

## Calendar

**Friday, Aug. 1**
**3:30 p.m.**

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

**4 p.m.**
[Joint Experimental-Theoretical  
 Physics Seminar](#) - One West

 Speaker: C. Polly, University of  
 Illinois, Urbana/Champaign

 Title: Updates to the Low  
 Energy Excess in MiniBooNE

**5-7 p.m.**
[Fermilab Art Gallery Artist](#)
[Reception](#) - Second Floor Art

Gallery

Title: McMahon Family Affair

**Monday, Aug. 4**

 PARTICLE ASTROPHYSICS  
 SEMINARS WILL RESUME IN  
 THE FALL

**3:30 p.m.**

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

**4 p.m.**

 All Experimenters' Meeting -  
 Curia II

 Special Topic: CMS Installation  
 and Commissioning

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

## Weather


**Chance of  
 thunderstorms 87%/62%**
[Extended Forecast](#)
[Weather at Fermilab](#)

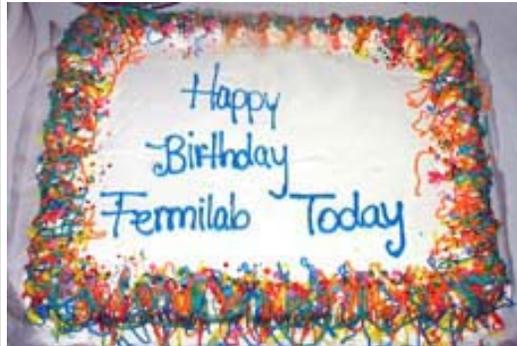
## Current Security Status

[Secon Level 3](#)

## Wilson Hall Cafe

## Feature

### Happy b-day, *Fermilab Today*!


*Fermilab Today* turns 5.

On July 20, 2003, Fermilab's then Office of Public Affairs launched *Fermilab Today*, an interactive, online news publication. It brought expanded news of high-energy physics and daily events at the laboratory to Fermilab readers and other subscribers.



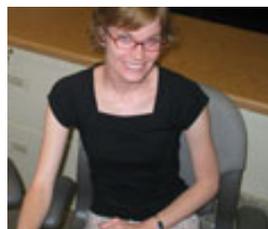
Elizabeth Clements, *Fermilab Today's* first editor, sends out the first issue of *Fermilab Today*.

and shared the lives of those who read it.

*Fermilab Today* publishes regular columns from departments, such as ES&H's "Safety Tip of the Week," the scientific "Result of the Week," which usually alternates between CDF and DZero, and columns from the heads of Fermilab's divisions, sections and centers.

Thanks to the help of Fermilab's Visual Media Services, *Fermilab Today* uses multiple media to build bridges between different parts of the laboratory and help colleagues learn about each others' work. *Fermilab Today* served as a resource during the recent budget crisis and subsequent furloughs. It has also become a

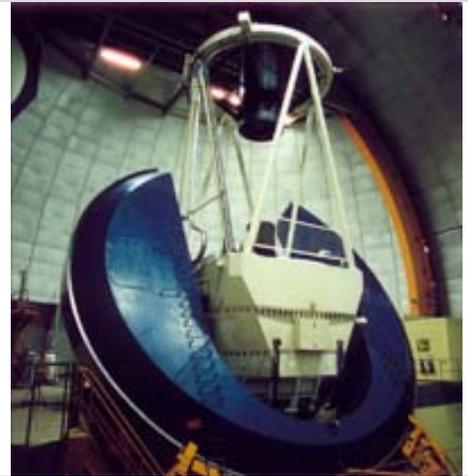
With daily delivery, *Fermilab Today* has become a part of the life of the laboratory. Since its inception, *Fermilab Today* has highlighted research results, communicated good news and bad, emphasized important activities and deadlines



Siri Steiner, *Fermilab Today's* second editor

## From iSGTW

### Simulating starry images



The Blanco telescope. The dark-colored, horseshoe-shaped piece is part of the telescope support structure. It can rotate about the axis perpendicular to its plane. The light-colored structure holds the 4-meter in diameter mirror at the bottom and the old prime focus imager, black in color and facing downward, at the top. The DES camera, DECam, will replace the imager. *Image courtesy of DES.*

Ever since the universe exploded into existence, it has been violently rushing outward. Scientists expected the inward tug of gravity to slow this expansion over time, but the opposite is true. The startling discovery that the universe's expansion is accelerating has led scientists to postulate the existence of an outward-pushing dark energy.

To better understand dark energy and its implications on our current knowledge of matter, energy, space, and time, scientists will conduct the large-scale Dark Energy Survey (DES), starting in 2012.

Atop a mountain at the Cerro Tololo Inter-American Observatory in Chile, researchers will use the 4-meter Blanco telescope, equipped with the Dark Energy Camera, to capture brilliant images of more than 300 million galaxies. They expect to measure quantities related to pressure and energy density five times more precisely than currently possible, says physicist Huan Lin of Fermi National Accelerator Laboratory.

