

## 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.

## Weather



Mostly sunny  
82 °/59°

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

## Current Security Status

[Secou Level 3](#)

## Wilson Hall Cafe

### Tuesday, Sept. 23

- Creamy turkey vegetable
- Chili dog
- Smart cuisine: tomato  
Swiss steak
- Chicken cacciatore
- Italian panini w/provolone
- Assorted sliced pizza
- Super burrito

## 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.



Pier Oddone

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/](http://www.fnal.gov/today/)

Send comments and suggestions to: [today@fnal.gov](mailto: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](http://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 luncheon 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](#)

Scottish Country Dancing will take place in Kuhn Barn in the Fermilab Village on Tuesday, Sept. 9. Instruction begins at 7:30 p.m. Newcomers are always welcome. Most dances are fully taught and walked through. You do not need to come with a partner. For more information call (630) 840-8194 or (630) 584-0825 or [e-mail](#).

#### [Additional Activities](#)