

Calendar

Have a safe day!

Tuesday, May 11

3:30 p.m.

DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over
4 p.m.

[Accelerator Physics and Technology Seminar](#) - One West

Speaker: Tengming Shen, Florida State University
Title: Understanding the Melt Processing of Multifilamentary Ag-Bi₂Sr₂CaCu₂O_x Round Wire for High Field Magnet Applications

Wednesday, May 12

3:30 p.m.

DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over
4 p.m.

[Fermilab Colloquium](#) - One West

Speaker: Joel Norris, Scripps Institution of Oceanography
Title: Cloud Feedbacks on Climate: A Challenging Scientific Problem

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

[Upcoming conferences](#)

Campaigns

[Take Five](#)

[Tune IT Up](#)

H1N1 Flu

For information about H1N1, visit Fermilab's flu information [site](#).

Weather



Chance of showers
63°/44°

[Extended Forecast Weather at Fermilab](#)

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Tuesday, May 11

- Breakfast: Bagel sandwich
- Creamy turkey vegetable soup
- Chili dog
- Country fried steak
- Chicken cacciatore
- Italian panini w/provolone
- Assorted sliced pizza
- Super burrito

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, May 12
Lunch

Feature

Indian counselor visits Fermilab



Fermilab scientist Shekhar Mishra explains Fermilab's cryomodule testing plans for the next five years to the Indian Embassy Counselor of Science and Technology Debapriya Dutta.

Collaboration between Indian institutions and Fermilab was the focal point of last week's visit by the Indian Embassy's Counselor of Science and Technology. On May 4, Debapriya Dutta came to Fermilab to learn about the working relationship between India and Fermilab, now in its 25th year, and possibilities for future collaboration.

Associate Director of Accelerators Steve Holmes and International Collaboration Coordinator for the proposed Project X Shekhar Mishra gave presentations about the history of the collaboration between Fermilab and Indian institutions and discussed how they hope to build on it.

Following the presentations, Dutta praised knowledge sharing between the laboratory and Indian universities. Rather than "brain drain," he observed a more positive "continuum" between the institutions' people and resources.

Since 1985, when the first Indian scientist came to work at Fermilab, Indian universities have conferred dozens of Ph.D.s to students working at the laboratory. Indian institutions have participated in multiple Fermilab experiments, such as fixed-target experiments and DZero.

Currently, Indian institutions are heavily involved in research and development of new accelerator components and infrastructure at Fermilab. These include [superconducting radio-frequency cavities](#), cryomodules and vertical and horizontal test stands. As part of his visit, Dutta toured the New Muon Lab facility, which is slated to serve as a cryomodule test facility.

This chapter in the collaboration began in 2007 with the signing of a [Memorandum of Understanding](#) to collaborate on accelerators and high-energy physics.

"This continued relationship is an unprecedented opportunity for both Indian and U.S. institutions and agencies to collaborate on jointly developing accelerators for their domestic programs," Mishra said.

This research and development could be incorporated into future proposed accelerators at Fermilab, such as Project X or the ILC, as well as applied to Indian nuclear energy programs.

"As in any good collaboration, there is something for both parties," Holmes said. "We are well aligned technically, and there is strong interest at high governmental levels both in the U.S. and India for development of a strong collaboration."



Director's Corner

Last week

It is hard to think about writing anything else but reflections on the terrible events of last Thursday. We all share the shock and the sorrow of the death of Maria Belyoyva. She was a guest scientist at our laboratory from Russia, working on her Ph.D. degree in accelerator science.



Pier Oddone

Whenever such an event takes place in the workplace, the ripples are wide-ranging — still more so when the act occurs in our very midst. Our hearts go out to the family and close colleagues of Maria. But we are all affected, and over and over again we imagine what might have prevented such tragedy. What signs might have led to intervention; What could have been done that might have led to a different outcome? We probably will never know, as none of us can really understand the personal anguish that culminates in such a tragic act.

Sharing the sorrow as a Fermilab family, we also share the admiration for all the folks who dealt with the event with professionalism and compassion, both within and outside the laboratory: Our medical department, first responders and emergency services, human resources and communications staff; the DuPage County Sheriff's Office, the Coroner's Office, the Department of Energy, Russian diplomatic personnel, the staff of the Employee Assistance Program and the many other individuals who stepped up to help with some of the most difficult tasks, such as reaching Maria's family.

For me it was difficult to be so far away at a time like this. I appreciate all of those who kept me abreast of the unfolding events. I have now received many messages of condolence sent to me by friends of Fermilab and meant for our whole community, which we deeply appreciate.

Accelerator Update

May 7-10

- Four stores provided ~47.25 hours of luminosity
- MI RF low/mid-level front ends required boot
- Store 7799 quenched at TeV sector D3
- Both the Recycler and Pbar lost a transfer

*Integrated luminosity for the period from 5/3/10 to 5/10/10 was 58.78 inverse picobarns. NuMI reported receiving 6.73¹⁸ protons on target during this same period.

[Read the Current Accelerator Update](#)
[Read the Early Bird Report](#)
[View the Tevatron Luminosity Charts](#)

Announcements

Latest Announcements

[Artist Reception - 5-7 p.m. on May 14](#)

[43rd Fermilab Users' Meeting June 2 - 3, registration now open](#)

- Grilled tuna nicoise salad
- Blueberry yogurt sundaes

Thursday, May 13

Dinner

- Closed

[Chez Leon Menu](#)

Call x3524 to make your reservation.

Archives

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[CMS Result of the Month](#)

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Fermilab's Shekhar Mishra shows Indian Embassy Counselor of Science and Technology Debapriya Dutta a recently assembled cryomodule at New Muon Lab.

-- Daisy Yuhas

In the News

Where is dark matter hiding?

From *Discovery News*, May 9, 2010

Dark matter is one of those things that keep astronomers in business. It make up 23 percent of the energy of the universe, however, we don't yet know what it IS. Particle physicists are on the hunt, and a tantalizing possible detection was announced last December. New data from a different instrument, Xenon100, casts a rather big shadow of doubt.

Although a few astronomers still doubt the actual existence of dark matter, most of the evidence points to an as-yet-undiscovered particle that does not interact with "normal" matter or light in any obvious way. In fact, these WIMPs (Weakly Interacting Massive Particles) do not interact with themselves in the same way that "normal" matter does. This is nicely seen in the "Bullet Cluster" in which the dark matter is separate from the hot cluster gas (above). This result really drove home the concept for me, personally.

Last December, the Cryogenic Dark Matter Search II (CDMSII) announced that two dark matter particle events had been detected by their germanium and silicon detectors deep underground in a Minnesota mine. Though it was more likely that these events were due to cosmic rays or radioactivity, the results were consistent with a detection of WIMPs. The team did not, however, formally claim detection of dark matter, just a tantalizing possibility.

[Read more](#)

[Argentine Tango Wednesdays through May 26](#)

[Muscle toning by Bod Squad began May 6](#)

[NALWO Children's Playgroup International Party - May 14](#)

[English country dancing - May 16](#)

[Pool memberships available now](#)

[NALWO Spring Tea - May 20](#)

[Sand Volleyball Tuesdays begin May 25](#)

[43rd Fermilab Users' Meeting June 2-3, register now](#)

[SciTech summer camps start June 14](#)

[Employee discount at Batavia Rosati's](#)

[Fermilab Arts Series presents Corky Siegel and Chamber Blues - June 26](#)

[ANSYS Mechanical Application classes offered in May](#)

[Submit an announcement](#)