

## Calendar

Monday, Jan. 12  
2:30 p.m.  
[Particle Astrophysics Seminar](#)  
- Curia II  
Speaker: Roban Kramer, Columbia University  
Title: Quasar Lyman-alpha Emission Lines as Probes of Reionization  
3:30 p.m.  
DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over  
4 p.m.  
All Experimenters' Meeting - Curia II

Tuesday, Jan. 13  
3:30 p.m.  
DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over  
4 p.m.  
Accelerator Physics and Technology Seminar - Curia II (NOTE LOCATION)  
Speaker: Slava Danilov, Oak Ridge National Laboratory  
Title: High Intensity Ring Physics and Technology at SNS

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

## Weather

 Snow  
27°/4°

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

## Current Security Status

[Secou Level 3](#)

## Wilson Hall Cafe

## Feature

### Lost Boys visit shows need for understanding of diversity



Lost Boys from Sudan present in One West on Dec. 17.

Peter Bol escaped violence in Sudan and a refugee camp in Kenya to make his way to America.

Yet he, like many other "[Lost Boys](#)", returned to the still volatile African country of his birth.

"A lot go back like me to start schools," he told Fermilab staff during a lunchtime colloquium. "If you educate the villagers that they live in a diverse country, – Muslims, Arabs, Africans – the government will not be able to use that against them to divide them."

Learning the prevalence of diversity, that it is not something to fear and that even the most diverse groups share much in common, builds a platform for future cooperation. It is the first step for the Sudanese to learn to govern themselves, and their vast oil resources, in the best interest of the entire country, he added.

Likewise, that same knowledge also is the first step to creating a more comfortable, accepting, and likely productive, workforce.

The Fermilab Planning Group for Multicultural Events organized the December visit by a group of Lost Boys as part of Universal Human Rights Month.

Director Pier Oddone created the planning group in July 2007 as one of several subcommittees of the [Diversity Council](#) tailored to increase awareness of diversity at the laboratory and in the surrounding communities.

The lecture drew young and old listeners of

## Safety Tip of the Week

### Stay alert and prepare for winter driving



Bartlett Police officer Chris Pearson gave a seminar on winter driving at Fermilab last week.

Winter weather adds new driving challenges and increases accidents, even among motorists who have answered the laboratory's call to improve traffic safety.

Fermilab employees and users decreased overall traffic accidents by 20 percent between 2007 and 2008, but saw snow-related accidents rise 15 percent during that same time.

So Fermilab's Traffic Safety Subcommittee members thought it wise to have a Brown Bag Seminar on winter driving skills last week.

Chris Pearson, a Bartlett Police Department officer who operates [Green Light Driving School](#), told listeners that most winter weather accidents result from driving too fast for conditions or following too closely.

Rick Reinert, with Fermilab's Traffic Safety Subcommittee, added that there are three locations on site where vehicles tend to slide off the road: Pine Street between A Road and the Science Center, the B Road curve approaching the Receiving Road and the Swenson Road curve near the pond at DZero. But making any turn on slick pavement can cause sliding unless you reduce speed, keep the wheel steady and allow for long braking distances. If you begin to slide, gently let off the accelerator and turn in the direction you want to go, Pearson said.

Preparation can help relieve many of the challenges of winter driving. Pearson offered the following suggestions to winterize your vehicle.

- Replace worn windshield wipers and top off window cleaning fluid.
- Inflate tires to their recommended pressure to maximize contact area with the ground.
- Clean snow and ice off all lights and windows.
- Keep in mind that four-wheel drive vehicles

Monday, Jan. 12

- Minestrone
- Patty melt
- Baked chicken enchiladas
- Smart cuisine: Herbed pot roast
- Chicken melt
- Assorted sliced pizza
- Szechwan green bean w/ chicken

[Wilson Hall Cafe Menu](#)

**Chez Leon**

Wednesday, Jan. 14

- Lunch
- Stuffed cabbages
  - Mashed potatoes
  - Apple strudel

Thursday, Jan. 15

- Dinner
- Chipotle shrimp w/ corn cakes
  - Stuffed flank steak
  - Lemon risotto
  - Chocolate mousse pie

