



WPAFB Educational Outreach



INSPIRING STUDENTS IN STEM

April 2021

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...Join Us Next Month

- FIRST® Tech Challenge
- FIRST® LEGO League Ohio Championship
- DO STEM



5736 Techno Bots

K-12 STEM ENQUIRER

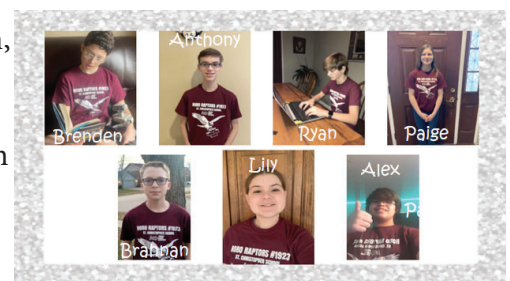
FIRST® LEGO League Global Innovation Award

Each year, FIRST® LEGO League teams from around the globe compete for the Global Innovation Award. This award recognizes the teams with the most innovative solutions to the season's themed project that requires teams to research a real-world problem and propose an innovative solution to the problem. This season, called RePLAY, tasked teams with identifying problems associated with people not being active enough and attempt to solve the identified problem. The teams who make it into the Global Innovation Award contest are teams with highly innovative and often patent-worthy solutions. Three teams from Ohio have made it into the Global Innovation Award Semi-Finals!



2751 Lego Legion (Cincinnati)

2751 Lego Legion from Cincinnati has made it into the semi-finals with their solution called "SmartSteps," designed to help patients with physical therapy following an injury. Lego Legion was a global runner up in this contest just two seasons ago! 1923 Robo Raptors from Dayton and their invention, The Assist, Assist solves the problem of engaging people with disabilities through sports by giving them the opportunity to play an adaptive arcade basketball game. This is Robo Raptors second consecutive year making it into the semi-finals! 5736 Techno Botz is the third team from Ohio that qualified this season, making it for the first time,



1923 Robo Raptors (Vandalia)

with their invention, The Fun Fungus, a free-standing calming space designed to help autistic children refocus and calm down when overstimulated while playing at a playground.

We are so excited for and proud of all three teams for their success this season! We wish them the best of luck in advancing to the finals in May!

More information about the Global Innovation Award can be found here: <https://www.firstinspires.org/community/innovation>

WOW! in Beavercreek!



Students in Beavercreek had some great STEM experiences in April as all 6 elementary schools (Fairbrook, Main, Parkwood, Shaw, Trebein and Valley Elementary) all scheduled Educational Outreach lessons for their students.

Approximately 1500 students and 70 teachers used several Flights of our WOW! program. The lessons were provided by WOW! TV for Teachers and the materials were delivered through WOW! on Wheels. http://wpafbstem.com/pages/wow_tv.html; http://wpafbstem.com/pages/wow_wheels.html

Kindergarteners used the WOW! Bubbles and Water lesson to learn about cohesion and surface tension. After predicting the possible shape and size of a bubble, the students experimented with different shapes of wands to blow their bubbles, and test those predictions.



First grade students used the WOW! UV Rays lesson to learn about the sun's rays, UV light and different ways to keep their skin protected. Students used UV beads to create their own sensors that change color when they come in contact with UV light. They kept their bracelets and key chains as reminders to protect their skin. The second grade students used the Design Thinking for Elementary Students lesson which focuses on empathy



and thinking about what someone else might need and why they need it. They received prompts identifying a person and a problem and after brainstorming, were able to build a prototype of how they could help that individual.

Please check out our website to schedule these lessons, and many others, for your students.

<http://wpafbstem.com/>

