

New For November and December



EDUCATOR RESOURCE GUIDE

CATERPILLAR VISITORS CENTER PRODUCT FLOOR features a Cat® D8T Bulldozer, 586C Site Prep Tractor, 277D Multi Terrain Loader, CB54B Vibratory Roller, TH407 Telehandler, and 303.5E Mini Hydraulic Excavator.

CATERPILLAR VISITORS CENTER HOLIDAY HOURS

Open Monday - Saturday 10:00am - 5:00pm (last ticket sold at 3:30pm)

Closed:

Thursday, November 26 (Thanksgiving Day)

Thursday, December 24 (Christmas Eve)

Thursday, December 25 (Christmas Day)

Thursday, December 31 (New Year's Eve)

Friday, January 1 (New Year's Day)

Things To Know

MAKING TRACKS AT THE CATERPILLAR VISITORS CENTER



TRI-COUNTY URBAN LEAGUE & CATERPILLAR AFRICAN AMERICAN NETWORK



INTRODUCE A GIRL TO ENGINEERING 2015

CATERPILLAR WOMEN'S INITIATIVE NETWORK

CATERPILLAR VISITORS CENTER

Five-hundred students from Central Illinois (5th - 8th grade) participated in the third annual Introduce A Girl To Engineering Day at the Caterpillar Visitors Center on October 20 and 21, 2015. Volunteers from Caterpillar's Women's Initiative Network and Society of Women Engineers taught workshops and mentored students over the two days.

Students learned about process and quality, FIRST Robotics, autonomous technology and remanufacturing. They built bridges and ball launchers and played scrum ball, where students work as a team to see how many balls they can pass through each member in two minutes. Each team plays five iterations. Before each iteration the team will estimate how many balls they can pass. After each iteration they record the actual number of balls that were passed. This activity encourages students to self-organize and develop processes that enables them to move the most balls. Members of the Society of Woman Engineers provided an Additive Manufacturing (3D Printing) demonstration.

Caterpillar Vice President Jean Savage told students she studied engineering in college, spent nine years as a military intelligence officer and has held several manufacturing and engineering leadership positions before becoming the Vice President of Caterpillar's Advanced Components and Systems Division.

Jean told the students, "Graduates of the science, technology, engineering and mathematics fields are a critical piece of the Caterpillar talent pipeline. Today, we have more than 11,000 engineers and technologists developing innovative solutions for our customers. Continuing at this pace requires a sustainable pipeline of technical talent. For that reason we need to encourage skilled trades and vocational skills, as well as cultivate an environment where innovation is rewarded and can flourish."

Events were also held at Caterpillar facilities in Aurora and Decatur, Illinois and South Milwaukee, Wisconsin.

WHAT DO ENGINEERS DO?

Engineers creatively solve problems. They build all types of things that make our world a better place. Many things you use every day were created by engineers. For example, roads, bridges, hospitals, medical supplies, computers, lights, safer goods and new types of plastics.

Critical thinking: As a class, discuss and document other items that you use every day. Research those items and see if you can find the engineer(s) that created those items.

There are many different types of engineers. Let's look at a couple.

Mechanical engineers design, develop, solve problems, and work with power producing machines such as steam and gas turbines; internal combustion engines; electric generators; machines that use power like air conditioners or refrigerators; production equipment like robots used in manufacturing. Mechanical engineers also find solutions to environmental problems.

Electrical engineers design, develop, solve problems and work with electricity. They design and build power lines and power stations. Electricity powers many things we rely on every day such as our furnace, air conditioner, computer, television, appliances, house lights, streetlights and traffic lights.

Critical thinking: As a class, discuss what it would be like if we didn't have engines, roads, bridges, appliances, televisions or traffic lights. Are there things that you would not want to live without? What about heat or lights?

Research: Caterpillar hires many types of engineers such as mechanical, electrical, metallurgical, manufacturing, computer, chemical and welding. We've taken a look at mechanical and electrical engineers. Pick two other types of engineers that sound interesting to you and research what they do and what education you would need if you wanted to become that type of engineer.

INTRODUCE A GIRL TO ENGINEERING 2015



CAREERS AT CATERPILLAR

WHAT IS SUPPLY CHAIN MANAGEMENT?

Final edition

What avenues does Caterpillar utilize to develop a pipeline of talent?

Caterpillar must have a sustainable pipeline of technical talent in order to innovate and remain competitive. In order to build this pipeline Caterpillar participates in several local student outreach programs and has a student trainee program which provides part-time employment opportunities for high school students. Caterpillar targets specific colleges and universities globally based on academic programs, student populations and regional needs.

Additional resources:

For more information on the high school student trainee program, students can contact their guidance counselor's office or call the Caterpillar Student Programs Administrator at 309-494-0314.

Caterpillar actively participates in a number of professional organizations for networking and pipeline building purposes. All full-time Caterpillar opportunities are posted on our career website, which can be found at cat.com/careers. Lastly, Caterpillar also has an active presence on social media networking sites such as LinkedIn, Facebook, YouTube and Twitter.

Additional recommendations for administrators, counselors and educators:

At Caterpillar, a four-year college degree is often required for most professional opportunities. However, not all high school students are college bound. They can still have a successful career at Caterpillar.

Caterpillar recognizes and values hands-on technical skills. A technical skillset can be developed by working on the family farm, tinkering with an old lawnmower or working as a shade tree mechanic.

Educators with students that aren't interested in pursuing a four-year degree can encourage students to pursue a vocationally focused career such as diesel and automotive technology certification programs, welding or associated applied science programs.

