



“XPLORATION EARTH 2050”

SEASON VI - 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)

Green technology is radically changing the way people get around. Host Chuck Pell will take to the road in a hybrid between a solar powered car and an old fashioned tricycle-- that has no carbon footprint. He'll visit the factory where electric powered buses are changing the daily commute for millions. And trains that float just inches above the ground will get you from one major city to the next as fast as an airplane.

Week of June 29, 2020 (Episode #144)

If you want to see some of the world's most famous treasures, you often have to travel thousands of miles. Now, as host Chuck Pell saw for himself, high tech is bringing fossils, artwork and historical artifacts to classrooms around the world. And virtual reality is changing the way teachers learn to do their job. Chuck goes to the virtual classroom to test himself in front of students of the future.

Week of July 6, 2020 (Episode #145)

Inventors are up to some crazy things. We'll see a mirror that records your reflection—from all sorts of angles--- and downloads all those images to your cell phone. Host Chuck Pell will demonstrate a bulletproof material made of a new kind of foam. And a New York City hotel has a new employee: a two-ton robot that loves to handle visitors' luggage.

Week of July 13, 2020 (Episode #146)

Doctors and botanists have come together to GROW medicine. Host Chuck Pell visits a lab where vaccines are developed inside of plants and then processed into pills---a development that could save millions of lives in the developing world. Drones are being used to deliver medicine not only across town---but across your living room. And virtual reality is giving doctors a view of the human body they've never had before.

Week of July 20, 2020 (Episode #147)

Humans have always been interested in the workings of planet Earth and high tech is giving them all sorts of new insights. Did you know that Earth's magnetic poles have shifted dozens of times during the planet's history? Host Chuck Pell visits scientists who've created a huge device that shows how this happens and predicts when it will happen again. And we'll explore the farthest reaches of the ocean's floor—an area we know less about than the surface of Mars!

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Week of July 27, 2020 (Episode #148)

Movies and video games have been creating simulated environments for years but now the military is creating physical environments that simulate rain forests, deserts, combat situations, and even the surface of Mars. Host Chuck Pell goes to a lab where he's in a blistering desert one minute and a tropical rain forest the next---all in one building.

Week of August 3, 2020 (Episode #149)

Environmental bad guys beware! Trees are now safer thanks to new satellite imagery giving us a view of our planet like we've never had before. We now know how many trees are on Earth and—almost in real-time--- can tell who's cutting them down. And host Chuck Pell samples a new kind of tree---one that's built in a lab and designed to stop global warming.

Week of August 10, 2020 (Episode #150)

New sources of power are transforming people's lives, particularly in developing countries. Host Chuck Pell meets two young entrepreneurs who've invented a portable light that's virtually indestructible and runs on sunlight. And, believe it not, sewage is being used to create clean drinking water AND electricity.

Week of August 17, 2020 (Episode #151)

Hi tech is a serious business, but it's also fun and games. Host Chuck Pell gets in the virtual cockpit for a new kind of drone racing that's going international. He'll watch as robots compete in the world's most futuristic soccer match. And a new football 'dummy' isn't as dumb as he seems.

Week of August 24, 2020 (Episode #152)

New tech is allowing all of us to become inventors. Welcome to the Maker Movement --- a worldwide phenomenon designed to get everyone making all sorts of strange and unusual gadgets. Host Chuck Pell visits a Makers Faire for some hands-on experience in how young and old alike are creating the future.