Fermilab Today

Wednesday, Oct. 13, 2010

Calendar

Have a safe day!

Wednesday, Oct. 13
3:30 p.m.
DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over
4 p.m.
Fermilab Colloquium - One West
Speaker: Vera Luth, SLAC National Accelerator Laboratory
Title: Wolfgang K.H. Panofsky - Physics, Science Policy, and Arms Control

Thursday, Oct. 14
THERE WILL BE NO THEORETICAL PHYSICS SEMINAR TODAY
3:30 p.m.
DIRECTOR'S COFFEE BREAK- 2nd Flr X-Over
4 p.m.
Accelerator Physics and Technology Seminar - One West
Speaker: Shigeki Kato, KEK
Title: Application of Electro Chemical Buffing onto Niobium SRF Cavity Surfaces

Click here for NALCAL, a weekly calendar with links to additional information.

Upcoming conferences

Campaigns

Take Five

Tune IT Up

Weather

Mostly Sunny
65°/43°

Extended Forecast
Weather at Fermilab

Special Announcement

Celebrate the 25th anniversary of collisions in the Tevatron

Come to the Wilson Hall atrium at noon today to enjoy cake in celebration of the 25th anniversary of the first collisions in the Tevatron.

Later in the year, on Friday, Dec. 17, Fermilab will hold a mini-symposium to reflect on the early days of the Tevatron and its rich history. That evening Fermilab employees, users, contractors, funding agency employees and their families and friends will be invited to a potluck dinner. See the tentative agenda here.

Photos of the Day

Celebrating 25 years: A look back at first collisions

Scientist Helen Edwards, who was integral to the development, installation and success of the Tevatron, signs a document signaling the installation of the last superconducting magnet in 1983. This was a necessary step before first collisions could take place in 1985.

From the Accelerator Division

Happy anniversary, Tevatron

Roger Dixon, head of the Accelerator Division, wrote this week's column.

Roger Dixon

On Monday morning, October 14, 1985, the Accelerator Division's Early Bird report, issue no. 1177, stated: "A fitting conclusion to this year's run has been the successful production, accumulation, and acceleration of antiprotons to 800 GeV, and the detection of proton-antiproton collisions in the CDF Detector at B0."

So began the era of the Tevatron collider. Observing the first collisions 25 years ago was a pivotal moment in the laboratory's history. It completed the first bold step toward a prodigious future of collider physics at Fermilab.

The Tevatron accelerator—at that time also known as the Energy Doubler and the Energy Saver—had been accelerating beam for about two years in 1985, supplying protons to a contingent of large fixed-target experiments that had evolved from the fixed-target program associated with Fermilab's original Main Ring accelerator.

Work on the Tevatron—the world's first superconducting accelerator—had begun in earnest in the late 1970s. The construction and installation of the accelerator was a major effort for the laboratory. Busy testing the cryogenic systems and installing superconducting magnets in the beam line, some of the laboratory's venerable staff had difficulty believing that an entire ring of 1,000 superconducting magnets would ever work. It was not uncommon to overhear outrageous bets being proffered concerning the outcome of these efforts. Fortunately, no one ever called in any of these bets when the machine worked as planned: there would have been some very embarrassing moments involving improper behavior.

Current Security Status

Secon Level 3

Wilson Hall Cafe

Wednesday, Oct. 13
- Breakfast: English muffin sandwich
- Cheese soup
- Gyros
- Goulash
- Bratwurst
- Beef and cheddar panini
- Assorted sliced pizza
- Sauerbraten with potato pancake

Wilson Hall Cafe Menu

Chez Leon

Wednesday, Oct. 13
Lunch
- Hot & sour coconut soup
- Wasabi salmon sandwich
- Cucumber salad
- Gingered pear crisp

Thursday, Oct. 14
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

User University Profiles

ILC NewsLine

Info

Names of CDF crew on October 13, 1985 when first proton-antiproton collisions were detected. A closer look at the log book shows that at 3:10 a.m. "CDF reports a confirmed proton antiproton event. Look for free bubbly at B0."

CDF co-spokesmen Alvin Tollestrop and Roy Schwitters celebrate with colleagues after the Tevatron's first proton and antiproton collisions on Oct. 13, 1985.

Leon Lederman, director of Fermilab from 1979-1989, celebrated with colleagues after the Tevatron's first collisions.

In the News

If some people did not have confidence in the machine, they certainly had confidence in the project's leadership. Helen Edwards was key to the success of the Tevatron (See first photo in middle column). She drove the effort hard, and she was a meticulous taskmaster. She knew that it could be done, and she was very credible to the people in the trenches, where she spent much of her time. Everyone worked hard for her, and together they achieved an exceptional outcome.

The Antiproton Source, a major facility in its own right, also had to be built before collisions could occur. Groundbreaking took place in August 1983, and the facility was up and running in 1985. Many people made significant contributions to this effort as well. It is impossible to list all the work that went on to make the collisions a reality.

It took both leadership and technical talent to arrive at this point in history. May we continue to have an abundance of these attributes to take us into the future.

Safety Update

ES&H weekly report, Oct. 12

This week's safety report, compiled by the Fermilab ES&H section, includes no recordable incidents. Find the full report here.

Safety report archive

Announcements

Latest Announcements

Argentine Tango through Nov. 3

NALWO Autumn Potluck Luncheon - Oct. 15

Accelerate to a Healthy Lifestyle program

Fright Fest discount tickets at Six Flags

Lion King musical discount

Chicago Blackhawks discount tickets

Down Syndrome Awareness seminar - Oct. 13

NALWO Children's Playgroup Halloween Party

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Five years after "Rising Storm" report, outlook for American competitiveness has deteriorated

From ***FYI Bulletin of Science News***, Oct. 12, 2010

A very sobering report has been released by the committee that first issued "Rising Above the Gathering Storm." While finding that progress has been made in some areas, the committee, chaired by Norman Augustine, warns in a new report that "in spite of the efforts of both those in government and the private sector, the outlook for America to compete for quality jobs has further deteriorated over the past five years. The Gathering Storm increasingly appears to be a Category 5."

Few science policy reports have had the impact that "Rising Above the Gathering Storm: Energizing and Employing America for a Brighter Economic Future" has had since its release in October 2005. Written at the request of Members of Congress from both parties, the report drew on previous studies to formulate four overarching recommendations and twenty specific implementing actions that Congress could take to improve the nation's competitiveness. The report's release received immediate recognition that has continued in the five years since. Rarely is there a congressional hearing, a meeting, or a briefing at which science policy or funding issues are addressed in which reference is not made to the "Gathering Storm" report or its warnings, recommendations, or specific actions.

Read more

Word 2007: New Features class offered Oct. 20

Excel 2007: New Features class offered Oct. 20

Regal Movie Theater discount tickets available

Fermilab Lecture Series presents The Long Thaw: How Humans are Changing the Next 100,000 Years of the Earth's Climate - Oct. 22

Submit an announcement