

## Calendar

### Wednesday, September 20

**11:00 a.m.** Fermilab ILC R&D Meeting - 1 West

Speaker: T. Barklow, Stanford Linear Accelerator Center

Title: Measuring the Higgs Self-Coupling at the ILC

**3:30 p.m.** Director's Coffee Break - 2nd floor crossover

**4:00 p.m.** Fermilab Colloquium - 1 West  
Speaker: K. Kemner, Argonne National Laboratory

Title: Molecular Environmental Science: From X-Rays to Biogeochemistry to Beethoven

### Thursday, September 21

**1:00 p.m.** ALCPG ILC Physics & Detector R&D Seminar - West Wing (WH-10NW) Speaker: M. Gastal, CERN

Title: Draft ILC Construction Schedule

**2:30 p.m.** Theoretical Physics Seminar - Curia II

Speaker: J. Harvey, University of Chicago  
Title: NJL and QCD from String Theory

**3:30 p.m.** DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

**4:00 p.m.** Accelerator Physics and Technology Seminar - 1 West

Speaker: V. Lebedev, Fermilab  
Title: Run II Status and Future

Development: Can We Achieve 8 fb<sup>-1</sup>?

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

## Weather

## White offers physics ode in 'Three Cosmic Tenors'

Like the trio of tenors who present opera to new and wider audiences, physicists James Gates of the University of Maryland, Larry Gladney of the



Herman White

University of Pennsylvania and Herman White of Fermilab will deliver cutting-edge physics tailored to the general public at the Field Museum in Chicago on

Sunday, September 24. "The Three Cosmic Tenors: Exploring the Frontiers of Matter, Energy, Space and Time" will offer a survey of particle physics, crafted to be exciting and easy to understand.

"We want to make it as appealing as possible," says White, who will be donning opera-appropriate tuxedo and tails for the affair, sponsored by DePaul University and the Illinois Council for the Arts. The event is part of the Chicago Science Expedition, two weeks of demonstrations, exhibitions, lectures and special events, reflecting the public's rising interest in science. The Field Museum's educational department said a large number of people have expressed interest in attending the presentation.

Each researcher will speak about his area of specialty. White, of Fermilab's Accelerator Division, will focus on the breadth and significance of experimentation in particle physics.

## From the ES&H

## Fermilab, where chipmunks monitor radiation

*This week's column is written by Bill Griffing, director of Fermilab's Environment, Safety and Health Section.*

When I came to Fermilab in 1996, I was taken aback by the number of "home-grown" radiation instruments that were

manufactured and used here. It had not occurred to me that the radiation environment at high energy



Bill Griffing

accelerators was so unusual that

commercial radiation instruments would not meet our needs. I discovered that my predecessors had confronted this dilemma by assembling the in-house expertise to design, manufacture, repair and calibrate a wide variety of radiation-measuring devices. The Chipmunk Ion chamber, used for "beam on" radiation, is perhaps the most notable of these. The Instrumentation Team "rides herd" over 300 of these "critters" that are deployed in strategic locations and used extensively in the accelerator radiation safety system.

Much like the namesake rodents, Chipmunks are often stationed outdoors and must withstand the extreme variability of our Illinois climate. Through continuous improvement, we have made many design changes in the Chipmunk to make it more reliable and durable. In fact, the Fermilab-developed Chipmunk



Mostly Sunny 61°/39°

[Extended Forecast](#)[Weather at Fermilab](#)**Current Security Status**[Secon Level 3](#)**Wilson Hall Cafe****Wednesday, September 20**

- Creamy Mushroom Chicken Soup
- Texas Style Meatloaf Sandwich
- Chicken Wellington
- Italian Sausage w/Peppers
- Smoked Turkey Panini Pesto Mayo
- Assorted Slice Pizza
- Chicken Alfredo Fettuccine

[Wilson Hall Cafe Menu](#)**Chez Leon****Wednesday, September 20****Lunch**

- Pastelon de Pollo
- Confetti Salad
- Tropical Fruit Platter w/Lime

**Thursday, September 21****Dinner**

- Caponata
- Grilled Rack of Lamb
- Puree of Potatoes and Celery Root
- French Green Beans
- Amaretto Soufflé

[Chez Leon Menu](#)

Call x4598 to make your reservation.

