

## Calendar

### Wednesday, March 1

**11:00 a.m.** Fermilab ILC R&D Meeting - 1 West

Speaker: B. Choudhary, FermilabM

Title: Test Beam Status and Plans

**3:30 p.m.** DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

**4:00 p.m.** Fermilab Colloquium - 1 West  
Speaker: M. Trodden, Syracuse University

Title: Is Cosmic Acceleration Telling Us Something About Gravity?

### Thursday, March 2

**11:00 a.m.** Academic Lecture Series - Curia II

Speaker: S. Parke, Fermilab

Title: The New World of Neutrino Physics – Part II (4th Lecture)

**2:30 p.m.** Theoretical Physics Seminar - Curia II

Speaker: C. Anastasiou, ETH Zurich

Title: LHC Physics and Challenges for Perturbative Methods

**3:30 p.m.** DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

**4:00 p.m.** Accelerator Physics and Technology Seminar (NOTE LOCATION) - Curia II

Speaker: K. Ohmi, KEK

Title: Discovery and Mitigation of the Electron Cloud at KEK

## Weather

## Students on MINERvA Will Get to See the End Result

This is the third article in a [series](#) on the MINERvA neutrino experiment.



With a completed half-scale prototype of a MINERvA detector module in the background, postdoc Robert Bradford (left), engineer Robert Flight and grad student Jaewon Park work on another module at the University of Rochester. (Photo courtesy of Richard Baker, University of Rochester; [click for larger version.](#))

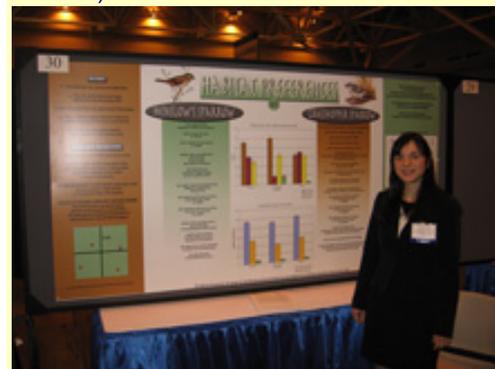
For university students who'd like to work on building an experiment that starts up while they are still students, the close-range, high-intensity MINERvA neutrino experiment is where the action is. "We're doing this quickly," says spokesperson Jorge Morfin of Fermilab. "Students can be involved in all aspects of the experiment in four years, instead of seeing a 10-year development effort."

Most of the 18 collaborating universities are involved in major projects, combined with other groups. Northern Illinois University performs quality control on extruded scintillator bars. Hampton University and the College of William and Mary are assembling scintillator bars into detector planes, with W&M leading the assembly of scintillation counters. "The goal of the task will be to take the 25,000

## Fermilab Intern Shows Work at 2006 AAAS Poster Session



Kristen Maier, Fermilab Pre-Service intern (left), speaks with DOE Office of Science director Ray Orbach at the AAAS conference. ([Click on image for larger version.](#))



Maier's research identified preferred habitats of Henslow's and Grasshopper Sparrows. You can see Maier's poster in the atrium of Wilson Hall, near the pendulum, now through March 10. ([Click on image for larger version.](#))

When Pre-Service Teacher Intern Kristen Maier was measuring grass on the Fermilab prairie last summer, she had no idea her work would land her in wintry St. Louis for a poster session at a distinguished scientific meeting. Maier's research, which was conducted at Fermilab and focused on Henslow's Sparrow and Grasshopper Sparrow habitat, was shown in the American Academy for the Advancement of Science (AAAS) student poster session on February 17, along with research done by 13 other Office of Science interns from across the nation. The



Light Drizzle 43°/31°

[Extended Forecast](#)[Weather at Fermilab](#)**Current Security Status**[Secon Level 3](#)**Wilson Hall Cafe****Wednesday, March 1**

- Vegetable Beef
- Fish & Chips
- Salmon w/Lemon Pepper
- Country Fried Steak w/Pepper Gravy
- Beef & Cheddar Panini w/Sauteed Onions
- Assorted Personal Sized Pizzas
- Cavatappi Pasta w/Italian Sausage & Tomato Ragu

The Wilson Hall Cafe accepts Visa, Master Card, Discover and American Express.

[Wilson Hall Cafe Menu](#)**Chez Leon****Wednesday, March 1****Lunch**

- Chicken Enchiladas
- Mexican Rice
- Confetti Salad
- Pineapple Flan

**Thursday, March 2****Dinner**

BOOKED

[Chez Leon Menu](#)

Call x4512 to make your reservation.

**Search**

scintillator bars in the detector and assemble them into robust, light and tight assemblies," says W&M's Jeff Nelson. The University of Rochester is providing fiber optics for light collection and readout; assembly and response tests of detector modules; and reconstruction software. Two universities in Peru, Pontificia Universidad Catolica del Peru and Universidad Nacional de Ingenieria, are also working on reconstruction software. So is the University of California-Irvine, which will also provide the data acquisition system. The University of Pittsburgh is providing front end electronics and calibration systems. The University of Minnesota-Duluth is running the test beam.

