

**“XPLORATION EARTH 2050”**

SEASON V - 2018/2019

FCC FRIENDLY EPISODE WRITE-UPS

**SECOND QUARTER**

Week of April 1, 2019 through week of June 17, 2019

**Week of April 1, 2019 (Episode #131)**

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!

**Week of April 8, 2019 (Episode #132)**

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 April 15, 2019 (Episode #133)**

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 April 22, 2019 (Episode #134)**

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 April 29, 2019 (Episode #135)**

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.

**“XPLORATION EARTH 2050”**

SEASON V - 2018/2019

FCC FRIENDLY EPISODE WRITE-UPS

**SECOND QUARTER**

Week of April 1, 2019 through week of June 17, 2019

**Week of May 06, 2019 (Episode #136)**

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.

**Week of May 13, 2019 (Episode #137)**

Solar power is the fastest growing power source in the world; in fact, it's a new industry creating tens of thousands of jobs. Host Chuck Pell learns how the eyes of moths are being used to create more efficient solar energy. And he visits a giant 'farm,' where thousands of solar panels produce the ultimate form of cheap, and renewable, energy.

**Week of May 20, 2019 (Episode #138)**

Future tech is bringing the past alive. Join host Chuck Pell as Virtual Reality technology recreates ancient cities. And laser scanning and video animation give new life to old fossils.

**Week of May 27, 2019 (Episode #139)**

Weather---it's Mother Nature's way to remind us how beautiful---and fickle---she can be. Host Chuck Pell visits a local TV station to see how supercomputers are used to predict future weather events. We see drones that fly right into tornadoes. And we're introduced to three college students who've created a worldwide community by using weather technology to predict the perfect sunset.

**Week of June 3, 2019 (Episode #140)**

High tech is revolutionizing the way art is being created. Is Artificial Intelligence intelligent enough to make art? Host Chuck Pell find out when sees works of art produced solely by computers. And he learns how 'Creative Re-use' takes what was once garbage and turns it into raw material for all sorts of artistic activities.



## **“XPLORATION EARTH 2050”**

SEASON V - 2018/2019

**FCC FRIENDLY EPISODE WRITE-UPS**

### **SECOND QUARTER**

Week of April 1, 2019 through week of June 17, 2019

#### **Week of June 10, 2019 (Episode #141)**

Plastic is one of mankind’s most revolutionary inventions. It’s everywhere—in your home, in your car, in your clothes. It’s also fouling your environment. Host Chuck Pell visits the world of plastic recycling---where used plastic is converted into lumber, clothing, works of art, car parts and even homes. On the way to 2050, plastic garbage is the raw material of the future.

#### **Week of June 17, 2019 (Episode #142)**

A child born in 2000 will most likely see people living on the moon and maybe even Mars. Host Chuck Pell visits training facilities for these future colonies. He talks to people living on the side in a habitat designed to simulate life on Mars---that’s built on the side of a Hawaii volcano. And did you know that by 2050, astronauts will be using 3D printers to build homes on other planets?