

## Calendar

### Have a safe day!

**Tuesday, Sept. 7**

**3:30 p.m.**

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

**Wednesday, Sept. 8**

**3:30 p.m.**

DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over  
THERE WILL BE NO  
FERMILAB COLLOQUIUM  
THIS WEEK

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

### [Upcoming conferences](#)

## Campaigns

### [Take Five](#)

### [Tune IT Up](#)

## Weather



### [Extended Forecast](#)

### [Weather at Fermilab](#)

## Current Security Status

### [Secon Level 3](#)

## Wilson Hall Cafe

## Feature

### A new face at DOE



Michael Salamon is a program director for dark matter experiments at DOE's Office of High Energy Physics.

Science doesn't happen in a vacuum. Experiments require support and oversight. They also require a liaison between laboratories and agencies that fund them.

For many working on dark matter projects, Michael Salamon is that liaison. He's the new program manager for dark matter experiments at DOE's Office of High Energy Physics. Having combed the skies for evidence of the existence of neutralinos decades ago, he now combs proposals and budgets so others may advance the Cosmic Frontier.

As an astrophysics professor at the University of Utah in the late 1980s and '90s, Salamon was a member of the Fly's Eye collaboration, which measured the energies of ultra-high-energy cosmic ray showers. His research program also included suborbital searches for cosmic antimatter and theoretical work in high-energy particle astrophysics.

He was also a public advocate for the use of space-based observatories for fundamental physics investigations. That caught the ears of people at NASA, who recruited Salamon in 2001 to head a new program, Fundamental Physics In Space, which later became the Physics of the Cosmos Program.

"It was traumatic to leave academia, but it was with the idea of providing a valuable service to the science community," Salamon said.

For nine years he oversaw research and development for projects such as the Joint Dark Energy Mission and the Laser Interferometer

## Director's Corner

### Enthusiasm for physics

At the [48th International School for Subnuclear Physics](#) in Erice, Italy, we had a terrific group of young scientists from all over the world who listened to lectures on both experimental and theoretical physics by old-timers like myself, Rolf Heuer, Sam Ting, Gerardus t'Hooft,



Pier Oddone

Michael Duff and Sergio Ferrara, and not-so-old-timers like Raphael Bousso and Zvi Bern. The school is quite unusual in mixing the two disciplines, challenging experimentalists to understand the latest in N=8 supergravity or the gravitational S matrix, and challenging the theorist with the real world of experiments and their limitations and even such phenomena as the formation of bubbles in the COUPP bubble chamber. The young scientists not only listen to the talks but participate in extensive discussion sessions on each lecture, present their own individual research topics, prepare posters and, at the end, are graded by the panel of lecturers in a variety of categories, with prizes given to the top students based on their participation in all these activities. It is a good hunting ground for talent!

One of the most common remarks both youngsters and old-timers from the audience make after I talk about the Fermilab program is that they are impressed at how diverse and interesting the program and the physics results are. Most people, even within our field but certainly beyond it, identify Fermilab so strongly with the Tevatron that they are at a loss to think of what will be left for Fermilab after the Tevatron shuts down. Experiments at the Intensity Frontier and the Cosmic Frontier and plans we have developed for the future, including the development of future accelerators and detectors, appear to be a revelation. A remark that Fermilab will be in fine shape and an exciting place to be even after the Tevatron shuts down is not unusual from members of the audience. All of us have a lot of outreach to do to create a new

## Tuesday, Sept. 7

- Breakfast: bagel sandwich
- Chicken & rice soup
- Italian sausage w/ peppers & onions
- Smart cuisine: Beef stroganoff
- Smart cuisine: Lemon chicken
- Peppered beef
- Assorted sliced pizza
- Chicken tostadas

[Wilson Hall Cafe Menu](#)

## Chez Leon

## Wednesday, Sept. 8 Lunch

- Sesame chile chicken w/ gingered watermelon salsa
- Basmati rice
- Coconut flan

## Thursday, Sept. 9 Dinner

- Gourmet greens, pear & parmesan salad
- Beef Wellington
- Whipped potatoes
- Green beans
- Chocolate soufflé w/ crème Anglaise

[Chez Leon Menu](#)

Call x3524 to make your reservation.

## Archives

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[CMS Result of the Month](#)

[User University Profiles](#)

[ILC NewsLine](#)

## Info

Space Antenna.

