

Calendar

Wednesday, February 22

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

Speaker: D. Sarno, Perspectives Group
Title: ILC Communication in the Neighborhood

11:00 a.m. Computing Techniques Seminar - FCC1

Speaker: D. Thain, University of Notre Dame

Title: Enabling Data Intensive Science with Tactical Storage Systems

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

4:00 p.m. Fermilab Colloquium - 1 West
Speaker: M. Klawe, Princeton University
Title: Gender, Lies and Video Games: The Truth About Females and Computing

Thursday, February 23

11:00 p.m. Academic Lecture Series - Curia II

Speaker: S. Parke, Fermilab
Title: The New World of Neutrino Physics – Part II (2nd Lecture)

1:30 p.m. Theoretical Physics Seminar - Curia II

Speaker: A. Delgado, CERN
Title: Can the Higgs Be Supersymmetric and Composite?

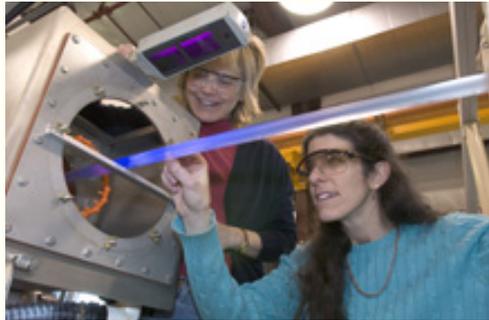
3:30 p.m. DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

4:00 p.m. Accelerator Physics and Technology Seminar - 1 West
Speaker: V. Ivanov, Stanford Linear Accelerator Center

Title: Computational Models, Algorithms and Computer Codes in Accelerator Physics

MINERvA Recycling Effort Taps Many Lab Resources

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



Anna Pla-Dalmau (left) is the leader of PPD's Scintillation Detector Development group, which has produced the scintillator for MINOS and Japan's K2K experiment. She and project manager Debbie Harris are examining scintillator for MINERvA. ([Click image for larger version.](#))

Recycling is a key part of the prototyping for MINERvA, the point-blank, high-intensity neutrino experiment that will operate in the NuMI Near Hall. For example, the "veto wall," which identifies neutrino events by determining whether they came from the front of the detector, comes from the old NuTeV experiment. "We're borrowing a lot of technology from a lot of different places," says project manager Debbie Harris of PPD's Neutrino Department.

There are many resources open to borrowing at Fermilab, with significant overlap from university contributions. The veto wall is being refurbished at the University of Rochester, and then will be returned to Fermilab for MINERvA. The huge steel rails used to hold components of the MINOS near detector while they were being constructed at New Muon

Meet Dr. Baker, Medical Director of Neutron Therapy



Dr. Katherine Baker is the medical director of Neutron Therapy at Fermilab. ([Click on image for larger version.](#))

In December 2005, Dr. Katherine Baker joined the Northern Illinois University Institute for Neutron Therapy at Fermilab (NIUINT at Fermilab) as the new medical director. Dr. Baker is assisted and advised by Dr. Kurubarahalli Saroja, also a recent hire. Both are members of the Nuclear Oncology Service Corporation.

A Wisconsin native, Dr. Baker attended medical school at the University of Wisconsin-Madison and completed a residency at Rush University Medical Center in Chicago. Neutron therapy, she says, "was something I had always learned about in my residency. When I was doing my training, Dr Saroja would come over and give us lectures about it. It was something all the residents in my program were exposed to." Her appointment at NIUINT at Fermilab is her first directorship since becoming a nuclear oncologist. "Right now the most standard area for neutron therapy is with salivary gland tumors and sarcomas; we can really see big benefits there," she

WeatherMostly Sunny **41°/25°**[Extended Forecast](#)[Weather at Fermilab](#)**Current Security Status**[Secou Level 3](#)**Wilson Hall Cafe****Wednesday, February 22**

- Portabello Harvest Grain
- Santa Fe Chicken Quesadilla
- Garlic Herb Roasted Pork
- Beef Stroganoff
- Triple Decker Club
- Meatlover's Pizza
- Pesto Shrimp Linguine w/Leeks & Tomatoes

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

[Wilson Hall Cafe Menu](#)**Chez Leon****Wednesday, February 22****Lunch**

- Asian Marinated Flank Steak
- Jasmine Rice
- Pea Pods & Water Chestnuts
- Orange Flan

Thursday, February 23**Dinner**

- Steamed Mussels
- Pork Tenderloins w/Madeira Sauce
- Sweet Potatoes
- Profiteroles

[Chez Leon Menu](#)

Call x4512 to make your reservation.

