

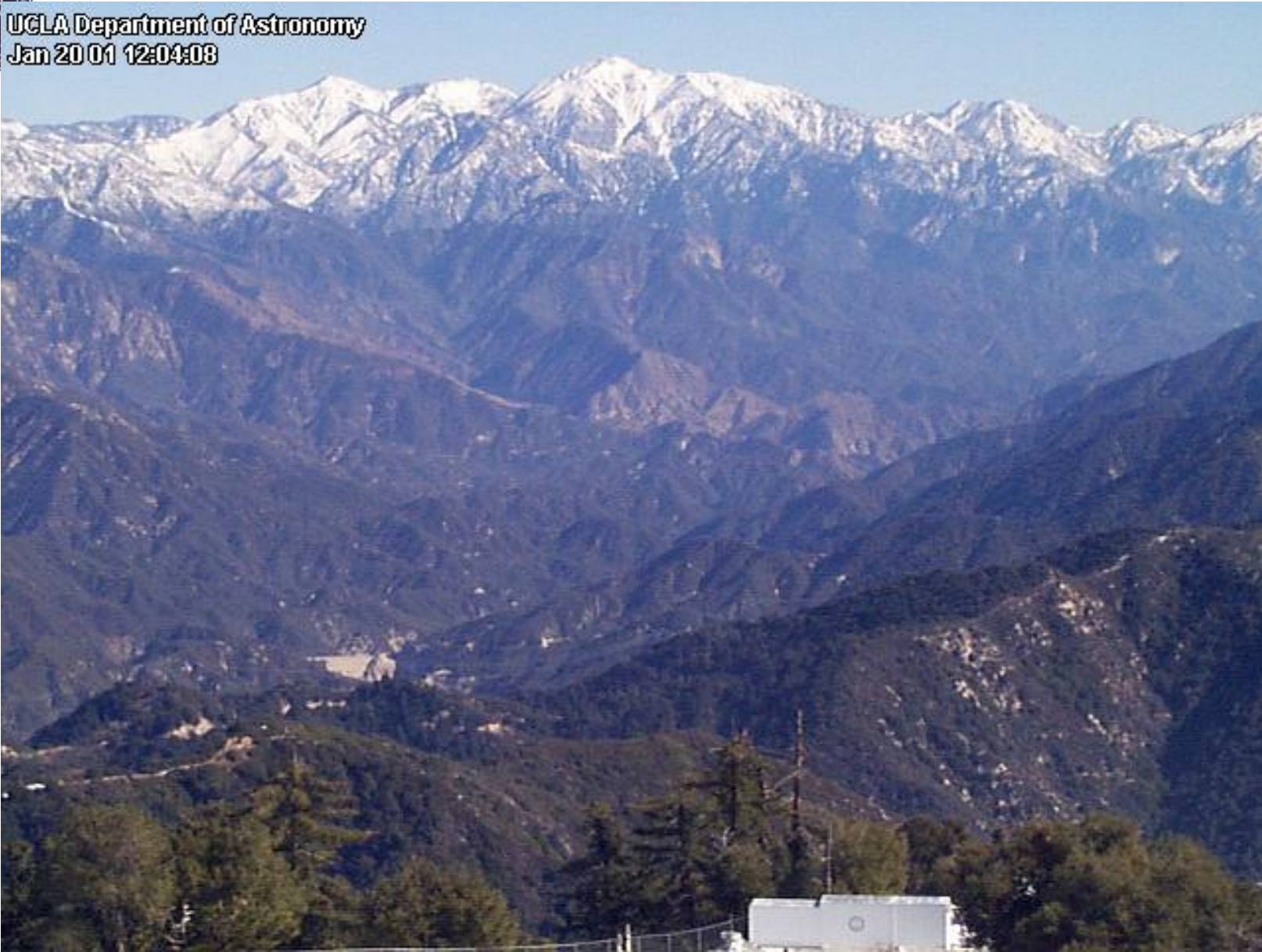








UCLA Department of Astronomy