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"Accelerator-based physics gives you the fine control to accurately study particle properties," White says, "and what we learn in the lab must also apply to the whole universe." He will also discuss the current energy frontier at Fermilab, and offer a glimpse of what the future might hold. "But I won't be singing," White adds.

The [talks](#) will be held from 2:00-4:30 p.m. on Sunday, September 24 in the James Simpson Theater of the Field Museum. Admission is free, but pre-registration is required. Call the museum at (312) 655-7400.

--D.A. Venton

**What do a warrior, a cobra and a tree have in common?**

...They are all yoga poses for employees who gather at lunchtime Tuesdays in the Auditorium. "This offers a lot of relief to people with problems from sitting at a computer all day," said Cristopher Baxter, who has taught hatha yoga at Fermilab for over two years. "We work on deepening the breath, bringing the body and mind to equilibrium, and bringing passivity to an overactive mind."

Baxter's brand of hatha yoga, called spontaneous yoga, promotes better breathing techniques and uses poses to relax muscle tension. "Breath control is used during every pose," he said. "We teach you to relax the body first, and focus inward."

has been so successful that versions of them have been built by other major accelerator laboratories. It did not take me long to appreciate the skills of the Instrumentation Team that had been assembled here at Fermilab and to recognize the importance this team plays in our success as a research institution. Several members have been here since the early 1970's.

So why do we call them Chipmunks? (The instruments, not the team members.) The name comes from the chirping sound they emit while in operation, sounding somewhat like that of a rodent. There are other whimsical names for instruments, past, present and still on the drawing board: such as Hippo, Aardvark, Albatross, Wallflower, and Groundhog. Feel free to ask members of the Instrumentation Team where those names came from!

**Next week: Dave Carlson, head of Business Services**

**Photo of the Day**

**After hours:** Fred Ullrich of Visual Media Services took this picture of the Feynman Computing Center with its interior lights on.

**Announcements**

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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Classes are held Tuesdays from noon to 1:00 p.m. in the auditorium of Wilson Hall. The next eight-week session starts October 17 and runs through December 12. The cost is \$80.00. For enrollment information, visit the [recreation Website](#).  
--Siri Steiner

### In the News

#### **PPARC Press Release, September 19, 2006: UK Particle Physics Steps on the Accelerator Pedal**

Two major research centers opened today (19th September), bringing the UK to the forefront of international efforts in Accelerator Science and Technology. The Cockcroft Institute and the John Adams Institute will both be national focal points for UK scientists and companies to develop cutting-edge accelerator technologies for major new projects such as the International Linear Collider and a Neutrino Factory.

[Read More](#)

#### **SciBooNE groundbreaking today at 9:00 a.m.!**

Come to the SciBooNE groundbreaking ceremony, just north of MI12, at 9:00 a.m. today. "We plan to keep it brief because we are so eager to get started," said Project Manager Rick Tesarek. "Everyone is welcome."

#### **Calling all scouts**

Scouts of all ages are invited to come to Fermilab to pick prairie seed on Saturday, October 7 from 10 a.m. to 2:00 p.m. To take part, contact Anne Lucietto at [lucietto@fnal.gov](mailto:lucietto@fnal.gov) or call her at 630-840-8506. Note: This activity is for scouts and scout leaders; it is separate from the harvest for the general public on the same day.

#### **Attention hiring managers: Check out the new personnel requisition form**

In pursuit of continuous improvement, the Employment department has updated the online [personnel requisition](#) to include a link to goals for increased diversity awareness, links to training courses for hiring managers, physical activity requirements, and a 120-day expiration date to assist with the efficiency of the hiring process. We encourage those involved in the hiring process to view the updated form and to provide feedback on content and ease of use to [hsidman@fnal.gov](mailto:hsidman@fnal.gov).

#### **[Upcoming Activities](#)**