

Layoff Information

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

Furlough Information

Information on the furloughs at Fermilab, which stopped May 31, 2008, is available on the [furlough Web pages](#).

Calendar

Wednesday, June 25

9 a.m. - 4:30 p.m.

[CMB Polarization: Theory and Foregrounds Workshop](#) - One

West

3:30 p.m.

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

4 p.m.

[Fermilab Colloquium](#) - One

West

Speaker: L. Krauss, Case
Western Reserve University
Title: Cosmology as Science:
From Inflation to the Future

Thursday, June 26

1 p.m.

Physics and Detector Seminar
- West Wing, WH-10NW

Speaker: D. Mitchell, Fermilab
Title: ILC Cryomodules

2:30 p.m.

[Theoretical Physics Seminar](#) -
WH-3NW (NOTE LOCATION)

Speaker: S. Pascoli, Durham
University

Title: Detecting Dark Matter
with Neutrino Detectors

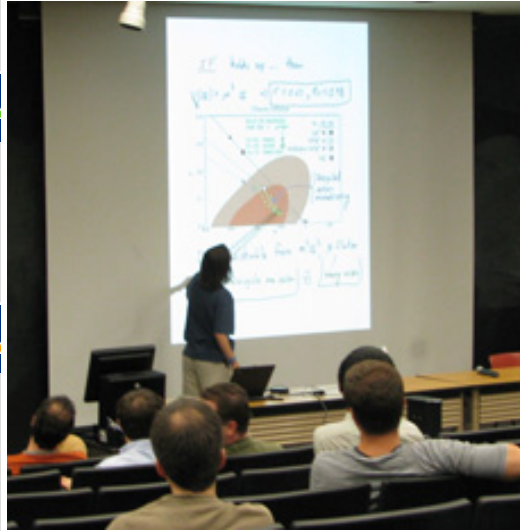
3:30 p.m.

DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over
THERE WILL BE NO
ACCELERATOR PHYSICS
AND TECHNOLOGY
SEMINAR TODAY

[Click here](#) for NALCAL,

Feature

Theorists look to test ideas with space data



Attendees of the CMB Polarization workshop listen to a presentation Tuesday afternoon by Stanford University's Eva Silverstein. Her presentation was titled Large Field Inflation in String Theory.

Theorists are lining up to have their views of the universe tested by an upcoming space mission.

About 110 theorists from Europe, Asia and the Americas converged on Fermilab June 23-26 for a workshop to produce six papers outlining possible research programs that would use data collected by a next-decade NASA launch proposed in the Beyond Einstein program.

The NASA-funded [CMB workshop](#) at Fermilab brings theorists together to decide on research approaches rather than putting them in competition.

"It is very important that the science agencies work together and speak with one voice on big cosmology projects, independently of which agency funds the project," said Fermilab astrophysicist Albert Stebbins. "Having this workshop at FNAL is a good step in this direction."

The satellite probe, which could launch about 2018, would use the cosmos as a laboratory. The probe could record and study cosmic microwave background polarization, the movement of the remnants of the radiation

From the Particle Physics Division

Four years

Jim Strait, head of the Particle Physics Division, wrote this week's column.

This is my last *Fermilab Today* column. As many of you know, I will step down at the end of this month after almost four years as head of the Particle Physics Division. Later this summer, I will head to CERN to work on the commissioning of the LHC. While it would be crazy to say that every moment of this job was fun, it has been on the whole, a very satisfying experience. I feel honored to have had the opportunity to head this marvelous organization.



Jim Strait

The last four years have certainly had their ups and downs. But despite staff reductions in two of the last four years and the cancellation of BTeV due to budget shortfalls, the experimental program has remained very strong. CDF and DZero have produced a flood of new results, including the first observations of B_s oscillations, increasingly precise measurements of the W boson and the top quark mass, and the race to find the Higgs boson. MINOS is making the world's best measurement of neutrino oscillations. MiniBooNE has laid to rest the LSND neutrino effect observed at Los Alamos, but it has discovered an apparent anomaly in low-energy electron production. SciBooNE was proposed and built in near-record time and is nearing completion of a successful data-taking run.

[Read more](#)

In the News

a weekly calendar with links to additional information.

Weather



Thunderstorms
86°/66°

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

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Wednesday, June 25

- Cajun style lentil soup
- Cajun chicken ranch
- Tilapia w/jalapeno lime sauce
- Parmesan baked pork chops
- Smoked turkey panini pesto mayo
- Assorted slice pizza
- Chicken Alfredo Fettucine

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, June 25 Lunch

- Tortilla crusted tilapia filet
- Lemon grass rice
- Vegetable of the season
- Apple pie w/ ice cream

Thursday, June 26 Dinner

- Closed

[Chez Leon Menu](#)

Call x4598 to make your reservation.

