

Furlough Information

New furlough information, including an [up-to-date](#) Q&A section, appears on the [furlough Web pages](#) daily.

Layoff Information

New information on Fermilab layoffs, including an [up-to-date](#) Q&A section, appears on the [layoff Web pages](#) daily.

Calendar

Friday, April 25

9 a.m.- 3:30 p.m.

[SCRF meeting](#) - One North
THERE WILL BE NO
PHYSICS AND DETECTOR
SEMINAR THIS WEEK

9 a.m.- 1 p.m.

[Third Annual Low Emittance
Muon Collider Workshop](#) - One

West

3:30 p.m.

DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over

4 p.m.

[Joint Experimental-Theoretical
Physics Seminar](#) - One West

Speaker: K. Yorita, University
of Chicago

Title: Search for the SM Higgs
with $H \rightarrow \tau \tau$ Decay Mode at
CDF

Monday, April 28

2:30 p.m.

[Particle Astrophysics Seminar](#)

- Curia II

Speaker: M. Kavic, Virginia
Tech

Title: Transient Pulses from
Exploding Primordial Black
Holes as a Signature of an
Extra Dimension

3:30 p.m.

DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over

4 p.m.

All Experimenters' Meeting -
Curia II

In the News

Evolution of Internet powers massive particle physics grid

From *Network World*, April 22, 2008

Inside the network that will help scientists discover the origins of the Universe

If you're a fan of particle physics (and really, aren't we all?), by now you know scientists are on the verge of opening the Large Hadron Collider, which will use ultra-powerful magnets to race proton beams around a 17-mile circular underground tunnel and smash them into each other 40 million times a second.

Besides being awesome, these collisions will produce tiny particles not seen since just after the Big Bang and perhaps will enable scientists to find the elusive Higgs boson, which – if theories are correct – endows all objects with mass. The Large Hadron Collider may also help scientists figure out why all the matter in the universe wasn't destroyed by anti-matter, which would have been inconvenient for those of you who enjoy residing in a universe that isn't a great vacuum devoid of life.

[Read more](#)

Photo of the Day

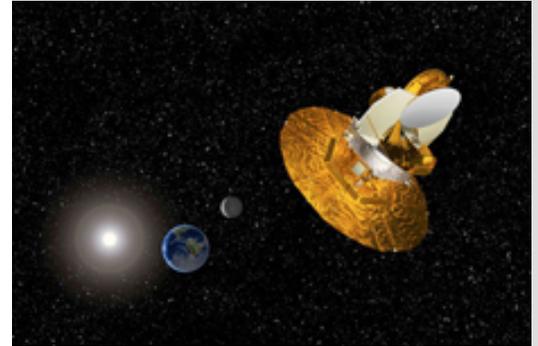
Buffalo art imitates buffalo life



At Lab Six, docent Anne Mary Teichert creates a life-size buffalo mural modeled after a former 3-year-old cow and her calf that lived on site. The mural will be on display at the Family Outdoor Activity Fair Sunday at the Lederman Science Center where children will learn about native life at Fermilab, including the buffalo herd, pond critters,

From *ISTGW*

The dynamics of dark energy: ZEN probes the limits



Data from the Wilkinson Microwave Anisotropy Probe spacecraft, illustrated here leaving the Earth/Moon orbit, will be used to fine-tune our understanding of the Universe in the hunt for dark matter. *Image courtesy of NASA/WMAP Science Team*

The answers are out there somewhere, and researchers with the ZEN project are keen to find them.

ZEN—standing for Zoom sur l'Energie Noire or “zoom on dark energy”—is a computer model designed to enable new estimates about the nature of dark energy.

Mysterious, not dark

“Dark energy has a very surprising property: it acts like negative pressure,” says ZEN project leader Andre Tilquin of the Marseilles Centre for Particle Physics in France. “This means the expansion of our universe is accelerating; before we thought the expansion of the universe was decelerating due to its own mass.”

Tilquin's goal is to calculate the dynamics of this force with new accuracy, using ZEN.

The ZEN model combines observations from different experiments within a framework of interdependent cosmological and astrophysical parameters—new information about one force will affect what we know about all other forces. The tool allows researchers to analyze new data quickly and coherently.

