

Calendar

Wednesday, March 16

THERE WILL BE NO Proton Driver

General Meeting THIS WEEK

THERE WILL BE NO FERMILAB ILC

R&D MEETING THIS WEEK

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. Fermilab Colloquium - 1 West

Speaker: J. Rigden, Washington

University

Title: Einstein: The Standard of Greatness

Thursday, March 17

Happy St. Patrick's Day!

2:30 p.m. Theoretical Physics Seminar -

Curia II

Speaker: C. Oleari, Universita Milano

Title: QCD Corrections to Higgs Boson

Production: Signal and Backgrounds

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. Accelerator Physics and

Technology Seminar - 1 West

Speaker: S. Schreiber, DESY

Title: TTF VUV FEL Commissioning

Weather



Chance Rain **41°/31°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

NeutrinoFest Brings Scientists, Writers Together



A summer student working on the MiniBooNE experiment inspects a photomultiplier tube used to detect light from neutrino interactions. (Photo courtesy of Peter Ginter)(Click on image for larger version.)

NeutrinoFest will bring together top neutrino scientists and science writers to talk about Nature's most elusive particle on April 18, 2005, at the annual gathering of the American Physical Society in Tampa, Florida.

"This seemed like the perfect time for such a workshop," said Janet Conrad, neutrino physicist and NeutrinoFest Organizer. "It celebrates the combination of the World Year of Physics, the 75th birthday of Pauli's idea of the neutrino, and the completion of the APS Study on the Future of Neutrino Physics."

The idea for NeutrinoFest grew out of the [APS Neutrino Study](#), which represents a consensus of over 300 authors on the future direction of neutrino studies. "As we were writing the report, we realized we had all this great information on neutrinos and wanted a way to let the public share our excitement," Conrad said.

The event, targeting science writers and

INFN/Fermilab Press Release Italian, US cosmologists present alternate explanation for accelerating expansion of the universe: Was Einstein right when he said he was wrong?

Why is the universe expanding at an accelerating rate, spreading its contents over ever greater dimensions of space? An original solution to this puzzle, certainly the most fascinating question in modern cosmology, was put forward by four theoretical physicists, Edward W. Kolb of the U.S. Department of Energy's Fermi National Accelerator Laboratory, Chicago (USA); Sabino Matarrese of the University of Padova; Alessio Notari from the University of Montreal (Canada); and Antonio Riotto of INFN (Istituto Nazionale di Fisica Nucleare) of Padova (Italy).

Their study was submitted yesterday to the journal *Physical Review Letters*.

Over the last hundred years, the expansion of the universe has been

a subject of passionate discussion, engaging the most brilliant minds of the century. Like his contemporaries, Albert Einstein initially thought that the universe was static: that it neither expanded nor shrank. When his own Theory of General Relativity clearly showed that the universe should expand or contract, Einstein chose to introduce a new ingredient into his theory. His



Rocky Kolb

Wednesday, March 16

Italian Wedding with Meatballs

Diner Style Patty Melt \$4.75

Southern Fried Chicken \$3.75

Beef & Broc \$3.75

Greek Chicken Panini with Feta Cheese

\$4.75

Sicilian Style Pizza \$2.75

Grilled Chicken Bowtie in a Tomato

Cream Sauce \$4.75

The Wilson Hall Cafe now accepts Visa,

Master Card, Discover and American

Express at Cash Register #1.

[Wilson Hall Cafe Menu](#)

[Chez Leon](#) is now open. Call x4512 to make your reservation.

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educators, "promises to be fun and informational, a great chance to build connections," says Conrad. Seven scientists from all disciplines of neutrino research will cover the breadth of the field.

For more information, go to the [NeutrinoFest website](#). Please RSVP by April 1, 2005 to neutrinfest@nevis.columbia.edu.

- Eric Bland

In the News

FYI: AIP Bulletin of Science Policy News, March 11, 2005 GAO Documents Improvements in Visa Application Process

On February 16, the Government Accountability Office (GAO) released a report entitled, "Border Security: Streamlined Visas Mantis Program Has Lowered Burden on Foreign Science Students and Scholars, but Further Refinements Needed." The title succinctly summarizes the report's main message: Improvements enacted by the Departments of State and Homeland Security have made the visa application process far less burdensome to foreign students and scientists than it was in the wake of the September 11, 2001 terrorist attacks. But the report also points out that some of the improvements have yet to be fully implemented.

[read more](#)

"cosmological constant" represented a mass density of empty space that drove the universe to expand at an ever-increasing rate.

When in 1929 Edwin Hubble proved that the universe is in fact expanding, Einstein repudiated his cosmological constant, calling it "the greatest blunder of my life." Then, almost a century later, physicists resurrected the cosmological constant in a variant called dark energy. In 1998, observations of very distant supernovae demonstrated that the universe is expanding at an accelerating rate. This accelerating expansion seemed to be explicable only by the presence of a new component of the universe, a "dark energy," representing some 70 percent of the total mass of the universe. Of the rest, about 25 percent appears to be in the form of another mysterious component, dark matter; while only about 5 percent comprises ordinary matter, those quarks, protons, neutrons and electrons that we and the galaxies are made of.

[read more](#)

Announcements

EPS High Energy Particle Physics Prizes 2005

The EPS HEPP Board is calling for nominations for the EPS High Energy Particle Physics Prizes in 2005. These prizes include the High Energy and Particle Physics Prize, the Young Physicist Prize, the Gribov Medal and the Outreach Prize. A complete list of prizes and regulations is [available online](#). The deadline for nominations is April 15, 2005. The prizes will be awarded in a ceremony on July 25, 2005 during the International Europhysics Conference on HEPP, Lisbon.

From *BBC News*, March 15, 2005

Public 'must engage with science'

Patricia Hewitt, the UK Trade and Industry Secretary, has called for a greater public engagement with science.

Her statement comes after a public poll showed only 40% of UK adults consider themselves well informed about science.

The Mori poll also revealed that seven out of 10 adults think that the media sensationalises science issues.

[read more](#)

International Folk Dancing

International Folk Dancing has now moved back to the Kuhn Barn on Fermilab's site and will celebrate St. Patrick's Day with some Irish dances on Thursday, March 17. Dancing begins at 7:30 p.m. with teaching earlier in the evening and request dancing later on. Newcomers are welcome and you do not need to come with a partner. Info at 630-584-0825 or 630-840-8194 or folkdance@fnal.gov.

[Upcoming Activities](#)