

Calendar

Wednesday, Oct. 3

THERE WILL BE NO FERMILAB ILC R&D MEETING THIS WEEK

3:30 p.m.

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

4 p.m.

Fermilab Colloquium - One West

Speaker: M. Veloso, Carnegie Mellon University

Title: Task-Improving Robots through Observation and Learning

Thursday, Oct. 4

1 p.m.

[ILC ALCPG Physics and Detector R&D Seminar](#) - West

Wing, WH-10NW

Speaker: S. Magill, Argonne National Laboratory

Title: A Critical Look at the Status of PFA for the SiD Concept

2:30 p.m.

Theoretical Physics Seminar - Curia II

Speaker: W.-Y. Keung, University of Illinois, Chicago

Title: Collider Phenomenology of Unparticles

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

Feature

Fermilab in Top Ten list of Chicagoland Scientific Achievements



Mayor Richard Daley looks on as a high school student presents the discovery of the top quark as the seventh of the Top 10 Scientific Achievements in Chicago's history.

Chicago Mayor Richard Daley Tuesday named a Fermilab discovery as one of the most important scientific achievements in the six-county Chicago region.

Daley named the top 10 scientific innovations, discoveries and events in Chicago history during a ceremony in Daley Plaza. A plaque and banners in the plaza commemorate the scientific accomplishments.

Fermilab earned seventh place for the discovery March 2, 1995, of the top quark, the last of the missing subatomic building blocks of matter.

"It is wonderful that a fundamental science discovery about how the universe is made makes it into the top ten scientific achievements of Chicago," said Fermilab Director Pier Oddone.

The awards came as part of a two-week event called Science in the City, which highlights the importance of science in daily life and emphasizes the strong ties between science and education. Fermilab's Education Office will provide hands-on exhibits during the event.

"Science in the City explores science from every angle and shows our students how fun

From FESS

Shared wisdom

Today's column is by Randy Ortgiesen, head of the Facilities Engineering Services Section.

Last week, I attended a meeting hosted by Argonne of about 15 DOE laboratory facility managers from across the country. Normally, we gather about twice a year, but the group hadn't been able to find time to meet in almost two years because of DOE contract competitions.



Randy Ortgiesen

The spirit of cooperation was alive and well. We recognized the benefits that come from shared challenges and progress at each laboratory. We were all quickly reminded of the reason we started meeting as a group of facility managers many years ago: There is wisdom in the counsel of many.

All facility managers share common goals and challenges in the management of DOE's property assets. Working safely while optimizing operations at aging facilities is the first concern at Fermilab and at every national laboratory. These are areas in which the laboratories can learn from each other.

At the meeting, each laboratory gave updates on some of its programs. Chief operating officers from several laboratories, including Fermilab's Bruce Chrisman, discussed development of strategies to help guide new initiatives in the facility management arena. My facility update dealt with our electric infrastructure ([Fermilab Today, Sept. 27, 2007](#)), our geographic information system and building controls. I also discussed Fermilab's unique water management challenges, which includes a zebra mussel infestation in our industrial cooling water piping ([Fermilab Today, June 18, 2007](#)).

We all can learn from each other in these and many other areas. Finding solutions is critical to safer and more efficient places to work.



Mostly sunny 73°/53°

[Extended Forecast](#)
[Weather at Fermilab](#)

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Wednesday, Oct. 3

- Portabello harvest grain
- Santa Fe chicken quesadilla
- Hoisin chicken
- Beef stroganoff
- Cuban panini
- Assorted sliced pizza
- Pesto shrimp linguini w/leeks & tomatoes

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, Oct. 3

- Crepes w/ham & gruyere w/ Madeira cream
- Marinated vegetable salad
- Baked apples w/crème chantilly

Thursday, Oct. 4

Dinner

- Shrimp bisque
- Grilled pork tenderloin w/ peach & ginger sauce
- Honey roasted root vegetables
- Hazelnut cake w/frangelico
- Crème anglais

[Chez Leon Menu](#)

Call x4598 to make your reservation.

Archives

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[ILC NewsLine](#)

and thrilling science can be - as a subject in school, as a future career, and as a part of our planet," said Arne Duncan, CEO of Chicago Public Schools.

Nominations for the top 10 achievements were selected by museums, universities and leaders in the local scientific field. A panel of scientists, historians and educators from area universities, colleges and laboratories as well as a representative from the Chicago public schools voted on the winners. The complete top 10 list is [online](#).

"We hope these scientific achievements will get people talking about the great discoveries of our city's past and get people excited about what discoveries will unfold as part of our city's future," Daley said.

Fermilab continues to be the only place in the world producing the top quark. At the time the top quark was discovered, only a few dozen were recorded each year, but today thousands are recorded annually at Fermilab and studied by scientists from across the globe in an attempt to get a better understanding of how the universe works.

"We would like to get a few more in the top 10 in the future," Oddone said.

All matter consists of atoms, which are comprised of smaller particles such as protons, neutrons and electrons, which are composed of even smaller particles called quarks. The discovery and measurement of the top quark, the heaviest fundamental particle, allow scientists to test theories of supersymmetry, new forces and extra dimensions.

