

## Calendar

**Friday, Aug. 31**
**3:30 p.m.**

 DIRECTOR'S COFFEE  
 BREAK - 2nd Flr X-Over

**4:00 p.m.**
[Joint Experimental-Theoretical  
 Physics Seminar](#) - One West

 Speaker: A. Herve, CERN  
 Title: Review of the Design  
 Choices and Construction of  
 the CMS Experiment

**Monday, Sept. 3**

Labor Day Holiday

**Tuesday, Sept. 4**
**3:30 p.m.**

 DIRECTOR'S COFFEE  
 BREAK - 2nd Flr X-Over  
 THERE WILL BE NO  
 ACCELERATOR PHYSICS  
 AND TECHNOLOGY  
 SEMINAR TODAY

[Click here for NALCAL,](#)  
 a weekly calendar with links  
 to additional information.

## Weather


**Sunny 78°/49°**
[Extended Forecast](#)  
[Weather at Fermilab](#)

## Current Security Status

[Secon Level 3](#)

## Wilson Hall Cafe

**Friday, Aug. 31**

- Cream of wild mushroom
- Blackened fish filet sandwich
- Southern fried chicken
- Tuna casserole
- Eggplant parmesan panini
- Assorted pizza slices
- Assorted sub sandwich

[Wilson Hall Cafe Menu](#)

## Chez Leon

## Milestone

### Wyatt passes torch, car keys



Darien Wood (right) is the new DZero co-spokesperson, replacing Terry Wyatt (left). On Wednesday, Wyatt handed Wood the keys to his car before moving back to the University of Manchester in England. Wood, who also took some of Wyatt's furniture, said that he is thrilled to be more involved in the DZero experiment at such a results-rich time. "I am coming at one of the most exciting times, particularly because of the potential for discovery," said Wood, who is associate professor of physics at Northeastern University.

Read the Northeastern University [press release](#).

## Milestone

### Barb Perington retires today

In the 1970s, in the midst of the Cold War, PPD's Barb Perington was explaining to Russians visiting Fermilab how to write checks, get an American driver's license and assimilate into life at the laboratory.

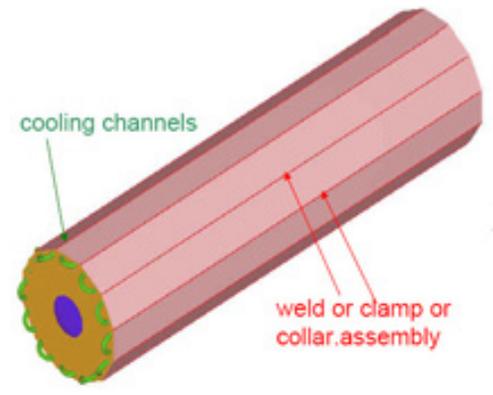
"This group was small. It was their first time to the United States. So you just took them under your wing," Perington said of the lab's first visiting Russian scientists.

After she retires from the lab today, Perington plans to continue in her ambassador role, now as a member of the lab's Auditorium Committee. She also will contribute through the natural volunteer work days.

"I have to be weaned. I can't just quit working," she said. "It would be too much of a shock to

## From ILC Newline

### Texas team proposes new cavity design



View of an assembled polyhedral cavity from the outside.

At Texas A&M University, a team led by Peter McIntyre has developed a new design for superconducting cavities for linear colliders, perhaps even the International Linear Collider. Their polyhedral cavity design, which is only in its beginning stages and requires a significant amount of R&D, could offer such benefits as increasing the accelerating gradient and making the cavities more cost-efficient.

In the new design, the traditional smooth shape of the cavity is replaced by a polyhedral shape, made up of 12 contoured strips. Unlike traditional cavities, each one of McIntyre's cavities would be built as strings, not individual cells. To build each nine-cell cavity string, scientists would start with a continuous flat strip of niobium with copper on the underside and bend it into the contoured nine-cell shape. They would then bond the superconducting foil to a copper bar and cut it into a wedge. "What you've done is made a pie slice of a string of cavity cells," McIntyre says. "Now you take the 12 slices and stack them around in a symmetric way to form a cavity."

[Read more](#)

-- *Amelia Williamson*

## Milestones

**Wednesday, Sept. 5**

**Lunch**

- Cumin and chipotle glazed pork loin w/apple salsa
- Roasted sweet potatoes
- Pear tart

**Thursday, Sept. 6**

**Dinner**

- Tomato & mozzarella salad
- Stuffed fillet of sole w/ crabmeat
- Vegetable medley
- Chocolate soufflé w/amaretto crème anglais

[Chez Leon Menu](#)

Call x4598 to make your reservation.

**Archives**

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[Result of the Week](#)

[Safety Tip of the Week](#)

[ILC NewsLine](#)

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Send comments and suggestions to: [today@fnal.gov](mailto:today@fnal.gov)

the system."

In her 37 years at the laboratory, Perington watched it grow from a small group of researchers forging big science out of a small farm town to the world's top high-energy physics laboratory.

