

Calendar

Monday, Oct. 1

1:30 p.m.

Research Techniques Seminar
- One West

Speaker: T. Bowcock,
University of Liverpool
Title: The LHCb Vertex
Detector

2:30 p.m.

[Particle Astrophysics Seminar](#)

- Curia II

Speaker: C. Galbiati, Princeton
University

Title: Recent Results from the
WARP Dark Matter Search

3:30 p.m.

DIRECTOR'S COFFEE
BREAK 2nd Flr X-Over

4 p.m.

All Experimenters' Meeting
Special Topics: GammeV (T-
969) Update; HINS Room
Temperature RF Cavity Test
Milestone - Curia II

Tuesday, Oct. 2

2:30 p.m.

[Special Particle Astrophysics
Seminar](#) (NOTE DATE) - Curia

II

Speaker: C. Galbiati, Princeton
University

Title: Borexino Update

3:30 p.m.

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

4 p.m.

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

West

Speaker: S. Stokov, University
of Hiroshima

Title: Experiments on
Deflection of Charged Particles
in Japan for ILC and J-PARC

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

Weather

Feature

CDF implements clever leak fix during shutdown



Mike Lindgren, PPD CDF department head, shows the plastic seal built around the western silicon detector to give workers access to water cooling tubes while keeping the detector cool and dry.

To fix a multistory, multimillion-dollar detector, CDF employees had to think small. Really small.

Pencil-sized aluminum tubing bringing cooling water to the electronics covering the silicon detectors deep in the heart of the CDF machinery sprang a leak. Without cooling water, the outer layers of electronics shut down, limiting data taking on the east side of the detector for the final two months before the summer shutdown.

The crew had to find a way to plug the leak at a faulty weld without taking the entire silicon structure apart, which wasn't possible.

"There is just no way you can get to the outside of it," said Mike Lindgren, PPD CDF department head. "You can only work through these tubes."

With the help of Ken Schultz, operations specialist with PPD, Peter Wilson, the CDF operations co-head, and his staff found a

Safety Tip of the Week

Flu shot season



Safety Tip columnist Tim Miller receives a flu shot from the Medical Department's Mae Strobel.

Are you debating whether to get a flu shot this year? Not everyone will contract influenza during the upcoming cold and flu season, but why take a chance? Fermilab's onsite Occupational Medical Director Dr. Brian Svazas said the shot is 70 to 90 percent effective in preventing infection, and even if you do catch the flu, the symptoms will be lessened.

Maybe you got sick the last time you had the shot and worry that will happen again. According to Svazas, sickness after the flu shot usually means you suffered from another infection, not influenza.

Svazas adds that it's especially important to get a flu shot if you have a chronic lung problem such as emphysema, chronic bronchitis or asthma. People with these conditions have more difficulty clearing their lungs, and they are prone to pneumonia, the most common kind of secondary infection.

The flu shot also can serve as a diagnostic tool for more serious illnesses. In the unlikely event that avian flu becomes transmissible from person-to-person, inoculation against the regular flu can provide diagnostic information. It can help prevent a "false alarm," as the most common cause of a flu-like illness has been excluded. Additionally, not getting the seasonal flu disease during such a pandemic means that you will not need to seek care during a time when the system is overtaxed and you have to sit in a waiting room where something worse may be waiting for you.

 Partly sunny 73°/55°

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

[Current Security Status](#)

[Secon Level 3](#)

[Wilson Hall Cafe](#)

Monday, Oct. 1

- Potato au gratin
- Monte Cristo
- *Savory roasted chicken quarters
- Lasagna bolognaise
- Chicken ranch wrapper
- Assorted slice pizza
- Szechuan style pork lo mein

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Wednesday, Oct. 3

- Crepes w/ham & gruyere w/ Madeira cream
- Marinated vegetable salad
- Baked apples w/crème chantilly

Thursday, Oct. 4

Dinner

- Shrimp bisque
- Grilled pork tenderloin w/ peach & ginger sauce
- Honey roasted root vegetables
- Hazelnut cake w/frangelico
- Crème anglais

[Chez Leon Menu](#)

Call x4598 to make your reservation.

[Archives](#)

[Fermilab Today](#)

[Result of the Week](#)

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[ILC NewsLine](#)

[Info](#)

solution.

Using medical tools that doctors normally snake through human arteries, Schultz fashioned a camera that threads through the coolant tubing to find the leaks. Schultz also designed a tool to cover the welds with epoxy from inside the tubing. All 16 of the aluminum welds were sealed as a preventative measure.

That fix was by far the most complicated of many CDF repairs made during the shutdown, Lindgren said.

Scientists and technicians at CDF had to design and build a special environment to allow the coolant system repairs while keeping the silicon detectors healthy.

[Read More](#)

-- *Haley Bridger and Tona Kunz*

[Photo of the Day](#)

Fermilab scientists join European Researchers Night



From left: Matthias Neubert, Marcela Carena, Michael Schmidt, Chris Quigg and Sabine Lammers.

