

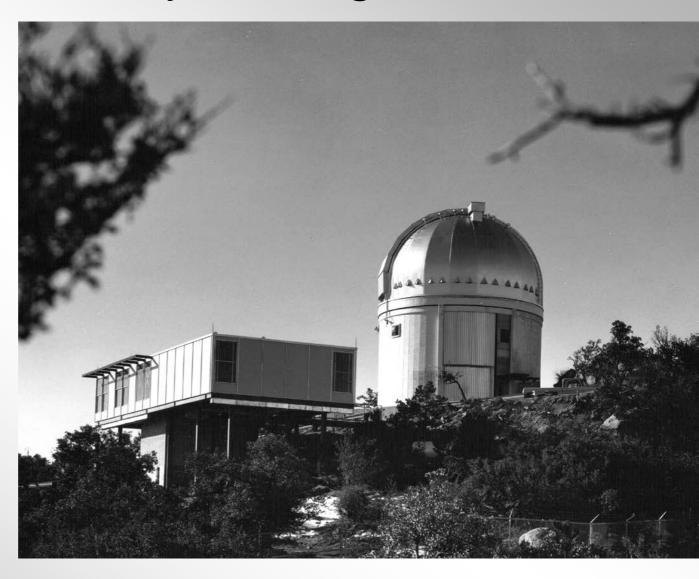
Dr. Aden Meinel, the first Director of the Kitt Peak National Observatory, became the 3rd Director of Steward Observatory, replacing Edwin Carpenter, who died of a sudden heart attack on February 11, 1963.

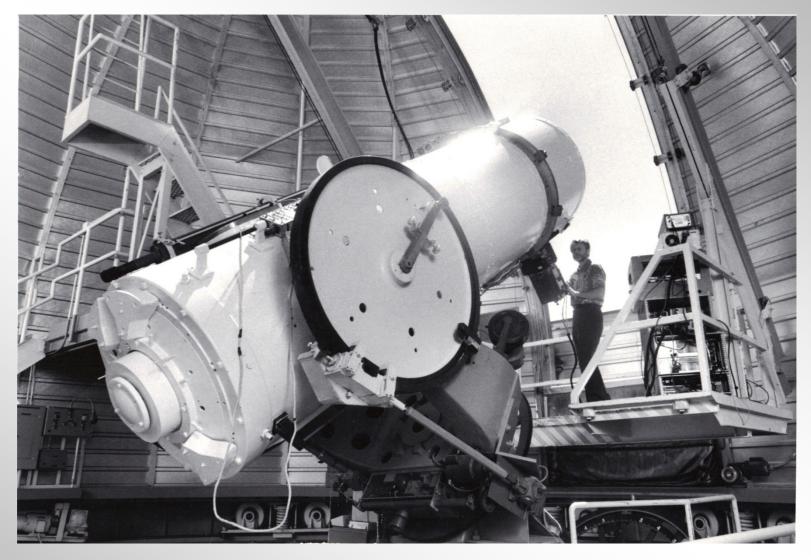
Dr. Meinel, who would serve as Director until 1966, was responsible for securing a grant from the National Science Foundation for the purpose of building the Steward facilities and faculty.



In 1963, the 36-inch telescope was removed from the original Steward dome and relocated to Kitt Peak. (Note that the College of Education building is under construction in the background on the right.)

The original Steward 36-inch telescope was relocated to this dome on Kitt Peak in 1963. Since 1982, it has been used by the Space Watch Project.

