

Calendar

[Have a safe day!](#)

Tuesday, August 25

3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd

Flr X-Over

THERE WILL BE NO

ACCELERATOR PHYSICS AND
TECHNOLOGY SEMINAR TODAY

Wednesday, August 26

3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd

Flr X-Over

4 p.m.

[Fermilab Colloquium](#) - One West

Speaker: Hendrik Schatz, Michigan
State University/Joint Institute for
Nuclear Astrophysics

Title: Rare Isotopes in Cosmic
Explosions and Accelerators on Earth

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

Campaigns

[Take Five](#)

[Tune IT Up](#)

Weather



Mostly sunny
85°/63°

[Extended Forecast](#)

[Weather at Fermilab](#)

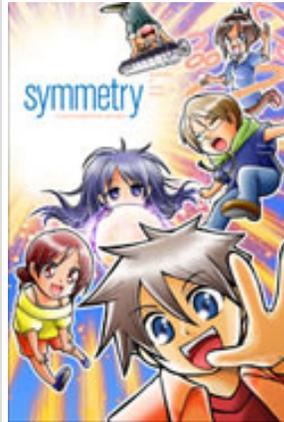
Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

From *symmetrybreaking*

August 2009 issue of *symmetry* now online



The August 2009 issue of
symmetry magazine is now
available.

In this issue, we are highlighting the work of Takuya Uruno, who created a physics Manga series for kids for the Japanese laboratory KEK. Manga, a Japanese cartoon art form, developed in the late 20th century. Uruno's series is featured in our magazine's gallery. He also drew us a gorgeous Manga cover.

The new issue also features:

- Youhei Morita on Manga as a learning tool.
- Fermilab's push to develop superconducting radio-frequency technology, considered crucial for the future of particle physics.
- How physicists at the LHC experiments are using the shutdown to their advantage.
- A choreographer translates conversations with CERN physicists into dance.
- Building better heart valves, the first in a new series on applications of accelerator technology.
- The director of Japan's Institute for the Physics and Mathematics of the Universe takes tea with the Emperor

As always, our departments: Signal to Background, highlights from *symmetry breaking*, a 60-second explanation of Cherenkov light, thoughts on physics, technology and culture from the editor-in-chief, and a logbook from the discovery of the weak neutral current.

Check out [the latest issue](#)

Special Announcement

August EAP Webinar today

An hour-long Webinar, titled "Strategies for Building Self Esteem," will take place from 11 a.m. - noon CST today. Lynn Borteck, LCSW, will give the presentation. Anyone interested in virtually attending the live event can register through the Fermilab [EAP Web site](#) with the User ID: Fermilab and the password: eap. The event is one of the monthly one hour Webinars offered by Fermilab's Employee Assistance Program.

In Memoriam

Director's Corner

Lepton Photon 2009



Sakue Yamada, Professor Emeritus of the University of Tokyo, research director for the International Linear Collider and member of the FRA Board of Directors, Pier Oddone, Fermilab Director and Rolf Heuer, director of CERN, at Lepton Photon 2009. *Image courtesy of Barbara Warmbein, DESY.*

Hamburg, Germany was the venue for the XXIV International Symposium on Lepton Photon Interactions at High Energies, <http://lp09.desy.de/>. From August 22 through the 27 physicists from around the world congregated to hear and share the latest physics results and plans for the future. This year's symposium follows the one in Daegu, Korea in 2007 and the one in Uppsala, Sweden in 2005. Hamburg, with its superposition of baroque and modern architecture, the most bridges of any city in the world, a modern conference center, excellent public transportation and its citizens out and about enjoying the all -too-brief summer, provided a great venue for the meeting.

Lepton-Photon Symposia alternate with the International Conferences on High Energy Physics (ICHEP) on a yearly basis. These two types of meetings are the principal yearly meetings of the world high energy community. Again at this year's symposium the results from Fermilab played a starring role. We all missed results from the LHC, which we will hopefully hear about next year at ICHEP 2010.

The Tevatron collaborations alone presented about 80 new results across a broad spectrum of physics, including precision measurements of Standard Model parameters, precise tests of quantum chromodynamics, new Higgs limits, new combined measurements of the W mass, new results on CP violation in the decay of the B_s , the measurement of many parameters of the top quark,

Tuesday, August 25

- Golden broccoli & cheese
- Southern style fish sandwich
- Coconut crusted tilapia
- Burgundy beef tips
- La grande sandwich
- Assorted sliced pizza
- Chicken fajitas

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, August 26
Lunch

- Catfish w/coarse mustard
- Roasted corn and red peppers
- Spicy tomato rice
- Chocolate pecan pie

Thursday, August 27
Dinner

- Closed

[Chez Leon Menu](#)

Call x3524 to make your reservation.

