

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/

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 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](#)