ILC Damping Ring Design

3:30 p.m. Director's Coffee Break - 2nd floor crossover

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

Speaker: K. Kumar, University of Massachusetts, Amherst

Title: Electrons and Mirror Symmetry

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

Weather



Chance of T-storms **85%/61°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Fermilab and Argonne to host ILC industrial forum



The group met last September at Fermilab.

The [Linear Collider Forum of America](#), a not-for-profit industrial forum, will hold their fall 2006 meeting in mid-October.

The meeting will start at Argonne on the afternoon of Monday, October 16, and will continue all day Tuesday, October 17, at Fermilab.

Following the last LCFOA meeting at SLAC in May, this session will focus on progress made by the ILC program over the last several months, showcase the cavity and surface polishing R&D at Argonne and provide an opportunity to tour the new ILC facilities being developed at Fermilab. Industry members will have the opportunity to provide feedback and recommendations on needed user facilities and such issues as manufacturing, scheduling and contracting during a panel discussion at the end of the meeting. There will also be a smaller, detailed technical workshop for companies interested in magnet manufacturing on Wednesday, October 18.

The meeting is open to all interested parties, and there will be no registration fee. To register, please send your name, affiliation, address, phone and email

Director's Corner

US - Japan Collaboration



[SciBooNE groundbreaking](#)

The SciBar Booster Neutrino Experiment (SciBooNE) has had a lightning start for these times. For a quick start, size does matter: SciBooNE will be the smallest detector at Fermilab in an enclosure built especially to house it in the Booster neutrino beam. It also helps that the detector was already built and ready to go. It has been almost like "old times" when one could think of an experiment and get it going in months not years!

A little over a year ago I had a letter from the then-director of KEK Yoji Totsuka suggesting that we should consider favorably the proposed experiment to move the SciBar detector from Japan to the Fermilab beam to better understand the neutrino interaction cross sections in that energy range. Apart from their general interest, these low energy cross sections are of particular interest to the T2K experiment in Japan that will start operations towards the end of the decade. The Physics Advisory Committee considered the proposal and recommended going ahead with the project in its meeting last fall. We broke

Tuesday, October 3

- Chicken & Rice Soup
- Cowboy Burger
- Baked Meatloaf w/Gravy
- Peppered Beef
- Smart Cuisine Parmesan Baked Fish
- Assorted Slice Pizza
- Chipotle Chili & Queso Nachos Supreme

[Wilson Hall Cafe Menu](#)

Chez Leon**Wednesday, October 4****Lunch**

- Enchilada de Mole
- Ensalada de Nopalito
- Pastel de Tres Leche

Thursday, October 5**Dinner**

- Booked

[Chez Leon Menu](#)

Call x4598 to make your reservation.

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address to ken.olsen@lchoa.org. The agenda, accommodation information and details about entering Argonne's site are [available online](#).

-- *Elizabeth Clements*

Physicians added to Open Access Plus plan

Do you have medical insurance coverage with CIGNA's Open Access Plus plan?

You now have an additional seventy specialists and seventy primary care physicians to choose from Dreyer Medical Clinic. These physicians have signed contracts with CIGNA to be in-network providers with the Open Access Plus plan. (You can find a list of participating physicians and locations on the [Benefits Office Website](#).)

Since these physicians are in-network, you will be subject to the co-payment of \$15 per office visit. CIGNA does not have a contract with the Dreyer Medical Clinic for laboratory, urgent care, and radiology services. If you use these services at any of the Dreyer Medical Clinics, you will be subject to out-of-network charges. To obtain a listing of the health care providers that offer these services in-network, you can either stop by the Benefits Office located at Wilson Hall on 15 NW to obtain a directory, or you can go to CIGNA's website at www.cigna.com to download the directory.

Photo of the Day

ground on the building two weeks ago, and data taking will start before summer of 2007.

