Calendar

Tuesday, Sept. 23
3:30 p.m.
DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over
THERE WILL BE NO ACCELERATOR PHYSICS
AND TECHNOLOGY SEMINAR TODAY

Wednesday, Sept. 24
3:30 p.m.
DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over
4 p.m.
Fermilab Colloquium - One West
Speaker: Andriy Lomako,
DALSA Corporation
Title: Solid State Imagers in Space and Scientific
Applications – DALSA Technology (In conjunction
with Pixel 2008 Workshop)

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

Feature

Technical division celebrates safety with picnic

From left, Technical Division employees Harry
Carter and Mark Champion join TD head
Giorgio Apollinari to highlight the division's
safety record at their picnic on Tuesday, Sept.
16. Image courtesy of Tom Nicol.

The workers of the Technical Division
move multi-ton magnets, use hydrofluoric
acid and handle tools that slice through
metal.

But the worst injury anyone got at work this
year was a bruise from slipping on a patch
of ice.

At its annual picnic Tuesday, Sept. 16, TD
celebrated a record 532 days without a lost
or restricted work day due to injury.

That's almost a year and a half of safety
while designing, constructing and
sometimes operating major equipment, said
Giorgio Apollinari, head of TD.

Individual work groups in the TD have even
better safety records. The machine shop
department has gone 1,961 days without
losing work time to injuries. The magnet
systems department has gone 2,152 days,
SRF development 3,799 days, design
drafting and CIS 2,134 days and the test
and instrumentation department 2,223
days.

"People stay focused on what they do and
they do it safely," he said.

-- Kathryn Grim

Announcement

Sign up to be a mentor

Director's Corner

Year end

In one more week we will be ending fiscal
year 2008. It is worth reflecting on this
tumultuous and extremely challenging
year. A dominant feature was the large
budget cut meted to the laboratory by the
Omnibus bill last December. We had to take very difficult
measures with unpaid furloughs, drastic
reductions in the preparation for future
projects and planning for voluntary and
involuntary layoffs.

Against this background many remarkable
events followed. The public support of our
neighbors, the mayors of Illinois, the
business community and the scientific
community was phenomenal. During the
darkest hour we benefited from a generous
unforeseen private donation for the support
of our laboratory. Our elected
representatives went to work and were able
to restore significant funding to us through
the emergency supplemental bill in July,
avoiding involuntary layoffs and restarting
programs stopped under the Omnibus bill.
A July 2 celebration at Fermilab with
Senator Durbin, Representatives Biggert
and Foster, and Deputy Secretary Kupfer
marked the end of a very dark period for
the laboratory.

The most extraordinary aspect of this
extraordinary year, however, has been the
performance of our employees and users.
The physics productivity has been
remarkable across the three frontier areas
of our program: the energy frontier, the
intensity frontier and the particle
astrophysics frontier. Collaborations based
at Fermilab submitted more than a hundred
results to the most recent international
conference. Last week, Fermilab Today
marked five straight years of a new "Result
of the Week" every week from CDF and
DZero. Accelerator operations have
surpassed every expectation. The Tevatron
is on its fifth month averaging luminosities
greater than 200 inverse picobarns per
Wilson Hall Cafe Menu

Chez Leon

Wednesday, Sept. 24
Lunch
- Southwest cornish hens
- Chipotle sweet potatoes
- Orange carmel flan

Thursday, Sept. 25
Dinner
- Closed

Chez Leon Menu
Call x4598 to make your reservation.

Archives

Fermilab Today
Result of the Week
Safety Tip of the Week
ILC NewsLine

Info

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

Send comments and suggestions to:
today@fnal.gov

Help to change a life via e-mail. MentorNet, a not-for-profit organization dedicated to increasing the success of women and minority college students engaged in science, technology, engineering and math curricula, needs more mentors.

MentorNet uses a complex matching algorithm to connect students with like-minded mentors in national laboratories, academia and industry. Regular e-mail prompts encourage students to connect with their mentors. Mentors regularly receive coaching prompts, have access to a large online library of educational materials and can participate in an online forum to get guidance from other mentors. In less than 15 minutes a week, you can change the course of a life - and have your own life enriched as well.

In the last year, MentorNet supported more than 3,100 students from 110+ colleges and universities. In order to expand its outreach program, MentorNet needs more mentors. Please help make a difference in a student's life by becoming part of this program. Just go to www.MentorNet.net and sign up to be a mentor.

Photo of the Day

Getting some shade

PPD's Leticia Shaddix took this photo of a green heron on Thursday, Sept. 18.

In the News

State's bold technology bet
From Chicago Tribune, Sept. 21, 2008

Proton therapy may be the next big thing in cancer treatment and a wonder of applied physics, but not everyone is convinced that the Chicago area needs two of the expensive, cutting-edge facilities.

State regulators last week approved a $140 million proton therapy center for west suburban Warrenville, to be built just 9 miles from a $159 million device under development in West Chicago. That's a bold bet on the technology, considering that month. While the luminosity of the Tevatron has been the highest ever, our injury rates have been the lowest ever, with a very large decrease over the previous year. You should take pride and celebrate what you have accomplished. At the lab-wide party on October 17 we will do just that!

Accelerator Update

Sept. 19-22
- Four stores provided ~54 hours and 26 minutes of luminosity
- TeV sector F0 vacuum burst cascades to A1 transfer line
- TeV quenched due to bad IO crate power supply

Read the Current Accelerator Update
Read the Early Bird Report
View the Tevatron Luminosity Charts

Announcements

Have a safe day!

NALWO autumn lunch Sept. 29
NALWO, Fermilab's women's organization, will hold its annual autumn lunch on Monday, Sept. 29, from 11:30 a.m. - 1 p.m. at Chez Leon in the Users' Center. Guests, visitors, users and employees are welcome. Please bring a dish to share. For more information, contact Margie Nagaitsev at (630) 232-7308. A driver's license or other photo ID is required to enter the laboratory.

Microsoft Word, Excel classes
The Office for Professional and Organization Development will offer classes in Microsoft Word and Excel in early October. "Word 2003 Advanced" will take place on Oct. 7. Learn more and enroll. "Excel Advanced" will take place on Oct. 8. Learn more and enroll.

Book Fair Sept. 23-24
Pick up discounted books and gifts at the Book Fair, held in the Wilson Hall atrium Tuesday, Sept. 23, and Wednesday, Sept. 24, from 10 a.m. - 5 p.m. The event, which is sponsored by the Recreation Office, is also brought to you by Books Are Fun.

Kyuki-Do begins Sept. 29
Kyuki-Do, a Korean martial art similar to Taekwondo, can help teach you balance, power, grace and self confidence. Classes begin Sept. 29 and are held for six weeks on Mondays and Wednesdays from 5 - 6 p.m. at the Recreation Facility in the Village. You need to register through the Recreation Office and have a Recreation Facility membership.

Scottish Country Dancing Tuesday
the U.S. as a whole currently has only five proton treatment centers.

What is proton therapy, and why do some doctors think it can improve care for certain kinds of cancer patients? The answer begins with a 1946 paper written by physicist Robert Wilson, who later became Fermilab's first director.

Wilson identified a potentially useful feature of protons, particles that normally are packed tight in the center of atoms. When a beam of protons strikes an object, the particles slow down and then release most of their energy in a quick burst just before they stop entirely.

Wilson realized that the localized burst of energy meant doctors could use protons to precisely target radiation treatment for cancer patients. Like other types of radiation treatment, proton therapy kills cancer cells by destroying their DNA. But other kinds of radiation therapy, such as high-energy X-rays, typically inflict damage on tissue around the tumor.

Read more