

ETSU DEPARTMENT OF PHYSICS & ASTRONOMY

FREE PLANETARIUM SHOWS

FALL 2022

The ETSU planetarium is located on the top floor of Hutcheson Hall (198 S. Dossett Dr) in room 207. Enter Hutcheson Hall at the East end of the building where the elevator is located. Visitors may park without permits during the evening hours in either student or faculty parking lots on campus. Planetarium Seating is Limited to 45 persons on a first-come, first-served basis. All programs Start at 7:00 PM and run for approximately 1 hour.

For more information contact:

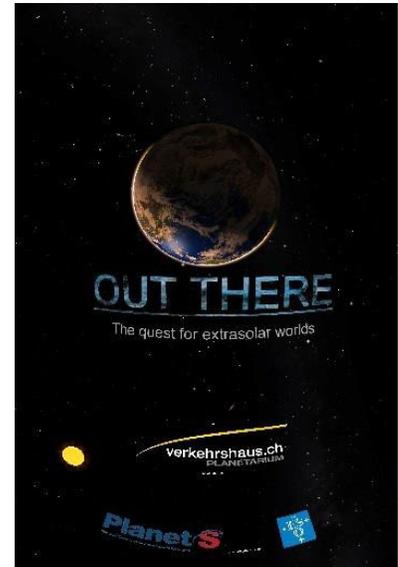
Dr. Gary Henson at hensong@etsu.edu or at (423)439-6906

- | | |
|----------------------------------|--|
| <u>August 18, 2022</u> | “The Dark Matter Mystery - Exploring a Cosmic Secret” |
| <u>September 15, 2022</u> | “FireFall” |
| <u>October 20, 2022</u> | “Storytelling in the Stars” |
| <u>November 17, 2022</u> | “Out There : The Quest for Extrasolar Worlds” |
| <u>December 8, 2022</u> | "From Earth to the Universe” |

Full Dome Video Show Descriptions:

“Out There: The Quest for Extrasolar Worlds” [Suitable for All Ages]

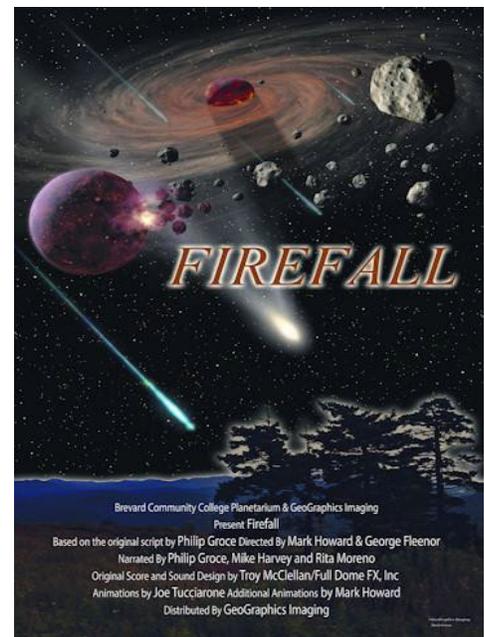
For thousands of years, mankind thought that the Earth was the center of the Universe. Thanks to our curiosity, imagination and urge to explore, we now know that planets like our Earth are nothing special in the cosmos. The Sun is just one ordinary star among hundreds of billions in our galaxy, the Milky Way. With the world’s most powerful telescopes, we are able to explore more and more of the Universe. What we have found so far has surpassed even the wildest expectations of scientists as well as authors of science fiction. Most stars have planets — it turns out they are more common than we thought.



A huge diversity of different worlds is out there, just waiting to be discovered.

“FireFall”: The Story of Comets, Meteors, and Asteroids [Suitable for Ages 9 to Adult]

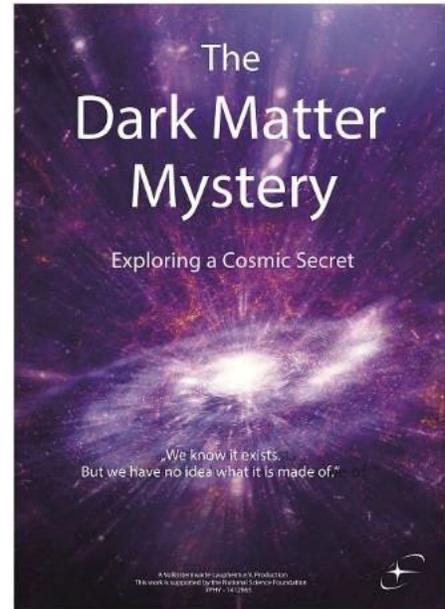
Throughout Earth’s violent history, impacts from comets and asteroids have mercilessly shaped its surface. The ancient barrage continues today; from harmless meteors – those brilliant streaks in the night sky, to mountain sized boulders wandering perilously close to Earth. Terrifying and majestic, these invaders from space are capable of utter destruction yet they have delivered life-giving water and most of the organic materials necessary for life. Life on Earth owes its very existence to these denizens of the solar system, yet it could all be wiped out in an instant. This ceaseless Firefall is our only tangible connection to the universe beyond and is an ever-present reminder of our own humble beginnings in the hostile environment of space.



“Dark Matter Mystery” [Suitable for All Ages]

What keeps Galaxies together? What are the building blocks of the Universe? What makes the Universe look the way it looks today? We know today that approximately a quarter of the Universe is filled with a mysterious glue: Dark Matter. We know that it is out there.

But we have no idea what it is made out of. Will scientists be able to solve the Dark Matter Mystery?



“From Earth to the Universe” [Suitable for All Ages]

The night sky, both beautiful and mysterious, has been the subject of campfire stories, ancient myths and awe for as long as there have been people. A desire to comprehend the Universe may well be humanity’s oldest shared intellectual experience, yet only recently have we truly begun to grasp our place in the vast cosmos. Come learn about this journey of celestial discovery, from the theories of the ancient Greek astronomers to today’s grandest telescopes.

