

Calendar

Friday, June 17

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. Joint Experimental Theoretical Physics Seminar - 1 West

Speaker: C.-J. Lin, Fermilab

Title: Search for $B_s \rightarrow \mu^+ \mu^-$ and $B_d \rightarrow \mu^+ \mu^-$ Decays at CDF

Monday, June 20

3:30 p.m. Director's Coffee Break - 2nd floor X-Over

4:00 p.m. All Experimenters' Meeting - Curia II

Special Topic: Progress and Plans for Rapid Transfers

PARTICLE ASTROPHYSICS SEMINARS WILL RESUME IN THE FALL

Weather



Mostly Sunny **77°/50°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

DOE Awards Physicists for Liquid Nitrogen Recovery

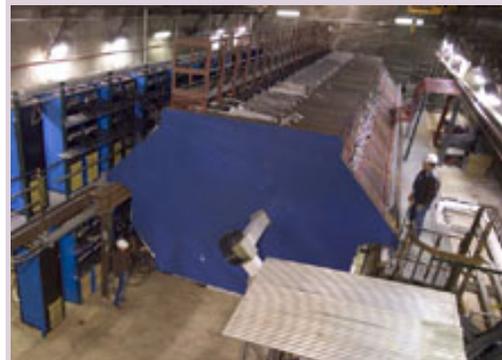


At the award ceremony (from left to right): Dan Markley, Russ Rucinski, Terry Tope, Bob Barger, Mike Sarychev, Bill Cyko, Jack Mateski, Pat Poll, DOE Site Manager Joanna Livengood, Eric McHugh and Rich Schmitt. Not pictured: Bob Kubinski and Charles McNeal. (Click on image for larger version.)

On June 13, twelve members of the Particle Physics Department received Department of Energy certificates of appreciation for their work on the Liquid Nitrogen Recovery System. Fermilab's site manager for the Office of Science, Joanna Livengood, presented the awards to the team and expressed her congratulations, thanking them for having "increased the efficiency of the recovery system, reduced the heat load of other systems, and reduced the loss of liquid nitrogen." The efforts prevent the evaporation of more than 200,000 gallons of liquid nitrogen per year and save the lab over \$43,000 annually.

Nitrogen gas accounts for 78 percent of the air we breathe. In liquid form, at a temperature below minus 320 degrees Fahrenheit, nitrogen is used to cool equipment. The release of nitrogen back into air presents no harm.

PPD Has New Departments, Appointments



The MINOS experiment is one of four neutrino experiments that are part of the new PPD Neutrino Department. (Click on image for larger version.)

After six months of planning, the Particle Physics Division has reorganized with two new departments and three new appointments. The new set-up establishes a Neutrino Department, and merges the separate CDF, CDF Operations and CDF Run IIb Upgrade Project Departments into a unified CDF Department.

The new Neutrino Department, headed by Gina Rameika, will allow for greater coordination and cross-fertilization among the collaborations. "There is a strong overlap among the MINOS, MINERvA, MiniBooNE, and NOvA neutrino experiments," said Jim Strait, head of PPD. "We want to make it a clear reality that Fermilab has a strong neutrino program and not just a set of experiments."

Mike Lindgren will head the new CDF Department. Along with CDF co-spokesperson Rob Roser (who began his new position June 1), he will have the task of guiding CDF. "Both of them will

Friday, June 17

New England Clam Chowder Soup
Western BBQ Burger \$4.85
Turkey Tetrazzini \$3.75
Meatballs Teriyaki Over Rice \$3.75
Bistro Chicken & Provolone Panini \$4.85
Assorted Personal Size Pizzas \$3.50
Carved Top Round of Beef \$4.85

The Wilson Hall Cafe now accepts Visa, Master Card, Discover and American Express at Cash Register #1.

[Wilson Hall Cafe Menu](#)

[Chez Leon](#) is now open. Call x4512 to make your reservation.

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Recovering liquid nitrogen saves energy, reducing the need for nitrogen liquefaction in industrial plants and for transportation by truck. The DOE Pollution Prevention Program recognized this environmental aspect of the Fermilab project in its award citation. On behalf of DOE Office of Science Director Ray Orbach, Livengood read the text of the certificates to the award winners: "In recognition of your efforts and outstanding contribution and commitment to Pollution Prevention and Environmental Stewardship through the implementation of the Liquid Nitrogen Recovery System."

Fermilab Associate Director Jed Brown thanked all award winners, and he highlighted an important aspect of the project. "What we really appreciate is all the money you're saving," he said.

