



“XPLORATION OUTER SPACE”

SEASON V - 2018/2019

FCC FRIENDLY EPISODE WRITE-UPS

FIRST QUARTER

Week of December 31, 2018 through week of March 25, 2019

Week of December 31, 2018 (Episode #118)

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 January 7, 2019 (Episode #119)

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.

Week of January 14, 2019 (Episode #120)

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 January 21, 2019 (Episode #121)

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.

Week of January 28, 2019 (Episode #122)

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.



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Week of February 4, 2019 (Episode #123)

Host Emily Calandrelli gets an inside look at some of the coolest jobs in the space industry. From becoming a famous space YouTuber, to smelling items before they go to the International Space Station, these are not your typical careers.

Week of February 11, 2019 (Episode #124)

Scientists and engineers sometimes have to go to extremes to learn more about our universe. Host Emily Calandrelli boards the world's largest flying observatory, dives to an underwater habitat, and explores a laboratory nearly a mile underground.

Week of February 18, 2019 (Episode #125)

In recognition of the 50th anniversary of landing on the moon, Xploration Outer Space celebrates and remembers this incredible event, with amazing footage and new interviews with astronauts and historians.

Week of February 25, 2019 (Episode #126)

Host Emily Calandrelli holds the fourth annual #StudentAstronaut Contest. One lucky student wins a trip to Russia to train like a cosmonaut at the Yuri Gagarin Cosmonaut Training Center.

Week of March 4, 2019 (Episode #127)

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 March 11, 2019 (Episode #128)

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.



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Week of March 18, 2019 (Episode #129)

XPLORATION OUTER SPACE names “The Top 20 Greatest Moments in Space: Caught on Video.” These are the most breathtaking, the most dramatic, the most important and the most fun images captured by the space program from here in our solar system to the galaxies beyond. From milestones in space travel to startling discoveries in space, this special episode counts down a memorable Top 20 that’s out of this world.

Week of March 25, 2019 (Episode #130)

You may not know it, but every day you’re using technology from space right here on earth! From the tiny camera in your smart phone... to the space-age material that helps people walk again on prosthetic limbs... Host Emily Calandrelli discovers the products made for the NASA space program that now make life better down here on the ground.