



# **“XPLORATION OUTER SPACE”**

SEASON VI - 2019/2020

FCC FRIENDLY EPISODE WRITE-UPS

## **FIRST QUARTER**

**Week of December 30, 2019 through week of March 23, 2020**

### **Week of December 30, 2019 (Episode #118)**

When Neil Armstrong became the first human to set foot on the moon, it put an emphatic end to the space race between the United States and the Soviet Union. Host Emily Calandrelli looks at the accomplishments of Armstrong and Buzz Aldrin, the two astronauts who first landed on the moon.

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### **Week of January 6, 2020 (Episode #119)**

Is Mercury the hottest planet in our solar system? No, it’s not. There’s a lot of misinformation about our solar system. Host Emily Calandrelli speaks to two experts who debunk many of the myths about outer space.

### **Week of January 13, 2020 (Episode #120)**

There have been a few occasions when spacecraft have been lost in space. Host Emily Calandrelli looks at several of these adventures. In some cases, the spacecraft that were lost, were remarkable found again.

### **Week of January 20, 2020 (Episode #121)**

Canada has made significant contributions to the space effort, despite having a much smaller budget than NASA. Host Emily Calandrelli visits the Canadian Space Center in Quebec, and examines their exceptional expertise in robotics, which includes the famous Canadarm.

### **Week of January 27, 2020 (Episode #122)**

Host Emily Calandrelli looks at NASA’s next mission to send a spacecraft that will “touch” the sun. She also witnesses a total solar eclipse, and visits a man who races homing pigeons, a bird that uses the sun to navigate its way home from hundreds of miles away.



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**Week of February 3, 2020 (Episode #123)**

A look at the first African-American woman in space and the first spacecraft to reach interstellar space. Host Emily Calandrelli interviews several pioneers of space and discovers the determination and courage required to become the “first.”

**Week of February 10, 2020 (Episode #124)**

Many private companies are working with NASA to make space exploration more efficient. Host Emily Calandrelli visits the Sierra Nevada Corporation, which is building a spacecraft that can deliver cargo to and from the International Space Station.

**Week of February 17, 2020 (Episode #125)**

A boy scout troop sends an experiment to the International Space Station. A 14-year old girl has aspirations of becoming the first astronaut to set foot on Mars. Host Emily Calandrelli looks at students who are becoming involved with space exploration.

**Week of February 24, 2020 (Episode #126)**

One lucky student wins the prize of going to Hawaii and experience the HI-SEAS habitat, which simulates life on Mars. Host Emily Calandrelli joins the contest winner in this special episode.

**Week of March 2, 2020 (Episode #127)**

The InSight Lander is on its way to Mars. Host Emily Calandrelli discovers what it takes to prepare this spacecraft for its mission, learns all about the science it will do once it lands, and feels the power of this historic launch.

**Week of March 9, 2020 (Episode #128)**

Do you know which planet in our solar system has a longer day than year? Or why Apollo astronauts were quarantined after returning from the Moon? Learn all this and more as host Emily Calandrelli speaks to two experts about the most fascinating facts about our universe.



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**Week of March 16, 2020 (Episode #129)**

Host Emily Calandrelli explores the future of space medicine and how we may overcome the challenges ahead. She operates a small surgical robot and 3D prints a custom medical device.

**Week of March 23, 2020 (Episode #130)**

Astronauts from the last five decades share stories of their adventures. Scientists and engineers involved with exploring space also give insights to the fascinating worlds within our solar system.