

**Calendar**

**Monday, Jan. 26**  
**2:30 p.m.**  
[Particle Astrophysics Seminar](#)

- Curia II  
 Speaker: Jiangang Hao,  
 University of Michigan  
 Title: Optical Galaxy Cluster  
 Detection at High Redshift  
**3:30 p.m.**

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

**4 p.m.**  
 All Experimenters' Meeting -  
 Curia II  
 Special Topic: Longevity  
 Studies of the CDF-II Silicon  
 Detectors; Fermilab 3.9 GHz  
 Superconducting RF  
 Cryomodule

**Tuesday, Jan. 27**

**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**

 **Partly cloudy**  
 19°/4°

**Extended Forecast**  
[Weather at Fermilab](#)
**Current Security Status**

Secon Level 3

**Wilson Hall Cafe**
**Feature**
**Expert talks about the  
 decline of honeybees**


A lecture at Fermilab on Jan. 16 covered the declining honeybee population and its effects on agriculture.

During the past few decades, the honeybee population has decreased. And that doesn't just mean less honey on your table. It could mean less meat, cheese, carrots — and the list goes on. Bee pollination is involved in almost everything we eat, said bee expert May Berenbaum at her lecture, "BSI: The Case of the Disappearing Bees," held Friday, Jan. 16, as part of the Fermilab Lecture Series.

An accumulation of pathogens and parasites has been killing off the bee population since the 1990s. That means less pollination. The land conservation that creates ideal settings for pollination to occur is also dwindling as farmers grow more corn for bio-fuel such as ethanol. It's more immediately profitable for farmers to plant corn than to keep the land for bees.

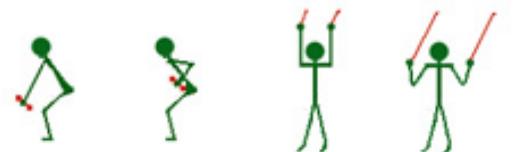
But in the long term, pollination is profitable. That's because pollination, or "plant sex," assists in the production of more than 90 crops. Berenbaum estimates the value of pollination to the U.S. agricultural industry exceeds \$14 billion per year.

As pollination declines, the survival of crops that are increasingly in demand, such as the almond, could be threatened. "With the increase in almond acreage, by 2012 every honeybee in America will have to be in California to pollinate that crop," Berenbaum said.

So should we start a save the bees

**ES&H Tips of the Week - Health**

**Editor's note:** Beginning today, Fermilab Today will broaden its Monday Safety Tip section to include the topics of environment, health and cyber security. We have marked this change by renaming the section ES&H Tips of the Week. We will also highlight the authors by including their bylines at the bottom of each article.

**Preventing shoulder injuries**


The figures above demonstrate exercises to strengthen our shoulders correctly.

In reviewing cases, I've noted that many people get shoulder injuries on and off the job.

One injury pattern, commonly called a bone spur's impact, is easy to lessen or even prevent with a simple exercise.

We all perform lifting tasks which strengthen our muscles that pull the shoulder ball joint upward. Typically very little time is spent strengthening the muscles that pull downward.

We are our own worst enemy in this tug of war for shoulder balance.

As we age, this lack of exercise of the opposing muscle group causes the tendon in the shoulder blade to creep upward and catch on the naturally growing stalactite-like bone spur just above the shoulder blade. This causes pain and often a loss of arm mobility.

Though there are surgical approaches to the problem like shaving off the stalactite or sawing off the end of the collar bone, most people like the non-surgical approach to treating and preventing this condition.

The trick is to get the muscles at the bottom of the shoulder joint to pull harder and maintain a safe gap between the shoulder ball joint and the bone spur. One useful exercise is the "row", lifting the weights forward and back with arms held close to the body.

Another good exercise is the lat pull down, an exercise performed using either a weight

**Monday, Jan. 26**

- \*Potato leek soup
- Monte Cristo
- \*Savory roasted chicken quarters
- Alfredo tortellini
- Chicken ranch wrapper
- Assorted sliced pizza
- Szechuan style pork lo mein

[Wilson Hall Cafe Menu](#)**Chez Leon****Wednesday, Jan. 28****Lunch**

- Sausage, roasted red pepper & three cheese calzone
- Caesar salad
- Hazelnut cake w/bittersweet chocolate sauce

**Thursday, Jan. 29****Dinner**

- Corn chowder
- Halibut w/ spicy red pepper sauce
- Island rice
- Brussels sprouts
- Lemon Napoleon

[Chez Leon Menu](#)

Call x3524 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/)

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[today@fnal.gov](mailto:today@fnal.gov)

campaign? Berenbaum is not worried bees will become extinct. It is specifically the Western honeybee that is in decline. But two dozen subspecies are still buzzing around in Africa.

