

Calendar

[Have a safe day!](#)

Monday, Oct. 4

2:30 p.m.

[Particle Astrophysics Seminar](#) - One West

Speaker: Gray Rybka, University of Washington

Title: Low Energy Particle Physics with Microwaves

3:30 p.m.

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

4 p.m.

All Experimenters' Meeting - Curia II
Special Topic: New Booster Multi-Pole Correctors Commissioning

Tuesday, Oct. 5

2:30 p.m.

[Theoretical Physics Seminar](#) (NOTE

DATE) - Curia II

Speaker: Andreas Karch, University of Washington

Title: A Particle Physicist's Perspective on Topological Insulators

3:30 p.m.

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

4 p.m.

[Accelerator Physics and Technology Seminar](#) - One West

Speaker: Hisham Kamal Sayed, Old Dominion University/JLab

Title: Design Studies for MEIC: Medium Energy Electron-Ion Collider at JLab

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

[Upcoming conferences](#)

Campaigns

[Take Five](#)

[Tune IT Up](#)

Feature

Tom Kobilarcik: a man of many hats



Tom Kobilarcik works on the beamline for the E-905 / SeaQuest experiment

If you ask Tom Kobilarcik to explain his job, you won't get a short answer.

"It's hard to explain a typical day; there aren't typical days," said Kobilarcik, an engineering physicist for the External Beamlines Department. "But it doesn't get boring, and that's what I like about it the most."

Kobilarcik, who has worked at Fermilab since 1989, began as a beamline operator before moving into a coordination role for beamline installation. In the past year, Kobilarcik was promoted to External Beamlines Department deputy head. In his new role, he will direct numerous support teams to install all the projects that use particle beams.

Kobilarcik currently oversees the installation and machine maintenance of four beamline projects: MiniBooNE, the MuCool Test Area, the E906 SeaQuest project and the NuMI target station. Planning these endeavours can take anywhere from months, in the case of E906, to decades, in the case of the NOvA neutrino experiment.

"The type of thing where you have to put together a lot of pieces and make sure it all works in a very precise way, that's the type of thing that Tom is genuinely very good at," said beamline physicist Sam Childress, who has worked with Kobilarcik for 21 years.

The job's challenge, Kobilarcik said, is determining the best way to use Fermilab's abundant talent to get a

ES&H Tips of the Week - Safety



Cooler temperatures mean time to check heating sources



Credit: U. S. Consumer Product Safety Commission.

When you're getting ready for winter, don't forget to add a safety review of heating sources to your checklist.

These devices, including fireplaces, heaters, furnaces and back-up power systems, can cause fire deaths and carbon monoxide (CO) poisonings.

Carbon monoxide is a colorless, odorless gas produced by burning materials containing carbon. It has earned the name silent killer because it ranks as the leading cause of accidental poisoning deaths in the U.S. The Centers for Disease Control estimates that carbon monoxide poisoning kills nearly 500 people and injures more than 15,000 annually.

Top sources of home carbon monoxide poisoning are:

- gas water heaters,
- fireplaces,
- kerosene space heaters,
- charcoal grills,
- propane heaters and stoves,
- gasoline and diesel powered generators,
- propane-fueled forklifts,
- and gasoline-powered concrete saws.

You can prevent CO poisoning by doing the following:

- Schedule a yearly professional inspection of all fuel-burning home heating systems.
- Install federally approved carbon monoxide alarms.
- Replace batteries in smoke and CO detectors annually.
- Activate the test button on the CO alarm monthly to ensure proper operation.
- Never operate a portable gasoline-powered generator

Weather

 Sunny
79°/52°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Monday, Oct. 11

- Breakfast: Croissant sandwich
- French Quarter gumbo soup
- French dip w/ horseradish cream
- Santa Fe pork stew
- Country baked chicken
- Popcorn shrimp wrap
- Assorted sliced pizza
- Sweet and sour chicken w/egg roll

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, Oct. 15

Lunch

- Tri-colored tortellini w/ Gorgonzola cream
- Sautéed spinach
- Raspberry mousse w/ cookies

Thursday, Oct. 16

Dinner

- Closed

[Chez Leon Menu](#)

Call x3524 to make your reservation.

Archives

[Fermilab Today](#)

[Result of the Week](#)

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project running most efficiently.

