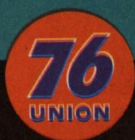


A WEEKEND ADVENTURE DRIVE

Planetariums and observatories





Foucault (foo-ko) pendulum swings free in space as earth turns under it.

Tiny solar system spins earth around sun, shows tilt that makes seasons.

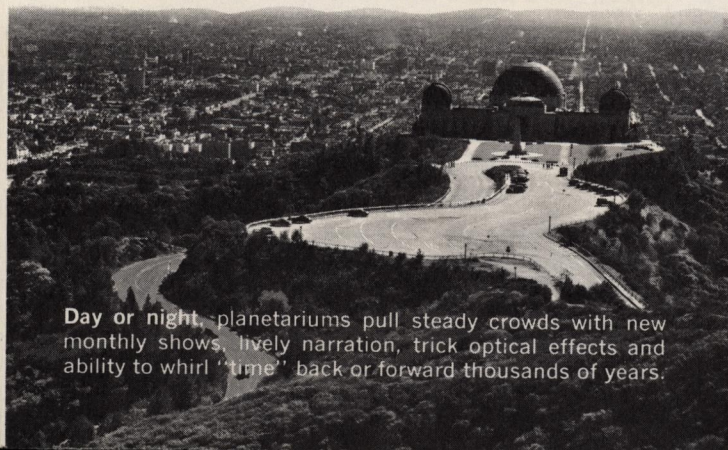


BLASTING OFF on a planetarium tour of the moon, complete with countdown, landing and re-entry, you can enjoy the life of an astronaut with no worries about weightless cookies or your retro rockets. Other armchair tours take in the planets, explore outer space and trace the constellations.

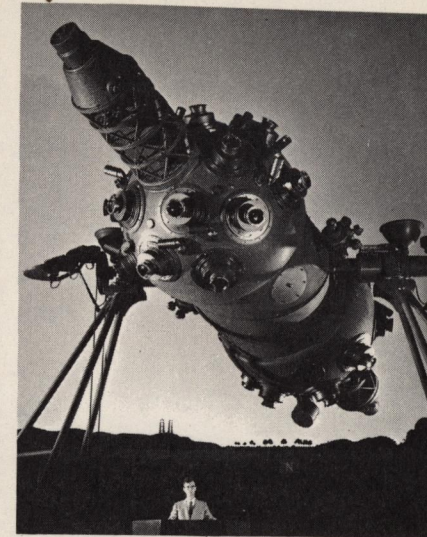
Blinking into a real telescope at an observatory, however, you can "look back" 1500 light-years into the Milky Way and behold the beautiful, luminescent Orion nebula (cover). Here, swirled in spirals of hydrogen and incubated by the nearby suns, a star is "born" from the dust of space.

Either experience offers its share of exhilaration, wonder and awe. At the planetariums you'll find extra exhibits on such mysteries as meteorites, sunspots and cosmic rays. And from the observatories, high among pines and pure air, you can scan magnificent panoramas of our own earth.

Here, from your Union 76 Minute Man, is a guide to planetariums and observatories in the West, and the hope you see a "star show" on your Weekend Adventure Drive.



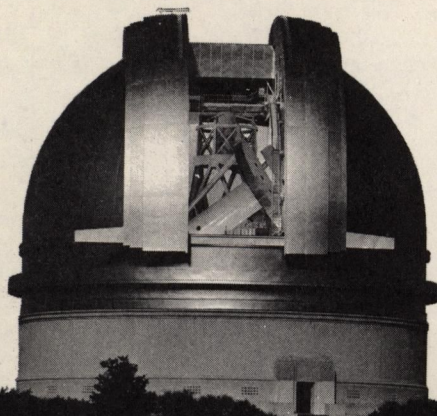
Day or night, planetariums pull steady crowds with new monthly shows, lively narration, trick optical effects and ability to whirl "time" back or forward thousands of years.



