

## Calendar

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

Wednesday, Sept. 30  
3:30 p.m.

DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over  
4 p.m.

[Fermilab Colloquium](#) - One  
West

Speaker: Clark Cully, DOE  
Title: Fun D.C. Jobs for  
Physicists

Thursday, Oct. 1  
2:30 p.m.

[Theoretical Physics Seminar](#) -  
Curia II

Speaker: Christopher Jackson,  
Argonne National Laboratory  
Title: Higgs in Space!

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.

## Campaigns

### [Take Five](#)

### [Tune IT Up](#)

## Weather



Sunny  
63°/42°

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

## Current Security Status

### [Secon Level 3](#)

## Feature

### U.S. manufacturer passes SRF cavity benchmark



A superconducting cavity.

For the first time, a superconducting radio frequency cavity made by a U.S. manufacturer passed the gradient benchmark required for the proposed International Linear Collider.

Advanced Energy Systems Inc. of Medford, N. Y., produced the nine-cell niobium cavity, which achieved an acceleration gradient of 41 megavolts per meter, surpassing the 35 megavolts per meter benchmark, during tests earlier this month at Thomas Jefferson National Accelerator Facility in Newport News, Virginia.

The accelerating gradient is a measure of how much an accelerator can increase a particle's energy over a certain distance. Future accelerators, like the ILC, aim to achieve the highest possible gradient to build shorter, and hence cheaper, machines.

AES president Tony Favale said a new treatment process, in which Jefferson Lab baked the cavities at higher temperatures for less time, might have contributed to better results. Baking the cavities removes hydrogen from the niobium.

"They always said our welds were beautiful, but having a beautiful weld doesn't mean it will pass the test," Favale said. "Maybe it's the higher temperatures. We can't wait to see how the next cavities test."

Fermilab, which purchased the cavity from AES, plans to install it in a cryomodule planned for construction in 2010, said Mark

## From the WDRS

### Putting your ideas to work

*Kay Van Vreede, head of the Workforce, Development and Resources Section, wrote this week's column.*

In my last column, I asked for suggestions to enhance human resources services and asked for participation in live suggestion sessions.

I would like to thank those who took the time to share ideas. Not only did those individuals provide good ideas, but the communication gave us an opportunity to bounce ideas off an interested group of people. I enjoyed the opportunity to speak with people and hear what is important to them. It is a practice I would like to continue. I will ask people to participate in chat groups on a periodic basis.

Most of the enhancements we are looking at fall into one of three categories: customer service, outreach and communication. We are still working on refining and prioritizing our plans, but there are some things we have already done or are in the process of doing. We are developing a customer feedback mechanism so that people can tell us what works and what doesn't. We are also completely revamping our Web site to make it easier to navigate. The new site will make it easier to find answers to your questions.

We also plan to bring more human resources events to all parts of the laboratory. During this year's annual enrollment, which begins Oct. 1, we will have Benefits Department employees and vendor representatives available at different locations throughout the laboratory to help answer any questions you may have.

For more frequent updates on changes to benefits or benefit policies, you can check out our most recent [Benefits Bulletin](#).

To better acclimate newcomers to the laboratory, or to refresh those employees who wish to attend, WDRS has implemented a regular newcomers Brown Bag event. During this event, new employees will have an



Kay Van Vreede

**Wilson Hall Cafe**

Wednesday, Sept. 30  
 - Chicken noodle  
 - Steak sandwich  
 - Maple dijon salmon  
 - Mongolian beef  
 - California club  
 - Assorted slices of pizza  
 - Chicken pesto pasta

**Wilson Hall Cafe Menu****Chez Leon**

Wednesday, Sept. 30  
 Lunch  
 - Marinated flank steak with mushrooms and pea pods  
 - Jasmine rice  
 - Lemon cheesecake

Thursday, Oct. 1  
 Dinner  
 - Tomato soup with orange and cumin  
 - Individual beef croustades with boursin and mushrooms  
 - Baby spinach with scallions and lemon  
 - Chocolate mousse

**Chez Leon Menu**

Call x3524 to make your reservation.

**Archives****Fermilab Today**[Result of the Week](#)[Safety Tip of the Week](#)[CMS Result of the Month](#)[User University Profiles](#)[ILC NewsLine](#)**Info**

Champion, SRF development department head in Fermilab's Technical Division. The proposed ILC will require 16,000 superconducting cavities.