[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](#)**

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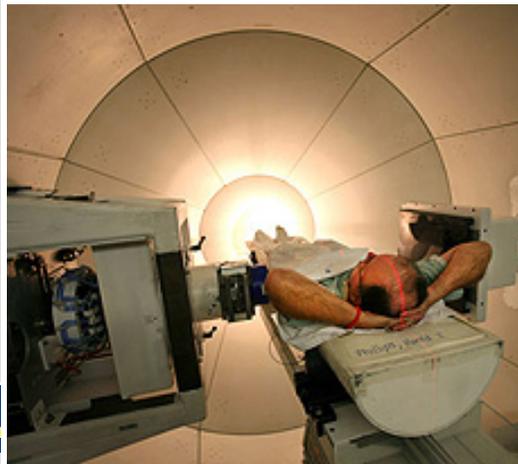
several ethnicities and nationalities. The crowd of several dozen employees and users had many questions for the men about their lives in Sudan and their [work in Naperville](#). The Sudanese Community Center there helps refugees learn life skills, celebrate the best of their culture and change divisive traditions such as a lack of education for women.

"That's the way we begin empowering ourselves here," Bol said. "Then we transfer that empowerment back home."

-- Tona Kunz

From *symmetry*

## The power of proton therapy



*When it comes to getting rid of cancer, the sharpest scalpel may be a proton beam. Technology conceived and hatched in highenergy physics is now treating thousands of patients per year, with fewer side effects. And research under way promises a new generation of smaller, cheaper, more effective proton therapy systems.*

Forty years ago, doctors broke the news to the family of a small boy: Their five-year-old had cancer. Fortunately it was a type of cancer, called lymphocyte predominant Hodgkin's disease, that responded well to radiation treatment.

The doctors repeatedly beamed X-rays at the areas where cancer had infiltrated the boy's lymph nodes—under his arms, on his neck, and in the middle of his chest—and the cancer went away.

The boy was cured, but his health would never be the same.

When he had a growth spurt at puberty, the irradiated parts of his body didn't grow as

offer no traction advantages on ice and that roads can ice over at 40 degrees.

In the News

## Who Ordered the Dark Matter and Dark Energy?

From *Examiner.com*, Jan. 4, 2009

Fraser Cain and Pamela Gay are the hosts of Astronomy Cast, a weekly astronomy podcast that follows a facts-based journey through the Universe. One of the common complaints they get from listeners is that they just don't like "dark" stuff. You know, dark matter and dark energy. Why do astronomers have to go and invent something called dark matter or dark energy? In this episode, Fraser and Pamela provide a useful analogy that will help astronomy enthusiasts understand what dark matter and dark energy ...

[Listen to podcast](#)

Accelerator Update

Jan. 7-9

- Three stores provided 34.25 hours of luminosity
- Failed amplifier causes Booster RF sparking
- Cryo system experts conduct TeV wet engine maintenance
- Pbar stacking rate drops due to bad PLC

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

[Have a safe day!](#)

[Science Chicago hosts Mythbusters](#)

[Register now for Fermilab Open House Jan. 17](#)

[Fermilab Barnstormers meeting Jan. 14](#)

[Argentine Tango Classes begin Jan. 14](#)

[Outlook 2007 New Features classes scheduled Jan. 15 and Feb. 3](#)

[Barn Dance Jan. 18](#)

[Intermediate / Advanced Python](#)

much or as fast as the rest. His neck was unnaturally skinny, his shoulders too narrow. Strange depressions appeared on his chest, like divots carved in a golf course green, where stem cells had been wiped out and muscles and other tissues failed to grow, says one of his physicians, Dr. Nancy Price Mendenhall, medical director of the University of Florida Proton Therapy Institute.

[Read more](#)

--*Glenda Chui*

[Programming - Jan. 27 - 29](#)

[Additional Activities](#)

[Submit an announcement](#)