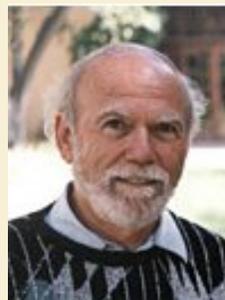
A second DOE Pollution Prevention award went to five employees of the Accelerator Division for the Emergency Light Battery Removal and Relocation Program ([see Fermilab Today, June 13, 2005](#)). Altogether, the DOE Pollution Prevention Program honored employees at six Office of Science labs across the country.

-Amelia Greene

ILC This Week

Status Report by GDE Director Barry Barish

Last week in my first Director's Corner I primarily discussed this interim webpage and our plans to use it as a regular way of informing the community about



Barry Barish

give strong leadership in the coming years to realize the promise of CDF," Strait said.

Associate Division Head Mike Crisler has been given the portfolio of Associate Division Head for Engineering and Support, and Joel Butler has been appointed Associate Division Head for Experiments. "Mike Crisler was an obvious choice to lead the engineering part of PPD because he already has a great deal of experience," Strait said. "He has run two of the three major PPD engineering departments already." Strait also cited Butler, the former BTeV co-spokesperson and a US CMS collaborator. "Joel is a man with a big picture of the entire particle physics field," said Strait, who described the organizational changes as a strong step forward for the PPD division and the laboratory.

--Eric Bland

Announcements

Einstein books

In celebration of 2005 as the World Year of Physics, the Fermilab library has created a display of Einstein related books available for check out, from collections of published papers to biographies.

Housing assignments 2005/06

July 1 is the deadline for requests for onsite housing (houses, apartments, and dormitory rooms) for the Fall/Spring of 2005-2006. Requests can be made for any period and need not commence on any particular date. To make reservations, please contact the Housing Office at 630-840-3777 or

housing@fnal.gov, or use the [Online](#)

what is going on with the GDE. I also discussed the importance of the Snowmass workshop in August, where we will take the first decisions on the configuration that we will use as the baseline for a conceptual design for the ILC. I will say more on Snowmass in later columns, but first I would like to put into context where we are and what we will be doing at that workshop. To do that, I will spend the next few Director's Corners giving my personal perspectives on where we are, how we got here and where we will go next.

[Read more](#)

[Linear Collider News Archive](#)

In the News

From *Discover Magazine*, July 2005

Catch Me if You Can

By Karen Wright

The most powerful particle accelerator in the world is the Tevatron, a ring-shaped, stainless-steel corridor four miles long that can smash together atomic fragments moving at more than 99.99 percent the speed of light. This grand device is the centerpiece of Fermi National Accelerator Laboratory, 45 miles west of Chicago, where scientists work around the clock to track the collisions. All of that requires a leap of faith: The Tevatron is mostly invisible, buried a couple dozen feet beneath windswept prairie.

I drove to Fermilab on a blustery winter day to learn about a subatomic phantom called the Higgs boson. The Higgs also requires a leap of faith, because so far it is entirely hypothetical. Some physicists are counting on it to help solve the most

[Housing Request form](#). Requests for multiple housing units are best handled by email.

HEP jobs

Looking for a job, or wanting to advertise one? The [SPIRES HEPJobs](#) database, run by the Fermilab Library, has over 300 postings, and receives almost 1,000 hits per day.

Sightseeing boat tour

NALWO invites you to see Chicago's fascinating architecture and historic landmarks from the Chicago River and Lake Michigan on Thursday, June 23. A bus departs from the Lederman Science Center at 9:30 a.m. and returns by 4:00 p.m. Tour is \$12 for adults, \$5 for kids age 11 - 3, and free for under 3. Contact Selitha Raja, 630-305-7769, SelithaR@hotmail.com, or Rose Moore, 630-208-9309, rosecraigmoore@comcast.net

New SciTech Exhibit

The SciTech Museum in Aurora presents the "Masters of the Night: The True Story of the Bats." Admission is \$7 and includes the [Outdoor Science Park](#). The museum offers a [\\$1-off coupon](#).

New Classifieds on Fermilab Today

New [classified ads](#) have been posted on Fermilab Today.

[Upcoming Activities](#)

intractable riddles in their profession. It might, for instance, explain the preponderance of matter over antimatter in the cosmos. Or it might yield a formula that would unite gravity with the three other fundamental forces into a long-sought theory of everything. Above all, the Higgs could be the emissary of a ubiquitous force field that confers mass on matter. It could answer a huge question: Why does matter weigh something instead of nothing?

[Read more \(subscribers only\)](#)