

The following is a list of commercially produced full dome programs currently installed on the DMB Planetarium SciDome system suitable for secondary science classes as of May 15, 2015. Most programs, unless noted run approximately 30 minutes. The list is organized by content area however, many shows are suitable across multiple disciplines:

Astronomy

- **Oasis in Space** – traces the occurrence of the water molecule, a primary constituent of life as we know it, from the Solar System to the Universe, searching for the possibilities of life beyond Earth.
- **Undiscovered Worlds** follows the quest to identify and catalogue extrasolar planets – planets orbiting other stars. The Kepler mission is featured in this show that follows our human endeavor to determine whether or not we are alone. (Pairs well with Oasis in Space)
- **Two Small Pieces of Glass** – Traces the evolution of the telescope as it relates to the history of our evolving understanding of the Universe. Topics discussed include, types of telescopes and their characteristics, optics, the electromagnetic spectrum, Doppler shift, stellar characteristics and the relationship to distance versus time as we gaze farther into the galaxy and beyond.
- **Stars – Powerhouses of the Universe** content includes stellar evolution, the electromagnetic spectrum, space exploration and the history of astronomy
- **Black Holes – The Other Side of Infinity** while focusing on black holes and their formation, also discusses stellar evolution, the early Universe, galactic collisions, and features a simulated through a super-massive black hole lurking at the center of the Milky Way.
- **Mars Quest** follows the history of our fascination with the most Earthlike of the solar system planets from early observations to the landers, rovers and orbiters of today.
- **IBEX (Interstellar Background Explorer) Mission** – Two high school students speculate over what lies beyond the Solar System at the boundary between the Sun's realm and interstellar space.
- **Losing the Dark** (short, 6.5 min) A short program about light pollution and its effects which go beyond the loss of our starry night skies to include the biological impact on humans and other life forms.
- **Monsters of the Cosmos** (short, 3.5 min) an MTV-like full dome music video featuring real scientists and Morgan Freeman describing black holes in entertaining and mostly factual visual presentation.

Earth / Space

- **Dynamic Earth** shows how the Earth's climate is determined by the many forces playing out on the planet. The program emphasizes the impact human activities are having on our climate.
- **Super Volcanos** – presents the formation of immense volcanic structures - super volcanos in the context of the Earth's geologic history. That history is traced from the accretion of planets during Solar System formation, through the formation of the supercontinent, Pangea up to the continuing processes of plate tectonics today. Speculation is offered over the unnerving, eruptive possibility of the region underlying Yellowstone Park in the future.
- **Oasis in Space** – traces the occurrence of the water molecule, a primary constituent of life as we know it, from the Solar System to the Universe, searching for the possibilities of life beyond Earth.

Biology

- **Natural Selection** – a biographical presentation of the work of Charles Darwin leading to our present day understanding of biological evolution through the process of natural selection. (41 minutes)
- **Cell Cell Cell** – (we have designated the show for 7th grade life science) animated characters featuring a young "skater girl" (complete with attitude) makes some remarkable discoveries about the make-up of her own body

when she wanders into her uncles science curiosities shop. The audience, microminiaturized, travels throughout the human body all the way to the inner workings of the cell nucleus and recombination of DNA.

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- **Undiscovered Worlds** follows the quest to identify and catalogue extrasolar planets – planets orbiting other stars. The Kepler mission is featured in this show that follows our human endeavor to determine whether or not we are alone. (Pairs well with Oasis in Space). Where there are planets, there could be life.

Physics

- **Black Holes – The Other Side of Infinity** while focusing on black holes and their formation, also discusses stellar evolution, the early Universe, galactic collisions, and features a simulated through a super-massive black hole lurking at the center of the Milky Way.
- **Two Small Pieces of Glass** – Traces the evolution of the telescope as it relates to the history of our evolving understanding of the Universe. Topics discussed include, types of telescopes and their characteristics, optics, the electromagnetic spectrum, Doppler shift, stellar characteristics and the relationship to distance versus time as we gaze farther into the galaxy and beyond.
- **Cosmic Colors – An Adventure Along the Electromagnetic Spectrum** (while used as a 5th curriculum show, this program can have applications at the secondary level. The program first investigates light, and then moves beyond the visible featuring all the energies up and down the electromagnetic spectrum.
- **Exploding Universe** follows the “life” of a single proton from its formation of following the Big Bang through the formation of the Solar System to the present and beyond. Particle physics and the Hadron accelerator are featured throughout as well as evolution of the Universe.