To test and debug the image processing programs, researchers use Open Science Grid

**Friday, Aug. 1**

- \*Italian vegetable soup
- Teriyaki chicken
- Southern fried chicken
- \*Mediterranean baked tilapia
- Eggplant parmesan panini
- Assorted slice pizza
- Assorted sub sandwich

\*Carb Restricted Alternative

[Wilson Hall Cafe Menu](#)

**Chez Leon****Wednesday, Aug. 6****Lunch**

- Spicy Italian sausage & 3 cheese calzone
- Caesar salad
- Fresh fruit plate

**Thursday, Aug. 7****Dinner**

- Melon & prosciutto
- Ancho chili pork tenderloin with caramelized onions
- Red rice
- Vegetable of the season
- Hazlenut cake with blueberries

[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/](http://www.fnal.gov/today/)

Send comments and suggestions to:  
[today@fnal.gov](mailto:today@fnal.gov)

regular resource for reporters seeking science news. *Fermilab Today* was among the first publications to announce the discovery of the "triple scoop" baryon, measurement of the top mass, ruling out of a fourth neutrino and discovery of the source of the highest-energy cosmic rays.



Current editor Rhianna Wisniewski

To celebrate the past five years, the Office of Communication invites the Fermilab community to a party in the Users' Center today beginning at 4 p. m.

**Feature****Making art a family affair**

Oak Street Beach, a watercolor from artist Mark McMahon. A selection of McMahon's work, and that of his family members, is featured in the Fermilab Art Gallery's current art exhibit.

Most people would feel lucky if their children followed in their footsteps, taking on the family practice or picking up the same trades. But when most of Franklin McMahon's nine children and a few of his 13 grandchildren decided to become artists, he was a little overwhelmed.

"They all learned on their own. Some are artists and some have real jobs," Franklin joked.

Much of the McMahon clan chose art as a career, but they produce works using different media. Sculpture, watercolor paintings, sketches, furniture, Web design, photography and carvings all find a place in the McMahon Family Affair, an art exhibit now on display in Fermilab's Art Gallery.

"I was sort of born into it," said son Mark McMahon. "Art was always around."

to create complex simulations of telescope signals and Teragrid to process these simulations.

—Amelia Williamson, iSGTW

[Read more](#)

**In the News****In Russian**

Check out this [news story](#), from *Voice of America*, about the ZZ.

**In the News****Known and unknown unknowns**

From *The Economist*, July 31, 2008

WELL, it is about to happen. After more than a decade, SFr10 billion (\$10 billion) and a lot of nail-biting, the first protons should spin their way into the Large Hadron Collider on August 8th. These protons will only be tests. But in a couple of months' time, when the tests are complete, the particle-smashing will begin in earnest. At that moment the LHC, as the giant machine near Geneva is known to its friends, will take the first big step into the unknown reaches of particle physics for a quarter of a century. For, although physicists have been trying to keep themselves busy on marginal projects during this period, the truth is that the last truly fundamental subatomic particles, the W and Z bosons, were found in 1983.

The next one, unless everyone's theories are wrong, will be the Higgs boson, a theoretical construct required to give mass to the other particles of which matter is composed. That should come quite quickly. Only if it does not will people start scratching their heads.

[Read more](#)

**Announcements**

Franklin, the 87-year-old patriarch, began sketching cartoons in high school and made a career of painting and sketching. He has captured some of last century's most memorable events on paper, including the opening day of Vatican Council II, the 1960 Democratic and Republican conventions and the first landing on the moon.

Like his father, Mark paints from on-location sketches. His personality-injected watercolors depict events and scenes from locations around the world. Mark's wife, Carolyn, focuses her artistic efforts on sculpting with metal, ceramic and glass, in often overlapping techniques. She also produces sculptures in neon, which she says can combine color and multiple dimensions. Franklin's son Frank spent most of his life as a photographer before turning to Web development. Both elements mingle in his printed pieces.

This is the first time that more than 10 family members have been in the same exhibit.

"These events have kind of substituted for family reunions," said Elise McMahon, daughter of Mark and Carolyn, whose sculpted furniture appears in the exhibit.

The McMahon family's art works will remain on display through Wednesday, Sept. 17. All employees may attend an opening reception today, Aug. 1, from 5-7 p.m. in the Fermilab Art Gallery.

-- *Rhianna Wisniewski*

### [Have a safe day!](#)

#### **WH horseshoe closed Saturday**

The Wilson Hall horseshoe parking lot will close at 6 a.m. on Saturday for crack sealing. Roads and Grounds crew members will block off the entrances. Park near and use the lower entrances to Wilson Hall. The parking lot will open at 3 p.m.

#### **Pidgin: On site IM Client Class Aug. 26 or Aug. 28**

Learn what instant messaging has to offer and how to use Pidgin, an instant messaging client supported by the Computing Division. [More information](#)

#### **Summer intern photo Aug. 5**

VMS will take a photo of all summer interns at 11:45 a.m. in the Wilson Hall atrium. Please come on time.

#### **Performance review help for supervisors**

Managers and supervisors who need help with the performance review can attend a review briefing from 8:30 - 11:30 a.m. on Thursday, Aug. 7. The briefing will help answer questions about the performance review process, including the form and compensation. [Learn more and enroll!](#)

#### **UEC elections underway**

Elections for the 2008-2009 Users' Executive Committee are now open. Votes must be cast by Aug. 5. More information is available [here](#).

#### **Swimming lesson registration ends Thursday**

The final swimming lesson session starts on Monday, Aug. 4, and lasts for two weeks.

Four classes are offered:

9-9:40 a.m. - Youth Lessons

9:50-10:30 a.m. - Youth Lessons

10-10:30 a.m. - Preschool Lessons

10:40-11:10 a.m. - Preschool Lessons

Registration will close on Thursday, July 31, at noon. Register at the Recreation Office on WH15 (x5427).

#### **Classifieds**

Find new [classified ads](#) on *Fermilab Today*.

### [Additional Activities](#)