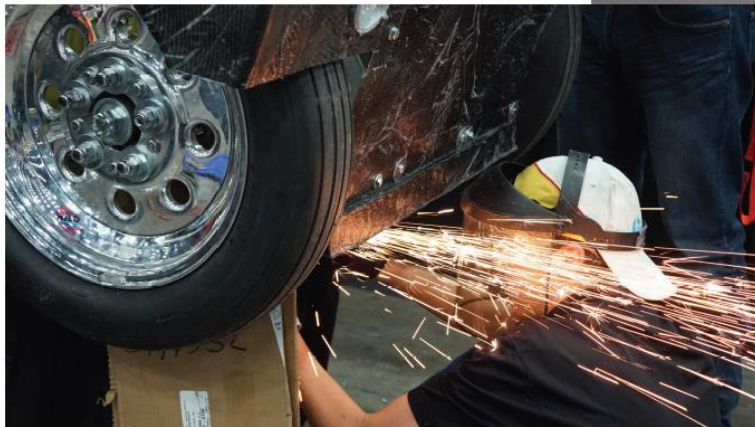




Wheat Ridge High School STEM 2016-2017 Sponsorship Information Packet



Team Bio

The Wheat Ridge STEM Engineering team is a group of high school students at Wheat Ridge High School who are interested in engineering, problem solving, and working in group settings. This program is not limited to any grade level; we are composed of 9th graders through 12th graders. Established in August of 2014, the team's goal was to design and build a carbon fiber based car that would be powered by a hydrogen fuel cell. We have competed in the Shell-Eco Marathon for the past two years, and placed first in the Prototype Hydrogen Fuel Cell division in 2015 and followed that with a runner up result in 2016.

The 2014-2015 team was composed of 16 students, jumping to 40 students last year, and growing to over 70 students this year. Many of our students start the class with little to no experience. The goal of this involved project is to teach students how to work together as they design, manufacture, assemble, and compete. We are excited for a year of success!

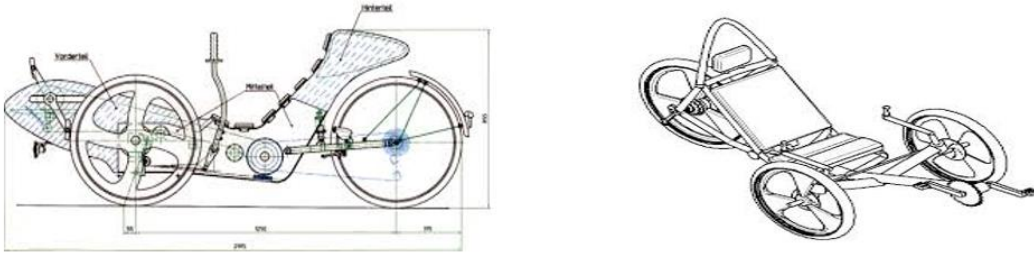
This year we will once again be going to Detroit for the Shell Eco-marathon and we will be adding the Solar Car Challenge in Fort Worth, Texas, NASA Rover Challenge in Huntsville, Alabama, and the first annual University of Colorado Denver Human Powered Vehicle Competition.



2016-2017 Project Descriptions and Estimated Costs

University of Colorado Denver Human Powered Car:

The vehicle is powered directly by the driver and faces many track challenges such as load carrying drive, track obstacles, endurance race, and a design presentation.



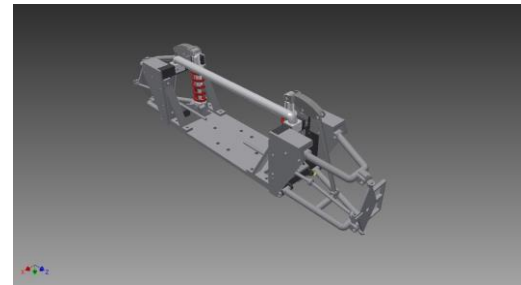
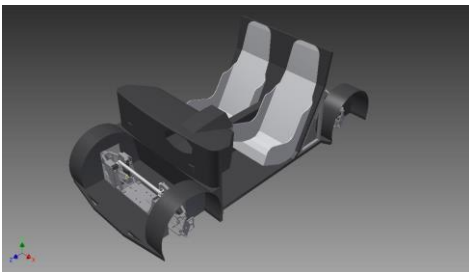
Competition Location: Denver, Colorado (UCD) **Estimated Cost:** \$5,000

Shell Eco Marathon:

Within this competition, student teams all around the world design, build, and test ultra-energy-efficient vehicles. Within the efficiency categories are different sub categories for the energy source. This year, we are planning to use a hydrogen fuel cell for our prototype and our urban concept.

