

Calendar

[Have a safe day!](#)

Monday, Dec. 21
 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 Topics: Crystal
 Collimator Studies in the
 Tevatron (T-980); CMS/LHC
 Report

Tuesday, Dec. 22
 3:30 p.m.
 DIRECTOR'S COFFEE
 BREAK - 2nd floor crossover
 THERE WILL BE NO
 ACCELERATOR PHYSICS
 AND TECHNOLOGY
 SEMINAR THIS WEEK

[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](#).

Weather

Special Announcement

Fermilab Today on vacation Dec. 23, returns Jan. 4

The final issue of *Fermilab Today* for 2009 will appear on Tuesday, Dec. 22. *Fermilab Today* will begin publishing again on Monday, Jan. 4. Happy holidays!

Feature

Fermilab scientists, staff selected as APS fellows

Earlier this month, four Fermilab scientists were named fellows of the American Physical Society, a distinction awarded each year to no more than one-half of 1 percent of current APS members by their peers.

Gaston Gutierrez, Patty McBride and Rob Plunkett were named 2009 fellows to the Division of Particles and Fields. Craig Hogan was named a fellow to the Division of Astrophysics.



Gaston Gutierrez

Gutierrez, a scientist on the DZero experiment, was selected as a fellow for "leading the introduction of 'matrix-element' techniques for extracting precise measurements of standard-model parameters at hadron colliders and for seminal and vital contributions to the construction of the unique scintillating fiber tracker for the DZero experiment."

ES&H Tips of the Week - Environment



Coyotes key to keeping goose population in check



[A male coyote at Eola and Batavia Roads on Dec. 28, 2006.](#)

Coyotes and geese are among the most visible wildlife species on our site, and they have the potential to interact with humans in a regular and significant way that can have implications far beyond Fermilab.

The control of goose populations has become a growing issue in suburbs as a proliferation of detention and retention ponds has attracted larger, often year-round flocks.

A study on the relationship between coyote predation of geese and goose population control in urban areas was done in part at Fermilab by Justin Brown, of Max MacGraw Wildlife Foundation in Dundee, as his master's thesis at The Ohio State University. This look at the dynamics of urban populations of [Canada geese](#) and coyotes was conducted at Fermilab in 2004 and 2005 through the [NERP](#) program.

As recently as 1978, Fermilab imported Canada geese to the site. On the other hand, during the mid-1990s, coyote populations were depleted, owing primarily to an epidemic of sarcoptic mange.

Current estimates of Canada geese numbers are in the thousands, and coyotes now number between 15 and 20. Brown discovered that the primary means by which coyotes prey on geese is through hunting out their nests, which results in roughly 75 percent of all Canada goose egg mortality. There is also a strong suggestion that during the nesting

 Snow tonight
30°/24°

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

[Current Security Status](#)

[Secou Level 3](#)

[Wilson Hall Cafe](#)

Monday, Dec. 21
- Breakfast: Croissant sandwich
- Chef choice
- Grill menu
- Chef choice
- Deli menu
- Assorted sliced pizza
- Closed

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Wednesday, Dec. 23
Lunch
- Closed

Thursday, Dec. 24
Dinner
- Closed

[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](#)



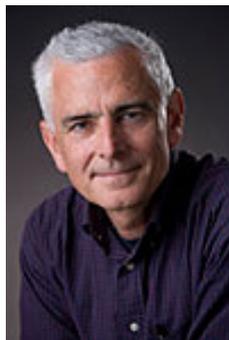
Patty McBride

McBride, currently deputy head of the Computing Division, was selected as a fellow for "original contributions to flavor physics at LEP and the Tevatron and to the development of major new initiatives in B-physics and collider physics."



Rob Plunkett

Plunkett, current co-spokesperson for Fermilab's MINOS experiment, was selected as a fellow for "distinguished contributions throughout the NuMI/MINOS Construction Project and subsequent leadership as co-spokesperson of the MINOS Experiment."



Craig Hogan

Hogan, head of the Center for Particle Astrophysics, was selected for his "innovative research in diverse areas of astrophysics, including the constituents of the universe, dark energy, gravitational waves, cosmological phase transitions, and cosmic background radiation."

Congratulations to all 2009 APS Fellows.

season, coyotes may shift their territories somewhat to take advantage of goose nests.

