

TEACHERS IN SPACE

A Project of the Space Frontier Foundation

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Training Future Commercial Astronauts Around The Globe

By Kevin Heath

CEO of Waypoint 2 Space

Since the first manned flight to space, our dreams of traveling to space have become reality. Space entrepreneurs using new ideas and technologies in pursuit of personal spaceflight and global transportation have led to companies like Virgin Galactic, Blue Origin, XCOR, Sierra Nevada and SpaceX taking charge of the next space adventure. The new space adventure promises to fulfill the dream that anyone can now venture into space, experience weightlessness and ultimately become an astronaut.

To address a growing need for training, I created Waypoint 2 Space assembling a team comprised of the same individuals who developed training programs for NASA Astronauts and Air Force pilots. We are using the best techniques and technologies from those programs for the training programs offered by Waypoint 2 Space. The fully comprehensive training programs offered by Waypoint 2 Space are one of a kind and setting the standards for the commercial spaceflight industry. In addition, Waypoint 2 Space was recently granted an FAA Safety Approval, which is a testament to the company's commitment to the highest standards of training.

It's not just about training these people for the ride, it's about preparing their minds and bodies for where they are going...space. Flights to space can really mess with your mind and body and some people experience sensory overload. I'll give you an example, I went on an extreme roller coaster ride a couple of years ago and waited in line for over 2 hours to ride. When I finally went for my 3 minute ride it was so intense with the flips, spinning, loops, etc. that to this day I don't even remember it. With that in mind we have designed training programs that hit your mind and body with everything we can here on earth so that if you do decide to fly into space you are prepared and can get the maximum enjoyment out of your trip.

Waypoint 2 Space offers three space training programs starting with Level 1 – Spaceflight Fundamentals: An Introduction to Astronaut Training which is a week long, fully immersive training program giving each participant hands-on experience with every aspect of traditional astronaut training. Participants experience micro gravity and simulated spacewalks in a fitted pressure suit, test their bodies against G-forces during acrobatic flights, and even perform spacecraft operations to include docking maneuvers and extra-planetary exploration. This program is for anyone interested in spaceflight or training like an astronaut – ultimately, the first step in a great space adventure. Waypoint 2 Space also offers Level 2 – Sub-Orbital and Level 3 – Orbital training programs for those wanting to fly into space.

Waypoint 2 Space is committed to developing the next generation of space explorers and is thrilled to collaborate with Teachers in Space on lesson plans and experiences sharing the excitement of space with their students. "One of the company's goals is to get students excited and dream about the possibility of living and working in space so they may pursue science, engineering and technology disciplines making their dream a reality - and working with Teacher's in Space is a fantastic opportunity to do just that." Commented Heath. As part of the company's outreach program, Waypoint 2 Space will work with Teachers in Space to not only set up a discounted rate program but to also lobby industry and Congress for more Grant programs to fund such training. Interested teachers are invited to contact Teachers in Space for details. Waypoint 2 Space is very excited to be a partner with Teachers in Space and looks forward to a very bright future!

For more information on Waypoint 2 Space please contact Keven Heath Kevin.Heath@waypoint2space.com

“What sets you guys [Teachers in Space] apart is you're actually flying stuff”

- Dennis Stone, Manager of Program Integration, Commercial Crew & Cargo Program, NASA Johnson Space Center

SSEP Mission 5 to Launch

Orb-2 is set to launch out of MARS, Wallops Flight Facility on Wallops Island, Virginia on May 6, 2014. Aboard this are 15 experiments from student teams around the nation. David Milch is a technology teacher at Milton L. Olive Middle School, Wyandanch Union Free School District. His 7-8 grade proposal is to test the Affected Efficacy of Sprayed Enamel Coating as a Corrosion Inhibitor was chosen as the Teachers in Space experiment. To test they will use Co-ca-Cola as the corrosive agent on two iron discs sprayed with Stop Rust spray paint as well as two discs without the coating.

For more information about this launch or for launch updates visit Student Spaceflight Experiments Program (SSEP) website at

<http://ssep.ncesse.org/communities/experiments-selected-for-flight/selected-experiments-on-ssep-mission-5-to-iss/>

Workshop DEADLINE APPROACHING

The Flight Experiment workshop offers hands-on, repeatable experience with suborbital and orbital experiment design and launch processes. Participants will build, launch, track, retrieve, and analyze captured data from weather balloon experiments which can be recreated within a typical classroom budget. Teachers will learn about commercial spaceflight, suborbital and glider and balloon flight, meteorology, basic glider controls, basic instrumentation, control surfaces, and simple pre-made instruments that will be flying with teachers in gliders and on weather balloons. They will also learn about pressure change, accelerometers, and dosimeters. The experience will culminate with teachers practicing what was learned during the week as they launch their own weather balloons.

The workshop is offered for high school teachers of math, science and technology. This workshop will be held in Columbus GA, on July 21-25, 2014. **Application deadline is April 11th, 2014**

APPLY NOW at

<http://tis.spacefrontier.org/>

For more information on the Flight Experiment Workshop please contact Rachael Manzer at rmanzer@hotmail.com