Still, the Western honeybee's ability to pollinate has to be preserved.

"Unlike sunshine, pollination is not an inexhaustible resource," Berenbaum said. "We have to create economic incentives for pollinator conservation."

-- Kristine Crane

View slides from Berenbaum's lecture [here](#).

**In the News****House appropriators' document provides S&T rationale in stimulus funding bill**

**From AIP FYI, Jan. 23, 2009**

A "Discussion Draft" produced by the House Appropriations Committee provides insight into how millions of dollars of science and technology funding are to be spent by the National Science Foundation, the Department of Energy's Office of Science, the National Institute of Standards and Technology, and the U.S. Geological Survey. The wording in this draft is subject to change before it is released as an official committee report. Note that there is extensive draft language on various DOE's energy programs that is not included in this FYI because of space considerations.

House appropriators completed work on their section of The American Recovery and Reinvestment Act on Wednesday. The \$825 billion bill will be on the House floor next week. The Senate is scheduled to release its version of this legislation next week. Congressional leadership wants to have this bill on President Obama's desk before Congress takes a one-week break on February 16.

Complete selections from the Discussion Draft follow; quotation marks were not used:

TITLE V - ENERGY AND WATER  
DEPARTMENT OF ENERGY  
SCIENCE  
Science  
Recovery funding: \$2.000 billion

The Office of Science at the Department of Energy is the single largest supporter of basic

machine pulling down from an overhead position and towards the chest or using a rubber material tied to a fixed object.

I've seen these exercises reduce pain in people slated for shoulder surgery and allow them to return to lifting activities.

So if you want to prevent some trouble when you reach overhead or lift, you may wish to try these exercises. Light weights or resistance with high repetitions is a good way to begin strengthening without injury when working with these muscles.

If you need more information or a demonstration, stop by the Medical Office.

-- Brian Svazas, M.D.

**Accelerator Update****Jan. 21-23**

- Three stores provided ~50.75 hours of luminosity
- MI suffers from kicker problems
- Pelletron experts fix a software issue

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

**Announcements****Latest Announcements**

[C2ST presents Bioterrorism, Pandemics, & Vaccines Jan. 27](#)

[Second Annual Mentor Round Up](#)

[English Country Dancing, Feb. 1](#)

[Have a safe day!](#)

[Intermediate / Advanced Python Programming - Jan. 27 - 29](#)

[NALWO Brown Bag Lunch Jan. 27 - "Women as Classic: From BC to AD"](#)

[ACU bill pay demonstration Jan. 29](#)

[Recreation Office Meeting Jan. 30](#)

[English Country Dancing, Feb. 1](#)

[Outlook 2007 New Features classes scheduled Feb. 3 and 26](#)

[Conflict Management & Negotiation Skills](#)

research in the physical sciences in the United States, providing more than 40 percent of total funding for this vital area of national importance. It oversees - and is the principal federal funding agency of - the Nation's research programs in high-energy physics, nuclear physics, and fusion energy sciences. Independent scientific research provides the foundation for innovation and future technologies. But U.S. federal funding for research and development has declined steadily over the last decade. This funding will support improvements to DOE laboratories and scientific facilities to provide the foundation for research and development efforts....

[Read more](#)

[class offered Feb.3](#)

[PowerPoint 2007: New Features class offered Feb. 3](#)

[Facilitating Meetings That Work class offered Feb. 4](#)

[Word 2007: New Features class offered Feb. 4](#)

[Excel 2007: New Features class offered Feb. 4](#)

[Interpersonal Communication Skills class being offered Feb. 5](#)

[Bulgarian Dance Workshop, Feb. 12](#)

[Changes to the Family and Medical Leave Act Jan. 16](#)

[Changes in U.S. admission procedure](#)

[Additional Activities](#)

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