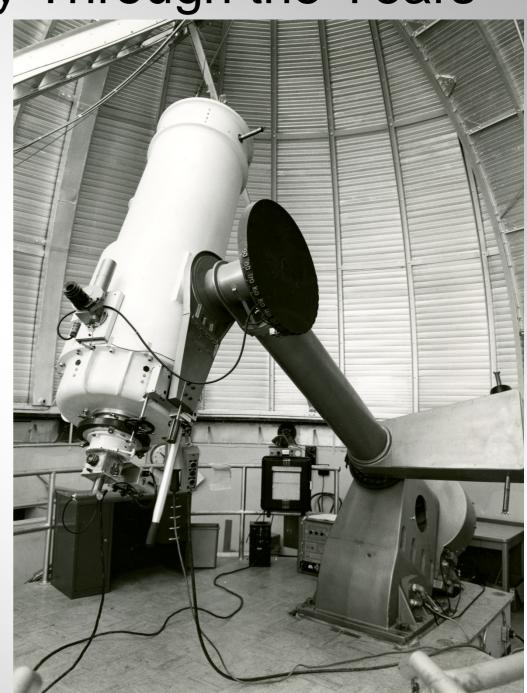


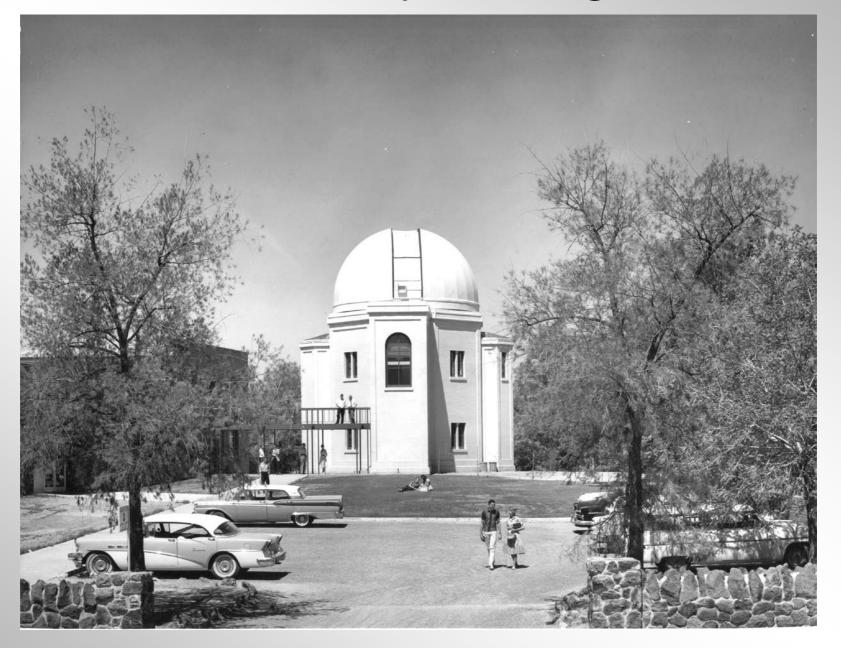


Founded by Prof. Tom Gehrels (pictured), the Space Watch Project studies small objects in the Solar System and scans for potentially hazardous objects near Earth using the 36-inch (now painted white).

In 1964, the 36-inch Telescope was replaced by a 21-inch Cassegrain reflecting telescope in the original Steward Observatory dome.

Shown here with a photoelectric photometer, it was used by students for educational projects and by the public as part of the Public Evening Lecture Series.