Archives

Fermilab Today

[Result of the Week](#)

[Safety Tip of the Week](#)

[User University Profiles](#)

[ILC NewsLine](#)

Info

Fermilab Today

is online at:
www.fnal.gov/today/

Send comments and suggestions to:
today@fnal.gov

Visit the Fermilab
[home page](#)

In Memoriam: Ed Knapp

Ed Knapp, former URA president and NSF director, died on Aug. 17, 2009.

Knapp worked as a nuclear physicist at Los Alamos National Laboratory from the late 1950s until 1982, when he became the seventh director of the

National Science Foundation. During his time at Los Alamos, Knapp worked as division leader in the laboratory's Accelerator Technology Division.

President Ronald Reagan nominated Knapp as the assistant director for the National Science Foundation. Knapp quickly became director and served until 1984. In 1985, Knapp became head of the Universities Research Association (URA), Fermilab's managing organization at the time. He was URA head when the Superconducting Supercollider was under design at Lawrence Berkeley National Laboratory. He held the position until 1989. Knapp also served as president of the Santa Fe Institute from 1991-1995.

[View](#) his obituary.

In the News

Neutrinos on display

From *Physorg.com*, Aug. 19, 2009

While a particle physicist may tell you that neutrinos are fiendishly difficult to observe, the public visibility of neutrinos in Minnesota has changed dramatically with the approval of more than \$40M of stimulus funding for the NOvA project.

The early-May groundbreaking for the NOvA Far Detector Laboratory construction project in Ash River, Minnesota was just the beginning. Construction work at the site is now well under way and northern Minnesota is abuzz with the excitement of being the center of neutrino physics in the United States, as well as being the site of the country's major deep underground science laboratory.

On Saturday, August 15th, Senator Al Franken and members of his staff [visited](#) the Soudan underground laboratory as the guest of the School of Physics and Astronomy, Fermilab and the Minnesota Department of Natural Resources. Guided by physicists Ken Heller, Ron Poling and Angela Reisetter, Fermilab communications director Judy Jackson, and Soudan lab staff members Jim Beaty and Jerry Meier, the senator toured the MINOS and CDMS experimental halls and received an introduction to neutrinos and the more mysterious and yet-to-be-detected dark matter particles. While weather conditions precluded a planned tour of the



Edward Knapp. Image courtesy of NSF.

and several limits on proposed new particles. The plenary talks mentioned other important results from Fermilab, especially on neutrinos and dark matter searches.

One of the many virtues of a meeting like this is the ability to interact with colleagues from around the world to plan future activities. In addition to the informal conversations at the symposium, I attended two formal activities: the ILC Steering Committee (ILCSC) and the meeting of the International Committee on Future Accelerators (ICFA). These committee meetings bring together the leadership of high energy physics in Europe, the US and Asia to coordinate programs and activities. In these meetings one truly gets the sense that we are a global community: that we can put away our differences and come together on a common quest.

Announcements

[Goldwasser 90th birthday](#)

[Bowlers wanted](#)

[Thai Village restaurant discount](#)

[Vacation policy changes for exempt employees - Sept. 1](#)

[Argentine Tango through Sept. 9](#)

[Fermilab Blood Drive Aug. 25 and 26](#)

[Lunch & Learn about skeletal conditions Aug. 26](#)

[NALWO noon piano concert in Ramsey Auditorium - Aug. 27](#)

[What's New in NI LabVIEW 2009? offered Aug. 27](#)

[URA Visiting Scholars Program now accepting applications](#)

[Bristol Renaissance Faire discount tickets](#)

[Six Flags Great America discount tickets](#)

[Raging Waves Waterpark online discount ticket program](#)

[Mosaico Hispanico - celebrating Hispanic music and dance - Sept. 19](#)

[English Country Dancing - Sept. 20](#)

[Sign up for fall Science Adventures](#)

the Ash River NOvA site, Senator Franken learned about the physics of NOvA, as well as the impact of the project on the northern part of our state.

[Read more](#)

[classes](#)

[Muscle Toning Class - through Sept. 28](#)

[Yoga Class - Aug. 11 - Sept. 29](#)

[Office 2007 New Features class offered in September](#)

[Buttered Rum performs on Fermilab Arts Series Oct. 24](#)

[Fred Garbo Inflatable Theatre - at Fermilab Arts Series - Nov. 7](#)

[Process piping \(ASME B31.3\) class offered in October and November](#)

["The Night Before Christmas Carol" at Fermilab Arts Series Dec. 5](#)

[Traffic Safety Contest](#)

[Try Tai Chi at open house for free - August 24](#)

[Additional Activities](#)

[Submit an announcement](#)