



## FALL 2017 VOLLBRECHT PLANETARIUM

Wednesdays 7 to 8:30 PM

### **\*NEW: PRE-REGISTRATION REQUIRED**

Southfield Parks & Recreation Dept. (P&R)  
26000 Evergreen, Southfield, 48037  
Southfield P&R: 248-796-4620

Planetarium: 248-746-8880  
19100 Filmore, Southfield MI 48075  
[www.VollbrechtPlanetarium.com](http://www.VollbrechtPlanetarium.com)

Each presentation offers a lecture, a star shows, Q&A, handouts and a door prize

1. 9/13 The Life of a Star: There are as many stars in the universe as all the grains of sand on Earth. They come in all colors, shapes and sizes and can only die three ways.
2. 9/20 The Life of the Universe: Did the universe have a beginning. If so, will it perish at some time in the future? Has it always existed? Will it continue to expand or stop and remain in a static state? Will it fall back in on itself? Are there multiple universes?
3. 9/27 Inner Solar System Planets: How were Mercury, Venus, Earth, Mars and the Asteroids formed? How soon will the Moon be recognized as a planet? What are the benefits and dangers of asteroids?
4. 10/4 Outer Solar System Planets: How do the outer planets differ from the inner planets? Where do comets come from? What is a dwarf planet and why is Pluto now one? Did Jupiter shape the solar system?
5. 10/11 Nebulae, Aurorae and ETs: Nebulae, perhaps the most beautiful objects in the sky, are found in three types and three colors. Aurorae are glowing lights found in the Northern and Southern skies. Jupiter and Saturn have them. Are we alone in the universe? After getting the facts, you decide.
6. 10/18 Telescopes, Binoculars, Astronomy Clubs: What telescopes and binoculars are right for you? How much do they cost and what will you see using them? Should you buy new or used? Where not to buy them. There are advantages in joining an amateur astronomy clubs.
7. 10/25 Human Space Travel, Eclipses and the Moon: How might we travel to the planets and stars? What obstacles must be overcome? Why do solar and lunar eclipses occur? How did an eclipse help Christopher Columbus and also be responsible for the death of two Chinese astronomers? What if there was no Moon?
8. 11/1 The Milky Way, Constellations, Galaxies and Fall Sky: Observe dozens of colorful photographs and find out interesting facts about the Milky Way, other galaxies, the constellations and discover what can be seen in the Fall skies.

Vollbrecht Planetarium is adjacent to Adler Elementary School, 19100 Filmore, Southfield, 48075

**\*You MUST PRE-REGISTER for this program either online or at the P&R Information Desk. At-the-Door admissions are no longer accepted.**

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For more info and Pre-Registration instructions, call P&R at 248-796-4620.

Purchased at P&R, Full 8 show series  
\$30 for residents; \$40 for non-resident

Purchased at P&R, Per Event  
\$5 for residents; \$5.50 for non-resident