

Furlough Information

New furlough information, including an [up-to-date](#) Q&A section, appears on the [furlough Web pages](#) daily.

Layoff Information

New information on Fermilab layoffs, including an [up-to-date](#) Q&A section, appears on the [layoff Web pages](#) daily.

Calendar

Wednesday, April 9

3:30 p.m.

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

4 p.m.

[Fermilab Colloquium](#) - One
West

Speaker: N. Saoulidou,
Fermilab

Title: Neutrino Physics at
Fermilab

Thursday, April 10

THERE WILL BE NO
PHYSICS AND DETECTOR
SEMINAR THIS WEEK

2:30 p.m.

[Theoretical Physics Seminar](#) -
Curia II

Speaker: K. Wang, University
of Wisconsin Title: Testing the
Origin of Neutrino Mass at the
LHC

3:30 p.m.

DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over
THERE WILL BE NO
ACCELERATOR PHYSICS
AND TECHNOLOGY
SEMINAR TODAY

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

Weather

Feature

Safety at an international level



Rafael Coll

Keeping employees safe is our first responsibility.

Fermilab works hard to integrate safety and health precautions into laboratory employees' day-to-day work. Taking a proactive stance, Fermilab plans to voluntarily check to see whether the laboratory

meets what will soon become an international safety standard.

On April 14, the laboratory will begin the process to register under Occupational Health and Safety Assessment Series 18001- Safety and Health Management Systems. This is quickly becoming the international safety standard. Fermilab wants to lead the way in registering under this new standard.

Beginning Monday, auditors working on the assessment series will evaluate five different areas of the laboratory's health and safety management systems:

- policy
- planning
- implementation
- operation
- checking and corrective action
- management review

The auditors may ask employees about the laboratory's safety policy. All employees should read the safety policy, Directorate Policy #3, in the [Policy Manual](#). To navigate to the Policy Manual, go to the Fermilab home page and click Fermilab at Work/Division and Sections/Directorate/Policies and Documents.

The Policy Manual spells out how Fermilab operates. The laboratory holds every person on site accountable for performing all activities in a safe manner.

All employees should know what the safety policy contains. Just as important, the policy makes clear Fermilab's commitment to ensure all employees return home daily in the same state of health as when they reported to work in the morning.

From the Technical Division

Eadem mutata resurgo

Giorgio Apollinari, head of the Technical Division, wrote today's column.

"Although changed, I shall rise the same"

This Latin phrase, first used by Swiss mathematician J. Bernoulli, refers to the continual appearance of the logarithmic spiral in nature, such as in the curves of the Nautilus shell, the arms of spiral galaxies and the seeds in a sunflower head.

A similar statement could be made about the ubiquitous nature of the superconducting radiofrequency technology and its numerous potential applications in present and future particle accelerator projects.

One SCRF application is the High Intensity Neutrino Source. R&D efforts are underway here at Fermilab. A basic feature of HINS is the adoption of SCRF technology to accelerate proton beams starting at very low energy. The goal is the development of a one-of-a-kind 60-MeV Linear Accelerator to demonstrate the feasibility of a high-intensity front end for possible use in the proposed Project X.

Last month, thanks to the infrastructure created at Fermilab to support the ILC program, the HINS project achieved a remarkable result. We successfully tested the first 325-MHz Single Spoke Resonator cavity in the Vertical Test System that was originally designed and built for the testing of 1.3-GHz ILC cavities. The SSR cavity exceeded the design operating voltage of 10 MeV/m and reached a field of 13.5 MeV/m after only a few hours of processing.

The SSR cavity was designed and built by an Argonne/Fermilab collaboration. Fermilab personnel took care of the electromagnetic design and mechanical construction of the cavity. Collaborators at Argonne concentrated on processing the cavity surface.



Giorgio Apollinari



Partly sunny
55°/37°

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

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Wednesday, April 9

- Shrimp gumbo
- Pizza burger*
- Bistro salmon steak
- Mongolian beef
- BLT wrap
- Chicken Cajun pasta

*Smart cuisine

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, April 9

Lunch

- Moroccan game hens
- Couscous w/almonds & raisins
- Julienne of carrots
- Pear strudel

Thursday, April 10

Dinner

- Closed

[Chez Leon Menu](#)

Call x4598 to make your reservation.