Lab will be used to hold the frames of the MINERvA detectors. The photomultiplier tubes are the same design as those used in MINOS, so all that's required is purchasing more of them. The "trip chips," which digitize the signals coming from the photomultiplier tubes, will be the same as those used at DZero.

At the heart of MINERvA are the scintillator bars, the "active medium" forming the primary target for the scattering of neutrinos. The triangle-shaped scintillator bars are being made at the 70-foot extruder for scintillating plastic at Lab 5, operated jointly by Fermilab and the Northern Illinois Center for Accelerator and Detector Development. Jim Kilmer of PPD's Mechanical Department is determining the best kinds of steel for "partly instrumented" components holding scintillator inside, and for a leakproof exterior. Bob Bradford of the University of Rochester is figuring out how to bring steel and scintillator components together. "All the work is connected and sometimes it's hard to make distinctions," says Harris. "There is very extensive university participation in MINERvA."

—Mike Perricone

Next week: Universities' participation**In the News****University of Liverpool Press Release, February 21, 2006:****Physicists step closer to understanding origin of the universe**

The world's largest particle detector is nearing completion following the construction of its 'endcap' at the University of Liverpool

says. "A potential area that's not as well developed would be to look at neutron therapy in glioblastomas." NIUINT at Fermilab currently treats salivary gland tumors, advanced prostate cancer, head and neck cancers, melanoma, and sarcomas, while the effectiveness of neutron therapy for glioblastomas (brain tumors) may be a possible focus of future research.

When she's not busy with work, much of Dr. Baker's free time involves her husband and her three children, ages 7, 5, and 11 months. She also likes to cook, especially Italian, and "to exercise when I get a chance, biking, hiking, and swimming," she says.

— Dawn Stanton

Announcements**Submit URA Thesis Award****Nominations before March 1**

Nominations for the 2006 award must be submitted to [Steve Wolbers](#) by March 1, 2006, and should include a letter supporting the merits of the thesis being nominated. To qualify, the thesis must have been submitted as partial fulfillment of the Ph.D. requirements during 2005; it must be written in English, and submitted in electronic form to the Fermilab Publications Office in accordance with Fermilab policy.

Printer Down

The site wide print server, FNPRT will be inaccessible on Thursday, February 23 from 6:00am-8:00am due to a software upgrade.

PC Manager Meeting Today

There will be a PC manager meeting from 9-10 am today in WH8X0. The

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Its assembly of advanced apparatus, at the University's Semiconductor Detector Centre, has been a joint effort by physicists, engineers and technicians from the Universities of Liverpool, Glasgow, Lancaster, Manchester and Sheffield as well as Daresbury and Rutherford Laboratories.

The endcap is part of a semiconductor tracker (SCT) based at the heart of ATLAS - a giant particle detector the size of a five-storey building. The SCT will become part of the world's largest particle accelerator – the Large Hadron Collider (LHC), based at CERN, the European Centre for Particle Physics Research, in Switzerland.

The LHC is being constructed 100 metres underground in a 16-mile long circular tunnel, running under the Franco-Swiss border. Inside the tunnel two particle beams will be accelerated to extremely high energies, and will crash into each other forty million times a second, creating a snapshot of conditions that existed billionths of a second after the 'Big Bang'. ATLAS, the culmination of 15 years' work by over 150 European institutions, aims to find the Higgs particle that holds the key to understanding the origin of mass.

[Read More](#)

agenda includes Windows policy, licensing (Microsoft training points), security (Microsoft patch Tuesday update), email (anti-spam update) and cool tool of the month (open to suggestions).

International Folk Dancing

International Folk Dancing will meet Thursday, February 23, 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.

Unix Users Meeting

There will be a Unix users meeting at 1:00 p.m. on Wednesday, February 22 in Curia II . Nicole Gee will talk about the training program coordinated by her department, Kevin Hill will talk about 'Graylisting,' Security will talk about the latest news, and Connie and Troy will talk about Linux updates.

English country dancing

The next meeting of English country dancing will be this coming Sunday, February 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.

[Upcoming Activities](#)