

Calendar

Tue., November 28

2:00 - 4:30 Special Retirement Symposium for Ken Stanfield - 1 West

Title: Stanfield: The Career

THERE WILL BE NO DIRECTOR'S COFFEE BREAK TODAY

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

Wed., November 29

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

Speaker: S. Mishra, Fermilab
Title: Events and Highlights from the Valencia GDE Meeting - Part 2

3:30 Director's Coffee Break - 2nd Flr X-Over

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

Speaker: U. Bergmann, Stanford Linear Accelerator Center

Title: Secrets in the Ancient Goatskin: Archimedes Manuscript Under X-Ray Vision

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

Weather



Showers Likely 51°/61°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Feature Story

What do P5 recommendations mean for Fermilab's future?



The Large Hadron Collider, in which Fermilab plays a large role, is the top priority for the panel, together with the ILC.

An October report, written by the Particle Physics Project Prioritization Panel, gives recommendations for the next few years of particle physics projects. "The P5 Roadmap" has ramifications for particle physics in general, and specifically for Fermilab. *Fermilab Today* asked P5 Chair Abe Seiden, a UC Santa Cruz physicist, to describe the basics of the report, and how the important points relate to Fermilab. He broke the report down into three top priorities:

1. The LHC and ILC R&D are the number one priority. "We eventually hope to build the ILC at Fermilab--though that's a bit downstream," said Seiden. "For now we want to successfully complete the R&D so we can move ahead at the end of the decade. And, of course, Fermilab already plays a large role in the LHC."

2. Three small experiments are part of the second-priority category of the report: the 25 kg Cryogenic Dark Matter Search experiment, which Seiden says is "basically the next step for CDMS;" the Dark Energy Survey; and the Daya Bay neutrino experiment in China. Fermilab is heavily involved in the first two of the three. R&D for JDEM--a dark energy space mission supported by DOE and NASA--and the LSST, which Seiden says is the next step beyond the Dark Energy Survey, are also in the second priority grouping. National Science Foundation R&D funding for DUSEL--the Deep Underground Science and Engineering Laboratory--and both a large dark matter experiment and a neutrinoless double

Director's Corner

Future collaborations II



Pier Oddone and Atsuto Suzuki, Director of KEK.

Last Tuesday we were hosted by Director Atsuto Suzuki and his management team at KEK. We had a full day of visits and discussions exploring areas where we can come together in future collaborations. KEK is an impressive laboratory: it has built and operates the highest luminosity asymmetric B-factory in the world, it has pioneered the development of synchrotron-based light sources in Japan and operates one in the Tsukuba site of KEK, it is a partner with the Japanese Atomic Energy Agency (JAEA) in building the J-PARC complex, it has pioneered the development of the low emittance damping rings that are necessary for the ILC and today it is moving very rapidly to apply its considerable superconducting RF expertise, developed in previous projects, to the ILC.

Looking toward the future, KEK is a principal participant in the development of the ILC and shares in common with Fermilab the development of the superconducting linac. Beyond the ILC, KEK has ambitious plans to upgrade the KEK-B asymmetric B-factory to the once unimaginable luminosity of $10^{36} \text{ cm}^{-2} \text{ sec}^{-1}$, build a recirculating linac x-ray source of unprecedented brilliance, and upgrade the J-PARC complex to provide the most intense (4 MW) proton beams in the world for the neutrino program and rare decays. How many of these projects will take place--and on what time scale--depends partially on the timing of the ILC and where the ILC is eventually built.

On Wednesday we were fortunate to be able to visit our longstanding CDF collaborators at

Tuesday, November 28

-Chicken and Rice Soup
 -Cowboy Burger
 -Baked Meatloaf with Gravy
 -Parmesan Baked Fish
 -Peppered Beef
 -Assorted Slice Pizza
 -Chipotle Chili and Queso Nachos Supreme

[Wilson Hall Cafe Menu](#)

Chez Leon**Wednesday, November 29 Lunch**

Southwestern Cornish Hens
 Sautéed Corn, Beans & Peppers
 Butternut Squash
 Cornmeal Cake

Thursday, November 30 Dinner

French Onion Soup
 Filet Mignon w/Espagnole Sauce
 Potato Gratin
 Vegetable of the Season
 Brandy Flan

[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

beta decay experiment are also on the list.

3. The third priority is the construction of NOvA, a Fermilab neutrino project, along with what Seiden calls "modest upgrades to Fermilab's accelerator needed to maximize the reach of NOvA."

Seiden adds that these recommendations should be reviewed again in a few years in order to begin construction on R&D items, "when a few different things are clarified." Big questions for the next set of recommendations will be "What are the progress of and results from the LHC?" and "What is the status of the ILC R&D?"