SciBooNE is the latest addition to the US-Japan collaboration in High Energy Physics. The collaboration was established more than twenty years ago. It has supported many experiments at US accelerators and joint R&D projects in accelerators and detectors. At the very beginning of the collaboration in the late 1970s we in Berkeley benefited enormously in the TPC project (at PEP) from the strong collaboration with Japanese institutions and made life-long friendships. Here at Fermilab, among many other US- Japan collaborative projects, the neutrino experiments with the Tohoku Bubble Chamber in Lab F were a feature during the 1980s. The KTeV experiment on which Tsuyoshi Nakaya, one of the SciBooNE spokespersons, obtained his doctorate was also a beneficiary during the 1990s. The CDF experiment starting in 1979 has been the most prominent collaboration with Japan; it is still going strong.

This fresh start in the neutrino area opens a new collaborative front for Fermilab with Japan. In the future the T2K experiment using the J-PARC beam and the NOvA experiment using the Fermilab beam will provide complementary data. These two major experiments will provide the basis necessary to plan the long-term future of a world-wide neutrino program.

Accelerator Update

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Volleyball Champs: Seven teams participated in the Summer Outdoor Volleyball League this year. Team Sidorov was the champion, with an overall record of 36 wins and 4 losses. The team includes (from left): Andrey Sidorov, Mariana Jouljik, Dimitri Sidorov, Evgenia Rakhno, Alex Ratnikov and Max Goncharov. Not pictured: Oleg Brandt and Denis Perevalov.

In the News

The Columbian News, **October 3, 2006:**

Americans Win Nobel Prize in Physics
STOCKHOLM, Sweden (AP) -- Americans John C. Mather and George F. Smoot won the 2006 Nobel Prize in physics on Tuesday for work that helped cement the big-bang theory of the universe and deepen understanding of the origin of galaxies and stars.

Mather, 60, works at the NASA Goddard Space Flight Center in Greenbelt, Md., and Smoot, 61, works at the Lawrence Berkeley National Laboratory in Berkeley, Calif.

The scientists discovered the nature of "blackbody radiation," cosmic background radiation believed to stem from the "big bang," when the universe was born.

"They have not proven the big-bang theory but they give it very strong support," said Per Carlson, chairman of

September 29 - October 2

- Four stores provided 32 hours and 34 minutes of luminosity
- MI power supply ground fault
- Store 4990 quenched due to possible separator spark
- MI power supply causes NuMI trips

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

Argonne open house

Saturday, October 7

Science enthusiasts of all ages will enjoy the presentations at the [Argonne National Laboratory's open house](#) on Saturday, October 7. The DOE lab is celebrating its 60th anniversary with its first open house in seven years. The facility will open to the public from 9 a.m. to 4:30 p.m. at its site at 9700 S. Cass Ave., near Darien.

Get benefits enrollment help today

Annual enrollment ends this Friday, October 6. Representatives from Blue Cross/Blue Shield and CIGNA will be available to answer questions and assist with enrollment, today, October 3, from 1:00 p.m. until 5:00 p.m. in the 1-West conference room of Wilson Hall. Representatives will also be here Thursday from 9:00 a.m. to 2:00 p.m. in the One East conference room of Wilson Hall.

Fermilab Folk Club barn dance

There will be a Fermilab Folk Club barn dance Sunday, October 8 at 6:30 p.m. with music by Sean Colledge and John Wedbee and calling by Paul Ford. More info [here](#).

the Nobel committee for physics.

"It is one of the greatest discoveries of the century. I would call it the greatest. It increases our knowledge of our place in the universe."

Their work was based on measurements done with the help of NASA's COBE satellite launched in 1989. They were able to observe the universe in its early stages about 380,000 years after it was born. Ripples in the light they detected also helped demonstrate how galaxies came together over time.

[Read More](#)

Child Care at work

Does your child have a day off when you plan to work? If so, you may want to take advantage of The Children's Center's pilot child care program for children ages 5 through 12. The service will be available from 7:30 a.m. to 5:00 p.m. on Columbus Day (October 9) and Veteran's Day (November 10). You can register early by calling x3762. The cost is \$35.00 per day.

[Upcoming Activities](#)