Brown examined the question of whether this behavior has any real effect on the growth of the goose population. His model of goose population dynamics shows that the current net birth rate for geese is 1.055. However, if coyote predator behavior is statistically removed from the model, the birth rate jumps to 1.255. To put these numbers in perspective, the first population size would double in 13 years, but the second (without coyote intervention) would double in just 3.6 years.

The important lesson here is that species interact in ways that profoundly affect each other. Even though some people might not especially admire coyotes, or may actually fear them, they play an important and vital role in the overall functioning of the community.

-- Rod Walton, Fermilab ecologist

[Safety Tip of the Week Archive](#)

[Photo of the Day](#)

Winter wildlife



AD's Greg Vogel submitted this photo of a group of deer loitering next to the AP-50 service building. The deer didn't seem mind the people who stopped to gawk, Vogel said.

[Special Announcement](#)

Fermilab Today

is online at:

www.fnal.gov/today/

Send comments and suggestions to:

today@fnal.gov

Visit the Fermilab

[home page](#)

Bardeen, McBride elected AAAS Fellows

The American Association for the Advancement of Science has elected Fermilab employees Marge Bardeen and Patty McBride as AAAS fellows.

Bardeen and McBride were among 531 AAAS members nominated this year as fellows by their peers in recognition of distinguished contributions to their fields of study.



Marge Bardeen

Bardeen was selected to the AAAS Section on Education for "sustained, imaginative, and diverse contributions to the educational experience of K-12 teachers and students, including active engagement of teachers and students in research."



Patty McBride

McBride was elected to the AAAS Section on Physics for her "important contributions to particle physics experiments and for her leadership in the international scientific community."

Recognition of these new fellows will take place at the Fellows Forum on Feb. 20 during the AAAS meeting in San Diego.

Video of the Day

Employee Advisory Group nominations due today

[Nominations](#) for an employee advisory group forming at Fermilab are due today. The advisory group will provide Fermilab senior management with employee perspectives, concerns, insights and suggestions with regard to the development and implementation of new and revised policies that affect the Fermilab workplace. It is Fermilab's goal to establish and maintain a safe and productive workplace environment where employees can pursue the highest-quality work while maintaining a healthy work/life balance. Consider [nominating](#) yourself or a coworker for this important role.

[Learn more](#) about the Employee Advisory Group.

Accelerator Update

Dec. 16-18

- Three stores provided ~45 hours of luminosity
- PBar kicker problem
- MI RF problems

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

Latest Announcements

[Martial Arts classes begin Jan. 4](#)

[Barn dance Dec. 20](#)

[Atrium events - book through Office of Communication](#)

[Lederman Science Center holiday hours](#)

[International folk dancing meets Jan. 7](#)

[Scottish country dancing will meet every Tuesday through December](#)

[TTIAA-CREF Financial Education Seminar today](#)

[Fermilab December payroll Information](#)

[Sign up for spring Science](#)

Video of CDMS results talk is now available online



Watch the [video](#) of Lauren Hsu, CDMS researcher at Fermilab, reveal the experiment's results at a talk Thursday, Dec. 17.

In the News

At a mine's bottom, hints of dark matter

From *New York Times*, Dec. 18, 2009

An international team of physicists working in the bottom of an old iron mine in Minnesota said Thursday that they might have registered the first faint hints of a ghostly sea of subatomic particles known as dark matter long thought to permeate the cosmos.

The particles showed as two tiny pulses of heat deposited over the course of two years in chunks of germanium and silicon that had been cooled to a temperature near absolute zero. But, the scientists said, there was more than a 20 percent chance that the pulses were caused by fluctuations in the background radioactivity of their cavern, so the results were tantalizing, but not definitive.

Gordon Kane, a physicist from the University of Michigan, called the results "inconclusive, sadly," adding, "It seems likely it is dark matter detection, but no proof."

[Read more](#)

[Adventures classes](#)

[English Country Dancing - Jan. 3](#)

[Process Piping Materials, Fabrication, Examination & Testing \(ASME B31.3\) class offered in Feb. 3-4](#)

[East gate to begin closing 1-5 a.m. beginning Jan. 5](#)

[Fermilab Management Practices seminar beginning Feb. 11](#)

[Python Programming class offered Feb. 24-16](#)

[Give the gift of movies](#)

[Chicago Blackhawks discount tickets](#)

[FMLA and FTL Policy Updates](#)

[Prescription eyewear technician - location change](#)

[Additional Activities](#)

[Submit an announcement](#)