

Calendar

[Have a safe day!](#)

Wednesday, Oct. 21

10:30 a.m.

[Research Techniques Seminar](#)

- One East

Speaker: Thor-Erik Hansen, SINTEF, Oslo

Title: Development and Fabrication of Full 3D-Sensors at SINTEF MiNaLab

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO

FERMILAB COLLOQUIUM

THIS WEEK

Thursday, Oct. 22

2 p.m.

[Computing Techniques Seminar](#)

- FCC2A/2B

Speaker: Andy Terrel,

University of Chicago

Title: Mathematical Interfaces of Automated Scientific Computing

2:30 p.m.

[Theoretical Physics Seminar](#)

- Curia II

Speaker: Uli Baur, SUNY

Buffalo

Title: Measuring the Higgs Boson Self-Coupling at High Energy e+e- Colliders

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO

ACCELERATOR PHYSICS

AND TECHNOLOGY

SEMINAR TODAY

4 p.m.

[Extreme Beam - Physics at the Intensity Frontier Lecture Series](#)

- Curia II

Speaker: Kenneth Long,

Imperial College London

Title: The Neutrino Factory:

Sensitivity for the Next Decade

Click here for [NALCAL](#),

a weekly calendar with links

to additional information.

Feature

Indian ambassador praises Fermilab-India collaboration



From left: Fermilab's Steve Holmes, Her Excellency Meera Shankar, Fermilab's Rajendran Raja and the Honorable Consul General of India Ambassador Ashok Kumar Attri visit the Main Control Room at Fermilab.

Following the Indian tradition of presenting honored guests with flowers, Fermilab greeted Her Excellency Meera Shankar, Ambassador of India to the United States, with carnations when she arrived at the lab on Saturday, Oct. 10.

The Honorable Consul General of India Ambassador Ashok Kumar Attri and consulate members, Suresh Kumar Menon and Manju Sahni, accompanied the ambassador during her visit.

After receiving a general overview about the laboratory and a summary of the collaboration activities between Indian institutions and Fermilab, the ambassador visited the LHC Remote Operations Center at Fermilab.

Fermilab physicist Pushpa Bhat explained how the ROC allows U.S. scientists to take remote shifts for the CMS experiment at CERN. While inside the ROC, Shankar had the opportunity to chat via videoconference with Jim Virdee, CMS spokesperson, Guido Tonelli, CMS spokesperson-elect, and Austin Ball, CMS technical coordinator, who greeted the ambassador with "Namaste," an Indian salutation of respect.

Shankar also visited Fermilab's Main Control Room and the 15th floor of Wilson Hall.

After completing her tour, Shankar expressed gratitude for the detailed explanations of the research conducted at Fermilab.

From the Technical Division

Scientific career opportunities

Giorgio Apollinari, head of the Technical Division, wrote this week's column.

One of the best ways to gauge the commitment of any organization in pursuing a new path is to look at the rate of new hires. Recently the Technical Division has received approval to hire several physicists and engineers dedicated to enabling superconducting radio frequency technology. This influx of new employees, representing almost 4 percent of our division workforce, is a substantial increase and goes beyond replacing retirees. After last year's furloughs, this feels like a whiff of warm spring air after a long winter.



Giorgio Apollinari

Two of the job openings we want to fill are for associate scientists to conduct R&D on accelerator physics and technology in support of the Fermilab SRF Program. These associate scientist positions are similar to a tenure-track assistant professor position at a university, with an opportunity for a performance-based promotion to the position of scientist.

We expect the new people to get involved in the design, development and construction of SRF accelerators, most notably Project X, which will allow Fermilab to explore physics phenomena at the Intensity Frontier. Potential future applications of the SRF technology include the International Linear Collider and the Muon Collider, proposed projects that would make sure that Fermilab returns to the Energy Frontier after the Tevatron turns off.

People from many organizations and institutions actively contribute to the Fermilab SRF program and R&D efforts. This summer, two associate scientists in the Technical Division, Andy Hocker and Camille Ginsburg, received promotions to Scientist I for their achievements in the development and coordination of these SRF efforts. Another notable addition to our division is Olenxandr Romanenko, a 2009 Peoples Fellow, who decided to pursue his scientific interests in the

Campaigns

Take Five

Tune IT Up

Weather



Extended Forecast

Weather at Fermilab

Current Security Status

Secon Level 3

Wilson Hall Cafe

Wednesday, Oct. 14

- English muffin sandwich
- Beef barley soup
- Gyros
- Caribbean grilled salmon
- Liver with onions
- Beef and cheddar panini
- Assorted slices of pizza
- Grilled chicken bow tie pasta with tomato cream

Wilson Hall Cafe Menu

Chez Leon

Wednesday, Oct. 21

Lunch

- Cherry-glazed cornish hens with sourdough cherry stuffing
- Steamed broccoli
- Oatmeal pecan pie

Thursday, Oct. 22

Closed

Chez Leon Menu

Call x3524 to make your reservation.

