

Calendar

[Have a safe day!](#)

Monday, June 28

2:30 p.m.

[Particle Astrophysics Seminar](#)

(NOTE LOCATION) -
Racetrack WH-7X-Over
Speaker: Corey Reed, National
Institute for Subatomic
Physics, NIKHEF

Title: Searching for Neutrino
Sources with the ANTARES
Telescope

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

All Experimenters' Meeting -
Curia II

Special Topic: High Pressure
RF Cavities

Tuesday, June 29

12 p.m.

[Summer Lecture Series](#) -

(NOTE LOCATION) Curia II
Speaker: Marcel Demarteau,
Fermilab

Title: Particle Detectors

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.

[Upcoming conferences](#)

Campaigns

[Take Five](#)

[Tune IT Up](#)

Feature

CD hires first postdoc in computational physics

For the first time, Fermilab's Computing Division has hired a postdoc to do R&D in computational accelerator physics.

Chong Shik Park, who recently earned his Ph.D. from Indiana University, started work on April 26.

"The future of the lab depends on having young people with energy and fresh ideas," said the Computing Division's Panagiotis Spentzouris, who hired Park.

Park attended a class Spentzouris taught at the U.S. Particle Accelerator School in 2007. When Spentzouris heard that Park was looking for a postdoc position at Fermilab, he made it his mission to find a place for him at the laboratory.

"I knew the topic of his research, and it was very relevant to Mu2e beam extraction and Project X," Spentzouris said.

Park moved to the United States from South Korea in order to take advantage of the large accelerator physics group at Indiana University. He studied the physics of electromagnetic space charge effects, or how particles in a beam interact with one another when packed tightly together.

"When the particles repel each other, all the good work you're doing with the magnets can blow apart," Spentzouris said.

The theoretical and numerical models Park and his colleagues create allow scientists to study how to design an accelerator to minimize these effects.

"To build the real accelerator costs a lot of money," Park said. "But you can use simulations with computers if you want to test different ideas."



Chong Shik Park will work on theoretical and numerical models for the Mu2e experiment.

ES&H Tips of the Week - Safety

Same road, same rules, same rights



Share the road.
Image courtesy of the U.S. Department of Transportation.

The warm weather brings more bicyclists to Fermilab, increasing chances of collisions with motorists. To minimize this risk, Fermilab's Traffic Safety Subcommittee plans to reach out to area bicyclists through an education and awareness campaign.

The committee met Thursday with the [Community Advisory Board](#), a collection of residents and leaders of the surrounding communities, to discuss the best ways to meet the needs of bicyclists and motorists.

Previously, Fermilab stressed to employees that they must watch for bicyclists and respect bicyclists' rights to share the road. Bicyclists have the same rights and responsibilities on the road as motor vehicle drivers.

Fermilab has turned its attention to the bicyclists because of a rise in the number of complaints regarding bicyclists riding through stop signs without stopping or looking for oncoming traffic as well as bicyclists riding more than two abreast, taking up a full lane or more.

Advisory board members said this has been an issue in the Fox Valley area as well as across the nation. Batavia and Kane County Forest Preserve police have begun ticketing bicyclists whose behavior puts others at risk, they pointed out.

More than half of the board members said they bicycle through Fermilab recreationally or as part of a racing club and would not find a safety campaign or increased enforcement offensive. Members suggested that Fermilab promote more education and awareness

H1N1 Flu
For information about H1N1, visit Fermilab's flu information site .
Weather
 Mostly sunny 85°/62°
Extended Forecast Weather at Fermilab
Current Security Status
Secon Level 3
Wilson Hall Cafe
Monday, June 28 - not available
Wilson Hall Cafe Menu
Chez Leon
Wednesday, June 30 Lunch - Firecracker beef on a rice noodle salad - Almond cake
Thursday, July 1 Dinner Closed
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

At Fermilab, Park will lend his expertise to the beam extraction design for the Mu2e experiment. Spentzouris said he chose Mu2e because it is a challenging, high-priority project that is interesting technically.

