

## Calendar

### Tuesday, February 28

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

Speaker: S. Parke, Fermilab

Title: The New World of Neutrino Physics - Part II (3rd Lecture)

**2:30 p.m.** Theoretical Physics Seminar - Curia II (NOTE DATE)

Speaker: L-T. Wang, Harvard University

Title: New Physics and the LHC Inverse Problem

**3:30 p.m.** DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

### 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?

## Weather



Partly Cloudy 41°/31°

[Extended Forecast](#)

[Weather at Fermilab](#)

## Current Security Status

## Lederman Fellows: Bringing Physics to the Community



Bonnie Fleming (right, glasses) makes cryogenic ice-cream with the Girls' Scientific Salon she helped launch when she was a fellow. ([Click on image for larger version.](#))

During Leon Lederman's 11-year term as lab director, he worked hard to get the public excited about high-energy physics. So when Lederman stepped down in 1989 and the lab created a fellowship in his honor, it was fitting that the new program be driven by an outreach-oriented goal: to make exceptional Fermilab postdocs into teachers. "The Lederman Fellowship seeks the best possible researchers with a passion for education and outreach," said Vaia Papadimitriou, Fermilab physicist and program chair. "It takes a very special person to give more than 100 percent to their research and also make time for teaching."

But don't let the emphasis on exceptional original research fool you; the outreach portion of the fellowship is not taken lightly. Fellows teach Saturday Morning Physics classes, prepare educational booklets, give tours and lectures, train elementary school teachers, provide career counseling for undergraduates

## Director's Corner

### Play in Three Acts

The budget process that determines the funding for our programs is quite complex. For the current fiscal year, FY2006, we do not yet know the exact budget for the laboratory since the final adjustments



have not been made.

Pier Oddone

At the same time, the President's proposed budget for FY2007 starting October 1 of this year is out in the public domain. Many changes in that budget could still occur before Congress appropriates the funds for the HEP program late in the year. In the meantime, the internal preparations and debates within the agency have started for the formulation of the FY2008 budget that the President will announce less than a year from now. Thus, for our laboratory at this time of the year there are three budgets in play with different levels of uncertainty. Many of the details of the budgets for the three fiscal years are coupled to each other as they support programs and projects that last over several years.

We are fortunate that a great deal of thought and planning by the agency goes into the budget formulation and into the optimization of the program as time goes on. It is not surprising that adjustments are being made even now for the FY2006 laboratory budget.

Yesterday all the senior managers of the

[Secou Level 3](#)**Wilson Hall Cafe****Tuesday, February 28**

- Tomato Bisque
- Lemon Pepper Club
- Burgundy Beef Tips
- Baked Fish Creole over Rice
- Grilled Chicken Caesar Wrap
- Supreme
- Rio Grande Taco Salads

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.

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and initiate brand new outreach programs at the lab--and those are just a handful of past fellows' accomplishments. Former fellows say there is a high return for all the work involved. "When you teach something, you understand it better. You also learn to communicate your research with non-scientists--and that's something you carry with you for the rest of your career," said Papadimitriou, who served as the first fellow. "The fellowship was great preparation for a career in education," said Timothy McKay, a professor at the University of Michigan and 1992-95 fellow. Fermilab physicist and former fellow Leo Bellantoni explained why he thought the program was important: "Human curiosity isn't satisfied just because researchers discover something new, you've got to spread it around," he said.

Lederman Fellows can choose from a wide variety of experiments and accelerator research for their post-doctoral work. For more information about the Lederman Fellowship program, or to apply, go to the [program website](#).  
—*Siri Steiner*

**SLAC Today: New Daily Publication Launches**

If you're interested in what happens when electrons collide with positrons, or what *really* happens when molecules make and break bonds, you can check out a new online publication--[SLAC Today](#)--sent straight from the source. With experiments ranging from the LCLS, which will capture chemical reactions in "real time," to a particle collider housed in the longest building in the world, the Stanford Linear Accelerator Center's new publication is bound to be interesting.

laboratory traveled to DOE in Germantown to make our annual presentation to the agency on the budget scenarios for the laboratory. While this was the kick-off meeting for the budget planning process for FY2008, we discussed all three budget years. We received many questions and had lively discussions. The meeting provided us with the opportunity to arm our program managers with all the facts they need to represent the program successfully in the internal competition for funds within the agency. For our part we learned from them what parts of our programs are easy to sell and what parts are harder. This allows us to formulate our program in the optimal way to win support as we move forward in the process.

**Accelerator Update****February 24 - 27**

- Operations turned off all the machines at 00:01 hours on Sunday, February 26.
- The shutdown officially began at 00:00 hours on Monday, February 27.

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

**Announcements****Scottish Country Dancing**

Scottish Country Dancing will meet today, February 28, at Kuhn Barn on the Fermilab site. Instruction begins at 7:30 p. m. and newcomers are always welcome. Most dances are fully taught and walked through, and you do not need to come with a partner. Info at 630-840-8194 or 630-584-0825 or [folkdance@fnal.gov](mailto:folkdance@fnal.gov).

**Message From Visual Media Services: Get Requests in Early**

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## Milestones

### **Bernie Dugan, EAP Coordinator Retires**

Bernie Dugan, Employee Assistance Program coordinator since October 1992, retires today. The EAP will be suspended until an outside contractor assumes her job in the near future.

## In the News

### ***William and Mary News* February 23, 2006:**

#### **Energy secretary gets lesson from grad student**

Stephanie Bailey, a doctoral student in physics at the College, gave a presentation on nuclear-physics research to U.S. Secretary of Energy Samuel W. Bodman during his visit to the Jefferson Lab in Newport News on Wednesday, Feb. 22.

Secretary Bodman and his entourage heard a short explanation of the G0 (pronounced G-zero) project, an ambitious investigation of the subatomic particles known as quarks under way in Hall C of the Jefferson Lab. Specifically, G0 is examining the contribution of the strange quark—one of the six known varieties of quarks—to the electric and magnetic properties of the proton.

[Read More](#)

the services we provide with a reduced production team. We now ask that all duplication jobs be submitted through the Visual Media Service customer service desk located in Wilson Hall ground floor northwest. We will no longer staff Duplicating for walk-in business. This will mean more lead time for projects. We appreciate as much lead time as you can give us. Our normal turn around is 5 working days on all jobs. We have had this in place for 15 years. If something needs to be completed in a rush please let us know and we will determine if we can meet that deadline.

### **Budker Seminar Series**

"The CANDLE Project & Future Activities" with speaker Artur Paytyan, of Yerevan University & Fermilab, tonight, February 28 at 6:00 p.m. in the User's Center Music Room.

### **Baseline Neutrino Workshop**

Fermilab and BNL are planning a joint study on possible very long base-line neutrino experiments using an upgraded proton source at Fermilab. This study would consider physics opportunities for exploring neutrino masses and mixings at a follow-up experiment to the first phase of NOvA and/or at DUSEL. A kickoff workshop and organizational meeting will be held at Fermilab on March 6-7, 2006. We invite active participation from all interested parties. Information about the workshop is now available [online](#). There is no registration, but it would help our planning if you would indicate your intention to attend to [crae@fnal.gov](mailto:crae@fnal.gov). For information, contact Hugh Montgomery ([mont@fnal.gov](mailto:mont@fnal.gov)) or Sally Dawson ([dawson@bnl.gov](mailto:dawson@bnl.gov)).

### [Upcoming Activities](#)

