



Higher Orbits GO FOR LAUNCH! AIAA APOLLO SERIES

July
23rd & 24th



**COMPETE TO HAVE YOUR
EXPERIMENT FLOWN TO THE
INTERNATIONAL SPACE STATION!**

**LEARN FROM ASTRONAUTS
AND OTHER EXPERTS!**



**EXPLORE AND
DISCOVER!**

SPRING GROVE, IL



**TURTLE CREEK
7908 WINN ROAD | SPRING GROVE, IL 60081**

**8AM-6PM EACH DAY
STUDENTS GRADES 8 THROUGH 12 FROM ALL SCHOOLS WELCOME**

**INCLUDES LUNCH, SNACKS, DRINKS, SUPPLIES, T-SHIRT,
EVENT MISSION PATCH, SPACE SWAG BAG AND MORE!**

#GoForLaunch | @higherorbits | (707) 893-STAR | PO Box 4092, Leesburg, VA 20177
To find out more and register visit: www.GoForLaunch.space or email GoForLaunch@higherorbits.org
*Scholarships may be available for those who have financial need. Please contact us for details

WHAT IS IT?

A program that uses Space Exploration as a platform to launch student involvement in:

- STEAM (Science, Technology, Engineering, Art & Math)
- Teamwork
- Communication
- Leadership



ARE THERE HANDS ON ACTIVITIES?

Student teams will work together on collaborative activities before or after nearly every talk to earn daily awards. Each team will work together to define and design their own space experiment & present their ideas to a panel of judges from the Space & STEM fields. The judges will choose a winner from each **Go For Launch!** event. The experiment will go on to compete against other projects from the same division and the winning experiment will be launched into space!



WHY SHOULD I ATTEND?

Go For Launch! is a unique and memorable experience. Space inspires! The **Go For Launch!** experience gives students experience and skills that can lead to success in any venture that requires imagination, leadership, teamwork, and problem solving skills.



THE TEAM

Kay

ASTRONAUT KAY HIRE

Hire joined the NASA team in 1989 where she worked as a space shuttle orbiter mechanical systems engineer, test project engineer, and supervisor of space shuttle orbiter mechanical systems and launch pad access swing arms at Kennedy Space Center. She reported to the Johnson Space Center in 1995 as a member of Astronaut Group 15, becoming the first astronaut selected from the Kennedy Space Center workforce. She flew to space for the first time as a mission specialist aboard Space Shuttle Columbia for the 16-day Spacelab NeuroLab mission, STS-90, in 1998. The seven-member crew played both the role of experiment subjects and operators for 26 life science experiments focused on the effects of microgravity on the brain and central nervous system.

Hire flew to space on a second mission aboard Space Shuttle Endeavour for STS-130 in 2010 to help assemble the International Space Station. Hire and her crewmates delivered and outfitted Node 3, also known as the Tranquility module, and the Cupola, a seven-windowed portal for the space station which has been a focal point of the station since installation. As a mission specialist, Hire operated the robotic arms, led the transfer of 4,500 pounds of cargo, and helped install water recycling, air cleaning and cooling, and crew exercise equipment in Node 3 and cupola. Between her space flights, Hire supported missions in various roles including Capsule Communicator (CAPCOM) in mission control, Astronaut Support Personnel where she strapped crew members into the space shuttle orbiter for launch, and management astronaut in which she helped develop procedures for commercial spacecraft carrying cargo to the International Space Station.

During her career, Hire logged more than 3,400 flight hours in various aircraft, and more than 711 hours in space.

MICHELLE LUCAS FOUNDER & PRESIDENT OF HIGHER ORBITS



Michelle spent 10 years working at NASA primarily in International Space Station (ISS) Flight Control Operations Planning and as an Astronaut Instructor in the Daily Operations Group. Her passion for inspiring students led to extensive work with other organizations in STEM outreach. She then decided to form Higher Orbits to continue to work to inspire students about the wonders of STEM through spaceflight.

WHAT CAN I EXPECT?



Learn about human spaceflight directly from experts in the fields of space & STEM including:

- An Astronaut and Astronaut Instructor
- International Space Station Flight Controller
- Scientists and Engineers

Get personalized insight and feedback from experienced space and STEM professionals whose goals are to illustrate the numerous possibilities that exist in the world of STEM. Work with a real live astronaut for each day of the event.

**More to be
announced soon!
Check website**

www.GoForLaunch.space