

Calendar

Wednesday, October 13

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. Fermilab Colloquium - 1

West

Speaker: J. Shaevitz, University of California, Berkeley

Title: Nature's Nanomachines: The Physics of Biomolecular Motors

Thursday, October 14

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

Speaker: D. Kosower, Saclay

Title: From Twistors to Computations

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

Wilson Hall Cafe

Wednesday, October 13

Vegetable Beef soup

Quarter Pound Hot Dog in a Soft

Pretzel Roll \$4.75

Stuffed Peppers \$3.75

Country Fried Steak with Pepper Gravy \$3.75

Beef & Cheddar Panini with Sautéed Onions \$4.75

Assorted Personal Sized Pizzas \$2.75

Cavatappi Pasta with Italian Sausage & Tomato Ragu \$4.75

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Weather

Proton Driver Workshop Wraps Up; Organizers Prepare Summary Report



More than 120 people attended last week's Proton Driver workshop. ([Click on image for larger version.](#))

At the end of four days spent exploring the new physics that could emerge from a more intense proton source, participants in the Proton Driver workshop wrapped their work up Saturday with briefings from the convenors of the six working groups.

"There were certainly things that came out stronger than I could hope for," said organizer Steve Geer. "There clearly is a lot of physics that can be done at a proton driver."

The working groups were Neutrino Oscillations; Neutrino Interactions; Muons; Kaons and Pions; Antiprotons; and Tevatron Collider. Each of the convenors will now have a month to produce a report from their working group. Geer will then summarize the results into one report, and hand it over to an independent committee of 15 reviewers appointed by Fermilab.

"Steve [Geer] is in charge of taking individual contributions from the

In the News

DOE Press Release, October 12, 2004

DOE-Funded Research Projects Win 36 R&D 100 Awards for 2004

WASHINGTON, DC –

Secretary of Energy

Spencer Abraham

today announced

that researchers at

Department of

Energy (DOE)

national laboratories and companies

with research funded by DOE have

won 36 of the 100 awards given this

year by R&D Magazine for the most

outstanding technology developments

with commercial potential.

The R&D 100 Awards recognize the

most promising new products,

processes, materials, or software

developed throughout the world and

introduced to the market the previous

year. Awards are based on each

achievement's technical significance,

uniqueness and usefulness compared

to competing projects and

technologies.

[Read more](#)

Accelerator Update





Chance Showers 61°/46°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

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working groups and putting them together in a document," said Princeton University's Peter Meyers, who heads the Fermilab Proton Driver Scientific Advisory Committee. "We're looking forward to seeing him and the convenors refine the ideas that emerged from the workshop, to see if a strong physics case emerges."

Geer and Meyer plan to present their respective findings to Director Michael Witherell by the end of the year. The laboratory will then decide whether to submit documentation to the DOE establishing "mission need," to make its case for a Critical Decision 0 - the first step toward a major new project.

More than 120 people attended the Proton Driver workshop, half of them from Fermilab.

Notes from the September UEC Meeting

The User's Executive Committee welcomed newly-elected members Andrew Alton (Michigan), Marina Artuso (Syracuse), Iain Betram (Lancaster), David Finley (Fermilab), Richard

Hughes (Ohio State) and Hogan Nguyen (Fermilab) at its September 11, 2004 meeting.

William Trischuk (Toronto) was elected as chairperson,

succeeding Sharon Hagopian (Florida State), who will continue as Emeritus Chair. Fermilab Director Michael Witherell discussed the status of the



**Newly elected UEC
Chair William Trischuk**

October 1-October 8

- Linac: All work should be completed and the machine ready for beam by October 12 or 13.

-Booster: All work should be completed and the machine ready for beam by October 14 or 15.

-Antiproton Source: The ARF1-1 installation is about 95% complete.

-Main Injector: The LCW system is up and running.

-Tevatron: The E2, F2, & F3 conning tower work has been complete.

-MiniBoone: The Horn replacement is behind schedule by one week due to many problems.

[Read the Current Accelerator Update](#)

[View the Tevatron Luminosity Charts](#)

Announcements

Power Outage News

Tevatron Tunnel, Service Buildings, Sumps, and Computer Links

October 16 – Power will be off to all of Tevatron for 10 hours starting at 7 AM on Saturday. This outage is for Feeder 45 work.

Kautz Road Substation

October 18 – The power will be off to all of the Main Injector service buildings and tunnel, including MI-12a, MI-12b, MI-13, and MI-65, for one half hour starting at 7 AM.

International Folk Dancing

International Folk Dancing will be held at 7:30 p.m. Thursday, October 14, at the Geneva American Legion Post. Info at 630-584-0825 or 630-840-8194 or folkdance@fnal.gov.

**Fermilab Barnstormers Meeting
Wednesday**

laboratory focusing on FY2005 goals for the Tevatron, the continuation of MiniBooNE in 2005, the startup of NuMI, Fermilab's involvement in the International Linear Collider and the impact of the Linear Collider technology decision. Witherell also discussed the status of NoVA, BTeV and the Proton Driver project. Eric Prebys, head of the Proton Source Division, discussed the present status of the Booster, as well as near and far future plans for improvements in proton output. For more details, the full minutes are [available online](#).

The Fermilab Barnstormers, Model Aeronautic Club, will have its next meeting on Wednesday, Oct. 13 at 5:30 p.m., at the Frelø Flying Field. Meetings are held on the second Wednesday of each month. The club will meet in the Users Center if it rains. New members welcome! Current members fly control line, R/C gas and electric planes. The club also has members who fly helicopters! Try out the trainer club plane, bring something to fly, or come and watch. [more information](#)