

Calendar

Monday, June 27

3:30 p.m. Director's Coffee Break -
2nd Flr X-Over

4:00 p.m. All Experimenters' Meeting -
Curia II

Special Topics: Tevatron Tune Tracker
PARTICLE ASTROPHYSICS SEMINARS
WILL RESUME IN THE FALL

Tuesday, June 28

12:00 p.m. Summer Lecture Series -
1 West

Speaker: J. Lykken, Fermilab

Title: Extra Dimensions

3:30 p.m. Director's Coffee Break -
2nd Flr X-Over

THERE WILL BE NO ACCELERATOR
PHYSICS AND TECHNOLOGY
SEMINAR TODAY

Weather



Haze **94°/70°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Toasts Go To the Tevatron As Fermilab Bubbles Over



Director-designate Pier Oddone and Accelerator Division Deputy Head Peter Garbincius share in the monumental milestone. (Click on image for larger version.)

The Tevatron has advanced from shutdown and upgrades to a consistent run for the money, culminating in Friday afternoon's champagne-and-brownies celebration in the Atrium for achieving one inverse femtobarn (1 fb^{-1}) of integrated luminosity in Run II. Director-designate Pier Oddone marked the official, no-doubts-about-it milestone with a hand-lettered sign citing Store 4223 at 3 p.m. on Friday.

"It's like getting a Nobel Prize for a lifetime of work when you celebrate integrated luminosity," said Oddone, who assumes the directorship officially on July 1. "I can only imagine the years of dedicated work, the sweat, the tears, the curses that went on over the years."

Oddone followed by reading a congratulatory message from Robin Staffin, DOE Associate Director for High Energy Physics, Office of Science. The message began with "We," to which Oddone riposted: "That means, 'I, Robin Staffin.'" The full message from Staffin

Safety Tip of the Week

Summer Heat

Temperature (F) vs. Relative Humidity (%)		
°F	90%	80%
80	85	84
85	101	96

Watch out for humidity! It increases the Heat Index (HI) and the probability of sun stroke, heat cramps, heat exhaustion and fatigue. (Click on image for complete chart.)

This summer is turning out to be hotter than normal. You have probably noticed the excessive number of 90 degree days. On the other hand, you probably missed the fact that the average temperature at Fermilab's weather station is running four degrees ahead of last year for the months of May and June.

The National Weather Service devised the Heat Index (HI) to predict the combined impacts of relative humidity (RH) and air temperature (see above table). It is important to note that the HI assumes shady, light wind conditions. In addition, exposure to direct sunshine can increase HI values by as much as 15°F. Strong winds with hot dry air can also increase the hazard.

Here are some general precautions to help you avoid heat stress:

- Drink plenty of water.
- Wear light, loose-fitting, breathable clothing.
- Take frequent short breaks in air-conditioning or cool shade.

Monday, June 27

Minestrone Soup

Chicken & Mushroom Cheese Steak

\$4.85

Baked Chicken Enchiladas \$3.75

Pot Roast \$3.75

BLT Ranch Wrap \$4.85

Assorted Slice Pizza \$3.00

Chicken Stir Fry \$4.85

The Wilson Hall Cafe now accepts Visa, Master Card, Discover and American Express at Cash Register #1.

[Wilson Hall Cafe Menu](#)

[Chez Leon](#) is now open. Call x4512 to make your reservation.

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read: "We note this important milestone with great pleasure. It's an achievement that everyone at the lab, and the users too, can be very proud of. We look forward to the physics results that will come from this huge dataset. We also hope the lab has plenty of champagne available, because with the Tevatron running so well, the milestones for two, three, four inverse femtobarns are going to start coming quickly over the next couple of years."

Oddone responded: "My reply to Robin was to keep the money coming, and we'll keep the champagne cold."

[Read more](#)

--Mike Perricone



Alvin Tollestrup, part of the original Tevatron effort a quarter of a century ago, grins as he addresses the audience.