Archives

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[ILC NewsLine](#)

from a brief period of rapid growth soon after the Big Bang. The data collected would help scientists uncover how the universe formed, which would test theories of extra dimensions and other phenomena.

"Fermilab was one of the birthplaces of the idea to use CMB polarization to study the very early universe," Stebbins said.

Later this year, theorists will take the unusual step of posting on arXiv.org a bound collection of the so called "white papers" created at the workshop.

"We will make a case for why we should invest the resources and time into a satellite mission," said Fermilab astrophysicist Mark Jackson. "Using data from the mission, theorists could say which model is right."

--Tona Kunz

In Memoriam

In Memoriam: Charles Bonham



Charles Bonham

Charles Bonham, a former Fermilab employee, ID #2555, passed away at his home in Austin, TX, on June 17 after a battle with cancer. Bonham began his career at Fermilab in 1974 with the Safety Office and later worked as a senior safety officer in Accelerator Safety.

Bonham retired from Fermilab in 1988 and spent a year in Rio de Janeiro, Brazil, and two years in Pretoria, South Africa. He returned to south-central Texas in 1991 where he spent the rest of his life.

"I worked daily with Charlie Bonham for four years and grew to love this unusually extraordinary and intelligent man. He was not only a mentor who taught me a great deal about safety, but showed me a different and unique way to look at the world. He was a true friend who had a lasting impact on my life, and I will greatly miss him," said Linda (Beddingfield) Spurling, one of Bonham's former employees.

Bonham's daughter, Diana, who works in Fermilab's Computing Division, said that her father was a great man and lent a unique perspective to everything he did. "He had the wonderful ability to motivate and inspire those

Huge lenses to observe cosmic dark energy

From *Interactions.org*, June 24, 2008

UK astronomers, as part of an international team, have reached a milestone in the construction of one of the largest ever cameras to detect the mysterious Dark Energy component of the Universe. The pieces of glass for the five unique lenses of the camera have been shipped from the US to France to be shaped and polished into their final form. The largest of the five lenses is one metre in diameter, making it one of the largest in the world.

Each milestone in the completion of this sophisticated camera brings us closer to detecting the mysterious and invisible matter that cosmologists estimate makes up around three quarters of our Universe and is driving its accelerating expansion. Observations suggest that roughly 4% of the Universe is made up from ordinary matter and 22 percent from Dark Matter; this leaves 74 percent unaccounted for - the so-called Dark Energy.

The Dark Energy Survey (DES) camera will map 300 million galaxies using the Blanco 4-meter telescope - a large telescope with new advanced optics at Chile's Cerro Tololo Inter-American Observatory.

[Read more](#)

Safety Update

ES&H weekly report, June 24

This week's safety report, compiled by the Fermilab ES&H section, lists two minor first-aid injuries, both non-recordable. The last recordable injury for a Fermilab employee or contractor occurred 80 days ago. Find the full report [here](#).

[Safety report archive](#)

Special Announcement

Info

Fermilab Today

is online at:

www.fnal.gov/today/

Send comments and suggestions to:

today@fnal.gov

who lacked self-confidence," Diana Bonham said.

"Dad also loved ice cream. He would be pleased if all those who remember him would enjoy a Buster bar from Dairy Queen (his favorite) in his honor," she added.

Bonham is survived by his brother John, a nephew, a great-nephew, his wife Sirley, his former wife Judith, four daughters, one son, four grandsons and three granddaughters. There will be a private family memorial at a later date.

-- *Rhianna Wisniewski*

Blood drive today, type O negative needed

Heartland Blood Centers will conduct a Fermilab Blood Drive today from 8:30 a.m to 2 p.m. in the Wilson Hall ground floor NE Training Room. There is a special need for type O negative blood. Schedule appointments [online](#) or call Diana at x3771 or Margie at x5680. [More information](#). The last blood drive collected 83 units. Many thanks to all who donated.

Announcements

[Have a safe day!](#)

Chez Leon will serve lunch on June 25

The lunch schedule for Chez Leon has changed, and it will open for lunch on Wednesday, June 25. Call x4598 for reservations. (Wednesday's menu is on the left side of today's issue.)

Visa Office Closed

The Visa Office will be closed the week of June 23-27, 2008. Please address only urgent matters during that week to Borys Jurkiw at visaoffice@fnal.gov or x4363.

Fermilab pool memberships available

Memberships to the Fermilab pool will be sold Wednesday, June 25, and Friday, June 27, from noon to 1:30 p.m. on the west side of the Wilson Hall cafeteria. Membership rates are \$50 for students; \$75 for individuals; \$150 for a family; and \$300 for supporting members. Checks and cash only. See [Monday's](#)

Fermilab Today article for tentative pool hours and more information.

[Additional Activities](#)