Steward Observatory ca. 1965

1969

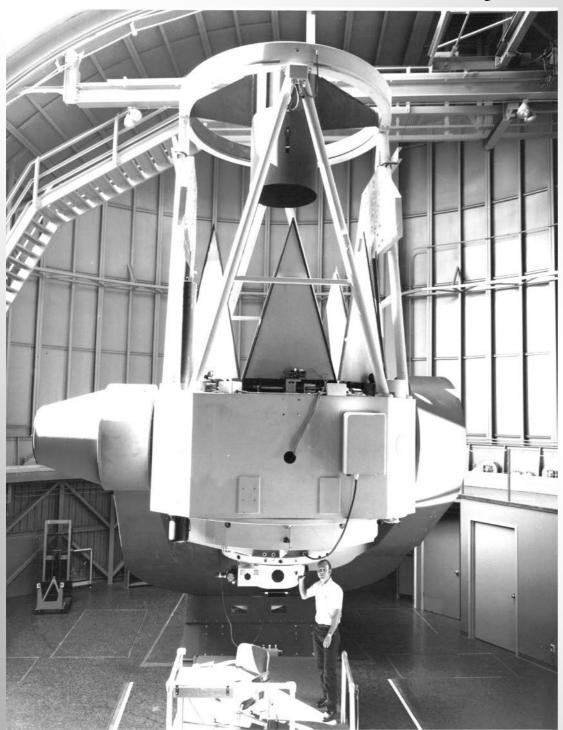




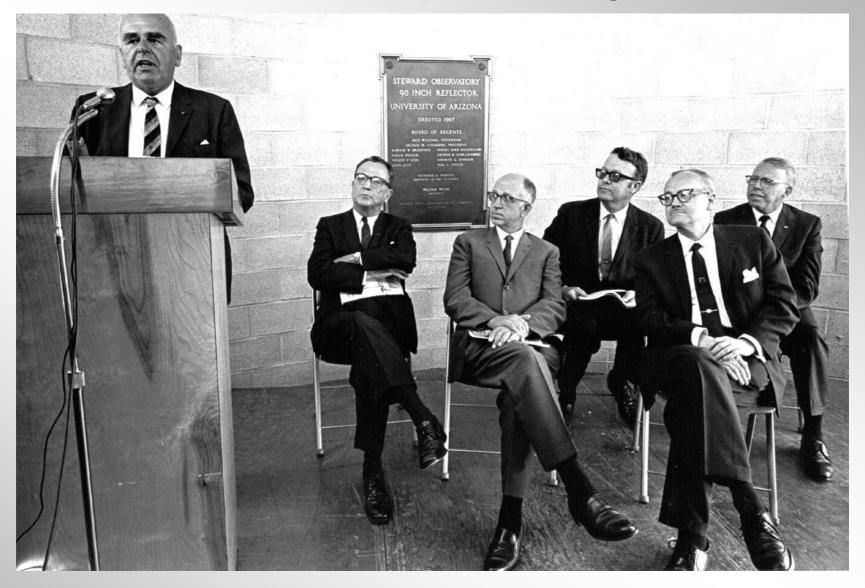
Using the 36-inch Telescope, Steward Obs. astronomers (L-R) Mike Disney, John Cocke, and Don Taylor discover the optical pulsar at the heart of the Crab Nebula (M1) in 1969.



In 1967, a new building was constructed on Kitt Peak to house a 90-inch reflector.



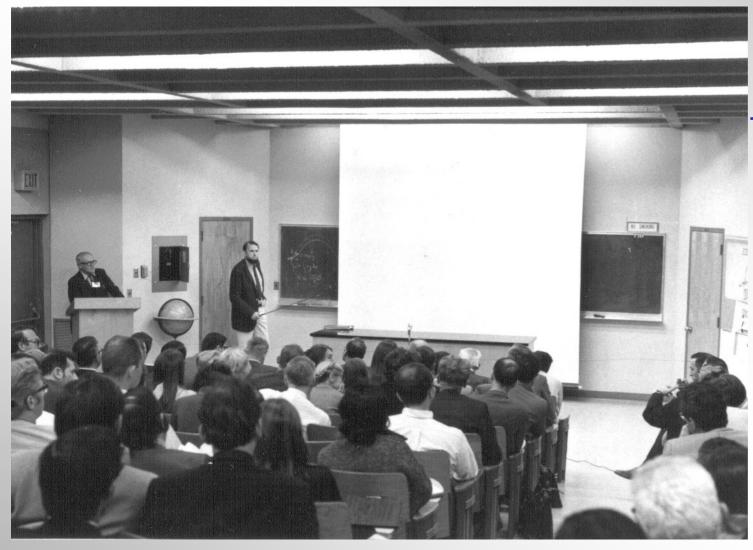
The 90-inch Bok Telescope: the workhorse of the 1970s & 1980s.



Present at the dedication of the 90-inch Telescope in October 1969 were Prof. Bart J. Bok, 4th Director of SO, UA President Richard Harvill, Dr. Howard Page from NSF, & Prof. Aden Meinel, 3rd Director of SO.



Bart & Priscilla Bok pose with colleagues, including incoming 5th Director Ray Weymann, during the Bok Symposium held at UA in 1970.



The Bok Symposium 1970

The Steward Observatory lecture hall which was in use from 1960 – 1992. The room was divided into two smaller classrooms in 1992 and are today known as SO 202 & SO 204.

