

Calendar

[Have a safe day!](#)

Monday, Oct. 18 noon

Special Particle Astrophysics Seminar (NOTE TIME) - One West
 Speaker: Dan Hooper, Fermilab
 Title: The Observational Case For 7-8 GeV Dark Matter: Fermi, CoGeNT and DAMA
2:30 p.m.

[Particle Astrophysics Seminar](#)

- One West
 Speaker: Andrew Tolley, Perimeter Institute
 Title: Galileon Inflation and Non-Gaussianities
3:30 p.m.
 DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over
4 p.m.
 All Experimenters' Meeting - Curia II
 Special Topic: COUPP 30 Liter Chamber Operation in NuMI Tunnel

Tuesday, Oct. 19

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.

[Upcoming conferences](#)

Campaigns

[Take Five](#)

[Tune IT Up](#)

Weather

Feature

Needles and Threads fashions hope for cancer patients



From left: Sheila Cisko and Kathy Johnson demonstrate fleece blanket making at the Fermilab Wellness Fair on Sept. 23.

When Kathy Johnson was diagnosed with cancer in 2009, it was easy for her to become discouraged. But the oncology center where she was treated gave her a scrap of cheer: handcrafted items donated by volunteers. She received a pretty shawl, a tote bag that came in handy for her chemo visits and a variety of hats that kept her coworkers guessing what she'd wear each day.

"It's amazing what those gifts can do for your spirits," she said. "I thought that we at the laboratory could do that for people, too."

Thus, the Needles and Threads volunteer project was born.

For the past year, Johnson has scoured the web for user-friendly patterns and ideas for caps, scarves, bags, blankets and pillowcases that Fermilab volunteers of all skill levels could make and donate to oncology centers. Whether participants prefer to knit or crochet, quilt or sew, Johnson and other experienced crafters will provide the instruction.

"If you can tie a knot, you can contribute," said Fermilab employee Sheila Cisko, a longtime friend of Johnson's who will assist with the project.

After the group's inaugural meeting on Oct. 20, the Needles and Threads volunteers will form smaller groups to plan their own projects and schedule meetings both on and off the Fermilab campus. The organizers hope that the variety of crafts will attract participants from every skill level – and even some men. The program will

ES&H Tips of the Week - Ecology



Fermilab ahead of the curve with pest control



This gray comma butterfly, photographed by Tom Peterson in the Fermilab Big Woods, is an example of an organism that can be inadvertently killed as a result of indiscriminate use of chemical pesticides.

DOE's new sustainability initiative includes a section on implementing a pest control policy. This requirement dovetails well with what Fermilab already does.

Years of integrated pest management at Fermilab have resulted in the elimination or substantial reduction of pesticide use. The laboratory's natural area restoration program is one of the most successful alternatives to massive applications of herbicides, which can be expensive as well as potentially harmful to parts of the environment.

DOE wants all national laboratories to adopt similar pest management plans that represent an ecological and economical approach. The goal is to understand the ecological dimension of a given pest issue and balance that knowledge with economic and aesthetic considerations. The desired result is controlling the pest, rather than eradicating it.

You also can add a green element to your pest control by adapting parts of Fermilab's policy for your own yard or garden. Consider the following things before using pesticides.

- Understand the pest's ecology so you can attack it at its most vulnerable stage or location without unnecessary collateral damage.
- Establish an action threshold. This means you should come to a rational conclusion

 **Scattered sprinkles**
59°/34°

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

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Monday, Oct. 18

- Breakfast: Croissant sandwich
- Italian minestrone soup
- Patty melt
- Smart Cuisine: Baked chicken enchiladas
- Herb pot roast
- Chicken melt
- Assorted sliced pizza
- Szechuan green bean w/ chicken

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, Oct. 20 Lunch

- Rouladen
- Spaetzel
- Dilled Baby Carrots
- Apple Walnut Cake

Thursday, Oct. 21 Dinner

- Crab cakes w/ red pepper mayonnaise
- Medallions of beef
- Potato cups
- Sautéed zucchini
- Grand marnier soufflé

[Chez Leon Menu](#)

Call x3524 to make your reservation.

Archives

also accept yarn and fabric donations.

Johnson hopes to focus on practical items for cancer patients. Chemo caps, for instance, can be made in a variety of styles for patients of different ages. Needles and Threads will donate the items to the organizations Haloes of Hope and ConKerr Cancer, oncology centers such as Southern Virginia Regional Medical Center, Massey Cancer Center of Southern Virginia, and Fermilab's own Neutron Therapy center.

"By making these items for cancer patients, we can let them know people are thinking about them, and maybe relieve some of their suffering," Cisko said.

The first meeting will take place at noon on Oct. 20 in the Abacus Conference Room, WH4E.

-- Sara Reardon

In Brief

Fermilab pairs dinner hosts with guests for TurkeyDate 2010

International Services will play matchmaker again this Thanksgiving between volunteers at Fermilab who are hosting Thanksgiving dinners and anyone at Fermilab who does not already have Thanksgiving plans. The goal of the program is to ensure that everyone at Fermilab has a place to go for Thanksgiving and people with whom to share this unique celebration.

