



# WPAFB Educational Outreach



INSPIRING STUDENTS IN STEM

## K-12 STEM ENQUIRER

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Daniel J. Andrews  
AFRL/EZE STEM Division Chief  
WPAFB K-12 STEM Lead  
LEGACY Program  
WPAFB Educational Outreach Office  
STARBASE Wright Patt  
2261 Monahan Way, Bldg. 196  
Wright Patterson AFB, OH 45433  
[daniel.andrews.1@us.af.mil](mailto:daniel.andrews.1@us.af.mil)

### FLL Tournaments

FIRST LEGO League Challenge tournaments kicked off in November with events in Cincinnati and Northeast Ohio! 29 teams competed at these two events, showing off all they have learned and accomplished so far this season. The MASTERPIECE season focuses on STEAM; Science, Technology, Engineering, Art, and Mathematics. In addition to designing LEGO robots to score as many points as possible in 2.5 minutes, students were challenged to practice and master teamwork skills, and to research art and technology and use both to increase participation in something they love. As always, we were so impressed with what these young innovators were able to design, build, program, and create!

The top teams qualified to compete at the next level competitions which will take place in January. From there, they have the opportunity to qualify for the state championship hosted by the WPAFB Educational Outreach Office in March.

[Click here](#) for more information about FIRST LEGO League.

[View results](#) from the Ross Rambotics Qualifier in Cincinnati.

Volunteer for an event, contact [Kim Stultz](#) and/or [Brenda Ronnebaum](#).

#### In This Issue...

FLL Tournaments	1-3
WOW! Lesson Spotlight	4
Mentors & Tutors Available	5
Employee Spotlight	5



#### Join us next month...

FLL Explore Event in Toledo



FLL Tournaments cont'd.



FLL Tournaments cont'd.



## WOW! Lesson Spotlight

**Animal Adaptations** introduces students to the idea of animals adapting to suit their environments. Students will examine the specific traits some animals have that make them special. The activities help students understand how these traits help animals survive. (Most appropriate for grade levels K-3.) Lesson Time: 45-60 minutes.



**Little Bits** introduces/reviews electricity, currents, and energy. Students will learn what different Bits do, brainstorm something to create using Little Bits, and complete different circuits. Subsequent lessons allow students to complete more Little Bits challenges while making real world connections to technologies, as well as creating their own circuits. Little Bits are small electronic pieces that snap together magnetically to form bigger circuits. They are easy-to-use with no wiring or programming needed. (Most appropriate for grade levels 4-8.) Lesson Time: 45-60 minutes.



Both lesson spotlights are available through the **WOW! in the Classroom** Flight, the **WOW! on Wheels** Flight, and the **WOW! TV for Teachers** Flight.

Visit our [website](#) to learn more about the lesson materials available to educators through our WOW! program.



## Mentors & Tutors Available

WPAFB volunteers are available to mentor and tutor students in a wide variety of subjects. Volunteers meet the student(s) and their teacher at the school during sessions. The operational radius for in-person sessions is 35-miles from WPAFB. *Virtual sessions can be arranged if necessary.* Contact [Jessica Johnson](#) for more information.



**Mentors** advise students working on a variety of STEM-related assignments including science fair projects, NASA Hunch, Independent Immersion projects, Science Olympiad, Cyber Patriot, etc. Click [here](#) to request a Mentor!



**Tutors** support students' learning in the classroom by working one-on-one or in small groups on a variety of subjects to help students stay on track with their coursework. Areas of study include: math, reading, writing, spelling, etc. Click [here](#) to request a Tutor!

## Employee Spotlight

**Name:** *Bryan Stevens (civilian)*

**Title:** *DAF LEGACY Technical Advisor*

**Program:** *LEGACY*

**Years with the EO office:** *2 weeks*



**What are you most excited about in your role with LEGACY?** *The ability to impact kids early in their life to understand they have the fortitude and ability to achieve anything they put their mind to.*

**What goal would you like to accomplish in your first year with LEGACY?** *To increase the number of students being outplaced in government civilian positions as well as finding methods to illustrate the progressive pipeline as students transition from one phase to the next within LEGACY.*

**What is your favorite aspect of working with students in STEM?** *Changing/impacting the students within all the phases of LEGACY.*

**If you had one superpower, what would it be and why?** *Interesting question as I am just thankful to be who I am as well as making it this far. However, if I had to choose one superpower it would be the ability to see the future. I know with "great power comes great responsibility" so this power is dangerous as you will always know what is about to occur, but it will help the LEGACY team in the long run and give the team an advantage.*