“By combining information from many experiments we can accurately measure all the parameters that describe the universe,”

Special Topics: Rapid Transfer Progress and Plans; Blowing Up Pbar Emittances

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

Weather

 Chance of showers
55°/36°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Friday, April 25

- Old fashioned ham & bean
- Philly style chicken
- Braised pork chops
- Smart cuisine: baked fish over rice
- Roasted veggie & provolone panini
- Baked potato

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, April 30

Lunch

- Chipotle shrimp on corn cakes
- Tropical fruit platter

Thursday, May 1

Dinner

- Sea scallops w/maple cream
- Grilled pork tenderloin w/ Madeira cream sauce
- Steamed asparagus
- Roasted garlic mashed potatoes
- Profiteroles w/strawberries

[Chez Leon Menu](#)

Call x4598 to make your reservation.

Archives

birds and prairie insects. The event is fully booked.

Milestone

Bob Gloor to retire



Bob Gloor

Robert (Bob) Gloor will retire April 30, after 29 years as a design drafter in the Accelerator Mechanical Support Department.

From symmetry breaking

Science is cool??

Editor's Note: Office of Communication employee Tona Kunz shares a first-person account of one way to engage youth in science.

High-energy particle physics uses mammoth, powerful metal-and-wire machines to search for the smallest constituents of life and matter by creating “explosions of energy” at nearly the speed of light. The process recreates at a tiny, tiny scale the primordial conditions of the universe just after the big bang. I was sure I could excite a rough-and-tumble boy with this big, violent concept. Really, you can’t get much more monumental—or, in boy-speak, “cool”—than that, right? Yet, as I tried to explain what Fermilab does to my science-loving 8-year-old son on the way to a Wonders of Science show there, I was hard-pressed to convince him that high-energy physics was even a little bit cool.

“They shoot a big beam, like a laser, underground,” I said.

“Cool. Can you see it?”

“No.”

“Oh.”

“They smash tiny particles together that create the building blocks of life. Those particles fit together like your Legos.”

“Cool. You can see those?”

“No. Not without a really expensive particle detector that works like a super microscope.”

“Oh....That’s really boring.”

says Tilquin.

[Read more](#)

-- Danielle Venton, EGEE

Announcements

[Have a safe day!](#)

Tickets still available for The Reduced Shakespeare Company

Tickets still are available for The Reduced Shakespeare Company show at 8 p.m. on Saturday, May 3. Tickets cost \$25 for adults and \$13 for ages 18 and under. The comedy troupe presents a 98-minute rendition of all of Shakespeare's major works. [More information](#)

NALWO Spring Tea May 5

Members of the Fermi National Accelerator Laboratory Women's Organization will hold their Spring Tea on May 5 from 11 a.m. - 1 p.m. Barbara Oddone will host the event in her home, Site #29, located just inside the Wilson Street gate. Photo identification is necessary to enter the laboratory. When entering at Wilson Street, turn right at the driveway just beyond the gate. If possible, please bring a favorite dessert or appetizer from your home country. For additional information, contact [Susan Kayser](#), [Margie Nagaitsev](#) or the [Housing Office](#) at (630) 840-3777.

Cross-step waltz workshops

Fermilab's dance groups will sponsor workshops on cross-step waltz, an accessible vernacular, vintage waltz style from 7:30-10 p.m. on Friday, May 2, at Kuhn Barn on the Fermilab site and on Saturday, May 3, at the Harvard Congregational Church, 1045 S Kenilworth Ave. in Oak Park. Jeanette Watts, a professional dance instructor from Dayton, Ohio, will teach both workshops. Organizers request a \$5 donation for the Fermilab workshop and a \$10 donation for the Oak Park workshop.

Flexible Spending Accounts

To get reimbursed, you must submit 2007 Flexible Spending Account claims by April 30, 2008. Fax claims to Cigna at (570) 496-2945. Include a signed and dated claim form with your submission for reimbursement.

Introduction to LabVIEW

Learn how to build and custom test, measurement and control applications from scratch, using intuitive, measurement-specific graphical programming. [Learn more and enroll](#)

[Fermilab Today](#)

I had run out of explanations and lost the interest battle—but not the war, I was soon to find out.

[Result of the Week](#)

[Read more](#)

[Safety Tip of the Week](#)

[ILC NewsLine](#)

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