"Once you've done that, you step back and let the other groups do their job and the project gets done really well," Kobilarcik said.

Often, beamline projects are technically challenging. The difficulties arise in instances such as designing a magnet for the KTeV kaon experiment, which required a large team of skilled physicists. Others require a diversity of skills. In one such project, Kobilarcik had to couple his computer programming abilities with his beamline knowledge to develop high-precision software to steer a particle beam.

Kobilarcik credits the various support groups – engineering, mechanical support and instrumentation among others – for the success of his projects.

"We've got great people working here," he said. "Our technicians and our professional staff really put the sweat into it to get the projects going."

-- *Sara Reardon*

Did you know?

An artist's rendition of CDF is made of junk



John Zaklikowski's 2008 piece "Collider Detector at Fermilab" is 72 x 72 x 8 inches and has an ancient Chinese divination device called a Luo Pan Compass serving as the central focus. One of the artwork detector's many onion-like layers is made of shiny hard drives and the next of circuitry and hard disks. Dotting one layer is a series of computer keys, spelling out gibberish everywhere but in the upper-right quadrant, where a sharp observer can spy the word HIGGS. The detector itself rests on a foundation of silver lids, of the variety one might find on the top of a cheese shaker.

Learn more about this artwork in symmetry magazine's "[From junked part to detector art](#)".

In the News

in an enclosed space.

- Keep portable generators as far away from the home as possible.
- Ensure your space heaters were tested and certified by nationally-recognized testing laboratories.
- Open the fireplace damper before lighting a fire; keep it open until ashes cool.
- Store ashes in a fire-resistant container outdoors and covered with a lid.
- Dispose of ashes carefully keeping them away from combustibles, such as dry leaves or trash.

--*James Priest, ES&H fire strategist/researcher*

In the News

Plans for new Italian particle smasher gather steam

From *Science Insider*, Oct. 4, 2010

Italy is increasing its investment in a planned €500 million particle collider outside Rome. The National Institute of Nuclear Physics (INFN) may double funding next year for work on a technical design of the proposed SuperB collider, says Marcello Giorgi, a particle physicist with INFN and the University of Pisa who leads the project.

Perhaps more important, the SuperB project has also gained some friends. The Italian Institute of Technology has agreed to help develop facilities that would use x-rays from the colliders' circulating particle beams for research in the material and life sciences, thus broadening the project's scientific scope, according to a press release issued today. If the project goes forward, then IIT would pick up €100 million of the cost, Giorgi says.

[Read more](#)

Accelerator Update

Oct. 6-8

- Four stores provided ~36.5 hours of luminosity
- MI-52 Lambertson vacuum leak repaired
- TRF3 power amplifier repaired
- Linac low-level RF system problems

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

Info

Fermilab Today

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

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today@fnal.gov

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Science community gets stimulus boost

From *The Times Herald*, Oct. 6, 2010

Delaware Valley College in Doylestown has lots of plans for the \$707,569 it has been granted, thanks to the National Science Foundation (NSF).

NASA, NSF and the National Institutes of Health were among 28 agencies that have been allocated a portion of the American Recovery and Reinvestment Act (ARRA) of 2009's total \$787 billion.

And those groups funneled that money into various projects.

DeVal will use its share to renovate chemistry and biology labs and convert existing space in the Mandell Science Building into an Integrated Multidisciplinary Science Education and Research area.

[Read more](#)

[Accelerate to a Healthy Lifestyle program](#)

[Fright Fest discount tickets at Six Flags](#)

[Lion King Musical discount](#)

[Chicago Blackhawks discount tickets](#)

[Card Stampers Club Oct. 12](#)

[Fibromyalgia Awareness seminar - Oct. 11](#)

[Mental Health Awareness Part II - Oct. 12](#)

[Down Syndrome Awareness seminar - Oct. 13](#)

[NALWO Children's Playgroup Halloween Party](#)

[Word 2007: New Features class offered Oct. 20](#)

[Excel 2007: New Features class offered Oct. 20](#)

[Regal Movie Theater discount tickets available](#)

[Fermilab Lecture Series presents The Long Thaw: How Humans are Changing the Next 100,000 Years of the Earth's Climate - Oct. 22](#)

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