

Calendar

Wednesday, Jan. 28
3:30 p.m.
 DIRECTOR'S COFFEE
 BREAK - 2nd Flr X-Over
4:00 p.m.
[Fermilab Colloquium](#) - One West
 Speaker: Nina Hinrichs, University of Chicago
 Title: Modeling Molecular Dynamics from Simulations

Thursday, Jan. 29
 THERE WILL BE NO PHYSICS AND DETECTOR SEMINAR THIS WEEK
2:00 p.m.
[Computing Techniques Seminar](#) - FCC1
 Speaker: Kate Keahey, University of Chicago / Argonne National Laboratory
 Title: Cloud Computing with Nimbus
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.

Weather



Flurries
16°/10°

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

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Feature

Kerry Ewald retires after 33 years



Kerry Ewald

Kerry Ewald will bid good-bye today to Fermilab's design and drafting group in the Technical Division, but he's not leaving the world of particle physics.

After 33 years of working on components for Fermilab's Tevatron and R&D for the next-generation linear collider cavities, he'll take his skills to the world's most intense pulsed accelerator-based neutron source, the Spallation Neutron Source at Oak Ridge National Laboratory in Tennessee.

Ewald says that he will miss Fermilab's worldly environment as well as many of the people he has worked with here. "I've met a lot of people from a lot of places in the world," he said. "You get to learn much from people in this type of environment."

The 56-year-old designer started working at Fermilab in 1976 as a machine shop assistant, moving up the ranks as he learned more engineering skills.

He has worked on several projects, including magnet design for the LHC and ILC, but his favorite project was the end-plug upgrade for CDF. "We worked out of lab 5 in the village, designing, building, and testing the east and west end plugs. It was a time for me when I did everything from design to fabrication to installation. It was a team of people who worked together."

Ewald looks forward to the challenges of a new job.

"Plus I love the country there. I bought a log cabin on 37 acres in the mountains. I'll get to drive Harley and drive my Miata through the mountains," he said. "I'll finally have my own land to hunt deer on."

Wish Ewald well at his retirement party today from 1:30 p.m. to 3:30 p.m. in trailer 157.

From the Accelerator Division

Roger Dixon, head of the Accelerator Division, wrote this week's column.

Running up the score

In recent weeks, the Tevatron has continued to set records as its performance improved to levels well beyond the projections that were made in 2007 for the remainder of our collider run. Many people wonder why this has occurred. Were we too conservative with our projections, or did something unexpected and favorable happen? In my opinion, neither explanation tells the entire story.



Roger Dixon

When Vaia Papadimitriou first worked on luminosity projections for the Tevatron about two years ago, she and I had a discussion about the assumptions she should make. Unpredictable events are more often detrimental than beneficial, so we included some realistic projections based on the reliability history of the Fermilab accelerator complex. We also decided that we would include realistic projections that were based on predicted improvements that were part of our work plan. The luminosity increases for these items could be reasonably estimated or calculated.

We made our decision with the knowledge that the Accelerator Division has no shortage of innovative people who get an adrenalin rush from making unexpected improvements that could make our projections look silly.

Consequently, the overall performance of our accelerator complex for the past two years has been predictable even though the numbers didn't come out quite right. The planned improvements produced enhancements to the luminosity that were reasonably close to the predictions. Additional enhancements were born on the fly and were due to the innovations that always occur when creative people are working on a problem. No one thought to stop suggesting improvements because we had met the paper goals. Instead, the frenzy to deliver more luminosity increased. At the same time, safety was a top

Wednesday, Jan. 28

- Portabello harvest grain
- Smart cuisine: Santa Fe chicken quesadilla
- Hoisin chicken
- Smart cuisine: parmesan fish
- Cuban Panini
- Assorted sliced pizza
- Pesto shrimp linguini w/leeks & tomatoes

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, Jan. 28

Lunch

- Sausage, roasted red pepper & 3 cheese calzone
- Caesar salad
- Hazelnut cake w/bittersweet chocolate sauce

