

Calendar

Tuesday, June 8

Noon Summer Lecture Series - 1 West

Speaker: M. Witherell, Fermilab

Title: Discoveries Ahead in Particle Physics

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

Wednesday, June 9

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

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

Speaker: C. Martin, California Institute of Technology

Title: The Galaxy Evolution Explorer: Results from the First Year

Wilson Hall Cafe

Tuesday, June 8

Creamy Turkey Vegetable Soup

Popcorn Shrimp Hoagie \$4.75

Salisbury Steaks w/Mushroom Au Jus \$3.50

Blackened Chicken Rotini in Cajun Cream Sauce \$3.75

Smoked Turkey Breast on Homemade Focaccia \$4.75

Philly Cheese Stromboli \$2.75

Chipotle Chili & Queso Nachos Supreme \$4.75

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Weather

Records Galore

In the last two weeks the Tevatron has achieved its five best stores ever. Last week, the integrated luminosity per week amounted to 13.4 inverse picobarns (a record), and the MiniBooNE experiment received over the course of the week a record 8.4E18 protons on target, an 11 percent increase over the previous best mark. This week began with a record, too. On Monday the Tevatron achieved a new peak luminosity record of $7.7E31 \text{ cm}^{-2} \text{ sec}^{-1}$. Congratulations.

[Luminosity charts](#)

Lab Visit an Education for OMB Examiner Joel Parriott



OMB Science Program Examiner Joel Parriott (left) gets some pointers in the Main Control Room from Head of Operations Bob Mau. Looking on are Steve Holmes and Jeff Appel (partially hidden).

As Science Program Examiner for the Office of Management and Budget, Joel Parriott knows all about budget documents. He also knows they're not the whole story.

"The goal of a trip like this is to educate myself," Parriott said during his first visit to Fermilab. "In Washington, I can read budget documents that are an inch-and-a-half thick, and I can learn a certain

Director's Corner

Good Morning!

The news from the accelerators has been remarkably good lately, with new records every day. The integrated luminosity delivered to the collider experiments last week was a record



Mike Witherell

13.5 pb⁻¹, 50% more than the best achieved one year ago. Initial luminosities have been routinely greater than $6.0 \times 10^{31} / \text{cm}^2\text{-s}$, and yesterday's store set the latest record at 7.7, 70% more than one year ago. Meanwhile, as a result of successful studies, accelerator experts are ready to try out a new mode of operation in which antiprotons from the Accumulator and the Recycler will circulate in the Tevatron simultaneously.

On another front, a record number of 8.4×10^{18} Booster protons hit the MiniBooNE target last week. Successful studies on how to reduce the beam losses per proton have made it possible to increase the intensity.

The continuing campaign of accelerator operations, studies, and upgrades has led to continuous increases in the rate at which the experiments can collect data. We have 11 weeks of accelerator operation left before the annual accelerator shutdown starts. The long list of upgrade and maintenance work scheduled for that shutdown will make possible further improvements in accelerator performance next year.



Chance Thunderstorms 89°/70°

[Extended Forecast](#)

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amount from them. But I think of myself as a visual learner, and now when I read those budgets [about Fermilab], I have images to attach to the numbers."

The OMB is part of the Executive Office of the President, and Parriott oversees the entire Office of Science budget. He headed back to Washington following the visit, but he will soon visit Oak Ridge National Lab, Pacific Northwest National Lab, and Thomas Jefferson National Accelerator Facility. He noted that he is the first OMB examiner ever to visit Ames Lab, "and I was proud to be there."

The all-day orientation began with an overview of the site from the 15th floor of Wilson Hall, followed by a discussion of the lab program with Director Michael Witherell, Associate Director for Accelerators Steve Holmes, Assistant Director for Programming Jeff Appel, and DOE Fermi Area Manager Jane Monhart. Parriott followed with tours of the pre-accelerator and Main Control Room, the LHC magnet factory, CDF and NuMI. Earlier in his career, as a staffer for the National Research Council of the National Academy of Sciences, he had worked on the Neutrino Facilities Assessment Committee.

"When I was in college, I went to the Soudan mine," Parriott said. "It was good to see the other end of the experiment here."

Parriott wrapped up his tour by accompanying Witherell to the All-Experimenters' Meeting, for the news about luminosity records set during the past week.

"Joel knows he has an open invitation to

Correction

Yesterday's article, "Volunteers Needed for Minos Building Landscaping," stated Rod Walton is a member of ES&H. Rod Walton is actually a member of FESS. *Fermilab Today* regrets the error.

Accelerator Update

June 4 - June 7

- During this 72 hour period Operations established two stores that provided approximately 44 hours and 52 minutes of luminosity to the experiments.
- TeV store aborted, cause still under investigation
- Recycler stashed antiprotons
- Accelerator experts conduct studies for mixed mode antiproton transfers later this week

[View the current accelerator update](#)

[View the Tevatron Luminosity Charts](#)

In the News

FYI: AIP Bulletin of Science Policy News, June 7, 2004 Amendment on Scientific Advisory Process Rejected

Two House members recently proposed an amendment to create an independent commission to study charges that the Bush Administration has politicized scientific advice. The amendment to H.R. 2432, the Paperwork and Regulatory Improvements Act, introduced by Reps. Henry Waxman (D-CA) and John Tierney (D-MA), was rejected by a vote of 201-226 on May 18. Most members voted along party lines, with one Republican voting for the amendment and five Democrats voting against it.

[read more](#)

visit Fermilab any time," Witherell said.

Successful Ask-A-Scientist



Adam Yurkewicz of Fermilab's DZero experiment was one of three scientists who answered visitors' questions on Sunday.

(Click on image for larger version.)

More than 50 people traveled to Fermilab on Sunday, June 6 to attend this month's Ask-A-Scientist program. The Accelerator Division's Dave Peterson kicked off the afternoon with a talk in One West on "Accelerators in Your Home." Peterson discussed how televisions, microwave ovens, smoke detectors and cell phones are similar to the machines and electronics used at Fermilab. After the talk, participants traveled in groups to three activities: a question-and-answer session about accelerators with Peterson, who also provided visitors a hands-on experience with old, dissected cell phones; a tour of the Linac led by docents Bill Welch, Anne Mary Teichert and Lisanne Canal; and a tour of the 15th floor, where Fermilab scientists Mike Albrow, Greg Davis and Adam Yurkewicz were available to answer questions.

The next Ask-A-Scientist program will take place on July 11 from 1:00-4:00 p.m. The opening talk, "Welcome to Fermilab," will be presented by Chuck Brown of the Accelerator Division. Registration is required; contact Nancy Lanning at

Announcements

SPIRES List of Most Cited Papers

The SPIRES all-time list of the papers most often cited by astro-physics eprints has been released, including an overall review by Scott Dodelson, Head of the Fermilab Theoretical Astrophysics Group. Dodelson identifies several prominent themes in the last decade of research in astrophysics and explains why these papers have been so important to their development. Fermilab papers appear at numbers 2, 8, 28 and 43 on the list.

[more information](#)

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