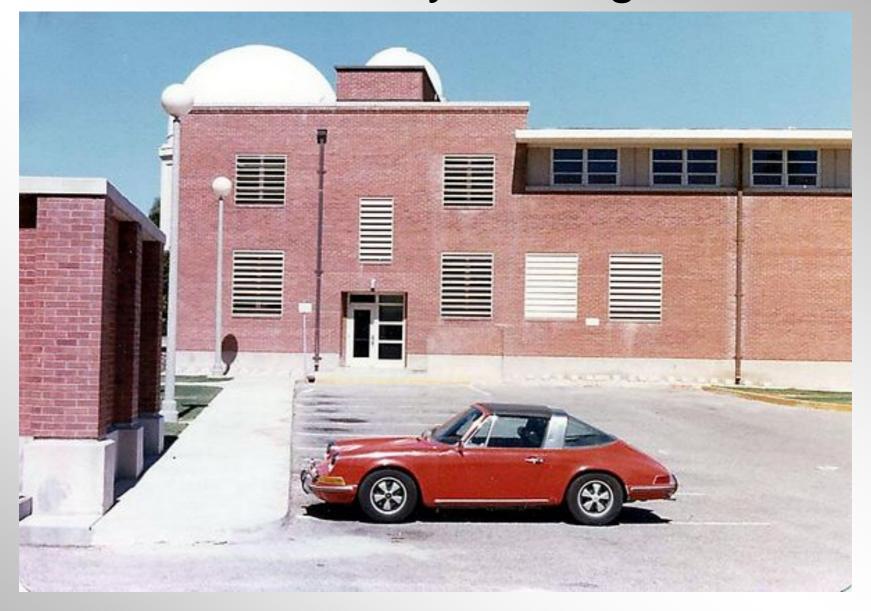
Mt. Lemmon



The Catalina Observatories, built by Lunar & Planetary Lab. in 1960s, later merged with the Steward observatories. This peak is now home to the Mt. Lemmon SkyCenter.

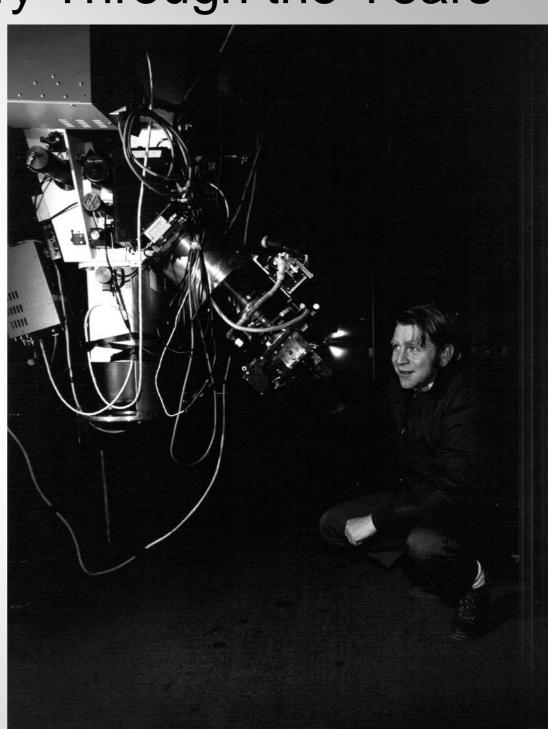


The 61-inch Kuiper Telescope near Mt. Bigelow was built by the Lunar & Planetary Lab. in the 1960s with funds from NASA to create a detailed atlas of the Moon's surface in order to identify landing sites for the Apollo missions.



A sports car belonging to Prof. Carl Sagan is parked outside of Steward Observatory during the Cornell professor's visit in 1972.

Prof. Peter A. Strittmatter assumed leadership of Steward Observatory in 1975 as its 6th Director.





