



## **“XPLORATION NATURE KNOWS BEST”**

SEASON IV - 2019/2020

FCC FRIENDLY EPISODE WRITE-UPS

### **THIRD QUARTER**

Week of June 22, 2020 through week of August 24, 2020

#### **Week of June 22, 2020 (Episode #143)**

Host Danni Washington presents the amazing world of Bio-Hybrid science, where sea slugs become robots, spinach plants prevent explosions and jellyfish could help prevent heart failure.

#### **Week of June 29, 2020 (Episode #144)**

Our oceans are almost as vast and unexplored as the far reaches of our solar system. Join host Danni Washington as she meets an inventor using squids to create a new kind of camera. She gets up close to a tiny shrimp that's helping scientists develop bullet-proof armor. And she sees a suction cup—inspired by an octopus---that's taking to the skies, on drones.

#### **Week of July 6, 2020 (Episode #145)**

Whether it's under the ocean, in the jungle, or up in the air, our animal friends can have a remarkable way of presenting themselves to the world. Host Danni Washington straps on bionic boots inspired by the ostrich. She sees clothing of the future that could last nearly forever, all thanks to the humble squid. And coral is providing a unique way for us to keep plastic waste from entering our oceans.

#### **Week of July 13, 2020 (Episode #146)**

Host Danni Washington presents the latest robots, inspired by nature. In this new age of robotics, machines slither like snakes, robots with wings fly like birds and squishy mechanical creatures inch along like worms.

#### **Week of July 20, 2020 (Episode #147)**

When it comes to biomimicry, the Animal Kingdom isn't the only place to look for inspiration! In this episode, host Danni Washington uncovers some of the different ways plants and fungi are inspiring new inventions and technologies – like a pair of baby shoes made from mushrooms... solar panels inspired by the sunflower... and a “splash pad” that's modeled after moss.

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#### **Week of July 27, 2020 (Episode #148)**

The millions of species on Earth have spent billions of years learning to survive vast changes in climate. Host Danni Washington follows scientists and inventors as they turn to Nature to help us cope with a warming world. Did you know robotic mussels are on the front lines of monitoring our oceans? Or that palms trees are models for future wind turbines?

#### **Week of August 3, 2020 (Episode #149)**

Host Danni Washington explores the latest advances in medicine, all inspired by nature. She discovers a glue made from synthesized mussel adhesive, a prototype for an artificial heart that is part spinach leaf and a new form of cardiogram based on an ivy plant.

#### **Week of August 10, 2020 (Episode #150)**

Host Danni Washington visits NASA to learn how biomimicry is being used for space exploration. Through virtual reality she visits the International Space Station, learns how a Mars Rover has been inspired by the inchworm, and discovers that NASA is reducing sound in aircrafts by producing materials that copy sea sponges.

#### **Week of August 17, 2020 (Episode #151)**

Host Danni Washington experiences amazing new modes of transportation, all inspired by nature. There's a robot on wheels, patterned after sea urchins, that may someday roll on Mars. And a motorcycle inspired by shark skin that could break the land speed record.

#### **Week of August 24, 2020 (Episode #152)**

Host Danni Washington explores advances in science - inspired by nature - that will change our everyday life. She tests a new type of glass, inspired by spiders, that deters birds from crashing into it. And she visits a new type of farm that delivers better-tasting produce at a cheaper cost than traditional farms.