Archives

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

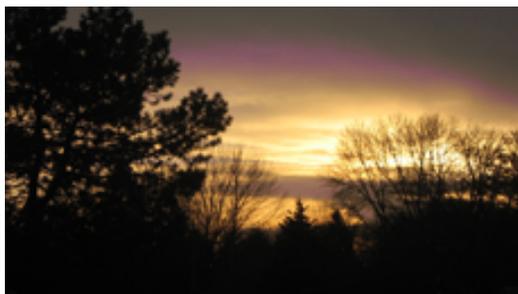
[ILC NewsLine](#)

Info

-- *Rafael Coll, ES&H*

Photo of the Day

Spring sunset



Suvadeep Bose, a graduate student with the CMS Center, submitted this photo of a sunset. The photo was taken from the long-term parking lot in the Village looking toward the Users' Center.

In the News

Physicist says particle will be seen

From the *Associated Press*, April 7, 2008

The "father" of an elusive subatomic particle said Monday he is almost sure it will be discovered in the next year in a race between powerful research equipment in the United States and Europe.

British physicist Peter Higgs, who more than 40 years ago postulated the existence of the particle in the makeup of the atom, said his visit to a new accelerator in Geneva over the weekend encouraged him that the so-called Higgs boson will soon be seen.

The \$2 billion Large Hadron Collider, under construction since 2003, is expected to start operating by June at the European Laboratory for Particle Physics, which is known as CERN.

It likely will take several months before the hundreds of scientists from all over the world at the laboratory are ready to start smashing together protons to study their composition.

But Higgs said the particle may already have been created at the rival Fermi National Accelerator Laboratory outside Chicago, where the Tevatron is currently the world's most powerful particle accelerator.

"The Tevatron has plenty of energy to do it," said Higgs. "It's just the difficulty of analyzing the data which prevents you from knowing quickly what's hiding in the data."

The SSR test - very important for the HINS program - shows the expertise we have gained in the development and construction of SCRF infrastructure and unique SCRF devices. While budget problems have an impact on our R&D efforts, they do not affect our capability to look for innovative ways of using our resources and obtaining excellent results.

Safety Update

ES&H weekly report, April 8

This week's safety report, compiled by the Fermilab ES&H section, lists no recordable injury. Fermilab employees have worked 28 days without recordable injury. The full report is available [here](#).

[Safety report archive](#)

Announcement

Library book round up



To better serve customers, the library will fine-tune circulation records. All customers with items checked out should receive an e-

mailed account summary in the near future. Please contact the [library](#) if you receive an incomplete list or receive a list in error, or if you have books out but don't receive an account summary. These lists will not include library journals. If you have journals, please return them. These are well-used items that should remain in the library. Also, please take this opportunity to consider returning items you've had so long that you may have thought they were your own. With everyone's help, the library can stretch resources and improve service.

Announcements

Fermilab Today

is online at:

www.fnal.gov/today/

Send comments and

suggestions to:

today@fnal.gov

[Read more](#)

In the News

Coming soon: superfast internet

From the *Times Online*, April 6, 2008

The internet could soon be made obsolete. The scientists who pioneered it have now built a lightning-fast replacement capable of downloading entire feature films within seconds.

At speeds about 10,000 times faster than a typical broadband connection, "the grid" will be able to send the entire Rolling Stones back catalogue from Britain to Japan in less than two seconds.

The latest spin-off from Cern, the particle physics centre that created the web, the grid could also provide the kind of power needed to transmit holographic images; allow instant online gaming with hundreds of thousands of players; and offer high-definition video telephony for the price of a local call.

[Read more](#)

FermiGrid 201, 202 offered

FermiGrid 201: Scripting and Running Grid Jobs

This introductory course is offered for individuals who work with or have an interest in grid computing.

[Learn more and enroll](#)

FermiGrid 202: Grid Storage Access

This class includes lab time.

[Learn more and enroll.](#)

TIAA CREF retirement counseling

Chad Stein from TIAA CREF will conduct retirement counseling sessions at Fermilab on Wednesday, April 9, and Thursday, April 10.

You may schedule an appointment by calling (800) 842-2005, x5602 or using the TIAA CREF [Web site](#).

Computer programming course

"Fine Points of C++ Pointers: Dumb, Smart, and Smarter," the second course in the current series of "Selected Topics in Computer Programming," is offered on Thursday, April 10. Aimed at programmers with C++ experience, it will deal in depth with issues related to pointer manipulation in C++ programs. Attendees will learn best-practice techniques of resource management in modern standard C++, as well as related new techniques from the next C++ standard. Participants of the free course will receive TRAIN credit. Course registration is now [open](#). Future courses will occur at two-week intervals.

Blood Drive April 22, 23

Mark your calendars. Heartland Blood Centers will conduct a Fermilab Blood Drive on April 22 and 23 from 8 a.m to 2 p.m. in the Wilson Hall Ground Floor NE Training Room.

Appointments can be scheduled on the [Web](#) or by calling Diana at x3771 or Margie at x5680. More information can be found [here](#).

[Additional Activities](#)