(Click on image for larger version.)



Pier Oddone (right) looks on as CDF co-spokespersons Young-Kee Kim (left) and Rob Roser address the crowd (Click on image for larger version.)

- Eat smaller meals before outdoor activity.
- Avoid caffeine, alcohol and large amounts of sugar.
- Be aware that some health conditions and/or medications can increase your susceptibility to heat stress.
- Be aware that some kinds of protective equipment such as respirators or work suits can increase heat stress.

Have a great day and let's work safely all week!

[Safety Tip of the Week Archive](#)

Accelerator Update

June 22 - 24

- During this 48 hour period, operations established one store that combined with an existing store provided the experiments with approximately 11 hours and 36 minutes of luminosity.
- TeV suffers two quenches
- I-Source problems
- Accumulator ground fault
- TeV suffers abort - store lost
- Feeder fault
- 400 MeV chopper trip

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

In the News

From *The AIP Bulletin of Science Policy News*, June 23, 2005

Senate Appropriators Send DOE Science Funding Bill to Floor

The Senate Appropriations Committee has sent its FY 2006 Energy and Water Development Appropriations bill to the floor. Senate Report 109-084 accompanying H.R. 2419 includes a

IMSA Student Experiments at Fermilab, Wins the Gold



Sherry Yu stands with Emanuela Barzi and the team of physicists that helped perform the experiment. (Click on image for larger version.)

Fourteen year old Sherry Yu just finished her sophomore year at Illinois Math and Science Academy, but she has already completed the major research project required of graduating seniors. Working with the Head of the Superconductor R&D lab Emanuela Barzi and her team, Yu tested the superconductivity of a YBCO pellet (Yttrium, Barium, Copper, and Oxygen.) The physicists of the Development & Test Department of the Technical Division helped her immerse the sample in liquid nitrogen and vary the temperature to observe changes in conductivity. Working at the lab was "fun and stressful," said Yu. Grateful for Barzi's help, she joked, "They created everything for me. All I had to do was dunk it in liquid nitrogen."

Although she enjoyed her work at the lab, Yu is not sure what field she would most like to enter. "I'm hoping to keep up with sciences," she said, but noted that she was still far from even choosing a university. Her partner in the experiment, Susan Dittmer, helped write up and prepare the project for the state science fair in Champaign this May. Yu and

strong statement regarding the government funding of the physical sciences, and provides the committee's recommendations for various physics-related programs.

The Senate bill's recommendation for the Office of Science is \$36.6 million higher than the House bill.

[Read more](#)

Announcements

Scottish Country Dancing

Scottish Country Dancing will meet Tuesday, June 28, in Wilson Hall's Ramsey Auditorium, the air-conditioned summer location. 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 folkdance@fnal.gov.

Housing assignments 2005/06

July 1 is the deadline for requests for onsite housing (houses, apartments, and dormitory rooms) for the Fall/Spring of 2005-2006. Requests can be made for any period and need not commence on any particular date. To make reservations, please contact the Housing Office at 630-840-3777 or housing@fnal.gov, or use the [Online Housing Request form](#). Requests for multiple housing units are best handled by email.

New SciTech Exhibit

The SciTech Museum in downtown Aurora presents a new traveling exhibit, "Masters of the Night: The True Story of the Bats." Learn more about these flying mammals and the hundreds of species that exist. The exhibit runs through

Dittmer won the gold prize and will travel to St. Louis in February 2006 for the Nationals.

Already an accomplished student, musician and athlete, Yu will move to the front of the classroom this summer as she teaches 8th and 9th graders—some older than herself—about current scientific problems in America. The students will outline a plan to make the U.S. independent of foreign oil in the next 25 years.

--*Amelia Greene*

September 11. Admission is \$7 and includes the [Outdoor Science Park](#). To obtain a \$1-off coupon, visit the [SciTech website](#).

[Upcoming Activities](#)