



“XPLORATION OUTER SPACE”

SEASON VI - 2019/2020

FCC FRIENDLY EPISODE WRITE-UPS

SECOND QUARTER

Week of March 30, 2020 through week of June 15, 2020

Week of March 30, 2020 (Episode #131)

Countless spacecraft, such as Cassini and Galileo, have made invaluable discoveries in our solar system – but they can’t last forever. Who decides when and how to end their missions? Host Emily Calandrelli speaks to NASA scientists at the heart of these decisions.

Week of April 6, 2020 (Episode #132)

Host Emily Calandrelli discovers various ways the public is helping scientists explore outer space; from sending bacteria samples to the International Space Station to tweeting observations about the Northern Lights. Another way they help is by using home computers to search for alien life.

Week of April 13, 2020 (Episode #133)

Once we land on Mars, how will we survive? Host Emily Calandrelli visits NASA’s Swamp Works, which tests space suits and machines for Mars-like conditions. We also look at the history of space suits, and discover a futuristic space suit that’s in the works at MIT

Week of April 20, 2020 (Episode #134)

To send rockets to outer space, it requires all types of engineers. Host Emily Calandrelli visits four types of engineers who are on the cutting edge of aerospace technology. From building rocket engines using 3D printing to creating autonomous robots that will explore Mars, we’ll look at a variety of exciting careers.

Week of April 27, 2020 (Episode #135)

There’s a new generation of satellites that are heading for low-earth orbit. They’re now smaller and smarter than ever before. Join host Emily Calandrelli as we look at satellites that will provide us with instant images of our planet and bring high-speed internet to every human on Earth.

Week of May 04, 2020 (Episode #136)

Four artists display their unique methods of illustrating the mysterious frontier of outer space. Don Pettit, an astronaut, takes amazing photos from the International Space Station. Another artist uses spray paint to portray vivid views of space. Host, Emily Calandrelli tries spray painting as well.



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Week of May 11, 2020 (Episode #137)

Private companies are now making plans to venture into outer space to mine valuable resources from asteroids and the moon. But is it legal? Join host Emily Calandrelli as we look at the futuristic plans of these companies, and the recent laws giving them permission. We also look at the legal battles of one man who boldly claims to own an asteroid.

Week of May 18, 2020 (Episode #138)

Four astronauts who have gone on missions into outer space share their perspective of life in micro-gravity. Host Emily Calandrelli visits each astronaut, including Story Musgrave, the only astronaut to fly aboard all five space shuttles, and Anna Fisher, one of the first American females to go into space.

Week of May 25, 2020 (Episode #139)

High school and college students compete for a fantastic prize: Going aboard a Zero-G aircraft where they'll experience microgravity with host, Emily Calandrelli. We'll see the student-winner try to execute a scientific experiment in weightlessness.

Week of June 1, 2020 (Episode #140)

When venturing into deep space to discover new worlds, robots are needed to first explore these extreme environments. Host Emily Calandrelli shows us robots that are leading the way, both to Mars, and other destinations in the future.

Week of June 08, 2020 (Episode #141)

The Space Shuttle program spanned 30 years, and accomplished many things in low-Earth orbit. Host Emily Calandrelli speaks with five astronauts who ventured into space aboard this amazing and complex spacecraft.

Week of June 15, 2020 (Episode #142)

We'll explain why Pluto is no longer considered a planet, and why some scientists believe there is another planet in our solar system that hasn't been discovered yet. Host Emily Calandrelli looks at many objects that, regardless of definition, look like new and fascinating planets. farming. And a “cool” solution to refrigeration is inspired by ants, elephants and kangaroos.