Steward Observatory ca. 1975

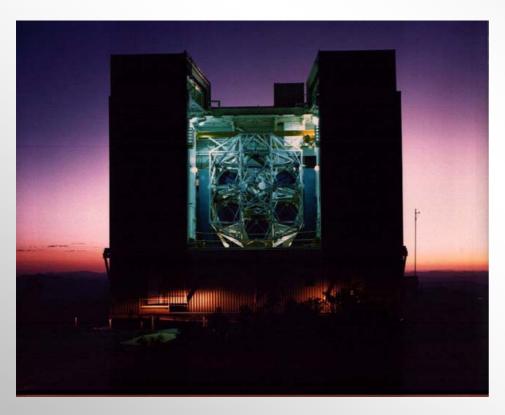


Steward faculty, staff, & students of the 1970s...



...in celebration!

The Multiple Mirror Telescope Mt. Hopkins





1979

6 mirrors effectively 4.5-m telescope

2000

1 mirror 6.5-m telescope

first telescope to use compact, "non-dome" enclosure



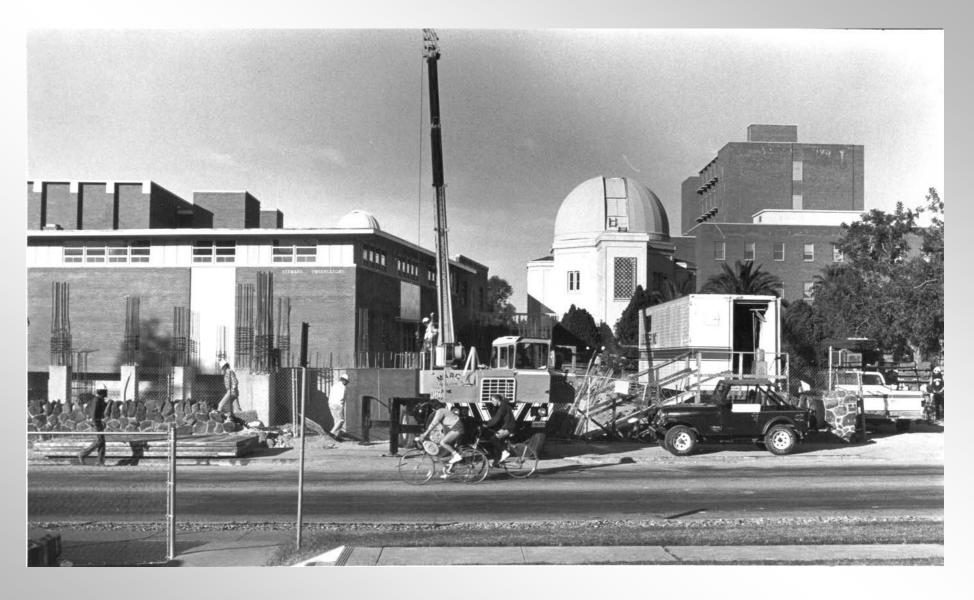
Infrared Astronomers: Erick Young & Frank Low



Infrared Astronomers: Rodger Thompson & Marcia Rieke



A violent monsoon storm tore the roof off of the first Steward Observatory addition in August 1982.



The view from Cherry Avenue as construction begins on the "U-shaped" addition to Steward Obs. in November 1983.



The view from the College of Education in January 1984 as the "U-shaped" addition was under construction.



This picture of the NW side of Steward Observatory was taken in Sept. 1984 upon completion of the "U-shaped" addition.



Steward Observatory as it appeared from 1984 – 1991. Posing for this picture is one of the theoretical astrophysicists who have graced the Steward Faculty over the years: Prof. Simon D. M. White. He is currently the Director of the Max-Planck-Institut für Astrophysik in Garching bei München, Germany.

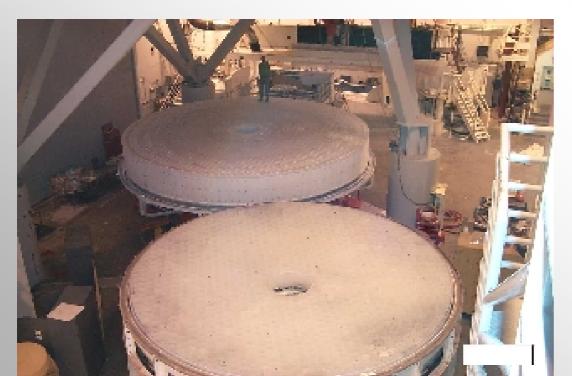


1985 saw the construction of the Steward Obs. Mirror Lab beneath the E grandstand of Arizona Stadium.