It took nearly a thousand scientists from more than a dozen countries 18 years to discover the top quark in two Fermilab experiments: CDF and DZero.

[Read more.](#)

-- Tona Kunz



Milestones

New hires

Last week's new hires:

- Dr. Norayr Khalatyan - Physicist - PPD
- Donna Kubik - Physicist - PPD

In the News

Fermilab named in top 10 list

From *The Kane County Chronicle*, Oct. 3, 2007

Chicago Mayor Richard Daley announced Tuesday that Fermilab in Batavia produced the seventh most important scientific achievement in the six-county Chicago region.

Daley named the top 10 scientific innovations, discoveries and events in Chicago history during a ceremony in Daley Plaza.

The Department of Energy's Fermi National Accelerator Laboratory earned seventh place for the discovery March 2, 1995, of the top quark, the last of the missing subatomic building blocks thought to make up all the matter in the world, including people, plants and buildings.

[Read more](#)

Announcements

[Have a safe day!](#)

Register for S/CII training

Technical personnel and managers can sign up for suspect/counterfeit items identification training. Training is scheduled to take place Oct. 16-18 at Argonne Laboratory. You may register until Oct. 9 at the Fermilab Professional Development [Web site](#).

Health and Wellness Fair Oct. 11

Fermilab's Employee Health and Wellness Fair will take place from 11 a.m. to 2 p.m. on Thursday, Oct. 11, 2007.

Adobe Acrobat 7.0 Professional training

This course will teach you about PDF files and help you quickly identify components of the Acrobat interface. You will learn how to create PDF documents and more. Deadline to [enroll](#) is today.

Word 2003: Introduction Oct. 10

Fermilab Today is online at: www.fnal.gov/today/

Send comments and suggestions to: today@fnal.gov

Fermilab's Jerry Zimmerman, also known as Mr. Freeze, presents his cryo show at Chicago's Science in the City event Tuesday.

Special Announcement

Change a light

Today, Oct. 3, is Change A Light day. U.S. Secretary of Energy Samuel W. Bodman is challenging all DOE employees - and all Americans - to answer the President's call to be more energy efficient by replacing at least one traditional light bulb in your home with an energy-efficient, compact fluorescent bulb.



"If everyone at the department changed one light bulb, it would save enough energy to light 3,065 homes for a year, reduce carbon dioxide emissions by an amount equal to removing 886 cars from our roads, and have the same effect as planting 1,260 acres of trees," Bodman wrote in an e-mail to managers at the U.S. Department of Energy.

To learn more about the Change a Light campaign and other opportunities to save energy, visit the [Energy Star](http://Energy Star Web site) Web site. Take the [pledge](#) today!

In the News

Physicists propose new method of measuring the weak interaction

Argonne, Sept. 28, 2007

A particular class of hydrogen atoms may prove ideal for the study of one of the four fundamental forces of physics, according to research performed at the U.S. Department of Energy's Argonne National Laboratory.

Argonne physicists Roy Holt and Bob Dunford proposed a method by which [parity violations](#) in hydrogen atoms could be observed and precisely measured in hydrogen atoms excited to a certain long-lived — or metastable — state. [Parity](#) indicates the symmetry of behavior in the interaction of a particular physical entity with that of its mirror image. Essentially, a parity experiment determines

Learn to create, edit, format and add tables to basic business documents with Word 2003 through this training course. For more information, please visit the [Web site](#).

Sexual harassment training Oct. 9, 10

The Office of Professional & Organization Development offers sexual harassment training for FNAL employees on Oct. 9. Training for managers and supervisors is on Oct. 10. Training only will be offered once this fall. It is intended to raise awareness of issues surrounding workplace sexual harassment discrimination. Employees can find more information and enroll online [here](#). Supervisors or managers can enroll [here](#).

Wellness brown bag seminar Oct. 5

Wellness Works and the U.S. Bone and Joint Decade will present a Brown Bag Seminar from noon to 1 p.m. on Friday, Oct. 5, in One West. Susan Broy, M.D. from the Illinois Bone and Joint Institute LLC will present "Fit to a T," an educational program about bone health and osteoporosis.

FNALU inbound e-mail stopped Oct. 1

Direct e-mail delivery to FNALU nodes stopped on Oct. 1. This change only affects delivery, not how or where mail is read. Unless directed otherwise, forwarded mail will move to the IMAP servers. Users should move their existing mail folders to IMAP. Please read the [FAQ](#) for further details. Please contact the help desk at x2345 if you have additional questions.

International Folk Dancing Oct. 4

International Folk Dancing will meet Thursday, Oct. 4, at Kuhn Barn on the Fermilab site. Dancing begins at 7:30 p.m. with teaching and children's dances earlier in the evening and request dancing later on. Newcomers are welcome. You do not need to come with a partner. More information is available by calling (630) 840-8194 or (630) 584-0825 or e-mailing folkdance@fnal.gov.

Additional Activities

whether an atom knows the difference between right and left, according to Dunford.

[Read more](#)