Museums, universities and laboratories throughout Europe opened their doors on Friday night and invited the public to the third [European Researchers Night](#). And from across the ocean, Fermilab joined in - virtually. Organized by Matthias Neubert, a physicist who is visiting Fermilab for a few months, a group of scientists here at the laboratory participated in the European event by video conference. Fermilab scientists answered questions posed by a group of participants who had gathered at Neubert's home institution, the University of Mainz in Germany. More than 150 cities in 29 European countries offered a broad range of events connected to the researchers night.

On Wednesday, Oct. 3, Fermilab will hold the first of two vaccination clinics. This first clinic is for employees who have an increased risk of suffering severe illness in the event of infection. The general employee population can attend the November clinic. Additional information about the Fermilab program and an online schedule are available on the [ES&H Section's home page](#). The [Visiting Nurse Association](#) and [American Lung Association](#) also will provide flu shots and have posted their shot schedules for the 2007-2008 season.

[Safety Tip of the Week Archive](#)

[Accelerator Update](#)

Sept. 21-28

- LINAC - NTF starts up tonight
- Tevatron - Found and repaired many vacuum leaks
- NuMI - Installation of dehumidifier system continues
- LINAC and Booster are scheduled to begin turn on next week

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

[Announcements](#)

Have a safe day!

Adobe Acrobat 7.0 Professional training

This course will teach you about PDF files and help you quickly identify components of the Acrobat interface. You will learn how to create PDF documents and more. Deadline to [enroll](#) is Wednesday, Oct. 3.

Word 2003: Introduction Oct. 10

Learn to create, edit, format, and add tables to basic business documents with Word 2003 through this training course. For more information, please visit the [Web site](#).

Sexual harassment training Oct. 9, 10

The Office of Professional & Organization development offers sexual harassment training for FNAL employees on Oct. 9 and managers and supervisors on Oct. 10. Training only will be offered once this fall and is intended to raise awareness of issues surrounding workplace sexual harassment discrimination. Employees can find more information and enroll on-line [here](#). Supervisors or managers can enroll [here](#).

Posters on display

Fermilab Today is online at:
www.fnal.gov/today/

Send comments and suggestions to:
today@fnal.gov

In the News

Scientists ask Congress to fund \$50 billion science thing

From *The Onion*, Sept. 28, 2007

Top physicists from several major American universities appeared before a Congressional committee Monday to request \$50 billion for a science thing that would further U.S. advancement science-wise and broaden human knowing.

The scientists spoke for approximately three hours about the complicated science machine, which is expensive, and large, telling members of the House Committee on Science and Technology that the tubular, gamma-ray-using mechanism is vital in some big way. Yet the high price tag of the thing, which would be built on a 40-square-mile plot of land where the science would ultimately occur, remained a pressing question.

[Read More](#)

In the News

After 10 years, we still can't find most of the universe

From *The Houston Chronicle*, Sept. 29, 2007

'Dark energy' is real, scientists say, though they don't know what it is.

Ten years ago, an unexpected astronomical discovery stunned the scientific world: Two rival teams of astrophysicists claimed that most of the universe is made of an invisible substance they called "dark energy." Only a tiny fraction, they said, consists of the ordinary atoms that make up stars, chairs and people.

Dark energy has shaken the fields of physics and astronomy, much as Copernicus did 500 years ago when he declared that the Earth revolved around the sun, not the other way around.

[Read More](#)

The posters presented during the DOE program review will remain on display on the 15th floor of Wilson Hall through today.

Wellness brown bag seminar Oct. 5

Wellness Works and the U.S. Bone and Joint Decade will present a Brown Bag Seminar from noon to 1 p.m. on Friday, Oct. 5, in One West. Susan Broy, M.D. from the Illinois Bone and Joint Institute LLC will present "Fit to a T," an educational program about bone health and osteoporosis.

Fright Fest discounted tickets

Buy tickets now for Fermilab Fright Fest Days at Six Flags Oct. 19-21. Tickets are \$25.25 each and available at the Recreation Office, WH15W. If you cannot attend the Fermilab days, ask about other special savings for other weekends.

FNALU inbound e-mail stopped today

Today direct e-mail delivery to FNALU nodes will cease. This change only affects delivery, not how or where mail is read. Unless directed otherwise, forwarded mail will move to the IMAP servers. Users should move their existing mail folders to IMAP. Please read the [FAQ](#) for further details. Please contact the help desk at x2345 if you have additional questions.

Scottish Country Dancing Oct. 2

Scottish Country Dancing will meet Tuesday, Oct. 2, at Kuhn Barn on the Fermilab site, moving back to the Barn for the fall season. Instruction begins at 7:30 p.m. and newcomers are always welcome. Most dances are fully taught and walked through, and you do not need to come with a partner. More information is available by calling (630) 840-8194 or (630) 584-0825 or e-mailing folkdance@fnal.gov.

International Folk Dancing Oct. 4

International Folk Dancing will meet Thursday, Oct. 4, at Kuhn Barn on the Fermilab site. Dancing begins at 7:30 p.m. with teaching and children's dances earlier in the evening and request dancing later on. Newcomers are welcome and you do not need to come with a partner. More information is available by calling (630) 840-8194 or (630) 584-0825 or e-mailing folkdance@fnal.gov.