AES has produced 10 cavities so far, eight of which have been processed and tested. The qualifying cavity is the eighth built by AES. The ninth cavity also performed well, topping out just below the benchmark, at 34 megavolts per meter.

"The excellent performance of the latest AES cavity is encouraging," said Bob Kephart, director for Fermilab's ILC program. "It is an important step for U.S. industry to become competitive manufacturers of SRF components."

Three other North American manufacturers — Niowave, of Lansing, Mich., Roark, of Brownsburg, Ind., and PAVAC Industries Inc., of British Columbia, Canada — will provide their first cavities to Fermilab in 2010.

-Chris Knight

**Special Announcement****Prairie Seed Harvest Oct. 3**

On Oct. 3, from 10 a.m. to 2 p.m. you can take your green-thumb skills to a new level to help restore Fermilab's prairie by collecting native seeds. Some of the seeds replenish nature areas at the laboratory while others help build prairies at area schools. Enter at Pine Street and follow signs to the harvest. Wear field clothes and gloves. Bring hand clippers and paper bags.

A picnic lunch will be provided. If you plan to bring a group, contact Roads and Grounds' Bob Lootens at [lootens@fnal.gov](mailto:lootens@fnal.gov). A second prairie harvest is scheduled for Oct. 31. Click [here](#) for more information.

**In the News**

opportunity to hear a short presentation on a specific topic, ask the experts questions and network with other newcomers as well as employees who have been here longer and want to share their experiences. I'll keep you posted as we add more.

There is one other thing I want to share with you. Much to our joy, we have finally thrown out the typewriters and have automated payroll authorization forms. When you see the payroll authorization forms for your Oct. 1 increase, you will see the first revision of this form in about 35 years.

**Safety Update****ES&H weekly report  
Sept. 29, 2009**

This week's safety report, compiled by the Fermilab ES&H section, includes four first aid only accidents, all of them insect stings.

Find the full report [here](#).

[Safety report archive](#)

**Announcements****Latest Announcements**

[Excel shortcuts class - Oct. 13](#)

[Annual enrollment begins - Oct. 1](#)

[Fermilab hosts workshop on applications of high-intensity proton accelerators - Oct. 19 - 21](#)

[Scottish country dancing Tuesday evenings at Kuhn Village Barn](#)

[Weight Watchers at work coming soon](#)

[International folk dancing Thursday evenings at Kuhn Village Barn](#)

[Special film screening in Chicago for the Year of Astronomy - Sept. 25 - Oct. 1](#)

[Argentine Tango through Sept. 30](#)

[Submit advance leave agreement form](#)

[ACU presents "Investing in an](#)

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is online at:  
[www.fnal.gov/today/](http://www.fnal.gov/today/)

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

Visit the Fermilab  
[home page](#)

## Batavia artist donates painting to fight hunger

From *Batavian Republican*, Sept. 28,  
2009

**Editor's note:** Kathi Luedemann works as a  
compensation analyst supervisor for  
Fermilab's Workforce Development &  
Resources Section.

Batavia resident Kathi Luedemann often gets  
the urge to paint.

"I've been waiting for an airplane and have sat  
down, I might have some water nearby, and  
paint in an airport," Luedemann said. "I look to  
paint as often as I can."

On Sept. 17, Luedemann was involved in the  
"Art of Giving" charity event at Cantigny with  
the Northern Illinois Food Bank. Luedemann  
donated four watercolor paintings for sale and  
helped the food bank raise more than \$10,000  
at the event. At least 150 people attended.

[Read more](#)

[Uncertain Market" - Oct. 1](#)

[Toastmasters - Oct. 1](#)

[NALWO - Annual Autumn Potluck  
Luncheon - Oct. 2](#)

[Day of Astronomy in Aurora - Oct. 3](#)

[Prairie Seed Harvest - Oct. 3](#)

[English Country Dancing - Oct. 4](#)

[On-site prescription eyewear  
technican dates of absence](#)

[Yoga class begins Oct. 6](#)

[Muscle toning class begins Oct. 6](#)

[Thai Village restaurant discount](#)

[Sign up for fall Science Adventures  
classes](#)

[Buttered Rum performs on Fermilab  
Arts Series - Oct. 24](#)

[Fred Garbo Inflatable Theatre - at  
Fermilab Arts Series - Nov. 7](#)

[Process piping \(ASME B31.3\) class  
offered in October and November](#)

["The Night Before Christmas Carol"  
at Fermilab Arts Series - Dec. 5](#)

[Additional Activities](#)

[Submit an announcement](#)