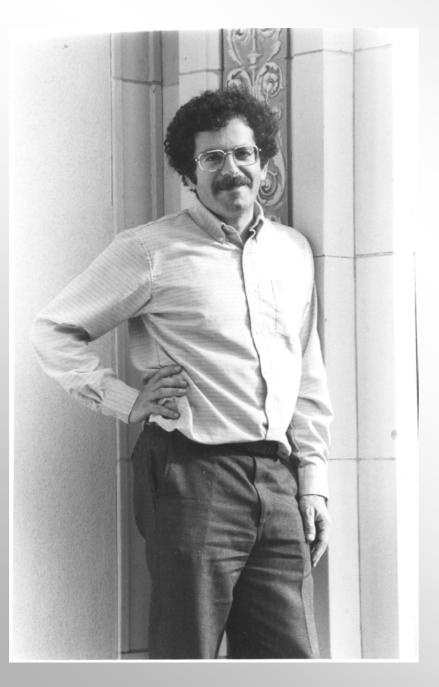
The Steward Mirror Lab is the brainchild of Prof. Roger Angel.



Steward mirrors are in these telescopes:



- •VATT, Mt. Graham (1.8-m)
- •SAO, Mt. Hopkins (1.2-m)
- •ARC, Apache Point (3.5-m)
- •WIYN, Kitt Peak (3.5-m)
- •MMT, Mt. Hopkins (6.5-m)
- Magellan 1, Las Campanas (6.5-m)
- Magellan 2, Las Campanas (6.5-m)
- •LBT, Mt. Graham, (2 x 8.4-m)
- LSST segments



Prof. Marc Aaronson, a rising star in the astronomical community, was lost on April 30, 1987 in a tragic accident on Kitt Peak.

The Aaronson Memorial Lecture is held every 18 months.

Two occupants of the "Chair of Peter" compare notes on the Mt Graham Observatory in September 1987.



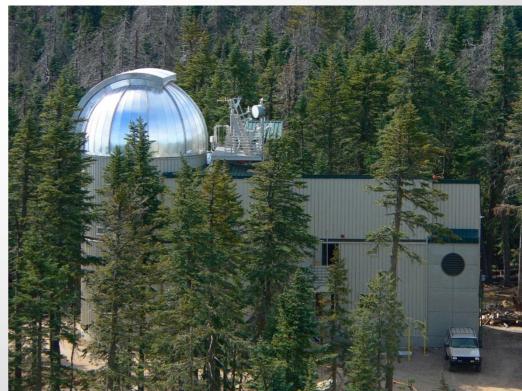
Profs. Peter Strittmatter, Nick Woolf, Roger Angel, & George Coyne, S.J. explain the design of the Vatican Advanced Technology Telescope to His Holiness John Paul II in September 1987.



