Fermilab Today

Tuesday, August 4, 2009

Calendar

Have a safe day!

Tuesday, August 4
9 a.m.-5 p.m.
U.S. CMS J-Term IV - One West (plenary sessions)
12 p.m.
Summer Lecture Series - One West
Speaker: Tom Kroc, Fermilab
Title: Medical/Neutron Therapy
3:30 p.m.
DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over
THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

Wednesday, August 5
11:30 a.m.
Medical Health Seminar - One West
Speaker: John Ilko, Fermilab
Title: Summer Safety Tips for Mature Adults
3:30 p.m.
DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over
4 p.m.
Fermilab Colloquium - One West
Speaker: David Kaplan, Johns Hopkins University
Title: Exciting (the) Vacuum: Possible Manifestations of the Higgs Particle at the LHC

Click here for NALCAL, a weekly calendar with links to additional information.

Campaigns

Take Five

Tune IT Up

Weather

Tune IT Up

Don’t get hooked by phishing

Some laboratory employees recently received a fraudulent e-mail message that appeared to come from the U.S. Department of State.

The message informs the recipient that he or she has been chosen to participate in a diversity immigration program. It then asks the recipient for several pieces of personal information, including his or her address, passport number, phone number, marital status, age and occupation. It also asks for a participation fee of between about $500 and $800.

This is not a legitimate message. Although it looks real and could describe a real program, it is an attempt to steal sensitive information through electronic communication, a technique known as phishing.

Several clues should let you know that you cannot trust this message.

First, the sender purports to work for the State Department. But the e-mail address to which it asks the recipient to send information ends in .com, not .gov, meaning that it is not registered at a government domain.

Second, the message is not logical. If you have been selected for a spot in a diversity immigration program, the State Department should already have your information. And you should not have to pay a fee if you were chosen.

If you receive a similar e-mail and want to check on its legitimacy, you can call Fermilab’s Visa Office, x4203, to ask about it. You can also report it to the Service Desk at x2345 or by e-mail at computer_security@fnal.gov.

Feature

Director's Corner

Future accelerators

Pier Oddone

The role of accelerators in society is quite vast. The invention and development of accelerators is a contribution our field has made over the years as we pushed the frontiers of energy and intensity. Later this year, on October 26, there will be a symposium in Washington, D.C. sponsored by the Department of Energy Office of High Energy Physics on “Accelerators for America’s Future.” The conference will explore the challenges and opportunities in developing accelerators for national needs. The areas include discovery science, medicine and biology, industrial applications and production, energy and environment and national security. In the future, the development of advanced accelerators for national needs will be a recognized element of the mission of the DOE Office of High Energy Physics. In the past we have played this role only unofficially.

In the meantime, the community of high energy physicists continues to tackle great accelerator challenges, driven by the needs of our own field. I had the opportunity last week to give the closing talk at DPF 2009 on future accelerators. I limited myself only to accelerators that extend our reach in particle physics. The knowledge we seek - the physics that lies in the LHC range, the energy for the next machine and whether we will need neutrino factories - leads to a strong and diverse program on future accelerators to cover the range of possibilities. The present worldwide program constitutes probably the strongest program on accelerator development ever: from the ILC to CLIC or muon colliders, from superbeams like Project X to neutrino factories and Beta beams, from present B factories to new Super B factories, from the LHC to a VLHC, and from present gradients expressed in MeV for physical cavities to those expressed in GeV for accelerators driven by plasma wakes. The creativity and inventiveness of our accelerator colleagues is astounding. Our field continues to push the envelope in all parameters.

Chance of thunderstorms
87°/62°

Extended Forecast
Weather at Fermilab

Current Security Status

Secon Level 3

Wilson Hall Cafe

Tuesday, August 4
- Creamy turkey vegetable
- Chili dog
- Country fried steak
- Chicken cacciatore
- Italian panini w/provolone
- Assorted sliced pizza

Wilson Hall Cafe Menu

Chez Leon

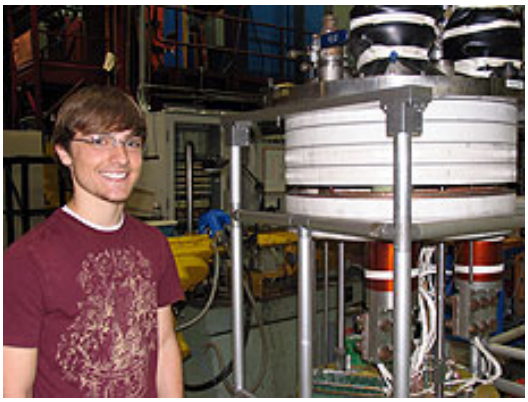
Wednesday, August 5
Lunch
- Antipasto salad
- Strawberry mousse w/ butter cookies

Thursday, August 6
Dinner
- Grilled portobello and red pepper salad
- Filet mignon w/horseradish sauce
- Baked potato w/butter & sour cream
- Broccoli
- Cappuccino soufflé

Chez Leon Menu
Call x3524 to make your reservation.