--Siri Steiner

[Read the full report](#)

Feature Story**Fermilab on television today**

Geoffrey Baer hosts a two hour TV tour of the Fox River Valley and Chain O' Lakes region. Tune to WTTW 11 tonight at 7:30 p.m.

"Don't call them suburbs! The towns and small industrial cities of the Fox River Valley have a feeling all their own," said Geoffrey Baer, host and producer of the new documentary, "The Fox River Valley and Chain O' Lakes," showing Tuesday, November 28 at 7:30 p.m on WTTW11.

Viewers will hear stories and see sights from local communities. The program includes a brief stop at Fermilab, featuring the main entrance, Wilson Hall, the main ring, CDF's control room, the bison, the prairie and the village.

The documentary will also chronicle the area's fame for energy production and scientific research. In 1905 Colonel George Fabyan purchased 10 acres in Geneva and began an estate which, along with many other features, was a center for scientific research--some of it groundbreaking and some of it crackpot.

Fabyan believed secret codes woven in

Tsukuba University. Under the leadership first of Professor Kuni Kondo and now of Professor Shinhong Kim, the Tsukuba group has been an outstanding collaborator through many years. Currently the group has 15 graduate students working in CDF. For the future the group is moving to do physics with the ATLAS detector at CERN and beyond that it has a keen interest to collaborate on the ILC.

Special Announcement**Fermilab seeks nominations for ILC Citizens' Task Force**

If the ILC comes to Fermilab, there will be a 20-mile-long tunnel required to make it work. That's one reason Fermilab is forming a Citizen's Task Force--to hear concerns and suggestions about this massive project from the surrounding community. The task force will discuss issues like construction noise, tunnel siting, safety issues, economic benefits, aesthetic concerns and more. From now until December 6, you can nominate a community member to be on the task force.

- [Read more](#)
- [Nominate a task force member](#)
- [See task force fact sheet](#)

Announcements**NALWO Holiday Trip**

NALWO is organizing a holiday trip to Chicago on Saturday, December 9. Enjoy shopping, music and entertainment at Chicago's largest open-air holiday festival--the German-American "Christkindlmarket" at Daley Plaza--or try skating on the ice rink at Millennium Park, which is free and open to the public. The bus will be leaving from the Lederman Science Center at 10:00 a.m. and we will return by 4:30 p.m. There is no charge for the bus. To register or for further information please contact: Selitha Raja at (630) 305-7769 or selithar@hotmail.com

Scottish Country Dancing

Scottish Country Dancing will meet Tuesday, November 28, at Kuhn Barn. 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. Info at 630-840-8194 or 630-584-0825 or folkdance@fnal.gov.

Computational Physics Seminar

On Wednesday, November 29 at 11:00 a.m. in Curia II, Johan Alwall of the SLAC Theory Group will present the new version of

Shakespeare's writings would reveal that Sir Francis Bacon was the true author. He was also interested in Bacon's experiments with a levitating machine, supposed to work by sound waves. Fabyan hired an acoustical expert from Harvard to build a sound studio and tune his levitating machine. Alas, no code was found and the machine did not levitate. However Fabyan managed to assemble the finest code breaking team in the world--who served as the preeminent code breakers for the military in World War I. And his sound studio was one of the best in the world--still in use today by Riverbank Acoustical Laboratories.

--D.A. Venton

Read more about the show in the WTTW11 [press release](#).

In the News

FYI: The AIP Bulletin of Science Policy News, November 22, 2006:

ITER Agreement Signed

The US must develop a compelling bid to host the International Linear Collider in order to safeguard American science.

"The world is counting on us to make ITER a success," Under Secretary for Science Raymond Orbach said at yesterday's signing ceremony for the ITER agreement. Joining Orbach at this ceremony in Paris were representatives of China, the European Union, India, Japan, the Republic of Korea, and the Russian Federation.

[Read More](#)

MadGraph/MadEvent and explain how to use it.

NALWO Holiday Tea

NALWO will give a Winter Holiday Tea on Friday, December 1, from 11:00 a.m. to 1:00 p.m. The tea will be hosted by Barbara Oddone at her home on Site #29, just inside the Wilson Street gate. (You may come in at Wilson Street entrance from Kirk Road and turn right at the driveway just beyond the gate.) Please bring a favorite dessert or appetizer from your country, but if you cannot bring a treat, please come anyway! For additional information contact Susan Kayser at sukayser@fnal.gov, Rose Moore, at 630/208-9309 or rosecraigmoore@comcast.net, or the Housing Office at 630/840-3777 or housing@fnal.gov.

Blood Drive

Did you know that a single pint of blood can help three different patients? Your next chance to donate will be on December 11 and 12 at Fermilab, from 8:00 a.m. to 2:00 p.m. in the NE training room on the ground floor of Wilson Hall. This year, each donor will receive a Heartland Blood Center jacket. Visit the [ES&H website](#) to sign up.

Upcoming Activities