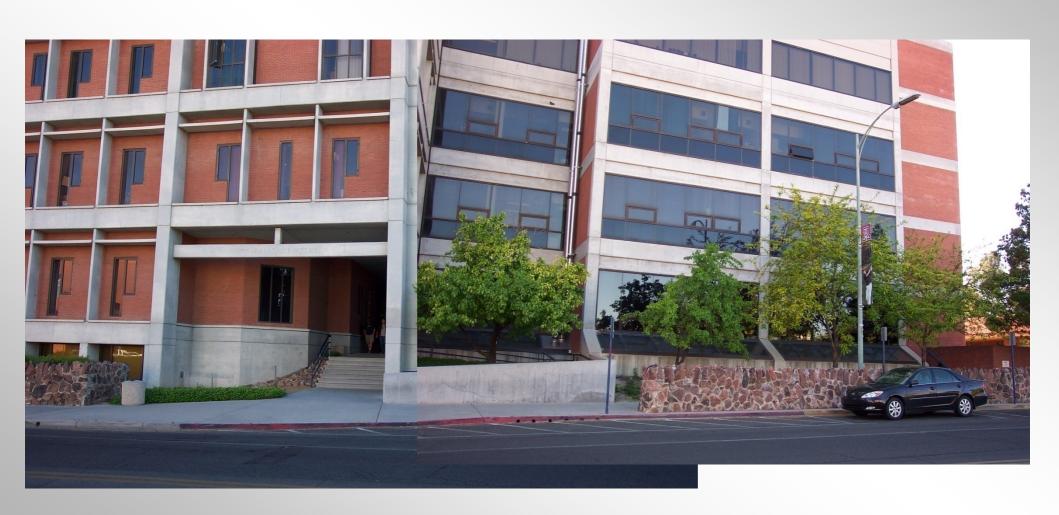


The Vatican Advanced Technology Telescope (VATT) on Mt. Graham

This 1.8 m mirror was the first of Roger Angel's so-called "fast" (f1) mirrors.



In 1992, another addition to Steward Observatory was constructed.

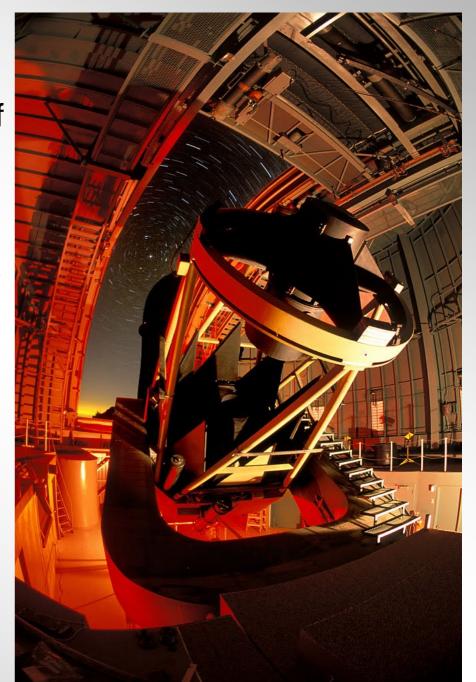


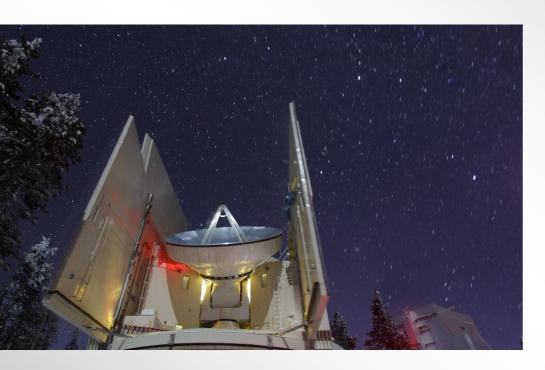


Prof. Raymond E. White, Jr. poses with the 21-inch telescope, which would later bear his name, in 1994.

Peter Strittmatter led the observatory in finding ways to make efficient use of Steward's smaller telescopes in the "era of the 8-m Telescope."

The 2.3-m Bok Telescope on Kitt Peak was equipped with a prime focus, large format CCD camera called "90-Prime". This new instrument, used for wide-field imaging, greatly improved the scientific output of the Bok Telescope.





Steward radio astronomers study star formation and astrochemistry in the Interstellar Medium.

Heinrich Hertz Telescope, aka Sub-Millimeter Telescope on Mt. Graham.



12 m radio dish on Kitt Peak

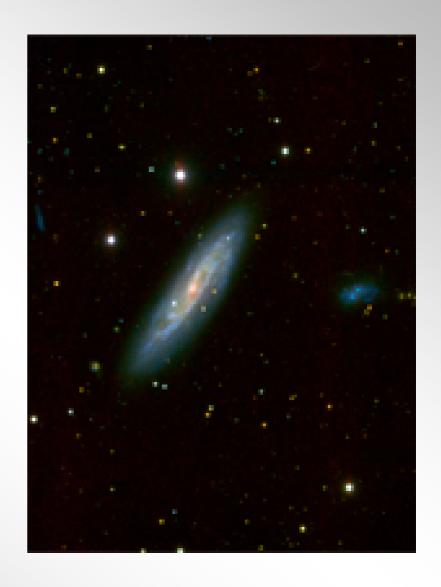


Large Binocular Telescope Mt. Graham

2006



The spiral galaxy NGC 2770: One of the first images taken by the LBT in "binocular" mode





In 2006, Steward astronomers Doug Clowe (I) and Dennis Zaritsky (r) were part of a team that provided the first directed evidence for **Dark Matter**. The study involved data taken with the *Chandra* X-ray, *Hubble* Space, and *Magellan* Telescopes.





