

## Calendar

### [Have a safe day!](#)

Monday, July 12  
THERE WILL BE NO  
PARTICLE ASTROPHYSICS  
SEMINAR THIS WEEK  
3:30 p.m.  
DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over  
4 p.m.  
All Experimenters' Meeting -  
Curia II  
Special Topic: T-980 Crystal  
Collimation: New Results, New  
Insights

Tuesday, July 13  
THERE WILL BE NO  
ACCELERATOR PHYSICS  
AND TECHNOLOGY  
SEMINAR TODAY  
12 p.m.

[Summer Lecture Series](#) - One  
West

Speaker: Brian DeGraff and  
Leonardo Ristori, Fermilab  
Title: Civil and Mechanical  
Engineering

3:30 p.m.  
DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over

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

### [Upcoming conferences](#)

## Campaigns

### [Take Five](#)

### [Tune IT Up](#)

## H1N1 Flu

For information about H1N1,  
visit Fermilab's flu information  
[site](#).

## Feature

### New service wall honors long-term employees



Pier Oddone unveils the new service wall,  
which lists names of employees who have  
given more than 30 years of service.

In today's mobile work world it's an increasing  
rarity to find businesses where people can, or  
want to, work for decades. Count Fermilab as  
one of those rare jewels.

The Employee Relations Department  
dedicated last month a plaque on the 15th  
floor honoring employees who have worked  
consistently at the laboratory for more than  
three decades. So far, 548 names fill the  
plaque; 365 of them are current employees.

"This is just a huge thank you to all of our  
employees who work so hard, and it really is a  
blessing that there are still places where  
people can reach 30 years of employment,"  
said Juanita Frazier, Employee Relations  
Department manager in WDRS.

Many employees can count even longer  
service to the laboratory, especially adding  
years worked non-consecutively or as  
temporary workers, a common occurrence in  
the laboratory's early days.

Pat Oleck of the Finance Section has spent  
her entire career at the laboratory. She worked  
periodically or as a temporary employee  
through Kelly Services, a staffing agency,  
between 1968 and 1975. She has worked full-  
time since 1975.

"They raised me," she said of the laboratory  
community. "I was here at 18 and my family  
was in Tennessee. This is like my family."

[Read more](#)

## ES&H Tips of the Week - Computer Security



### Looking for the bad guy's needle in a data haystack



Finding evidence of computer crime can be like  
looking for a needle in a haystack, as seen in this  
image from the Fermilab Education Office website.

When the laboratory has a computer security  
incident, the incident response and computer  
security teams must dig through mountains of  
data. How do they find the little bits that lead  
to the tracks that the bad guy left behind?

It's a proverbial needle in a haystack. The  
Splunk software system can help find it.

Computer system managers give the teams  
the machines' log files before an incident  
happens. By adding those files to the Splunk  
software system, the teams can determine the  
machines' normal behavior. The teams can  
get a virtual picture of the existing data  
haystack they would need to search through in  
the event of trouble.


The system, which can add some 200  
gigabytes a day, only shows computer security  
personnel what they want to see.

This allows them to detect abnormalities. Early  
detection of suspicious computer activity lets  
the teams remove suspect computers from the  
network, containing the damage more quickly.

All laboratory devices are subject to potential  
security incidents. By using Splunk, computer  
security personnel can detect the targets of  
malicious activity to assess the biggest risks,  
limit them and help contain problems quickly.

-- *Tim Rupp, computer security staff*

## Weather

 Chance of storms  
82°/63°

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

## Current Security Status

[Secou Level 3](#)

## Wilson Hall Cafe

Monday, July 12

- Breakfast: Croissant sandwich
- Smart cuisine: Potato leek soup\*
- Monte Cristo
- Smart cuisine: half roasted chicken\*
- Alfredo tortellini
- Chicken ranch wrapper
- Assorted sliced pizza
- Szechuan style pork lo mein

\*Carb-restricted alternative

[Wilson Hall Cafe Menu](#)

## Chez Leon

Wednesday, July 14

- Lunch
- Chicken satay wrap
  - Corn & black bean salad
  - Sautéed zucchini
  - Fruit skewer with cookies

Thursday, July 15

- Dinner
- Closed

[Chez Leon Menu](#)

Call x3524 to make your reservation.

## Archives

-- Tona Kunz

## Milestone

## Jeff Mack retires



Jeff Mack

Jeff Mack, an employee in the web, messaging and collaboration apps and internal groupware, workflow, tracking group in the Computing Division retired June 25. Mack began working at the laboratory on Dec. 15, 1971, and has since been involved in many groups and projects within the division.

Mack was head of the High Performance and Parallel Computing Department when the division moved away from operator-mounted tape operation to automated robotic tape mounts, recalled Computing Division employee Mark Fischler. Mack led early developments of tools that let experiments organize their tape data and specify mount requests to (in those days) a combination of operators and tape robots.