The program is open to anyone at Fermilab, domestic or international, user, employee or contractor.

Hosts and guests interested in joining the program should visit turkeydate.fnal.gov for more information and to complete a short questionnaire about dietary restrictions, transportation arrangements and other topics. There is one questionnaire for potential hosts and one for potential guests. International Services will announce matches as they are made.

Contact Katharine M. Johnson by e-mail (kjohnson@fnal.gov) or at x8640 with questions.

In the News

about how much of the pest can be tolerated. At some point, the cost of control exceeds the damage caused by the pest.

- Consider alternative control strategies. There is a tendency to reach for the Raid can whenever we spot a bug. But many alternatives may be more economical as well as more environmentally sound, including picking beetles off ornamental shrubs, pulling weeds, releasing sterile male insects and genetically engineered resistance in crops.
- Consider a combination of controls. Often using a range of simpler controls such as removing plants or insects is more effective than using a chemical agent. This can reduce the amount of trapping or chemical needed.
- Monitor and evaluate the control program. Situations in the field may require adjustments.

--Rod Walton Fermilab ecologist

Special Announcement

New caregiver resource group at Fermilab

Approximately 29 percent of people in the U.S. are caregivers. They spend an average of 20 hours a week providing unpaid care to an aging parent or disabled sibling, spouse or child, according to a November 2009 study of the National Alliance for Caregiving in Collaboration with AARP. Caregivers often feel overwhelmed balancing multiple roles. Caregivers might also feel angry, guilty or isolated. For this reason, Fermilab's Unity Coat group has paired with the Employee Assistance Program to offer a monthly caregiver resource group. EAP counselor Ginny Stack will facilitate the meetings, which will take place on the third Wednesday of each month from noon – 1 p.m. in the Aquarium conference room, Wilson Hall, 15W. The group's first meeting is Oct. 20. For more information, please contact Kathy Johnson at kjohnson@fnal.gov.

Accelerator Update

[Fermilab Today](#)

[Director's Corner](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[CMS Result of the Month](#)

[User University Profiles](#)

[ILC NewsLine](#)

Info

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Thinking in aeons

From *Nature*, Oct. 13, 2010

John Mather and George Smoot won the Nobel Prize 2006 in Physics for their work on cosmic background radiation. Smoot measured the temperature variation (anisotropy).

How important is an interdisciplinary approach in addressing urgent scientific questions, and how can we foster such collaborations?

This is vitally important and crucial to the progress of modern science. There are a number of ways to do this. The approach that I prefer and am trying is to create a centre addressing interesting science problems requiring interdisciplinary skills and knowledge and with a mandate to address these issues. It is important to have both the incentives - financial and approved research directions (official, peer, and public) — and the proximity including coffee/discussion areas so that personal contacts are made and incidental discussions arise that often lead to other avenues of investigations and ideas.

[Read more](#)

In the News

Large Hadron Collider starts edging out rivals

From *Wired*, Oct. 15, 2010

The Large Hadron Collider has made its first steps beyond the standard model of particle physics. With just four months of data gathered, the monster collider has already edged past the Tevatron, its particle-smashing rival.

“The surprising thing for me is how quickly the experiments started to top the Tevatron data,” commented theoretical particle physicist Ulrich Baur of the State University of New York at Buffalo, who is not on the LHC team but whose theoretical predictions laid the groundwork for new research done there. “You really see the power of the Large Hadron Collider coming in here.”

The contest concerns an exotic hypothetical particle called an excited quark. In the standard model — the theoretical picture of what physicists think matter is made of — atomic nuclei are broken down into protons and neutrons, which are broken down further into fundamental particles called quarks and gluons. Electrons, which orbit atomic nuclei and give atoms their distinctive characters, are also

Oct. 13-15

- Three stores provided ~33.5 hours of luminosity
- Linac RF repaired
- Store 8171 aborted

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

Latest Announcements

[GD&T Introduction and Fundamental Principles class - Oct. 28 & 29](#)

[PowerPoint 2007: New Features class offered Oct. 28th](#)

[Outlook 2007: New Features class offered Oct 28th](#)

[Introduction to COMSOL Multiphysics 4.1 and Its Electromagnetic Waves Simulation Capabilities tutorial offered Oct. 26th](#)

[Accepting nominations for Director's Award](#)

[Toastmasters - Oct. 21](#)

[Argentine Tango through Nov. 3](#)

[Accelerate to a Healthy Lifestyle Program](#)

[Fright Fest discount tickets at Six Flags](#)

[Chicago Blackhawks discount tickets](#)

[Regal Movie Theater discount tickets available](#)

[Fermilab Lecture Series Presents The Long Thaw: How Humans are Changing the Next 100,000 Years of the Earth's Climate Oct. 22](#)

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Classifieds

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considered fundamental particles.

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