

Feature

Lattice QCD collaboration wins 2011 INCITE Award

The U.S. lattice gauge theory community has recently received one of the three largest awards under a program that delivers supercomputing resources for scientific computing. The national lattice gauge theory collaboration, USQCD, is led by Fermilab's Paul Mackenzie.

The Department of Energy recently awarded the collaboration 80 million processor hours on two supercomputers: 50 million on the IBM Blue Gene supercomputer at Argonne National Laboratory and 30 million on the Cray XT supercomputer at Oak Ridge National Laboratory.

The award is one of many awards given as part of DOE's Innovative and Novel Computational Impact on Theory and Experiment (INCITE) program. Projects were chosen for their potential to advance scientific discoveries, speed technological innovations and strengthen industrial competitiveness, as well as for their ability to make use of hundreds of thousands of processors work in concert to do so.

[The Lattice QCD collaboration](#) at Fermilab will use these hours to further scientists' understanding of the interactions of quarks and gluons, constituents of 99 percent of visible matter. This project is part of ongoing efforts to carry out computer simulations of the strong nuclear force and eventually to develop a unified theory of the four fundamental forces of nature.

[Read more](#) in the Department of Energy press release.

-- *Rhianna Wisniewski*

Feature

ES&H Tip of the Week - Ecology

Requirements for green purchasing tighten



The Green Seal is one of many logos on home cleaning products that indicate an environment-friendly status.

Fermilab needs your help to meet new federal requirement to "buy green".

Our procurement system relies heavily on employees identifying a product for purchase also carefully considering that product's various impacts. If you identify a product for purchase, whether you use a Pro-card, purchase requisition or stand-alone contract, you are responsible for ensuring that the products are safe, appropriate, and now, sustainable.

Buying green whenever possible is one of the provisions of the [new federal mandate](#) to achieve sustainability. In previous years, this effort has been officially called environmentally preferred purchasing, but it is now referred to as sustainable acquisition, or simply SA. The federal mandate requires that all government sites have programs in place to ensure that procurements "...are energy-efficient ..., water-efficient, bio-based, environmentally preferable ..., non- ozone depleting, contain recycled content, or are non-toxic or less-toxic alternatives."

While Fermilab employees already focus on green purchasing, the new mandate requires each product requisitioner to increase awareness of environmentally friendly purchasing options. Check out some suggestions for green-product parameters at the [ES&H Section web site](#). Laboratory-wide training to explain the new requirements will

Calendar

Monday, Dec. 6
2:30 p.m.

[Particle Astrophysics Seminar](#)

- One West

Speaker: Silvia Galli,
University of Paris

Title: Constraining
Fundamental Physics with
Present and Future CMB
Experiments

3:30 p.m.

DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over
4 p.m.

All Experimenters' Meeting -
Curia II

Special Topics: 3.9 GHz
Cryomodule Operation at
FLASH-DESY;

JASMIN Radiation Safety
Counter Program
(T972/993/994)

Tuesday, Dec. 7
1:30 p.m.

[Particle Astrophysics Seminar](#)

(NOTE DATE and TIME) - One
West

Speaker: Eric Switzer,
University of Chicago

Title: Some Aspects of
Cosmological Helium
3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over
THERE WILL BE NO
ACCELERATOR PHYSICS
AND TECHNOLOGY
SEMINAR THIS WEEK

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

[Upcoming conferences](#)

[Campaigns](#)

[Take Five](#)

[Weather](#)

 Mostly sunny
18°/5°

[Extended Forecast](#)

[Weather at Fermilab](#)

[Current Security Status](#)

[Secou Level 3](#)

[Wilson Hall Cafe](#)

Monday, Dec. 6

- 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

*carb-restricted alternative

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Wednesday, Dec. 8

- Lunch
- Swordfish w/ lemon butter sauce
 - Spinach risotto
 - Lemon Napoleon

Thursday, Dec. 9

- Dinner
- Spinach & strawberry salad
 - Lobster tail w/drawn butter
 - Spaghetti squash w/green onions
 - Sautéed pea pods
 - White chocolate-raspberry crème brûlée

[Chez Leon Menu](#)

Danny the Builder teaches children about recycling



Bob the Builder's cousin, contractor Danny Urrea, teaches daycare students about recycling. *Photo: Sara Reardon*

Fermilab's daycare welcomed a TV celebrity guest on Dec. 1 – well, sort of.

Bob the Builder's cousin, Danny the Builder (contractor Danny Urrea), stopped by the Fermilab daycare to bring the children a message about recycling.

"I'm here to show you how recycling plays a big role on our planet," he said. "All you gotta do is play your part."

Urrea, who wore a yellow hard hat, showed the children examples of recyclable bottles and cans.

"Every square mile of the ocean has 46,000 pieces of plastic floating in it," he said. For a scale model, he showed the kids a box full of beans, then filled it with water.

"Would you want to swim in that?" he asked them. He received disgusted noises in response.

Event organizer Enixe Castro, janitorial site manager and recycling coordinator, said she was impressed that the kids already knew so much about recycling. They were eager to share stories of how their own families did or didn't recycle.

