

Calendar

Tuesday, October 11

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

8:00 p.m. Einstein's Big Idea - WTTW-TV
Channel 11

Note: There will be no Accelerator
Physics and Technology Seminar today

Wednesday, October 12

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

4:00 p.m. Fermilab Colloquium-1 West
Speaker: J. Gardner, NASA Goddard
Space Flight Center

Title: Galaxy Formation with the Hubble
and James Webb Space Telescopes

Note: There will be no Fermilab ILC R&D
meeting this week

Weather



Cloudy 60°/52°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

CDF's Lockyer Part of Panofsky Prize Team

CDF's Nigel Lockyer will receive the 2006
W.K.H. Panofsky Prize in

Experimental
Particle Physics
along with Bill Ford,
of the University of
Colorado, and John
Jaros, of SLAC.

Their work at
SLAC's MAC and
Mark II experiments

led to the 1983 measurement of the
unexpectedly long lifetime of B mesons.

Jaros designed a high-precision vertex
detector for the Mark II, initially focusing
on the lifetimes of tau leptons and charm
particles. But Ford, with the MAC
detector, and Lockyer, with the Mark II
detector, pursued what many physicists of
the time thought was impossible - the
lifetime analysis of B mesons. "It was
thought to have an extremely short
lifetime and there was no chance of
measuring it," Lockyer said. "I decided to
try it." Analysis by Lockyer and Jaros,
along with Berkley colleagues including
Mark Nelson, showed a long lifetime,
causing the scientists to assume an error
in the data. "We spent a year of our lives
trying to determine what was done wrong
and in the end, it was the right answer,"
he said. Ford's analysis at MAC reached
the same conclusion.

The discovery led to an understanding of
the CKM hierarchy, paved the way for B
factories and ultimately, the observation
of the top quark, Lockyer said. Lockyer



Nigel Lockyer

Director's Corner

Hidden Battles

Some of the battles we fight are very
visible,

and when victory
follows the
celebration is
immediate. A recent
example of such a
victory is the world
record luminosity
achieved by the



Pier Oddone

Tevatron, thanks to
the superb efforts of the accelerator team.
Many other battles that are critically
important for the laboratory are hidden
from view. Victories in such battles often
pass quietly.

Today I want to highlight one such battle,
still ongoing, but by all appearances
headed for victory. Two weeks ago we
came within two weeks of shutting the
accelerators down for lack of cooling
water. As most of you probably know, we
rely on several of the ponds at Fermilab
for the accelerator cooling water (ICW).
The fact we even had two weeks of
reserve was the result of an enormous
effort to manage the water systems within
the site during the unprecedented drought
that has affected our area. Many
individuals in FESS have contributed to
this effort, from laying pipe, installing
pumps, gathering data, moving water
from storage ponds into active ones and
managing the river flows to ordering and
installing parts.

The drought has lowered the flow of the

Tuesday, October 11

- Tomato Bisque
- Pesto Marinated Chicken Breast
- Burgundy Beef Tips
- Baked Fish Creole over Rice
- Grilled Chicken Caesar Wrap
- Supreme Pizza
- Rio Grande Taco Salads

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

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, October 12

Lunch

- Catfish with Roasted Peppers
- Lemon Grass Rice
- Vegetable of the Season
- Ginger Plum Turnovers

Thursday, October 13

Dinner

- Shrimp Bisque
- Quail w/Garlic Rosemary Sauce
- Mashed Roots
- Green Beans w/Bacon & Balsamic Vinegar
- Chocolate Hazelnut Souffle

[Chez Leon Menu](#)

Call x4512 to make your reservation.

Search

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Info

was CDF co-spokesperson from 2001-2003 and currently is a physics professor at the University of Pennsylvania, working on CDF and the International Linear Collider.

The American Physical Society's Panofsky Prize recognizes outstanding achievements in experimental particle physics. Fermilab Director Pier Oddone won last year's prize for his work with asymmetric B factories. The prize includes \$5,000 for travel to the award ceremony, scheduled for April in Dallas.
—Kendra Snyder

'Einstein's Big Idea' Airs Tonight with URA Backing

Universities Research Association, Inc., is a participating sponsor of tonight's NOVA dramatization *Einstein's Big Idea: The story behind the world's most famous equation*, telecast nationally by PBS. The program is based on the book by David Bodanis, *E=mc²: A biography of the world's most famous equation*. URA will join a list of sponsors including the Department of Energy, the National Science Foundation, the Corporation for Public Broadcasting, the Alfred P. Sloan Foundation, Google, the Howard Hughes Medical Institute and the American Physical Society. NOVA is telecast in the Chicago area by WTTW-TV Channel 11. You can also check out the [Quantum Diaries Blog](#) to find out more about this NOVA program. Once there, you can [ask a Quantum Diarist](#) any Einstein-related question.

More About Badges

Fox River for most of the summer to below the minimum level that would allow us to pump water to make up our usage losses. The recent rainfall has provided a welcome respite. But we are not just waiting for the kindness of Mother Nature. We are bringing some of the wells on site into production so that they, together with the water we pump to keep NUMI/MINOS dry and the make-up water from the Fox River, will enable us to be much more resilient when faced with a lingering drought.

Accelerator Update

October 7-10

- During this 72 hour period, one store provided 29 hours and 38 minutes of luminosity.
- Booster LCW leak

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

New Method for Filtering Spam

Visit the [computing website](#) for information about how to reduce spam in your inbox.

Winter Leagues are Forming

- Winter Coed Volleyball League Play begins November 7 on Monday and Friday evenings. A captain's meeting will be held at Noon in the Cafeteria on October 31. Interested persons and teams should contact the league representative, Elizabeth Gallas at gallas@fnal.gov.

- Soccer League play is on Wednesday and Fridays. Contact representative is Sandor Feher, fehers@fnal.gov.

Fermilab Today is online at:

<http://www.fnal.gov/today/>

Send comments and suggestions to

today@fnal.gov

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Two weeks ago, *Fermilab Today* reported on a new, mandatory government-wide standard for secure and reliable forms of identification for all federal employees and contractors. In response, several employees and users sent questions about the new federal standard. Fermilab has created a [Web site](#) with the original article as well as answers to frequently asked questions about the new directive.

—*Kurt Riesselmann*

In the News

From *Computerworld*: October 10, 2005

Planet-Scale grid: A particle collider leads data grid developers to unprecedented dimensions.

In 2007, scientists will begin smashing protons and ions together in a massive, multinational experiment to understand what the universe looked like tiny fractions of a second after the Big Bang. The particle accelerator used in this test will release a vast flood of data on a scale unlike anything seen before, and for that scientists will need a computing grid of equally great capability.

[Read More](#)

- Doubles Tennis League play is on Sunday evening. Contact representative is Don Flynn, flynn@fnal.gov.

- Singles Tennis League play is on various days at various times. Contact representative is John Yoh, johnny@fnal.gov.

- Basketball League play is on Thursday evenings. Contact representative is Brian Niesman, niesman@fnal.gov.

All winter league participants must be current Recreation Facility members.

[Upcoming Activities](#)