Archives

On TARGET: Matt Bajzek



TARGET program intern Matt Bajzek stands next to equipment in Industrial Building 1, where he spent his summer editing magnet testing documentation.

Editor's note: *This is the second Q&A in a series on TARGET program students. Tonisha Taylor, a TARGET student working in the Office of Communication, conducted the interviews. The six-week TARGET program ended Friday, July 31, but the interviews represent the students' perspectives during their time here. A program overview article and an article on the program's influence will appear in upcoming issues of* Fermilab Today. *View the first Q&A here.*

Matt Bajzek is a rising senior at Waubonsie Valley High School who participated in TARGET, a program that aims to expose high school students from primarily, but not exclusively, underrepresented minority groups to physics and engineering. He worked with Cosmore Sylvester in the Techinical Division this summer.

Q. What is your job at Fermilab?

A. I revise, proofread and edit documents and spreadsheets for the magnet testing that engineers and scientists do in Industrial Building 1. As a result, I have become very familiar with the test set ups.

Q. How do scientists test the magnets?

A. Scientists and engineers set up 20 foot tall magnets that are placed vertically underground. They test the magnets to analyze their performance and safety, in the hopes of producing magnets with higher field strength to upgrade the Large Hadron Collider. They cool them down to about two Kelvin before they officially test them.

Q. What do you like best about Fermilab?

Our Fermilab plan is to develop first the intensity frontier with Project X and either the ILC or a muon collider depending on what the LHC teaches us about the relevant energy scale. We have designed our program in phases so that Project X can help us either along the route of an ILC by aligning the technologies or along the route of a muon collider by its use as the high-intensity proton source. In all cases the physics harvest will be great all along the route.

Photo of the Day

Hyperbolic Obelisk in fog

AD's Mike McGee took this photo of the Hyperbolic Obelisk sculpture, which stands in front of Wilson Hall, in the fog on July 23. The image is intentionally tilted.

Announcements

Yoga Class - August 11 - Sept. 29

Muscle Toning Class - today - Sept. 28

Office 2007 New Features class offered in September

URA Visiting Scholars Program now accepting applications

Services account password needed for Fermilab Time & Labor reporting

Bristol Renaissance Faire discount tickets

Six Flags Great America discount tickets

Pool memberships available in the Recreation Department

Raging Waves Waterpark online discount ticket program

International folk dancing resumes

Fermilab Today

Result of the Week

Safety Tip of the Week

User University Profiles

ILC NewsLine

Info

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

Send comments and suggestions to:
today@fnal.gov

Visit the Fermilab
home page

A. It is a strange place. There is not just science here. They have art galleries, buffalo and such a wide variety of people.

Q. What is your favorite science subject?

A. Engineering. I am still trying to decide what kind I want to do.

Q. What do you hope to get out of this experience?

A. I am hoping to get exposed to engineering and finally narrow it down to a field to go into later. I am getting a great understanding of all the different fields of engineering at Fermilab.

Q. What do you think of when you hear the word Fermilab?

A. I think of the stereotypical huge array of magnets just going and going to collide particles. Over time, that has changed after seeing all of the buffalo and nature at the laboratory.

Q. If you could make one scientific discovery, what would it be?

A. I would like to find an energy source that is efficient, safe and that is able to replace oil to get our country out of debt.

In the News

Students build cosmic ray detector

From ***UPI.com***, August 3, 2009

Four Miami-area high school students have an unusual summer job on their resumes: building a cosmic ray detector alongside nuclear physicists.

The four participated in a six-week paid internship with Florida International University's physics department, selected from a pool of top student applicants, The Miami Herald reported Monday.

"It was a little overwhelming at first," Alyssa Indart, 17, told the Herald. "But we learned not to be intimidated by anything -- not even particle physics."

Read more

August 6

Summer intern presentations - August 5

Osteoarthritis(degenerative arthritis) seminar

Accelerated C++ Short Course begins August 6

Health after 50 seminar

The University of Chicago Tuition Remission Program August 17 deadline

What's New in NI LabVIEW 2009? offered August 27

Process piping (ASME B31.3) class offered in October and November

Additional Activities

Submit an announcement