

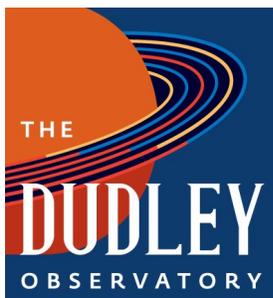
The Dudley Observatory is committed to lifelong learning and has created programming specifically designed for adults! These Powerpoint lessons can be brought to libraries, senior living communities, churches and other adult-serving organizations. Presentations are given by Astronomer Dr. Valerie Rapson, and are designed for all skill levels. No prior astronomy knowledge is necessary.

Programs: See back of sheet for our current list of programs. Day and evening timeslots available. Other special topics may be available upon request.

Cost: \$150 for a 60 min presentation (50 min presentation plus time for questions).

A/V needs: A projector and screen or TV with HDMI hookuo are needed for the presentation. Dr. Rapson will bring a laptop and cable to connect to your system.

Reservations: Fill out a reservation form on our website and email it to info@dudleyobservatory.org. You can also call 518-782-6885 for more information or to book a lesson.



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Individual Lessons

Exoplanets

Astronomers have discovered over 3,500 planets around stars outside of our solar system. Some of these planetary systems appear similar to our solar system, while others extra-large rocky planets, Jupiters close to their host star and even planets orbiting multi-star systems. In this lesson we will explore how we search for exoplanets, what we've discovered so far, and the search for Earth-like planets.

Sending Humans to Mars

SpaceX, NASA and other agencies are actively working towards sending humans to Mars. You've probably heard a lot about this in the media, including some optimistic timelines of sending humans to Mars in the 2020's. But what's really going on? What are NASA and SpaceX working on? What are some of the Challenges we must overcome? And when might we actually see a human colony on Mars? All your tough Mars questions- answered.

What's "up" in Astronomy?

Astronomers are constantly learning new information about the world around us and the Universe we live in. In this lesson we discuss some of the biggest breakthroughs in the field of astronomy this year, and what new discoveries are just over the horizon.

Hubble's Greatest Discoveries

Whenever we say the word "telescope", most people think of the Hubble Space Telescope. It has a 28-year legacy of sending back spectacular photos and opening our eyes to a vast and wondrous Universe. Join us as we highlight some of Hubble's biggest discoveries in the fields of star and planet formation, stellar lifecycles, galaxy evolution, and exoplanets.

Multiple Lesson Series

NASA's Great Observatories (5 lesson series)

Over the last three decade, NASA has launched four Great Observatories to study the cosmos. In this series, we will introduce each telescope (Hubble, Compton, Spitzer, Chandra) and reveal some of their discoveries. The series will finish with a discussion about the next Great Observatory– the James Webb Space Telescope.

Explorations of the Solar System (6 lesson series)

Throughout the last 20 years, NASA and other space agencies have built and launched many different spacecrafts to explore our solar system. In this series of lessons we visit a variety of planets, moons, and comets, and discuss the discoveries made at each location by different spacecraft. Specifically, we focus on Jupiter and its moons, Saturn, Pluto, Mars and Comet 67P.

The Extreme Universe (6 lesson series)

Our Universe is crazy; no, really, it's insane! There are billions of space rocks flying around, galaxies crashing into each other, stars exploding and black holes gobbling up entire worlds! This series will reveal some of the most dangerous events in deep space, and explain how astronomers are monitoring all these collisions and explosions to protect our beloved Earth.

Life in the Universe (4 lesson series)

Astronomers have been contemplating the idea of alien life for centuries. In this series, we will discuss the many theories about how life began on Earth, our search for life in the solar system, how we plan to search for life in other planetary systems, and our attempts to contact intelligent life within our galaxy.

Lessons on other topics may be available upon request.