"If they learn it now, it becomes a habit rather than something they need to learn as they grow older," Castro said. "It becomes a part of their lives."

After his presentation, Danny the Builder taught the children how to build snowmen out of Styrofoam cups, buttons, pom poms and old socks. A hat for a snowman, he said, was one of many uses for the ubiquitous single sock whose mate was lost in the dryer.

"Reuse it, don't throw it away," he said.

For adults interested in reusing materials for

occur in January. A future *Fermilab Today* article will announce the times and dates of training.

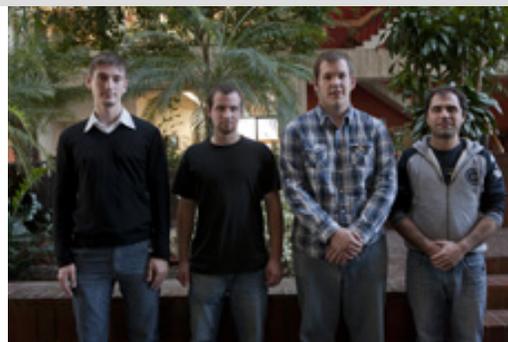
In many areas, we already do a great job, particularly for computer purchasing, where we buy almost exclusively [EPEAT](#)-certified equipment for desktop computing. In fact, the laboratory has won awards for this effort. Part of our current purchasing policy requires Energy Star (i.e., energy-efficient) products. We routinely purchase construction materials with recycled content, especially concrete and structural steel. We increasingly require sub-contractors to recycle all construction and demolition waste.

You can use the same principles of buying green in your home that we use in the workplace. Purchasing recycled and recyclable products, safe cleaning supplies and items made of sustainable materials such as bamboo instead of hardwood will increase the sustainability of your family just as it does the workplace.

--Rod Walton, *FESS environmental officer*

[Photo of the Day](#)

New employees - Nov. 15



From left: Alexander Dzyuba, Kyle Kendziora, Robert Steinberg and Simone Moio. *Photo: Cindy Arnold*

[Accelerator Update](#)

Dec. 1-3

- Three stores provided ~42.25 hours of luminosity
- New Meson FTBF experiment T-1008 began taking beam
- Clogged DZero pond water inlet pipe forced experiment to turn off detector
- Booster 400 MeV Chopper repaired

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

[Announcements](#)

Call x3524 to make your reservation.

Archives

[Fermilab Today](#)

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Today

crafts, Castro is planning a recycling presentation and craft project early next year.

"The kids really had fun making crafts from recycled products," said daycare teacher Jenn Scott.

-Sara Reardon



With the help of Enixe Castro, daycare students craft snowmen out of recycled styrofoam and socks.

Photo: Sara Reardon

In the News

Science is not irreducibly complex

From *Uncertain Principles*, a ScienceBlog, Dec. 2, 2010

The poor coverage of science in the media is an evergreen topic in blogdom, to the point where I've mostly stopped clicking on links to those sorts of pieces. This ScienceProgress post about newsroom culture bugged me, though, and it took me a while to figure out the problem. The author worked as a reporter in North Carolina over the summer, covering science topics, and writes about his dissatisfaction with the journalistic template:

"I had one editor who required that I give him my story pitches using six words or fewer. But the message wasn't even simply to shorten; it was to make it punchy. Cutesy. Puns and clever twists of phrases signaled good writing. "Hooking the reader" meant playing with language to get your punch line across as glibly as possible. A short article was a point of pride.

Cleverly packaged writing is not inherently bad writing, of course. The ability to explain something in a succinct way suggests an impressive grasp over language. It reflects a clear line of thinking. Extra words can take readers on tangents, overcomplicate an idea, and dilute a focus. Writing concisely is a tremendous skill, requiring years of practice.

[Read more](#)

Latest announcements

[Open basketball at the gym](#)

[Indian Creek Road will be closed at MI-8 on Dec. 6, 7 & 8](#)

[Disney On Ice presents "Toy Story 3" - Feb. 2-13](#)

[Fermilab blood drive - Dec. 20 & 21](#)

[Scrappers club meets Dec. 7](#)

[Symposium celebrates 25th anniversary of first collisions at Tevatron - Dec. 17](#)

[Annual potluck party and skits - Dec. 17](#)

[Fermilab Arts Series presents "A Celtic Christmas"](#)

[Fermilab Art Gallery - artist reception Dec. 10, painting demo Dec. 15](#)

[Winter holiday party special - Dec. 10](#)

[Submit a topic suggestion for Disability Awareness seminar](#)

[Wilson Hall super science stocking stuffer sale - Dec. 8-9](#)

[Free martial arts class - Dec. 15](#)

[PayFlex PowerPoint presentation](#)

[Fermilab Today holiday schedule](#)

[Fermilab Arts and Lecture Series box office winter schedule](#)

[Users Office holiday hours](#)

[Pedestrian safety awareness for families](#)

[Pedestrian safety at crosswalks](#)

[Accelerate to a Healthy Lifestyle program through Dec. 31](#)

[Submit an announcement](#)