Last May he joined DOE, where he's in charge of a full portfolio of non-accelerator experiments at the nation's five major high-energy laboratories. As program manager, Salamon evaluates experiments, distributes resources and, during rough patches, conducts triage.

"He knows the details of the science of the experiments and has lots of experience with how government works," said Kathy Turner, with whom Salamon co-manages the non-accelerator program. "We're happy he's here."

Salamon still channels his inner professor, volunteering his time to teach physics at George Washington University. As is the case with his current position, it's the love of sharing science that drives him.

-- Leah Hesla

## Special Announcement

## Window-washing at Wilson Hall begins today

Interior and exterior Wilson Hall window-washing will take place for most of the remainder of September. See the [Sept. 3 issue](#) of *Fermilab Today* for the schedule.

Please clear all items from in front of windows on days work is scheduled for your floor. Crews will also ask you to step away for a few minutes while windows are being cleaned.

Contact Enixe Castro at x2798 with any questions.

## In the News

## The do-it-yourself cyclotron

From *symmetry*, August 2010

If the only thing amateur car builders needed was a ride to work, they wouldn't ever build cars. While it's certainly nice to take the finished product around the block to show the neighbors, there's something more than transportation motivating a hot-rod builder.

That's the analogy Mark Yuly uses for a project he's working on with his undergraduate physics students at Houghton College: building a particle accelerator.

Yuly belongs to a rare breed of people who have a deep fascination—you could even call it an obsession—with cyclotrons. For many of those obsessed, the only way to satiate their

perception about life at Fermilab.

Activity during the last week has been dominated by the study of the consequences that would arise if we followed the Physics Advisory Committee's [recommendations](#) on the Tevatron extension. There is a great deal of work to do to analyze alternatives and to work with the funding agencies, not only with the Department of Energy and National Science Foundation, but with all other agencies that support the Tevatron. Fermilab scientists in DZERO and CDF make up a small fraction of the collaboration, so ensuring that agencies, especially those abroad, will support the collaborators at the Tevatron is a necessary condition for continuing the run. Decisions by the agencies depend primarily on the strength of the physics case, the continuing competitiveness of the Tevatron and on the advice they receive from their committees. It does not stop there. The willingness of any one agency to continue its support depends also on its perception of continuing support by all other agencies. So fitting together the pieces of the puzzle is complex.

## Accelerator Update

### Sept. 1-3

- Two stores provided ~24.25 hours of luminosity
- MI vacuum leak fixed
- Linac breaker issue continued
- Store 8051 aborted due to F-sector vacuum problem

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

## Readers Write

## Reader takes up chipmunk challenge

In response to Nick Evans' request for a photo of a "chipmunk riding a bunny rabbit," posted in [Friday's issue](#) of *Fermilab Today*, Mark Kaletka submitted a link to [this photo](#).

## Announcements

*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)

Visit the Fermilab  
[home page](#)

[Unsubscribe](#) from *Fermilab  
Today*

hunger for these machines is to build their own. There are no guidebooks or instruction manuals, and if you bought the raw materials off the shelf, it would cost around \$125,000. On average, amateur cyclotrons take two to three years to build. And while it would drive some people crazy to build their own car and never drive it, in the 80-year history of amateur cyclotron building, only occasionally have the finished products been used for experiments or in education: Yuly says, "That's not why we build them.

[Read more](#)

## Latest Announcements

[Timesheets due today by 10 a.m.](#)

[Online Service Desk ticket system down 6-8 a.m. Wednesday](#)

[Silk and Thistle Scottish dancing resumes at the Barn Tuesdays starting Sept. 7](#)

[Yoga session begins today](#)

[Argentine Tango, Wednesdays through Sept. 29](#)

[Heartland blood drive total was 90 lifesaving units of blood](#)

[Chicago Blackhawks pre-season discount tickets](#)

[Reduced parking behind Ramsey Auditorium - Sept. 7-17](#)

[Junior Prairie Rangers - Saturday, Sept. 18](#)

[Workshop on Accelerator-Driven Sub-Critical Systems & Thorium Utilization](#)

[Sign up for fall Science Adventures](#)

[Looking for league bowlers](#)

[Regal Movie Theater discount tickets available](#)

[Fermilab Lecture Series Presents A Croc Odyssey: Speedy Gallopers with a Taste for Dinosaur](#)

[Gizmo Guys - Fermilab Arts Series - Sept. 25](#)

[Family Science Time - Saturday, Sept. 25](#)

[Submit an announcement](#)