

Calendar

Monday, August 2

THEORETICAL ASTROPHYSICS SEMINARS WILL RESUME IN THE FALL

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. All Experimenters' Meeting - Curia II

Tuesday, August 3

10:30 p.m. Academic Lecture Series - Curia II

Speaker: L. Lyons, Oxford University

Title: Practical Statistics for Physicists: Introduction; Learning to Love the Error Matrix

Noon Summer Lecture Series - 1 West

Speaker: A. Para, Fermilab

Title: Neutrino Programs at the Lab

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

Wilson Hall Cafe

Monday, August 2

Wisconsin Cheese soup

Corned Beef Reuben \$4.75

Chicken Provencale \$3.75

Shepherd's Pie \$3.50

BBQ Panini with Pepper Jack Cheese \$4.75

Meat Lovers Pizza \$2.75

Kung Pao Chicken with Peanuts & Scallions \$4.75

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Weather

CMS Detector Parts Built in Russian "Secret City"



Wedges for CMS forward hadron calorimeters
(Click on image for larger version.)

A laboratory in a Russian city that was kept secret for 35 years has provided a vital part of the CMS detector's forward hadron calorimeters. The Scientific Research Institute for Technical Physics in the city of Snezhinsk used a technique it developed, called diffusion welding, to make wedge-shaped iron matrices for the calorimeter.

"The VNIITF was contracted by the Russian Ministry of Science to build the matrices," said Fermilab's Jim Freeman, a CMS collaborator. "They pulled it off well."

Snezhinsk was founded in 1957 as Chelyabinsk-70, one of several Russian towns and cities developed for the sole purpose of weapons development and manufacturing. A city of almost 50,000 people, Snezhinsk is located in the southern Ural Mountains, 800 miles southeast of Moscow. It is still a closed city--all visitors, including residents' family members, must gain permission from the Russian government to enter or leave.

"It's a huge complex," said Nural Akchurin, a CMS collaborator from Texas

Safety Tip of the Week

Where the Wild Things Are

Fermilab is a welcome respite of green fields and nature in the midst of vigorous suburban development. Employees and visitors routinely take advantage, walking, biking, fishing and just enjoying the scenery. We're home to one of the largest tall grass prairies in the country, hundreds of acres of wetland, and some of the last vestiges of oak savannah in Illinois. And with the richness of the plant communities, we are also home to a diverse collection of animal life.



Although we love to see all the wildlife, there is a down side. For every endearing bird 'n' bunny, there seem to be thousands of mosquitoes, ticks, spiders and wasps. Poison ivy, toxic plants and ecological disasters like multi-flora rose, purple loosestrife and garlic mustard abound. And even some of the cutest animals have their surly aspects!

The most common animals we have on site, including raccoons, opossums, geese, bats, foxes, coyotes -- even whitetail deer, under some circumstances, can represent hazards. Although harmful encounters between humans and wildlife are extremely rare, when they occur, it's often because of human mistakes, usually a consequence of forgetting that our wild neighbors are indeed wild; not domestic pets.



Chance Thunderstorms 91°/68°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secon Level 3](#)

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Tech University who visited Snezhinsk. "To get there you fly to Ekaterinburg in the Urals and drive for two hours on country roads, and all of a sudden guards and barbed wire appear. Once you're there, you have a minder, a guy who follows you everywhere."

The city's two major facilities are the VNIITF and the Russian Federal Nuclear Centre, which employ about 80% of the adult population. By 1992, when the city's existence was finally made public, only 50% of employees were working on weapons-related activities. The VNIITF now markets its technical products and expertise to outside recipients, such as the CMS collaboration.

"What was wonderful about the city was that the people were great," said Akchurin. "They treated us wonderfully. When I got there at 3:00 a.m., there was breakfast waiting."



Snezhinsk city square (Click on image for larger version.)

Accelerator Update

Never try to feed a wild animal, either directly or by leaving food out. That tends to break down the natural apprehension that animals have about getting too close to humans. In "surprise" or accidental confrontations, making a loud noise or acting in a threatening way normally will discourage any animal from aggression against humans. If you find that discretion is indeed the better part of valor, and need to exit, do so in a calm manner and keep your eyes on the animal -- don't run! Common sense in dealing with wildlife is still the best policy.

Have a great day and let's work safely all week!

[Safety Tip of the Week Archive](#)

Announcements

Wilson Hall Exterior Window Washing This Week

Window washing for the exterior of Wilson Hall will begins today. Scaffolds will be set up outside the building. Please avoid walking underneath the scaffolds and be aware of the workers. For more information, please call Enixe at x2798.

Upcoming Classes

- August 4 & 11 - Adobe Acrobat 6.0 Prof. (two half-days)
- August 4, 12 - Goal Setting
- August 5 - Performance Review Workshop
- August 10 - Access Intro
- August 24 - Word Intro
- August 25 - Adobe Acrobat 6.0 Prof. - Forms, Security & Accessibility (one half-day)
- August 31 & Sept. 2 - Cascading Style Sheets (two half-days)
- Sept. 14 - 16: JavaScript Programming
- October 5 - Excel Intermediate

July 28 - July 30

- During this 48 hour period Operations established one store that combined with an existing store provided the experiments with approximately 37 hours and 38 minutes of luminosity.
- MI suffered from corrupt MECAR data table
- Recycler stashed antiprotons
- TeV quenched during dry squeeze
- Booster down due to a 480V breaker trip in the West Gallery Yard

[View the current accelerator update](#)

[View the Tevatron Luminosity Charts](#)

In the News

From the Interactions News Wire, July 30, 2004

New Physics Law Unifies Several Superconducting Compounds

UPTON, NY -- A research group led by a scientist at the U.S. Department of Energy's Brookhaven National Laboratory has discovered a simple relationship that mathematically links the properties of a class of high-temperature superconductors, materials that, below a certain temperature, conduct electricity with no resistance. This new, unexpected law applies to superconductors with very different structures and compositions, and may provide clues to understanding the mechanism of high-temperature superconductivity. It is discussed in the July 29, 2004 issue of Nature.

[read more](#)

October 6 - Access Intermediate

October 19 - Word Advanced

[more information](#)

Heartland Blood Drive Today and Tomorrow

Oberwise Dairy -- Give a pint; get a quart! There will be a blood drive today and tomorrow from 8:00 a.m. to 2:00 p.m. in the NE Training Room on the Ground Floor of Wilson Hall. Appointments can be scheduled by visiting the Heartland workers on the Ground Floor of Wilson Hall.

Free English Classes

NALWO-sponsored free English language classes for beginning and advanced levels are Mondays at the Users Center from 9:30 a.m. to 11:00 a.m.

Scottish Country Dancing

Scottish Country Dancing will be held at 7:30 p.m., Tuesday, Aug. 3, at the Geneva American Legion Post, 22 South Second St. in downtown Geneva, one block west of Route 31 and one block south of Route 38, across from the Geneva Public Library. Newcomers are always welcome. Info at 630-584-0825 or 630-840-8194 or folkdance@fnal.gov.