Image of Galaxy Cluster 1E0657-556 depicting optical, X-ray, and gravitational lens mass.

October 4, 2011--Stockholm--

Nobel Prize in Physics awarded to Brian Schmidt, Adam Riess, and Saul Perlmutter for discovery of the accelerating Universe.

Brian Schmidt is U of A class of 1989 B.S. in Astronomy & Physics; Ph.D. Harvard 1993

now at Mt. Stromlo/Siding Spring Obs., Australia



Peter Strittmatter served as Director of Steward Observatory from 1975 – 2012 (37 years), the longest-serving department head on the UA campus.

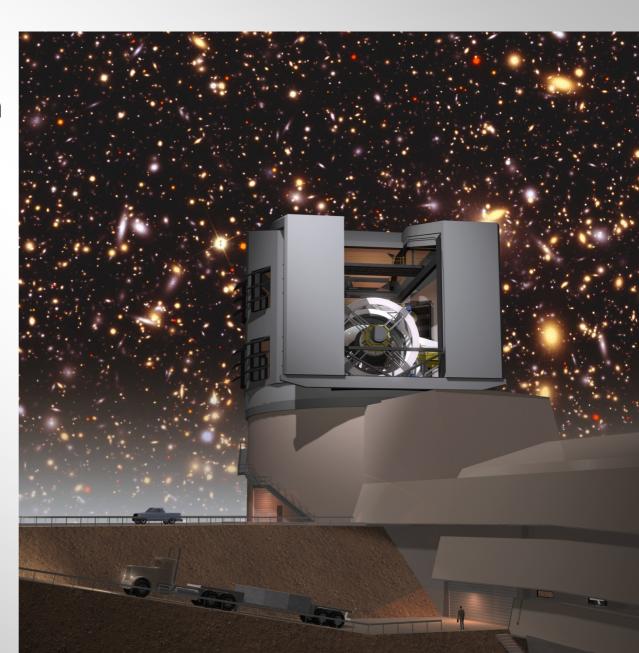


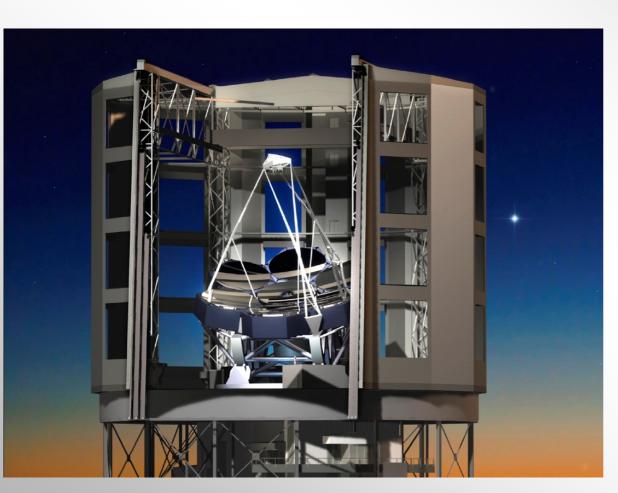


Buell Jannuzi, a product of the Steward graduate program (Ph.D. 1990), became the 7th Director of Steward Observatory on May 21, 2012.

The Steward Mirror Lab will cast the mirrors for the 8.4-m Large Synoptic Survey Telescope (LSST). All data from this telescope will be immediately available to the public.

Bill Gates has called the LSST "...the ultimate computer peripheral device."





Steward Observatory is participating in the 24.5-m Giant Magellan Telescope (GMT), which will be built on Cerro Las Campanas in Chile.