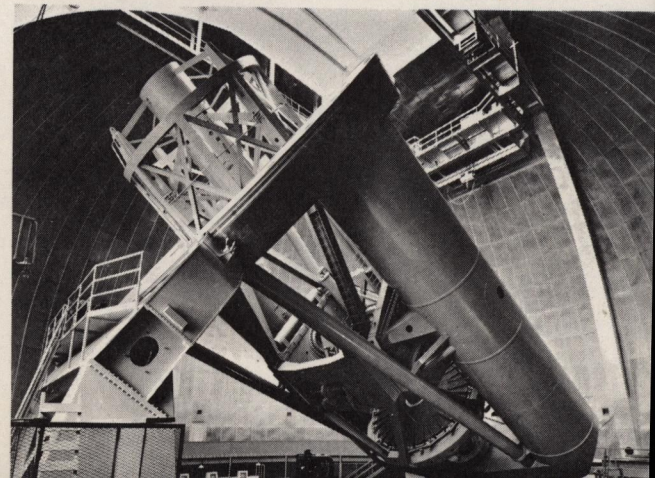
Projector at a planetarium can weigh four tons, coordinate 321 lenses, display some 4000 stars, planets and constellations, and cost a million dollars.



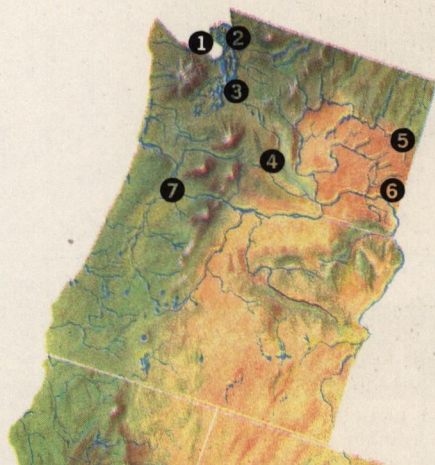
Telescopes, actually huge research cameras weighing up to 530 tons, can be balanced on a film of oil so a 1/12th horsepower motor keeps them tracking a star across the sky. Lenses and mirrors up to 17 feet in diameter are polished for years with optical rouge to tolerances of a millionth of an inch. Result—the clarity of this photo of the Pleiades, showing the brighter stars surrounded by clouds of galactic dust and gas.



Shuttered dome rises 12 stories, has view balcony for visitors, helps keep telescope at cool night-time temperature. Cities below sparkle in clear, still air.



PLANETARIUMS AND OBSERVATORIES IN WASHINGTON AND OREGON



WASHINGTON

① Victoria (B.C.)

Dominion Astrophysical Observatory. Free demonstrations, talks and star-gazing through the 73-inch reflector telescope, one of the world's largest, every Saturday night between 8 and 10 (Standard Time) from April through November.

② Bellingham

Planetarium at Western Washington College of Education. Free. Write the planetarium director for arrangements.

③ Seattle

Pacific Science Center. Realistic rocket rides in the huge "Spacearium" built by the U.S. government for the Seattle World's Fair, complete with a planet-by-planet tour of the solar system. You sit on the carpet, look up at the theater dome and soar through space amid full-color panoramas and stereophonic sound. Continuous shows from 11 a.m. to 6 p.m. on weekends. \$1 for adults, 50 cents for children and \$2 for the whole family.

④ Yakima

Planetarium at Yakima Valley College. Free. Write the planetarium director for arrangements.

⑤ Cheney

Planetarium at Eastern Washington State College. Free. Write the planetarium director for arrangements.

⑥ Pullman

James Richard Jewett Observatory at Washington State College. A 12-inch refracting telescope open to the public on occasional Friday and Saturday nights. Write the director of the observatory for advance reservations.

Institute of Technology Building at Washington State College. A small (85-seat) planetarium open to the public on occasional Fridays and Saturdays. No charge—arrange for tickets through the department of mathematics.

OREGON

⑦ Portland

Oregon Museum of Science and Industry. Planetarium shows at 2:30 and 3:30 on Saturday afternoons, and at 2, 3, and 4 o'clock on Sunday afternoons. Adults 40 cents, children 20 cents. You can tour other exhibits in this \$600,000 science center (admission 50 cents for adults, 25 cents for children, pre-schoolers free) before or after the show, and you'll find Portland's new zoo right across the street.

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ENJOY YOUR WEEKEND ADVENTURE DRIVE

Wherever you drive in the West, stop in at the Sign of the 76 where you always get The Finest values in products and services...

Royal 76 and Regular 76 gasolines...

Union 76 tires, batteries and accessories...

**Royal Triton, the amazing purple motor oil...
and thoughtful Minute Man service.**

