

The Training Equipment



GYROLAB GL-2000

The GYROLAB GL-2000 is a short-arm centrifuge that can model the various aspects of a space launch profile up to 2.5 Gs (two and one-half times the natural pull of the Earth).

Altitude Chamber

Also known as the Hypobaric Chamber, the NASTAR Altitude Chamber can simulate atmospheric conditions up to 100,000 feet.

STS-400 Space Training Simulator

The STS-400 is a 25-foot-arm centrifuge with a full-motion gondola at the end of the arm. The STS-400 is capable of duplicating the flight profile of any launch vehicle. Think of it as what a GYROLAB GL-2000 becomes when it grows up.



The Training Facility

The NASTAR Center is located in Southampton, Pennsylvania, not far from Philadelphia. The first-class facility was designed specifically for civilian astronaut and advanced pilot training and features the latest in training technology.

800-644-7382

Space Stuff Challenge Day 1

(Sample Itinerary)

900-1100

- Welcome
- Greeting & Log In
- NASTAR Center Tour
- Individual Medical Check-In & Interview
- Suit-Up

1100-1200

- Mission Prep
- Introduction to Your Mission Specialist
- General Mission Brief: G Tolerance and Altitude
- Exposure with Space Launch Simulation
- Discussion of Goals & Outcome of Experience

1200-1300

- Lunch Break

1300-1400

- Physiology of G Exposure
- Introduction to Acceleration
- Physiological Effects of G
- G-LOC Characteristics & Prevention
- Anti-G Straining Maneuver (AGSM)
- Stress & Stress Management
- Physical Conditioning & Diet

1400-1600

- Mission Stage 1: G Tolerance Prequalification
- G and Spatial Orientation Profiles: GYRO-LAB to 2.5 G

1600-1630

- Mission Debrief



Incredible Adventures, Inc
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Space Stuff Challenge Day 2

(Sample Itinerary)

900-1000

- Physiology of High Altitude Exposure
- Gas Laws & Atmospheric Physics
- Physiology of Respiration & Circulation
- Effects of Trapped Gas in the Human Body
- Effects of Hypoxia & Hyperventilation
- Altitude Chamber Oxygen Equipment Familiarization
- Chamber Flight Profile Briefing

1000-1200

- Mission Stage 2: Altitude Chamber
- Profile to 16,000 feet
- Debrief

1200-1300

- Lunch Break

1300-1400

- Mission Brief
- Review of Effects of Acceleration and G
- Introduction to STS-400

1400-1600

- Mission Stage 3: STS-400 Sub-Orbital Flight Profile
- Launch segment up to 3.5 Gx
- Re-entry segment up to 3.5 Gx
- Debrief

1600-1700

- Mission Debrief & Awards
- Mission Completion. Certificate Award Ceremony & Reception

NOTE: SUCCESSFUL COMPLETION OF THIS TWO-DAY SUB-ORBITAL SPACE LAUNCH EXPERIENCE WILL NOT QUALIFY YOU FOR A FLIGHT TO ASTRONAUT ALTITUDE. IT'S DESIGNED AS A FIRST STEP TOWARD THAT CERTIFICATION PROCESS.



We've found a way to deliver a suborbital flight experience that doesn't require you to leave the atmosphere...or even the building.

Experience Space on Earth.

While our newest space adventure won't officially qualify you for a suborbital space flight, it will give you a pretty good idea if you have the right stuff for space.

Using the same sophisticated simulators used to train astronauts and fighter pilots, we'll test your senses (and your stomach) in ways you never imagined.

The introductory price of this two-day adventure is \$4950 + lodging and airfare and is based on a training class of six. Sessions are typically held once a month and take place on Thursdays and Fridays. Groups of six can pick their own dates. Custom programs featuring more or less training are also available. Call for dates & details.

Are You Space Worthy? & Other Big Questions & Answers

Who should do this?

People planning to leave the planet. We think this program is a must for anyone even considering the purchase of a civilian space flight. Each sub-orbital company will provide its own pre-flight training, but not until shortly before the flight itself. What if you pay for a flight and then just days before take-off, you learn you don't have the right stuff for space? Wouldn't you rather know how your body reacts to high g-forces before you put down a big deposit? (And yes, we just answered a question with two questions.)

Everyone with a love for things "space". Our program is designed to simulate the entire sub-orbital space flight experience. Using very sophisticated simulators, we can duplicate virtually any planned sub-orbital flight profile. You'll feel like you've been to astronaut altitude and back. Except there will be more money left in your bank account when you get home. This adventure offers a realistic space flight experience at a tiny fraction of the cost of a real sub-orbital flight. Think of it as a Disney space ride on steroids.

What physical requirements are there? You should be in reasonably good health. We suggest you check with your doctor first, but an actual FAA medical isn't mandatory.

Where do I stay and how do I get there? Transportation to the facility and lodging during training is not included. If you're flying in, the closet major airport is Philadelphia. We'll be happy to provide a list of recommended hotels.

Before you can fly, you've got to spin.



Not so far away
In a galaxy known as Pennsylvania, people are getting ready for a journey unlike any other.

They're training to go where few civilians have gone before...

Astronaut Altitude

Prepare to leave the planet.

You can't fly high if you don't have the right stuff.



800-644-7382
941-346-2603 tel.
941-346-2488 fax



Space is as close as Pennsylvania.
www.incredible-adventures.com

Civilian Space Flight Training
"The Sub-Orbital Space Launch Experience"
Offered exclusively at the NASTAR Center

800-644-7382