

## Calendar

**Fri., May 25**

**3:30 p.m.**

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

**4:00 p.m.**

Joint Experimental-Theoretical  
Physics Seminar - 1 West  
Speaker: M. Rama, University  
of Pisa

Title: Measurement of  $g$  at  
BaBar

**Mon., May 28**

Memorial Day holiday

**Tue., May 29**

**12:00 p.m.**

Summer Lecture Series - 1  
West

Speaker: A. Kolb, Fermilab

Title: History of Fermilab

**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



Partly Cloudy 74°/54°

## Extended Forecast

[Weather at Fermilab](#)

## Current Security Status

[Secon Level 3](#)

## Wilson Hall Cafe

## Feature

### Oddone shares own injury story in discussion with BSS



[Pier Oddone met with BSS employees on Monday.](#)

Thirty-five years ago Pier Oddone, then a postdoc at Caltech, was injured while working late at night on an alignment project. When he unfastened one of three screws that held a metal tube in place, the tube slid down and hit his hand. "My thumb split like a little tomato," Oddone told employees of the Business Services Section at a gathering on Monday morning. Rushed to a hospital, an x-ray examination revealed more bad news. "The bone at the tip of my thumb was broken."

Monday's gathering was the first one in a series of meetings that Oddone plans to hold with employees across the lab to engage them in discussions about safety. Oddone used his own accident to ask BSS employees for the reasons that led to the accident. Without hesitation, participants began calling out the things that probably caused things to go wrong: working alone, working late at night, no procedure in place, no training received and more.

"We are much more conscious about safety today," Oddone said. "But how can we remind ourselves that we do things safely? Fermilab has improved a lot over the years, but in the last couple of years our progress has leveled off. One could argue that there will always be lapses. But we know that there are organizations that do much better."

Oddone reminded people to learn from others' mishaps and to watch out for each other. "If you see something unsafe, stop the work. Don't cut corners. Stay safe."

## ILC Newsline

### Sports car treatment for cavities



A new hydroforming technique for ILC cavities is also used by the car industry for high-end sports cars. (Image: Sandbox Studio)

Challenges are all around for cavities that want to perform well. The material they are made of, the way they have been cleaned, the way they are shaped and the way their cells are welded together all influence the way the electrons fly through them. A process called hydroforming might be a means to tackle the last two threats, and a small team from DESY has just created the first all-niobium hydroformed nine-cell cavity.

As you can guess from the name, water plays an important role in this process. A niobium tube measuring 150 millimetres in diameter first gets grooved: the thinnest part is 70 millimetres wide, so the tube first needs to be reduced to this width. It then enters the custom-made hydroforming machine, which fills it to the rim with water and uses hydraulic equipment to change and measure the pressure. When the water pressure rises it forces the metal into a die of the shape of a cavity. The correct relation between the applied internal pressure on the whole tube and external pressure on the tube ends make sure that the niobium does not thin out or even tear at the equators, with around 210 millimetres the widest part of pretty bulges that give the cavity its characteristic shape. The niobium cavity gets almost the same thickness of roughly 2.5 millimetres throughout. As simple as this may sound, the process took several years to develop. "We have tried many different procedures, used all sorts of tubes, simulated every eventuality until we found the perfect way," explains Waldemar Singer, a material scientist working at DESY in Hamburg. Hydroforming is used in the car industry to mould sheets of metal – mostly aluminium – into complicated shapes for high-end sports cars.

**Friday, May 25**

- Old fashioned ham & bean
- Philly style chicken
- Braised pork chops
- Baked fish over rice
- Roasted veggie & provolone panini
- Assorted pizza slices
- Baked potato

**\*Carb Restricted Alternative**

[Wilson Hall Cafe Menu](#)

**Chez Leon****Wednesday, May 30****Lunch**

- Pad thai salad w/shrimp & green onions - Cabbage, red pepper & carrots - Coconut flan

**Thursday, May 31****Dinner**

- Smoked salmon napoleon
- Veal saltimbocca
- Orzo w/pine nuts, arugula & parmesan
- Steamed asparagus
- Olive oil, orange & almond cake

[Chez Leon Menu](#)

Call x4598 to make your reservation.

**Archives**

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[ILC NewsLine](#)

**Info**

Fermilab Today is online at:  
[www.fnal.gov/today/](http://www.fnal.gov/today/)

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

Addressing the BSS employees, Section Head Dave Carlson congratulated them for working more than a million hours without a lost work day.