She was part of the laboratory's first experiment, E36, with the Internal Target Group and CZero.

"She has helped so many people over the years," said Elaine Phillips, Particle Physics Division support staff department head. "She will be missed for many reasons, and especially for her competence and many kindnesses to employees and visitors alike."

Perington has worked as an administrative assistant with CDF from nearly its inception, most recently arranging foreign travel and registering new collaborations. She regrets she won't see CDF finish its run, possibly in 2009. "It would be nice to be here to the end," she said.

Instead, she'll have to make due visiting the home countries of those she's met at Fermilab over the years. You also may see her traversing the four-mile Tevatron ring or cross country skiing the woods with Fermilab employees as she's done for the last 30 years.

"My working here was an accident, because it was just a six-week assignment, and I had never heard of an accelerator. It was one of the best things that ever happened to me," Perington said. "I can't imagine having worked anywhere else."

--Tona Kunz

**Photo of the Day**

**Congratulations to sand volleyball winners**

**Service awards**

On Aug. 10, service awards were given out for 10, 20, 25 and 30 years of service to the laboratory.



**10 Year Service Award:** Row 1 (from left): Mary Ellen Tolian, Pier Oddone (Directorate) and Leticia Shaddix. Row 2 (from left): Ramon Pasetes, Phillip Cowan and Jin-yuan Wu.



**20 Year Service Award:** Row 1 (from left): Lee Lueking, Robert Bernstein, Pier Oddone (Directorate), Keith Chadwick and Andrew Romero.



**25 Year Service Award:** Row 1 (from left): Brian Chase, Martin Valenzuela, Pier Oddone (Directorate), Michael Coburn and Raimundo Fonseca.



Team Sidorov won the outdoor Recreational Summer Volleyball League with a final record of 24 wins and 5 losses. The final game took place Tuesday, Aug. 14, at the sand courts behind the village pool.

### In the News

## Particle physics: Fermilab proposes way station on the road to the ILC

From *Science*, Aug. 31, 2007

Facing an uncertain future, officials at the last dedicated particle physics lab in the United States have developed a backup plan in case their grand ambition to host a gargantuan international collider were seriously delayed.

Under the plan, researchers at Fermi National Accelerator Laboratory (Fermilab) in Batavia, Illinois, would construct a proton accelerator using parts that meet all the design specifications for the proposed multibillion-dollar International Linear Collider (ILC). The proton source would feed neutrino experiments and searches for certain rare particle decays while serving as a test bed for the ILC, according to a draft report released by the lab's steering committee earlier this month. The more modest accelerator would still cost more than \$500 million, and it faces competition from a Japanese lab.

[Read More](#)

### In the News



**30 Year Service Award:** Row 1 (from left): Richard Klecka, Pier Oddone (Directorate), Bruce Hanna and J. Frederick Bartlett. Row 2 (from left): William Cyko, John Rauch and Harry Carter.

### Announcements

#### Have a safe day!

#### EAP Office hours Thursday and Friday

This week, the Employee Assistance Program Office will be open on Thursday, Aug. 30, and Friday, Aug. 31.

#### Weekly time sheets due Friday

With the upcoming Labor Day holiday, weekly time sheets are due in Payroll by 10 a.m. on Friday, Aug. 31, 2007.

#### Recreation Facility 2008 memberships on sale starting Sept. 3

Recreation Facility 2008 memberships go on sale Sept. 3. Prices have stayed the same. A regular membership is \$85 per year and graduate student rate is \$55. New members that purchase a membership in September will get that month free. 2007 memberships expire Oct. 1, 2007, and 2008 memberships expire Oct. 1, 2008. More information can be found [online](#).

#### Entertainment discount book available in Recreation Office

Entertainment Ultimate books are now available in the Recreation Office for \$20.25. The book includes a special promotion of a free membership to Entertainment on Vacation that gives you two weeks of discounts to wherever you vacation. More information [here](#).

#### Scottish country dancing Tuesday

Scottish country dancing will meet Tuesday, Sept. 4, at Kuhn Barn on the Fermilab site. We will be moving back to the Barn for the fall season. Instruction begins at 7:30 p.m. and

## Julius Wess, 72, theoretical physicist, is dead

From *New York Times*, Aug. 27, 2007

Julius Wess, a theoretical physicist who plumbed the universe for unseen symmetries, including those in a theory that led to a prediction of a new class of fundamental particles, died Aug. 8 in Hamburg, Germany. He was 72.

The cause of death was a stroke, said Bruno Zumino, an emeritus professor at the University of California, Berkeley, who collaborated with Dr. Wess.

“They came up with quantities that you could measure and you could observe,” said Roman W. Jackiw, a professor of physics at the Massachusetts Institute of Technology.

[Read More](#)

newcomers are always welcome. Most dances are fully taught and walked through, and you do not need to come with a partner. For more information at 630-840-8194 or 630-584-0825 or [folkdance@fnal.gov](mailto:folkdance@fnal.gov).

### Classifieds

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

### [Additional Activities](#)