

Calendar

Wednesday, Feb. 11
3:30 p.m.
 DIRECTOR'S COFFEE
 BREAK - 2nd Flr X-Over
 Speaker: John A. Rogers,
 University of Illinois, Urbana-
 Champaign

4 p.m.
[Fermilab Colloquium](#) - One
 West

Speaker: Sean Carroll,
 California Institute of
 Technology
 Title: The Origin of the
 Universe and the Arrow of
 Time

Thursday, Feb. 12
 THERE WILL BE NO
 PHYSICS AND DETECTOR
 SEMINAR THIS WEEK

2:30 p.m.
[Theoretical Physics Seminar](#) -

Curia II
 Speaker: Graham Kribs,
 University of Oregon

Title: Dirac Dark Matter
3:30 p.m.

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

4 p.m.
[Accelerator Physics and
 Technology Seminar](#) - One

West
 Speaker: Laurie Waters, Los
 Alamos National Laboratory
 Title: Nuclear Applications of
 Accelerators; Experience in the
 'A' Programs (APT, ATW, AAA,
 AFCI)

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

Weather

Feature

Chicago hosts Al Gore, thousands of scientists for AAAS conference

Every February, the American Association for the Advancement of Science organizes one of the largest and most diverse science meetings in the United States. This year, the conference will take place from Feb. 12-16 in Chicago at the Hyatt Regency Hotel.

The conference brings together several thousand experts from many disciplines of science and science policy. The AAAS [Family Science Days](#), Feb. 14-15, provide an opportunity for the public to learn more about science in a family-friendly atmosphere. Former U.S. Vice President Al Gore will address conference participants on Friday night.

Fermilab, Argonne and the University of Chicago will have a [strong presence](#) at the conference. Fourteen scientists from Fermilab will participate in the [various physics sessions](#), and the Fermilab Education Office will offer activities and [science demonstrations](#) at the Family Science Days. Highlights include presentations on neutrino physics and Project X; the latest results from the Tevatron collider experiments; the role of the computing grid in science; and the cosmology of the early universe. Jerry Zimmerman, our own Mr. Freeze, will entertain kids and adults with his cryogenics show.

This year's AAAS conference takes place in conjunction with the annual conference of the American Association of Physics Teachers. Several Fermilab scientists and educators will give talks and offer workshops at the [AAPT conference](#), and more than 100 teachers and students will take a tour of Fermilab this week.

The AAAS Family Science Days are free of charge. The Hyatt Regency Hotel is located at 151 East Wacker Drive, Chicago. Attendance of the AAAS science program requires [registration](#).

-- Kurt Riesselmann

Fermilab press release

Director's Corner

India Collaboration



Fermilab Director Pier Oddone presents a signed copy of a picture of Fermilab to DAE Secretary Kakodkar.

Yesterday I had the honor to give the opening lecture at the 2009 Indian Particle Accelerator Conference. I was in Indore at the Raja Ramana Center for Advanced Technology, one of India's large national laboratories, to sign a memorandum of understanding with four Indian laboratories enlarging our collaboration on superconducting RF accelerators. Some 150 accelerator physicists from across India were in attendance. After my lecture, I was also honored to spend the day with the Secretary of the Department of Atomic Energy Agency, Dr. Anil Kakodkar, and the director of RRCAT, Dr. Vinod Sahnii. We discussed the development of accelerators in the U.S. and in India, the neutrino programs including the large underground Indian Neutrino Observatory, the development of particle physics in the world, the education of the next generation of scientists, the impact that Indian collaborations with Fermilab have had over the years and our hope for future collaboration on Project X and global machines such as the ILC.

Our science collaborations with Indian universities and laboratories go all the way to the beginnings of Fermilab. Indian groups used emulsion techniques at Fermilab from the start of the lab's experimental program in 1972. They also collaborated on bubble chamber experiments in the 1980s. The University of Delhi group, led by Professor Ram Shivpuri, was the first to take part in a Fermilab electronic experiment -- E 706, a study of direct photon production in fixed target hadron collisions, which completed data taking in the early 1990s. The University of Delhi, Panjab University and the Tata Institute



Rain
47°/29°

[Extended Forecast](#)
[Weather at Fermilab](#)

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Wednesday, Feb. 11

- Smart cuisine: Cajun style lentil soup
- Cajun chicken ranch
- Tilapa w/jalapeno lime sauce
- Chicken parmesan
- Smoked turkey panini pesto mayo
- Assorted sliced pizza
- Chicken alfredo fettucine

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, Feb. 11

Lunch

- Raspberry chicken
- Spaghetti squash w/ green onions
- Steamed green beans
- Mocha cake

Thursday, Feb. 12

Valentine's Dinner

- Shrimp cocktail
- Chateaubriand with cabernet sauvignon sauce
- Crispy potato torte
- Green bean & blue cheese gratin
- White chocolate-raspberry
- Crème brulee

[Chez Leon menu](#)

Call x3524 to make your reservation.