"There's really been a dramatic improvement. We've worked 1,723 days without a lost, restricted or transferred work day before we had a setback recently," Carlson said, pointing out that BSS includes potentially dangerous work environments such as the Fire Department, the Fuel Station and the Transportation Department. However, the worst accident the section has had happened in Wilson Hall when an employee tripped over a recycling box. "We can never stop paying attention to what is happening around us, behind us, when we work with each other."

Fitting the occasion, Oddone presented the BSS with a safety award by the National Safety Council. From November 1, 2004, to February 28, 2007, BSS vehicles traveled 175,000 miles without an accident.

The BSS will celebrate its safety achievements with a picnic on Wednesday, June 13, from 11:30 a.m. to 1:00 p.m. at the Kuhn Barn.

--Kurt Riesselmann

**Special Announcement****Documents for yearly review process posted online**

It is once again time to reflect on our past year's performance. Please note that the following portions of the review process must be completed in July 2007. The corresponding Word documents are available for you to download:

- 2006-2007 [accomplishment report](#) (completed by employee by July 15th)
- 2006-2007 [performance review form](#) (completed by manager in July)
- 2007-2008 [goal setting form](#) (completed by manager after discussion with employee in July 2007).

In pursuit of continuous improvement, the above performance review form has been updated, adding a new rating category of "fully competent." And, in an effort to align the Laboratory's safety goals, all employees will have at least one standard safety performance goal. All forms are also available on the [Employee Relations website](#).

-- Barbara Warmbein

[Read more](#)

**In the News****From PhysOrg.com****May 21, 2007:****Computing Grid Helps Get to the Heart of Matter**

*In November, when physicists at CERN in Switzerland begin their grand experiment using the world's largest particle accelerator—the Large Hadron Collider, or LHC—computer scientists there and across the globe will also put the world's largest scientific computing grid through its paces.*

The success of the experiment—intended to answer such questions as what other particles exist in the universe that we don't know about—will rely in large part on a worldwide, high-speed network that will allow scientists to harness the power of 100,000 computers—mostly PCs—to process the tons of data generated by the experiment.

The universe consists of particles of matter, and scientists currently know only a tiny fraction of them. Gaining greater insight into what else makes up the universe will give them a greater understanding of the universe itself.

The network's 10G bps backbone, linking to 11 scientific data centers, forms the core of the world's largest international scientific grid service, which was created to enable scientists to handle the huge amount of data that will come out of the experiment.

[Read More](#)

**Announcements****Weekly Time Sheets Due Today**

With the upcoming Memorial Holiday, weekly time sheets are due in payroll by 10 a.m. on Friday, May 25, 2007.

**Fermi Singers concert**

Mark your calendars! The Fermi Singers will be holding a concert on May 25 at noon in Ramsey Auditorium. Treats are available after the concert.

**Retirement counselor onsite Wednesday**

Fermilab's Fidelity retirement counselor, Rodney Weems, will be on site on

If you have any questions about the performance review [process](#), [timeline](#), or [forms](#), please contact the Employee Relations Department at extensions 3326, 3793, or 4367.

### Photo of the Day

## PPD, ES&H open house session prize winners



Prize winners of the PPD and ES&H open house session (prizes in parentheses). Front row from left: Ingrid Fang (Fermilab Combo Hat and Shirt), Bob Wood (Fermilab Combo), Jody Federwitz (Kitchen Bundle- Oven Mitt, Dish Soap and Cutting Boards) and Wanda Newby (Fermilab Pool Pass). Back row from left: T.J. Sarlina (Adult Bicycle Helmet), John Rauch (Kitchen Bundle-Oven Mitt, Dish Soap and Cutting Boards), Kelly Knickerbocker (Child Bicycle Helmet) and Ed Dijak (Fire Extinguisher)

Wednesday, May 30, 2007. If you would like to schedule a retirement counseling appointment, please call 1-800-642-7131. Rodney is available from 9:30 until 3:00.

### Wisconsin Dells discount book sale

If you're planning a trip to the Dells, don't miss out on over 150 discount coupons for lodging, food, entertainment, shops and activities. The book expires December 2007. The book normally sells for \$25.00 but our cost is \$20.25. Stop by the Recreation Office and see what the book has to offer.

### English country dancing on Sundays

English country dancing will begin a fourth Sunday summer schedule with a party at 2 p. m. this Sunday, May 27, at Kuhn Barn. There will live music for dancing by Putting on Aires, and a potluck picnic to follow. Refrigerators and charcoal grills will be available.

Newcomers are most welcome and you don't need to come with a partner. For more information please [email](#) or call 630-584-0825 or 630-840-8194.

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### Classifieds

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

### [Additional Activities](#)