

IN THE YELLOW PAINT

Educator News from the Caterpillar Visitors Center

October 2014

www.caterpillar.com/visitors-center

Plan your field trip to see the Caterpillar Visitors Center multi-terrain loader “can build”!

On Saturday, November 1, 2014, the Caterpillar Visitors Center will unveil a structure (multi-terrain loader), designed and built by Caterpillar sponsored, FIRST Robotics Team (FRC), Robot Casserole and team lead, Asit Patel, Caterpillar Manufacturing Engineering Manager. The structure will be constructed from non-perishable food items donated by Kroger. It will be on display at the Caterpillar Visitors Center throughout the month of November as part of the CityLink Stuff-a-Bus Campaign, benefiting the Peoria Friendship House of Christian Service.



You might ask, how does one go about building a multi-terrain loader out of non-perishable items? The answer is simple, *a lot of planning*. FRC team, Robot Casserole, began the process with a brainstorming session to choose a shape. Various ideas were bounced around such as a dinosaur, Robot Casserole's mascot Rusty, or a minion from Despicable Me, but the Cat® Multi-Terrain Loader won out. The “can build” team took a field trip to the local Kroger store where they walked the aisles looking for non-perishable items to use. Using a caliper and measuring tape they created a database of different item sizes. From there they began the modeling process. They split the machine into major components: the body, tracks, cab, arm, and bucket and assigned each part to one of the students on the team. Using 3D modeling software each student decided which can or boxed items to use for the component and estimated the number needed to fit in their assigned space. Each student then began the design process by creating a support system for each section to hold it in place.

The three evenings off construction will be captured in a time-lapsed video. This time-lapsed video and accompanying activity will be made available on our [Educator Resources](#) page.

** The Caterpillar Visitors Center is a drop of location for the Stuff-a-Bus Campaign food drive throughout the month of November.

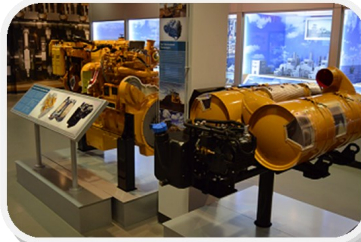
For detailed information on planning your field trip and *free learning tools to complement your visit*, please visit our website at www.caterpillar.com/visitors-center (click on Educator Resources).

For questions or if you would like additional assistance in scheduling your trip, please call Mary Blum at (309) 675-9494 or email Blum_Mary_A@cat.com.

New Cat® products and exhibits



336E Hydraulic Hybrid Excavator
D5K2 Track Type Tractor
CB24B Roller
CT660 Vocational Truck
908H2 Compact Wheel Loader
Ryan Newman's 2014 Chevrolet SS
NASCAR



Tier 4 Final Engine



D5K2 Track Type Tractor



908H Compact Wheel Loader



Hours of Operation

Monday—Saturday
10:00 a.m.—5:00 p.m.
*Last entry is at 3:30 p.m.

MANUFACTURING TRADITIONS EXHIBIT
OCTOBER 17, 2014 - FEBRUARY 2015

The tradition of manufacturing at Caterpillar has stood the test of time for nearly 90 years. Many of the tried and true tools and processes that date back to the 1920s still have a home in the modern factories of the 21st century - as does our standard of quality.

The exhibit features a film celebrating two employees each with 65 years of service to Caterpillar, a digital photo album containing more than 60 photos, and seven cases of artifacts showcasing Caterpillar's culture of safety, training, quality, employee recognition - and the processes that ensure Caterpillar products are the best in the world.

We invite you to take a look at nearly 90 years of manufacturing at Caterpillar as we celebrate the thousands of production workers - the people who create the yellow iron - with our Manufacturing Tradition's exhibit.



Upcoming Events

October 17, 2014- Manufacturing Traditions Exhibit opens

November 1, 2014 - Caterpillar Visitors Center "Can Build" reveal

December 4, 2014 - AG Literacy STEM Event

Contact Us:

Caterpillar Visitors Center | 110 SW Washington St. Peoria, IL 61602 | (309) 675-0606

caterpillar.com/visitors-center

Email: CaterpillarVisitorsCenter@cat.com

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Caterpillar Supports the Next Generation of STEM Talent

Caterpillar employs more than 10,000 engineers, scientists and technologists around the world. These individuals innovate at a rapid pace, developing and delivering solutions that differentiate our products, create customer value and help us remain competitive within the global marketplace. To continue this pace of innovation, the company needs a sustainable pipeline of talent in the science, technology, engineering and math (STEM) fields. As such, Caterpillar is an enthusiastic supporter of STEM initiatives that inspire student interest in technical fields from an early age.

One such initiative is For Inspiration and Recognition in Science and Technology (FIRST), an organization that provides global, mentor-based programs to help students of all ages build STEM skills. Caterpillar's relationship with FIRST began in 2005, with the company's initial sponsorship of 10 teams. The company now sponsors nearly 200 teams located in the U.S., UK, India, China, Chile, Italy. These teams include:

- ◇ 30 FIRST Robotics Challenge (FRC) teams - Teams of students 14-18 years of age compete by conceptualizing and building working robots with limited resources and very strict rules.
- ◇ 20 FIRST TECH Challenge (FTC) teams - Teams of students 12-18 years of age compete by designing and programming simple robots.
- ◇ 140 FIRST LEGO League (FLL) teams - Teams of students 9-14 years of age compete using LEGO building blocks. Students apply math and science to create solutions to real scientific problems.

The company's support of FIRST doesn't stop at team sponsorships. More than 800 Caterpillar employees lend their time and expertise as mentors and chaperones for FIRST programs each year.

"Many students that participate in FIRST go on to pursue STEM degrees," said Chief Technology Officer Gwenne Henricks. "We have a number of them that come to work for Caterpillar following their graduation – and they continue their involvement with FIRST as mentors once they get here. It's inspiring to see."

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Upcoming Events

October - Manufacturing Traditions Exhibit opens October 17, 2014.

November 1, 2014 - Caterpillar Visitors Center "Can Build" reveal (In conjunction with the Stuff A Bus Campaign and in partnership with, Robot Casserole, FIRST Robotics Team; City Link and Peoria Friendship House). The finished structure will be on display in the visitors center lobby throughout the month of November.

December 4, 2014 - AG Literacy STEM Event

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