"I have a lot of things to learn," Park said. "My previous work focused on electrons, and at Fermilab it's protons. I'm very excited to learn the new physics."

-- *Kathryn Grim*

Special Announcement

North elevator on Wilson Hall west side down for repairs

The north elevator on the west side (car #2) of Wilson Hall will be offline this week. A maintenance crew diagnosed the elevator's problems last week and will spend this week working to repair it. They hope to get the elevator back online by the end of the week.

Please anticipate longer wait times due to the outage.

In the News

CMS Exotica hotline leads hunt for exotic particles

From *symmetry breaking*, June 24, 2010

Strangers in the dark: they meet, make contact, and break away with force, careless of what they leave behind. At midnight each night, snapshots of these frenzied chance encounters are collected for curious eyes. In the morning, those onlookers reconstruct the story that each image tells, tracing the mysterious paths born from a fateful meeting.

This is the CMS exotica hotline, and no, it's not a 900 number.

Those snapshots are event displays, pictorial descriptions of proton collisions in the CMS detector, selected from the previous 24 hours. Every morning, 10 CMS collaborators volunteer to review between 20 and 100 hotline displays to get a sneak-peek at the latest data. By picking out the most unusual events first, CMS physicists hope to learn more about how the detector is functioning and spot exotic physics.

Exotic physics is the physics that breaks rules and defies expectations. This is the realm beyond the Standard Model and even beyond

through community bicycle clubs and shops as well as have the gate guards come out and stop bicyclists as they enter the site to advise them of the [Illinois bicycle rules of the road](#).

They also suggested larger signs explaining bicycle rules at points where bikes are supposed to stop.

The Traffic Safety Subcommittee will take all advice under consideration as plans for the campaign progress. If bicyclists and motorists comply with state law, it will help keep the roadways safe for all.

[Safety Tip of the Week Archive](#)

Accelerator Update

June 23-25

- Three stores provided ~18.5 hours of luminosity
- Cryo system techs worked on B3 valve and F1 wet engine
- Storm caused trips on many systems
- Operators found and fixed an orbit distortion
- D2 vacuum repaired
- ECool personnel reconfigure Pelletron

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

HR announcement

[Format change for new personnel requisition form](#)

Latest Announcements

[Time to complete accomplishment reports](#)

[Session 3 preschool & youth swim lesson registration due July 2](#)

[Requests for on-site housing now accepted for fall 2010 & spring 2011](#)

[Day Camp payments due](#)

[Web of Science citation database online trial](#)

[Adult water aerobics - Mondays](#)

[Adult swim lessons - Mondays](#)

[Argentine Tango, Wednesday, June 30](#)

Info

Fermilab Today

is online at:

www.fnal.gov/today/

Send comments and suggestions to:

today@fnal.gov

Visit the Fermilab

[home page](#)

[Unsubscribe](#) from *Fermilab*

Today

supersymmetry —the domain of the unstable and excited, the string balls, black holes, and extra dimensions. The CMS group devoted to seeking out these events is called the exotica group, and the hotline supports their search.

Every morning, CMS collaborator Tulika Bose of Boston University, a lead developer of the hotline, scans event displays to parse potential physics from peculiar equipment signals. She explains that the hotline offers an open-minded way of developing new search criteria for exotic events.

[Read more](#)

--Daisy Yuhas

[Walk to Health class began June 7](#)

[Butts & Guts class began June 7](#)

[Lecture Series: Intermediate/Advanced Topics in C++ Programming](#)

[Ask HR: 15th floor visits TD - ICB Tuesday June 29](#)

[Free webinar on "Retirement Planning for Women", June 30](#)

[10,000 Steps-a-Day walking program](#)

[Introduction to LabVIEW course - July 13](#)

[Embedded Design with LabVIEW FPGA and CompactRIO seminar - July 13](#)

[Interaction Management Coaching Forum - July 27](#)

[Submit an announcement](#)