Archives

Collaboration between Fermilab, Indian institutions sets stage for future accelerators

The Department of Energy's Fermi National Accelerator Laboratory in Batavia, Ill., today announced the signing of a new Memorandum of Understanding with four Indian institutions. The MOU establishes collaboration in the areas of superconducting acceleration science and technology and in research and development of superconducting materials.

"Ushering in the next generation of accelerator projects requires an international effort," said Dr. Pier Oddone, director of Fermilab. "The collaboration between U.S. and Indian scientists helps set the stage for the global coordination required for future particle accelerators."

[Read more](#)

CERN press release

CERN management confirms new LHC restart schedule

CERN management today confirmed the restart schedule for the Large Hadron Collider (LHC) resulting from the recommendations from last week's Chamonix workshop. The new schedule foresees first beams in the LHC at the end of September this year, with collisions following in late October. A short technical stop has also been foreseen over the Christmas period. The LHC will then run through to autumn next year, ensuring that the experiments have adequate data to carry out their first new physics analyses and have results to announce in 2010. The new schedule also permits the possible collisions of lead ions in 2010.

In Chamonix there was consensus among all the technical specialists that the new schedule is tight but realistic.

"The schedule we have now is without a doubt the best for the LHC and for the physicists waiting for data," said CERN Director General Rolf Heuer. "It is cautious, ensuring that all the necessary work is done on the LHC before we start-up, yet it allows physics research to begin this year."

[Read more](#)

In the News

of Fundamental Research are long-time members of the DZero collaboration. Many Indian students and postdocs have cut their teeth on the Fermilab program and are now established scientists in India and the U.S..

Three years ago we formalized our collaboration with Indian laboratories and universities through a very general Memorandum of Understanding. The new agreement signed at Indore as an addendum to the original MOU establishes an extensive body of new work to the benefit of both the U. S. and India. The signatories were Fermilab on the U.S. side and four major laboratories on the Indian side: RRCAT, the Bhabha Atomic Research Center, the Variable Energy Cyclotron Center and the Inter University Accelerator Center.

After the signing of the new agreement, we presented Dr. Kakodkar, who has been a great supporter of our collaboration, an iconic picture of Wilson Hall with the flags of our international partners flying, signed by all the members of the collaboration. He told us it would look great in his new office!

Safety Update

ES&H weekly report, Feb. 10

This week's safety report, compiled by the Fermilab ES&H section, includes There were two injuries reported to the Medical Department last week. One back strain that resulted in time away from work (DART) and one first aid injury. We have worked 11 days since the last recordable injury. Find the full report [here](#).

[Safety report archive](#)

Announcements

Latest Announcements

[On-site housing - Summer 2009](#)

[Have a safe day!](#)

[Daycamp information and registration](#)

[2009 standard mileage reimbursement Rate](#)

[Muscle Toning classes](#)

[Outlook 2007 New Features classes scheduled Feb. 26](#)

[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

DOE-BES report calls for more R&D funding

From *AIP FYI*, Feb. 9, 2009

A report from the Basic Energy Sciences Advisory Committee's Subcommittee on Facing Our Energy Challenges in a New Era of Science calls for additional resources to confront energy, climate change, and economic challenges. "New Science for a Secure and Sustainable Energy Future" argues that the Department of Energy's (DOE) Office of Basic Energy Sciences (BES) can provide "paradigm-changing breakthroughs: new ideas that 'change the rules of the game.'"

The report cites the nation's deepening energy/environment/economic crises as opportunities for revolutionary energy research gains. The U. S. "exceeds domestic production capacity by the equivalent of 16 million barrels of oil per day." In fact, "this deficit has nearly tripled since 1970." By 2030, U.S. demand for oil is expected to increase 15 percent. While fossil fuels "comprise 85 percent of the U.S. national energy supply," to sustain our environment the U.S. "must reduce its emissions of carbon dioxide and other greenhouse gases that accelerate climate change." At recent peak prices, imported energy costs approximately \$700 billion per year.

[Read more](#)

[Nominations requested for job profiles](#)

[Fermilab Barnstormers](#)

[Bulgarian Dance Workshop, Feb. 12](#)

[Barn Dance Feb. 15](#)

[Kyuki Do classes - Feb. 16](#)

[Facilitating Meetings That Work class offered Feb. 16](#)

[Fermilab Blood Drive Feb. 17 & 18](#)

[Argentine Tango Classes begin Feb. 18](#)

[NALWO - Mardi Gras Potluck Dinner - Feb. 20](#)

[Discount tickets: World's Toughest Rodeo presents Toughest Cowboy - Feb. 21](#)

[NALWO - Brown Bag Lunch Program - "Australia: Travels in the Land Down Under" - Feb. 24](#)

[English Country Dancing, March 1](#)

[Introduction to LabVIEW class offered March 5](#)

[NALWO - Adler Planetarium Trip - March 21](#)

[Child Care program offered - March 24](#)

[Conflict Management & Negotiation Skills class offered April 1](#)

[Interpersonal Communication Skills class being offered April 8](#)

[Discount tickets: Disney On Ice presents Worlds of Fantasy](#)

[Additional Activities](#)

[Submit an announcement](#)