Archives

"Basic science expands national boundaries and frontiers of knowledge," she said. "We would very much like to continue to be part of this international science community as we seek answers to all of the questions Fermilab is trying to answer."

Shankar noted India's participation in such scientific projects as DZero, the LHC and ITER, and she commended the scientists from Indian institutions who work at Fermilab.

"The collaboration that we put in place is a very good example of the kind of collaboration we have and should continue to grow," she said. "I am very pleased and proud that so many of you are contributing to work being done here and at India."

— Elizabeth Clements

Special Announcement

Extreme Beam lecture series 4 p.m. Thursday in Curia II



Kenneth Long, from the physics department of Imperial College London, will deliver the next lecture in the Extreme Beam series Thursday.

The next lecture of the Extreme Beam lecture series will take place at 4 p.m. Thursday in Curia II. Kenneth Long, from the physics department of Imperial College London, will give a talk titled "The Neutrino Factory: Sensitivity for the Next Decade." A reception will follow.

The lecture series, which will feature talks at Fermilab throughout 2009, will give in-depth information about the science of accelerator and detector technologies that will create a world-leading physics program at the Intensity Frontier.

Visit the Extreme Beam [Web site](#) for more information.

In the News

field of SRF accelerators.

Fermilab and the field of high-energy physics have played a major role in the development of accelerator and experiment technology. Names like Robert Wilson, Alvin Tollestrup, Helen Edwards, Carlo Rubbia, Burt Richter and many others quickly come to mind. They cut a path through the jungle of human ignorance and showed that the development of acceleration and detector techniques go hand-in-hand as the best possible investment to push forward the frontiers of our knowledge. The two associate scientist positions in TD will offer a couple of bright, young stars a similar opportunity to join the Fermilab staff and building the future of our laboratory.

Safety Update

ES&H weekly report

There was one first aid case reported to the Medical Department this week. Find the full report [here](#).

[Safety report archive](#)

Photo of the Day

Service Awards - 10 years



Five Fermilab employees received service awards last week for 10 years of service. They were Giorgio Apollinari, ATD; Phil Pfund, Machine Shop Section; James Amundson, CD; Mike Syphers, AD; and Bruce Chrisman, Directorate.

Announcements

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[CMS Result of the Month](#)

[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](#)

The science of spending stimulus money wisely

From *The New York Times*, Oct. 17, 2009

Dr. Wim Leemans, a physicist at the Lawrence Berkeley National Laboratory, shows a touch of parental pride for the hulking machine he affectionately calls T-Rex - a high-intensity laser that pushes electrons around. But a new machine called Bella - formally, the Berkeley Lab Laser Accelerator - is uppermost on his mind these days.

Bella will be twice as large and 20 times more powerful, and Dr. Leemans just got the \$20.7 million in federal stimulus money that he needs to build it. "Bella is T-Rex on steroids," said Dr. Leemans, a slight man of 46. Bella has the potential, he said, to help restore the nation's prowess in particle physics.

Less certain, however, is whether Bella represents smart economics. The cash for the project is a tiny slice of the stimulus package developed by Congress and the Obama administration to jump-start the economy. The stimulus legislation included about \$18 billion for nondefense scientific research and development, a significant boost to the estimated \$61.6 billion already going to science in the 2009 budget, according to the White House Office of Science and Technology Policy. But experts are divided about whether projects like Bella are compatible with the intent of Congress to create jobs as fast as possible.

[Read more](#)

[Applications of High-Intensity Proton Accelerators workshop - Oct. 19-21](#)

[Interpersonal Communication Skills class today](#)

[Annual Enrollment ends Oct. 23](#)

[Children's Halloween party - Oct. 23](#)

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

[Director's Award nominations accepted until Oct. 26](#)

[Conflict Management and Negotiation Skills - Oct. 28, Nov. 11](#)

[Overcome Your Fear of Public Speaking - Oct 29](#)

[Facilitating Meetings That Work - Nov. 4](#)

[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](#)

[Discount movie tickets available](#)

[Discounted Fright Fest tickets](#)

[Chicago Bulls discount tickets](#)

[Chicago Blackhawks discount tickets](#)

[Thai Village restaurant discount](#)

[Additional activities](#)

[Submit an announcement](#)