

Calendar

Wed., January 3

3:30 p.m. Director's Coffee Break - 2nd Floor Crossover

THERE WILL BE NO FERMILAB ILC R&D MEETING THIS WEEK

THERE WILL BE NO COLLOQUIUM THIS WEEK

Thurs., January 4

1:00 p.m. ALCPG ILC Physics and Detector Seminar - West Wing (WH-10NW)

Speaker: D. Wright, Stanford Linear Accelerator Center

Title: Hadronic Shower Simulations in Geant4

3:30 p.m. Director's Coffee Break - 2nd Floor Crossover

4:00 p.m. Accelerator Physics and Technology Seminar - 1 West

Speaker: L. Cooley, Brookhaven National Laboratory

Title: Essential Features of LARP Strands and Prospects for Still Better High-Field Superconductors

THERE WILL BE NO THEORETICAL PHYSICS SEMINAR THIS WEEK

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

Weather



Mostly Sunny 49°/31°

[Extended Forecast](#)

[Weather at Fermilab](#)

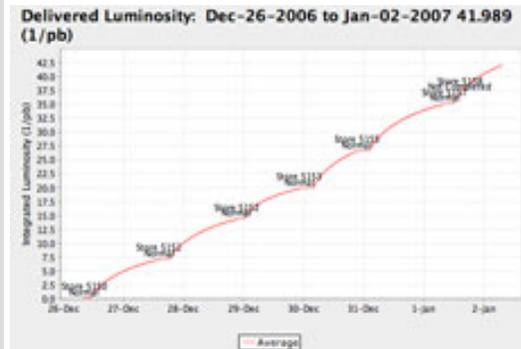
Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Feature Story

When things go right



"We're really happy when the machine behaves itself and lets us do some good things," said run coordinator Brian Drendel. A number of records have been broken recently, including weekly integrated luminosity, shown above.*

While most of us dreamed of sugarplums over the holidays, the Tevatron was busy pounding protons into antiprotons with a special kind of ferocity. From midnight, December 1, to midnight, January 1, the collider produced 136 inverse picobarns of luminosity. That's a new record.

"The previous monthly record was 109, so this was a good period of running," said Brian Drendel, Accelerator Division run coordinator. "We're really happy when the machine behaves itself and lets us do some good things."

Even more good things: A new weekly integrated luminosity record of 39.6 inverse picobarns was set last week, and a new record for average initial luminosity, at $248.2 \times 10^{30} \text{ cm}^{-2} \text{ s}^{-1}$, was set at 3:20 a.m. on December 30.

Drendel says the success is in part due to three "really good back to back to back" stores. Also, the machine did not have any downtime. "It's a big help when the injector chain is nice and stable and the machine cooperates," said Drendel. "When you write a plan and the accelerator agrees enough to follow it, then good things happen."

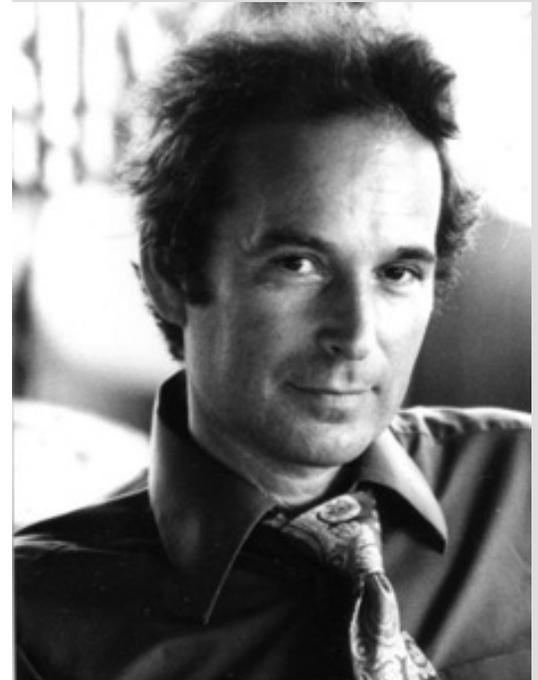
[Read more](#) about the factors that lead to high luminosity.

--Siri Steiner

*The graph shows luminosity measured from

In Memoriam

Geoff Manning



Geoff Manning, Director of the Rutherford Laboratory and then the Rutherford Appleton Laboratory between 1979 and 1986, died on December 21, 2006. He was 77. (Picture taken in 1976.)

Fermilab was saddened to hear about the death of our friend and colleague, Geoff Manning. We join the high energy physics community in mourning the loss of a talented scientist whose contributions as a research physicist, initiator of new experimental research facilities, administrator and laboratory director, and entrepreneur have touched and involved many of us in positive and tangible ways.

