

## Calendar

### Friday, July 29

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

BREAK - 2nd Flr X-Over

**4:00 p.m.** Joint Experimental Theoretical Physics Seminar - 1 West

Speaker: B. Petersen, Stanford Linear Accelerator Center

Title: Charm Physics at BaBar

### Monday, August 1

PARTICLE ASTROPHYSICS SEMINARS WILL RESUME IN THE FALL

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

BREAK - 2nd Flr X-Over

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

Special Topic: CDF Silicon Radiation Damage So Far

## Weather



Becoming Sunny **85°/61°**

[Extended Forecast](#)

[Weather at Fermilab](#)

## Current Security Status

[Secou Level 3](#)

## Wilson Hall Cafe

## Fermilab Summer Students: Focus on Mushtari Afroz

With the LHC scheduled to come online in a few years, the four experiments that plan to make their homes at the new facility are furiously preparing. Mushtari Afroz is part of that effort as a summer intern with the Compact Muon Solenoid (CMS) group at Fermilab. By helping to develop CMS' new silicon trackers, she has

the opportunity to be a part of the earliest stages of a particle physics experiment.

"The CMS silicon detectors will be used for particle track reconstruction at the LHC," Afroz explained. In addition to collecting data, the detectors also produce a certain amount of electronic background noise. Currently, the background noise levels vary with each run of the detector. "I'm looking at the variations in the signals to figure out what the acceptance level of background noise should be," Afroz said. Once the acceptance level is determined, the amount of noise will remain constant, and the CMS team will be able to easily disregard it and only study the true signals from particle collisions.

Afroz is beginning her fourth and final year of undergraduate work at the University of Toronto in the fall, and plans to pursue graduate work in experimental particle physics. Her internship, which was organized by Fermilab's Internships for Physics Majors (IPM) program, has



Mushtari Afroz

## Bill Barker's Long Locks Give Hope and New Insight



"A lot of people around the lab don't recognize me now," said Barker. These before and after photos should help those who knew Barker by hair, but not by name.

Bill Barker of Computing Division's Core Support Services kept trying to keep his daughters from cutting their long hair. "It looks so nice," he used to say in vain, as both of his teenage daughters repeatedly grew and cut off 10 to 12 inches of their hair. They donate the hair to Locks of Love, an organization that makes wigs for children 18 and under who suffer from long-term medical hair loss. Finally, his daughters challenged him: "Why don't you try it?" Accepting the challenge, Bill went from September 2003 to this June without a haircut.

In the 21 months Barker spent growing out his hair for Locks of Love, Barker was dubbed Grizzly Adams, Moses, Santa Claus and many other names by friends and colleagues. He found life under all that hair to be a greater challenge than he had bargained for. "It was too hot, too much work," he said. "My shower time in the morning is cut in half now." Although Barker's ponytail had not reached the suggested 10-inch mark by this June, he decided to donate it anyway. "I was tired of having long hair," he recalled. "So I

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Cream of Mushroom Soup  
Blackened Fish Filet Sandwich \$4.85  
Southern Fried Chicken \$3.75  
Fish Mediterranean \$3.75  
Eggplant Parmesan Panini \$4.85  
Pizza Supreme \$3.00  
Assorted Sub Sandwiches \$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

### Lunch

#### Wednesday, August 3

Tri-Colored Tortellini Salad  
Lemon Cheesecake w/Blueberry Sauce

### Dinner

#### Thursday, August 4

Smoked Salmon Plate  
Veal Picatta  
Spinach Fettuccini w/ Tomatoes & Cream  
Chocolate Fondue w/Fruit

[Chez Leon Menu](#)

Call x4512 to make your reservation.

## Info

Fermilab Today is online at:

<http://www.fnal.gov/today/>

Send comments and suggestions to

[today@fnal.gov](mailto:today@fnal.gov)

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[Linear Collider News archive](#)

not only confirmed her love of particle physics, but has also given her invaluable hands-on experience. "I'm starting at the ground level of the project, and will get to see the whole project through," said Afroz, who is one of nine students in the IPM program this summer. Afroz hopes to continue working on CMS in the future, but admits that she is so interested in particle physics that "I will be in this field even if I don't get a job."

--Elizabeth Wade

## In the News

### From the *Daily Herald*, July 28, 2005

#### Open house eases Batavians' concerns

*Electrical project's cost savings, aesthetics give residents peace of mind*  
By Gala M. Pierce

Batavians walked into the city's open house Wednesday night with concerns about the estimated \$20 million cost and the appearance of the new electrical poles.

It appeared residents walked away with an understanding of the projected \$8.9 million savings and how the vistas on the east side of Kirk Road would remain similar.

[Read More](#)

suggested a lot of little ponytails."

Barker regards the experience with satisfaction, although he has no plans to try it again. In addition to appreciating his daughters' dedication, he also learned a lesson in how people perceive others. "Some of the older members of my church were getting a little nervous," Barker said, laughing. "How you look really changes how people react to you."

--Amelia Greene

## Announcements

### New Classifieds on Fermilab Today

New [classified ads](#) have been posted on Fermilab Today.

### 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 September 11. Admission is \$7 and includes the [Outdoor Science Park](#). To obtain a \$1-off coupon, visit <http://www.scitech.museum>.

### Butterfly Walk This Friday

There will be a butterfly walk this Friday, July 29 at noon. Meet at the Prairie Interpretive Trail parking lot off the Pine Street exit. Ten people is a practical limit, so please contact [Tom Peterson](#) if interested.

### [Upcoming Activities](#)

[Fermilab Today classifieds](#)

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