Under Mack's leadership, the department also improved the software for experimenters that allows them to use computing farms for event reconstruction. He also delved into the use of databases in conjunction with data analysis.

"Jeff was very dedicated to his work," said Computing Division employee Gerry Bellendir, who worked with Mack for many years. "He often brought a much needed critical eye to important projects. He was a friend as well as a coworker, and I will miss him."

--Marcia Teckenbrock

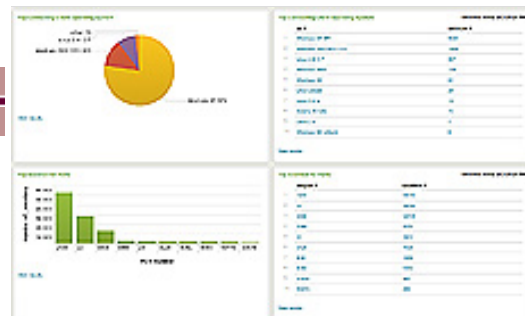
## In the News

## Dark matter may be building up inside the sun

From *Wired Science Blog*, July 9, 2010

The sun could be a net for dark matter, a new study suggests. If dark matter happens to take a certain specific form, it could build up in our nearest star and alter how heat moves inside it in a way that would be observable from Earth.

Dark matter is the mysterious stuff that makes up 80 percent of the matter in the universe, but doesn't interact with electromagnetic



A screen snapshot of some of the information Splunk provides about log files.

[Safety Tip of the Week Archive](#)

## Milestones

## Deaths

Alessandro Ruggiero, an accelerator physicist who worked at Fermilab's Antiproton Source between 1970 and 1984 in the 1980s, died on June 26.

Dennis Theriot, who retired from Fermilab as associate director of technology in 1993, died July 5, 2010. Check *Fermilab Today* later this week for an In Memoriam. [Read his obituary.](#)

Wilson Cross of Fermilab's Cryogenics Department died on June 25 at the age of 55. He had served as a laboratory employee for 30 years. Check *Fermilab Today* later this week for an In Memoriam. [Read his obituary.](#)

## Accelerator Update

July 7-9

- Four stores provided ~39 hours of luminosity
- Main Injector personnel conducted slow spill studies
- TeV conducts 3x3 study store (7958)
- Main Injector and MINERvA personnel conducted neutrino communications study
- Switchyard power supply repaired
- P-bar Debuncher bend bus current drop
- NuMI shutdown begins 7/12/10

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

## Announcements

[Fermilab Today](#)[Result of the Week](#)[Safety Tip of the Week](#)[CMS Result of the Month](#)[User University Profiles](#)[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)

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forces. Although the universe contains five times as much dark matter as normal matter, dark matter is completely invisible both to human eyes and every kind of telescope ever devised. Physicists only know it's there because of its gravitational effect on normal matter. Dark matter keeps galaxies spinning quickly without flying apart and is responsible for much of the large-scale structure in the universe.

[Read more](#)**In the News****X-rays reveal origin of Dead Sea Scroll**From [physicsworld.com](http://physicsworld.com), July 9, 2010

Physicists in Italy have provided further clues as to the origin of the Dead Sea Scrolls using a new method that relies on emissions from a radioactive source. The portable technique, known as XPIXE, could be used to complement analyses of ancient artefacts currently carried out at particle accelerators.

PIXE – particle-induced X-ray emission – involves firing protons at a sample and then measuring the X-rays emitted by specific elements excited within the material, with the energy of the X-rays identifying the elements in question. First proposed in the 1970s, PIXE has undergone several developments but in general requires a particle accelerator.

[Read more](#)**Latest Announcements**[Sons of the Never Wrong - July 24 - 8 p.m](#)[Claudia Schmidt - Singer/Songwriter - Fermilab Arts Series](#)[Club & League Fair - Aug. 11](#)[Gizmo Guys - Fermilab Arts Series - Sept. 25](#)[ASK HR: The Office for Professional Development - July 12](#)[Toastmasters - July 15](#)[Argentine Tango - July 7-28](#)[Walking program weekly drawing winner announced](#)[Format change for new personnel requisition form](#)[Deadline approaching for requests for fall 2010 & spring 2011 on-site housing](#)[Day Camp payments due](#)[All supervisors: Do you need help preparing for performance reviews?](#)[Time to complete accomplishment reports](#)[10,000 Steps-a-Day walking program](#)[Introduction to LabVIEW course - July 13](#)[Embedded Design with LabVIEW FPGA and CompactRIO seminar - July 13](#)[Interaction Management coaching forum - July 27](#)[Submit an announcement](#)