Several of us at Fermilab worked either directly with him, or used facilities for which he was responsible in experiments at CERN, in the UK and especially at the Rutherford-Appleton Laboratory, and here at Fermilab where Geoff spent a sabbatical year 1994-95. We remember Geoff as a man who was deliberate in choosing research directions for himself and his colleagues. He thoroughly enjoyed the plural stages of experimental physics and he ably led the scientists and engineers who were his partners in reaching for new insights in particle physics, micro-electronics, computing, accelerator science

Wednesday, January 3

-Vegetable Beef
 -Fish and Chips
 -Almond Crusted Sole
 -Country Fried Steak with Pepper Gravy
 -Beef and Cheddar Panini w/ Sauteed Onions
 -Assorted Slice Pizza
 -Cavatappi Pasta with Italian Sausage & Tomato Ragù

[Wilson Hall Cafe Menu](#)

Chez Leon**Wednesday, January 3****Lunch**

Cheese Fondue
 Salad of Mixed Field Greens
 Grilled Pineapple w/Rum

Thursday, January 4**Dinner**

Vol-au-Vents with Mushroom Duxelle
 Crabcakes with Spicy Pimento Sauce
 Wilted Spinach with Lemon Orzo Pilaf
 Apple Walnut Turnovers

[Chez Leon Menu](#)

Call x4598 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/

Send comments and suggestions to: today@fnal.gov

Tuesday to Tuesday, 7:00 a.m. to 7:00 a.m. For the books, official weekly luminosity is recorded Monday to Monday, 12:00 a.m. to 12:00 a.m. This makes the weekly luminosity record slightly different from what the graphic shows.

Photo of the Day

Coyote in broad daylight: AD's Greg Vogel sent these pictures on December 28. "Here are a couple of shots I took of a coyote who wandered over the 8-GeV line and then stopped near the north end of the AP-30 service building shortly before 9:00 a.m. this morning," he wrote. "The things people miss when they take off over the holidays!"

**In the News****From *IEEE Spectrum*, January, 2007:****Thread-Bare Theories: String-theory critic calls for balance in physics research**

Physics has a special place among the sciences. The revolution in physics during the early part of the 20th century defined subsequent decades by spawning both the transistor and the atomic bomb. And physics has always been viewed as the hardest of all sciences, a domain of mathematically rigorous theories coupled with unambiguous experiments. But now, physicist Lee Smolin argues in his new book, physics is in danger of

and astrophysics. Geoff encouraged all of us to take a broad view of science in much the same way as he did. He was fun to work with; he accreted colleagues by choosing interesting problems and then organizing us in ways that used our talents and allowed us to contribute in reaching important scientific results.

Experiments on which several of us collaborated or worked in parallel with Geoff include nucleon-nucleon and deuteron-deuteron scattering, K-meson decays, and the search for new particle states especially at the ISR and Fermilab. Some of us worked with Geoff in studies of proposed new facilities and in organizing and summarizing workshops and conferences on selected HEP topics. We were especially pleased to have Geoff as our Fermilab colleague the year that CDF and DZero observed the top quark. In addition to Geoff's analysis interests in W/Z plus jets production, Geoff collected and edited DZero write-ups on physics analysis topics and combined them as an off-line analysis manual for the benefit of the DZero experimenters.

We have been greatly enriched by having Geoff as a colleague. He will be fondly remembered by all of us.

From all of Geoff's Fermilab associates and friends including: Mike Albrow, Gene Fisk, Paul Grannis, Carlos Hojvat, Leon Lederman, Hugh Montgomery, Pier Oddone, John Peoples, Rajendran Raja, Roy Rubinstein and Alvin Tollestrup.

Announcements**Laboratory Services has a new name**

Laboratory Services has a new name beginning January 1, 2007. The new name, Workforce Development and Resources Section, reflects more accurately the work the group performs. The section not only provides services to employees and users, but also offers programs to develop our future workforce.

Professional Development

New classes are always being added to the professional development schedule. For the most up-to-date course offerings, go to [the web page](#).

International Folk Dancing

International Folk Dancing will meet Thursday, January 4, at Kuhn Barn on the Fermilab site. Dancing begins at 7:30 p.m. with teaching and children's dances earlier in the evening and

losing its way.

[Read More](#)

request dancing later on. Newcomers are welcome and you do not need to come with a partner. Info at 630-584-0825 or 630-840-8194 or folkdance@fnal.gov.

[Upcoming Activities](#)