Urban Concept (2 Year Project):

This car is required to meet all of the required rules by Shell, which includes having windshield wipers, headlights, blinkers, etc. New to this year's Urban Concept vehicle, we have added two seats, suspension, hub motor, and a rolling chassis and body panels.

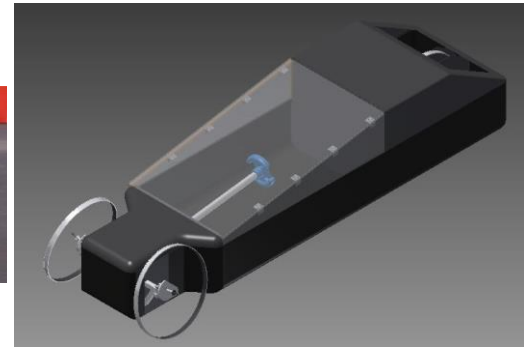


Competition Location: TBD **Estimated Cost:** \$12,000



Prototype:

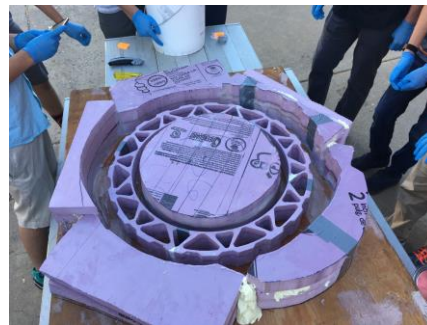
The prototype is designed to be the lightest and most efficient car. This car is required to pass an inspection test as well as race to have the highest mpg-equivalent. With this year's car, we have made the improvements with a self-contained mechanical system, a hub motor for propulsion, separate electrical boards, as well as learning new techniques for laying up our carbon fiber body.



Competition Location: Detroit, Michigan (Cobo Center) **Estimated Cost:** \$10,000

NASA Human Powered Rover:

This vehicle is a human powered rover that must be collapsible and must maneuver through an obstacle course. The obstacle course is 0.6 miles, and this rover will maneuver through terrain that contains loose rocks, sand, and craters.



Competition Location: Huntsville, AL (NASA Headquarters) **Estimated Cost:** \$8,000



Solar Powered Vehicle:

During this competition, the car is required to test for distance within a given time frame. Our body is going to be constructed of a chrome-molly welded frame and is going to be approximately 13 feet long.



Competition Location: Fort Worth, Texas (Texas Motor Speedway) **Estimated Cost:** \$10,000

Sponsorship Benefits

We are seeking companies and individuals to help us achieve our goals and we would truly appreciate you considering to partner with Wheat Ridge High School STEM. We are looking for monetary or materials assistance which will help alleviate production costs, and travel costs throughout this school year. The STEM team will be broadcasting and recapping our competitions through social media and print media. For your convenience we have outlined some of the benefits that will be received at different sponsorship levels. We are excited to work with potential sponsors to find a benefit package that meets their personal preferences.



Level	Bronze	Silver	Gold	Platinum	Diamond
	<\$500	\$500-\$999	\$1000-\$2499	\$2500-\$4999	\$5000+
STEM Web site sponsorship acknowledgement	X	X	X	X	X
Logo on 1 Car		X			
Logo on Both Cars			X		
Logo on both cars 1 engagement				X	X
A Table of 10 for the STEM gala and company sponsor logo in our program					X

***An engagement entitles the sponsor to coordinate with the STEM class to appear with the project sponsored and 2 representatives at a desired event. Length of time at each event will be discussed by both parties. However, Wheat Ridge STEM looks at 2 hours at an event as a standard time frame.**

How to Sponsor

If you are interested in supporting the Wheat Ridge High School STEM program, you can partner with us by filling out the form on the next page. Completely fill out the form and return it to Charles Sprague at Wheat Ridge High School. Please make donation checks payable to **Wheat Ridge Foundation** if you would like an income tax receipt or **Wheat Ridge High School STEM** if no receipt is required. **All donations are tax deductible.** Wheat Ridge High School STEM thanks you in advance for your time and consideration in helping us reach our goal of competing in our competitions.



Name/Organization _____
Mailing Address _____
City _____ State _____ ZIP Code _____.
Phone Number _____ Fax Number _____
Email _____ Website _____

For Materials and Service Donations:

What is the amount of your gift? _____
What is the nature of the gift kind? _____
What is the fair market value of the gift in kind? _____

All Donations are tax deductible:

Is an income tax receipt required? Yes ___ No ___
Sponsor Signature _____ Date _____

Please return this form to:

Charles L. Sprague
Wheat Ridge High School, STEM Program
9505 West 32nd Ave.
Wheat Ridge CO, 80033
Phone: 303.982.7695 (WR Main Office)
Email: clspragu@jeffco.k12.co.us
Website: <https://sites.google.com/a/jeffcoschools.us/wrhs-stem/>
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