Thursday, Jan. 29

Dinner

- Corn chowder
- Halibut w/ spicy red pepper sauce
- Island rice
- Brussels sprouts
- Lemon Napoleon

[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](#)

is online at:

www.fnal.gov/today/

Send comments and

suggestions to:

today@fnal.gov

--Kristine Crane

In the News

Letter to Obama

From *Seed*, Jan. 26, 2009

Dear President Obama,

As a part of your economic stimulus package, we ask you to consider an immediate increase in funding for scientific research. We deeply appreciate your commitment to increasing the funding that American science so desperately needs. We know that you understand how important it is for the long-term health and vitality of the American economy to keep America at the forefront of scientific research. While some might argue that the current economic crisis should push such plans into the future, we believe, to the contrary, that the stimulus package provides a vital opportunity to begin rebuilding American science, because increased science funding is an ideal economic stimulus: it creates good jobs across the economy, there is large pent-up demand so that money can be spent immediately, and it represents an investment in the infrastructures of scientific research and higher education that are vital to our economy's future.

[Read more](#)

In the News

One Quantum Leap

From *MSNBC.COM*, Jan. 22, 2009

Researchers have successfully teleported information from one trapped atom to another one sealed up in a container sitting 3.3 feet (1 meter) away. That's one small step for teleportation, and one quantum leap for code-makers and code-breakers.

But if you're waiting for the kind of teleporter that can beam Captain Kirk down from the Starship Enterprise ... well, don't hold your breath.

"The term 'teleportation' is a little weird," research team leader Christopher Monroe told me today. "When people see that word they think of Captain Kirk, and that's a big problem."

That's not to say that this kind of teleportation is ho-hum physics: Albert Einstein called it "spooky action at a distance" and thought it [couldn't be done](#). But quantum teleportation,

priority and we achieved an outstanding safety record.

It is fun to run up the score when you are winning. After all, the real goal is to produce as many collisions as possible to maximize the discoveries that come out of the CDF and DZero detectors. And we will do it safely.

Safety Update

ES&H weekly report, Jan. 27

This week's safety report, compiled by the Fermilab ES&H section, includes four incidents, three of which are related to snow removal. No incident resulted in a reportable injury, but one case is pending. We have worked 19 days since the last recordable injury. Find the full report [here](#).

[Safety report archive](#)

Announcements

Latest Announcements

[C2ST presents Bioterrorism, Pandemics, & Vaccines Jan. 27](#)

[Second Annual Mentor Round Up](#)

[English Country Dancing, Feb. 1](#)

[Have a safe day!](#)

[Intermediate / Advanced Python Programming - Jan. 27 - 29](#)

[NALWO Brown Bag Lunch Jan. 27 - "Women as Classic: From BC to AD"](#)

[ACU bill pay demonstration Jan. 29](#)

[Recreation Office Meeting Jan. 30](#)

[English Country Dancing, Feb. 1](#)

[Outlook 2007 New Features classes scheduled Feb. 3 and 26](#)

[Conflict Management & Negotiation Skills class offered Feb.3](#)

[PowerPoint 2007: New Features class offered Feb. 3](#)

[Facilitating Meetings That Work class offered Feb. 4](#)

[Word 2007: New Features class offered](#)

as in the transfer of information from one place to the other without passing through any physical medium, has been in the works for more than a decade.

Over the years, teleportation experiments have demonstrated that quantum states - for example, the spin of a particle or the polarization of a photon - [can be teleported using a variety of methods](#). But the researchers behind the latest experiment, reported in Friday's issue of the journal Science, claim that this is the first time information has been teleported between two separate atoms in unconnected enclosures.

[Read more](#)

[Feb. 4](#)

[Excel 2007: New Features class offered](#)

[Feb. 4](#)

[Interpersonal Communication Skills class being offered Feb. 5](#)

[Bulgarian Dance Workshop, Feb. 12](#)

[Changes to the Family and Medical Leave Act Jan. 16](#)

[Changes in U.S. admission procedure](#)

[Additional Activities](#)

[Submit an announcement](#)