

# America's Animal Astronaut Heroes

SCIENCE AND HISTORY OF ANIMALS IN SPACE



Animals have led us into space and continue to be important part of our space exploration. Some were born in Zero-G and others have even lived their entire lives in outer space. Animals are true space pioneers and you can be sure they will be traveling out into the solar system and universe as we continue to push further from earth.

**America's Animal Astronaut Heroes** tells of the lives & achievements of these brave explorers in a way easily understood by children and adults. Hosted by Billy Specht, former education director of the Kennedy Space Center Visitor Complex and the Miami Seaquarium, this program is both enjoyable and educational. Some say Billy is the "Jack Hanna of Outer-Space."



Great historic footage...combined with simple explanations and fun demonstrations of the science needed for space travel as told by known space and animal experts including NASA Astronaut & Veterinarian Richard Linnehan, Zoo Education Director Chris DeLorey, Astronaut Hall of Fame Lead Educator Steve Lima, Spacecraft Hardware Processing Technician and an expert on early US Monkey Flights Roger McCormick, Retired US Navy Pilot who was responsible for spacecraft search and rescue, Captain Dick Williams and others.

Here are examples of some of the fun facts captured in this documentary:

- Fish can get seasick or motion sickness and throw-up.
- Bees seem to adapt in weightlessness and build perfect honeycombs in space.
- Frogs have very sensitive skin.
- A toadfish's inner ear is the same size human's inner ear.
- Fruit flies have a very short life span, so you can see how several generations of flies adapt to microgravity in just one space flight.

This documentary is much more than just a bunch of cute animal pictures. It tells the story of many of the courageous animals that were launched into space, their pivotal roles in space exploration, what was learned from their efforts and science behind it all. Many interesting science demonstrations are already shot including gravity, microgravity, radiation, atmosphere and vacuums, centrifugal force, and more. This footage was shot on location at the Brevard Zoo, Kennedy Space Center, Johnson Space Center, Cape Canaveral Air Force Station, Marshall Space Flight Center and other historic locations



**Astronaut Richard Linnehan** is a Veterinarian with 58 days in space. An Ohio State grad, he accepted a 2 year joint internship at the Baltimore Zoo & Johns Hopkins. Then he became chief clinical veterinarian for the Navy's Marine Mammal Program. Then joined NASA & flew on 4 space flights, including visits to Hubble & ISS. His experience includes 6 space walks.



**Captain Dick Williams** was a US Navy Pilot. He served as Commander Training Air Wing 4; Deputy to the Commander-in-Chief of the Atlantic Fleet, Commander Training Squadron 3 & as Professor Naval Science. Captain Williams flew search missions to locate the early space capsules, including Able and Baker's capsule.



**Steve Lima** is the lead educator for the Astronaut Hall of Fame at the Kennedy Space Center. As part of his job, he helped develop curriculum for Camp KSC & other youth programs. He also developed the Astronaut Training Experience (ATX) where guests can train like a real astronaut in simulators & missions.



**Roger McCormick** is an experienced spacecraft hardware technician for flight with an educational background in Aerospace Technology & Space Science. He worked on America's Space Shuttle program and has a keen interest in the early monkey space flights & is a foremost experts on these monkey missions.



**Chris DeLorey** is the Brevard Zoo's Director of Education. Chris began his education career with Busch Gardens for five years, then taught middle school science for seven years. Chris received a dual major Bachelors degree in zoology and secondary education and a Masters of Science Education all from the University of South Florida

**SOME EXPERTS ON AMERICA'S ANIMAL ASTRONAUT HEROES**

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## DVD SUMMARY



### OUR EARLY ANIMAL SPACE EXPLORERS

- Animal Heroes include the first animals to go in space, Fruit Flies, followed by Mice & Monkeys and a Dog
- Science segments include X-Rays, Altitude, Gravity, Weight on Earth & Moon and Karmin Line
- Features historic footage including explanation of the Cold War and exclusive Russian space footage



### ANIMALS PAVE THE WAY FOR MAN TO GO TO SPACE

- Animal Heroes include some of the most famous Monkeys, Able and Baker and Space Chimps Ham & Enos
- Science segments include Micro-Gravity, Weightlessness, Distance, and Friction and Heat
- Features the pilot that found the monkey capsule, a space historian and science demonstrations



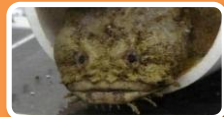
### ANIMALS RETURN TO SPACE

- Animal Astronaut Heroes include Frogs and Squirrel Monkeys
- Science segments include Metamorphosis and the Vacuum of Space
- Features a behind the scene Zoo visit, meeting Ogg the Frog and Skylab overview and animals



### THE SPACE SHUTTLE BECOMES THE NOAH'S ARK OF OUTER SPACE

- Animal Astronaut Heroes include Rats, Mice and Honeybees
- Science segments include need for Exercise, Gravity and Direction
- Features an Astronaut interview about being in Space with animals and science demonstrations



### FRUIT FLIES AND TOAD FISH HELP HUMANS UNDERSTAND SPACE

- Animal Heroes include Fruit Flies, Oyster Toad Fish, Jellyfish
- Science segments include Balance and the Inner Ear
- Features an Astronaut explaining first hand about balance, shows balance tests and training



### NEUROLAB, SPACE STATION AND FUTURE ANIMAL ASTRONAUTS

- Animal Astronaut Heroes include Swordtail fish, Crickets and Rats with Hats
- Science segments include Species changes over time and space and Centrifugal Force
- Features an Astronaut explaining deep space missions and care of animals on earth and in space

**America's Animal Astronaut Heroes** is written and produced by Jim Lewis and his production company Communications Concepts, Inc. (CCI). This is the same production team that successfully produced "ONE GIANT LEAP 50 Years of the American Space Program" which was well received by the public, teachers and the aerospace community.

Alan Boyle of MSNBC: "'One Giant Leap' encapsulates the story of NASA's giant leap to the moon - but also touches on the other four decades of the space agency's history, including the Skylab and the shuttle era, as described by the people who lived it."

Dr. David Livingston host of The Space Show: "'One Giant Leap: 50 Years of the American Space Program,' is THE space documentary and historic guide I would want to see first were I waking up from a 50 year coma! This is a superb representation of our space program and the people that have made it so great."

One Giant Leap was the winner of the Florida Motion Picture and Television Association Crystal Reel Award for BEST DOCUMENTARY and was recommended by the National Science Teachers Association.

The program hosted by Corbin Bernsen includes exclusive interviews with Space Shuttle Astronaut Hoot Gibson; Mercury/Apollo Astronaut Alan Shepard's daughter, Laura Shepard; Apollo/Skylab Astronaut Bill Pogue; Space Shuttle Astronaut Jon McBride; Apollo Astronaut Al Worden, Voice of Launch Control Jack King and others, plus footage of all significant events in NASA's history explained by those that lived it. Corbin Bernsen sums it up best, "Working with CCI and Jim in particular, it's just been a wonderful experience. I mean the projects always have great importance and great value."