The photomultiplier tube effort is multifaceted, with the University of Athens, Greece, and James Madison University of Virginia measuring the response of the tubes. Rutgers and Tufts Universities will constructed "dark boxes" to shield the tubes from light and from the magnetic field of the nearby MINOS near detector. Tufts is also involved in calibration systems with Pittsburgh and neutrino generators with Cal-Irvine. Hugh Gallagher of Tufts and Dave Casper of Cal-Irvine are the primary authors of two widely-used, publicly-available neutrino interaction generators, NEUGEN and NUANCE, and they're developing the next generation of generators with Donna Naples of Pittsburgh.

"The organization charts of our project managers, Debbie Harris and Nancy Grossman of Fermilab, show lines that cross time zones and continents," says spokesperson Kevin McFarland of Rochester. "But the many phone and video meetings can lead to a 'Eureka'

research was chosen from over 650 projects in the DOE-funded internship program that encourages undergraduates and future science teachers to conduct field work with professional scientists for 10 weeks.

"I did a study about sparrows, and made a unit about birds that revolved around my summer research at Fermilab," said Maier. "I had no idea that the research would be presented at the conference until later." With help from lab ecologist Rod Walton and from physicist and bird expert Peter Kasper, Maier identified sparrows on site, measured habitat characteristics where she found them, and conducted statistical analyses in order to determine how to best manage the grassland for these rare birds. "It was a fair bit of work. Kristen chose spots with a random number generated on a map, then when through long grass in the middle of summer to identify these birds and measure the vegetation characteristics," said Kasper.

"We had a great time at the poster session," said Spencer Pasero, the Fermilab Education office internship manager who attended the conference. Pasero says that Kristen's work is being reviewed for possible publication in the 2006 *Journal of Undergraduate Research* this summer. "We are all very proud of her," he said.

—Siri Steiner

**Announcements**

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moment where a collaborator from Pittsburgh and a Fermilab engineer share a key insight with a group in Boston. Then you realize that those disembodied voices from all over the world make an awfully good team."

—Mike Perricone

**Next week: nuclear physics involvement**

### Photo of the Day



**30 years of service:** These employees have worked at Fermilab for 30 Years or more.

Bottom row: M. Hrycyk, M. Frett, J. Smedinghoff, S. Merkle, C. Hess, D. Miller, C. Wheeler, Sr., D. Wallace. Top row: A. Tollestrup, R. Brooker, I. Gaines, J. Kalina, J. Appel, J. Kedzierski, J. Steinhoff, W. Bardeen, D. Schoo, B. Chrisman (representing the Directorate). (Click on image for larger version.)

### In the News

***The Beacon News Online, February 25, 2006:***  
**'Hands-On Science' is a big hit with kids**

OSWEGO — Does a ball traveling down a spiral incline go at a constant speed?

"I don't know. But I liked the twirly part."

That's what one first-grader had to say about the gravity accelerator at a "Hands-On Science" event this month at Prairie Point Elementary School.

### Murder Mystery Dinner Theater Discount Tickets

Murder Mystery Dinner Theater at the Milk Pail Restaurant & Entertainment Complex in East Dundee presents "Un-Luck of the Irish" on March 18 at 7:00 PM. A perfect way to celebrate St. Patty's Day with friends...a murder mystery full o' fun! Reserve your seats today! Save \$10.00 per Person. Ticket price includes dinner, show, tax and gratuity. Deadline to order tickets is Noon on March 15. Order forms can be found in the Recreation Office or on the [website](#).

### International Folk Dancing

International Folk Dancing will meet Thursday, March 2, at Kuhn Barn on the Fermilab site. Dancing begins at 7:30 p. m. with teaching and children's dances 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](mailto:folkdance@fnal.gov).

### Imapserver1 Downtime March 2

Imapserver1 will be down for maintenance on Thursday, March 2, from 6A a.m. to 7 a.m. Users on imapserver1 will not be able to access their email either via IMAP or webmail during this outage. During this time, both CPUs in the server will be replaced. It is suspected that the CPUs caused the server to crash earlier this week.

### English country dancing

The next meeting of English country dancing will be this coming Sunday, March 26, at 2 p.m. in the Kuhn Barn. All dances are taught and walked through, and you do not need to come with a partner. Info at 630-584-0825 or 630-840-8194 or [folkdance@fnal.gov](mailto:folkdance@fnal.gov).

More than 180 teachers, administrators, parents and students from across the Oswego School District participated in the evening of fun and learning.

Families from Prairie Point , The Wheatlands, Homestead, Old Post, Lakewood Creek and Churchill elementary schools took part in the event, sponsored by the PACE parent organization.

[Read More](#)

**Professional Development Schedule:**

March 1: Word Tips, Tricks and Techniques

March 6: Interpersonal Communication Skills

March 7 (am): Excel Pivot Tables

March 7 (pm): Word Mail Merge

March 8: Excel 2003 Advanced

March 14: Excel Power User / Macros

March 15 - 17: Basic Perl Programming

March 21 & 22: Intro to Dreamweaver MX

[More information](#)

**[Upcoming Activities](#)**