



COLLEGE OF
**ENGINEERING, ARCHITECTURE
AND TECHNOLOGY**

CEAT HIGHLIGHTS

March 2021

Announcements

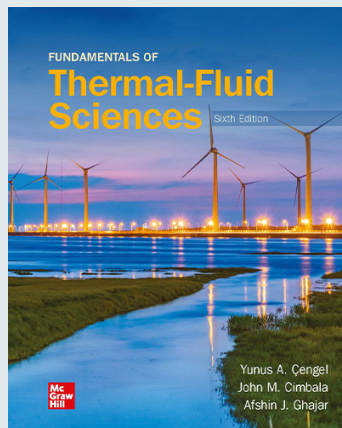
OSU researcher continues to battle pandemics



OSU makes gains in US News and World Report rankings



Oklahoma State mechanical engineering professor publishes his third book



CIBS Highlight Oklahoma Speakers Ball Featuring Ground-Source Heat Pumps



Academics

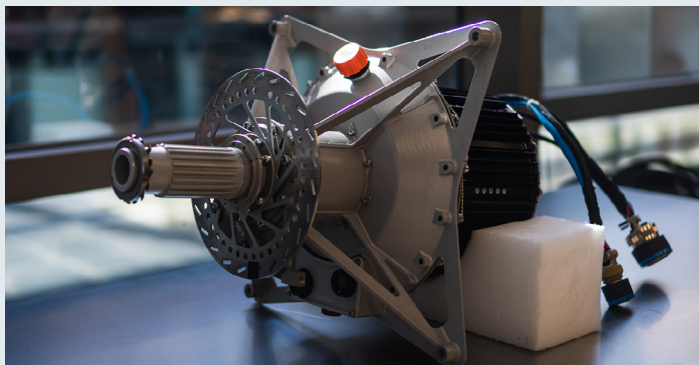
2020 convocation award winners announced



CHE student wins first place in the Riata Center Business Plan Competition



Electric motor donation marks beginning of Skydweller Aero and OSU partnership



Mr. and Miss Hispanic/Latinx winners crowned



Two College of Engineering, Architecture and Technology seniors receive top honors from the Alumni Association



Academics

OSU tops state with three 2021 Goldwater Scholars



Space Grant Students Make Innovative Solar Discoveries in Chile



Team of architecture students achieves finalist in 'Tactical Urbanism NOW!' competition

BASIN

The What

The Basin is a proposed urban development project in the heart of the city, designed to address the needs of the community and provide a sustainable, walkable, and vibrant neighborhood.

The Where

The Basin is located in the heart of the city, adjacent to the downtown area, and is surrounded by existing urban infrastructure and public transit.

The Basin is a proposed urban development project in the heart of the city, designed to address the needs of the community and provide a sustainable, walkable, and vibrant neighborhood.

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Academics

Space Cowboys team won the Argonia Cup rocket competition



The Space Cowboys team won the Argonia Cup rocket competition on Sunday, making this the 4th time in a row the OSU team took home the first place honors. The goal of the Argonia Cup is to launch a rocket to 8,000 feet AGL then return a golf ball in a controlled slow descent closest to a target near the launch pad.

17 teams registered for this year's competition, the largest to date, including 4 Oklahoma universities (OSU, OU, NWSU, and SWOSU). 16 teams flew this year, most with multiple launch attempts. The University of Tennessee took an early lead in the series on Saturday with a successful scoring flight. The OSU teams' first flight on Saturday successfully deployed, but due to an early parachute deployment at high altitude did not land close to the pad so the score was not competitive. On Sunday, OSU's second flight did not perform correctly and resulted in a low scoring flight. Late in the day the SWOSU team had the best flight of the event up to that point, landing just over 500 feet away from the launch pad and taking the lead in the competition.

However, in typical cardiac cowboy fashion, the Space Cowboys team saved their best run for last and went for broke, launching their rocket late in the afternoon on Sunday to over 10,000 feet before returning the payload back to Earth, scoring the best flight not only of this competition but of any Argonia Cup event in the past, landing less than 350 feet away from the target zone and pulling out a first place win.

This year's senior design team designed a fully autonomous micro-aerial vehicle (MAV) with folding carbon fiber wings and an integrated nose that also served as the rocket's nose cone. Their win on Saturday was the first time this combination had been fully and successfully demonstrated. While last year's event was canceled due to the pandemic, OSU placed first in 2017, 2018, and 2019.

Team members: Zac Bycko, Scout Hernandez, Ryan Narrell, Luke Stevenson, and Jeremy Woodruff

Graduate student mentor: Andrew Walsh

Graduate student assistants: Bryce Randall

Faculty advisor and capstone instructor: Jamey Jacob