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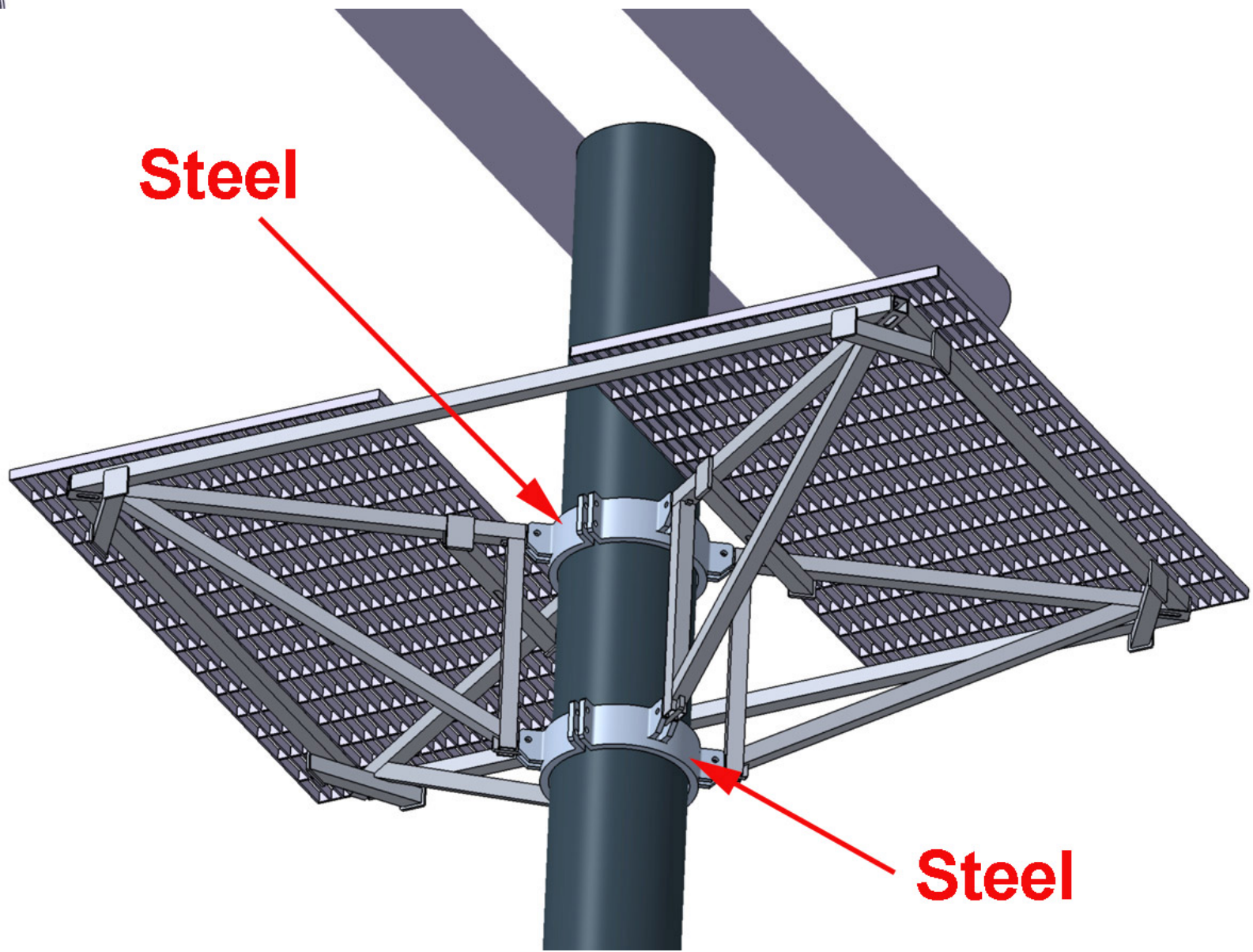


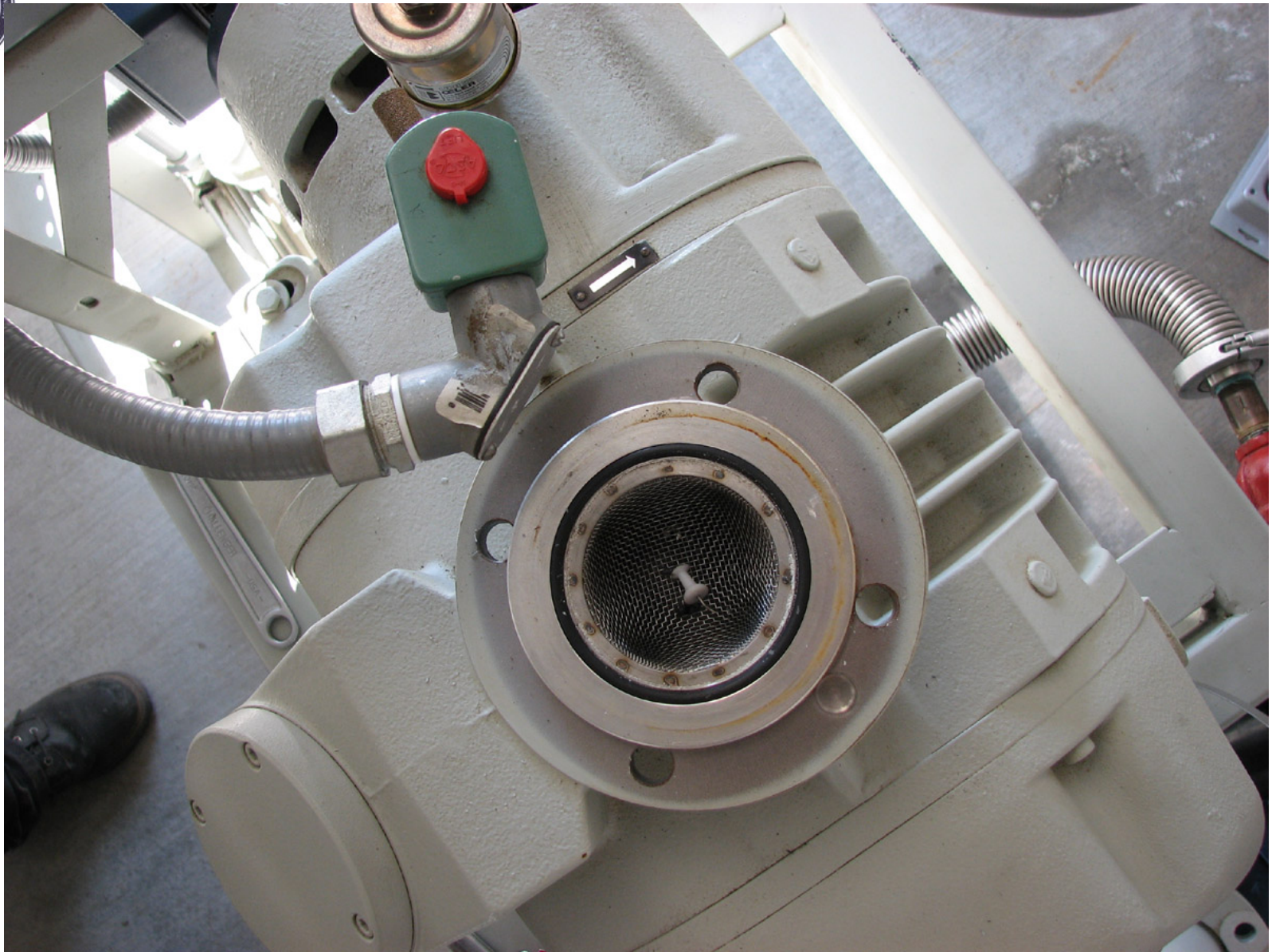


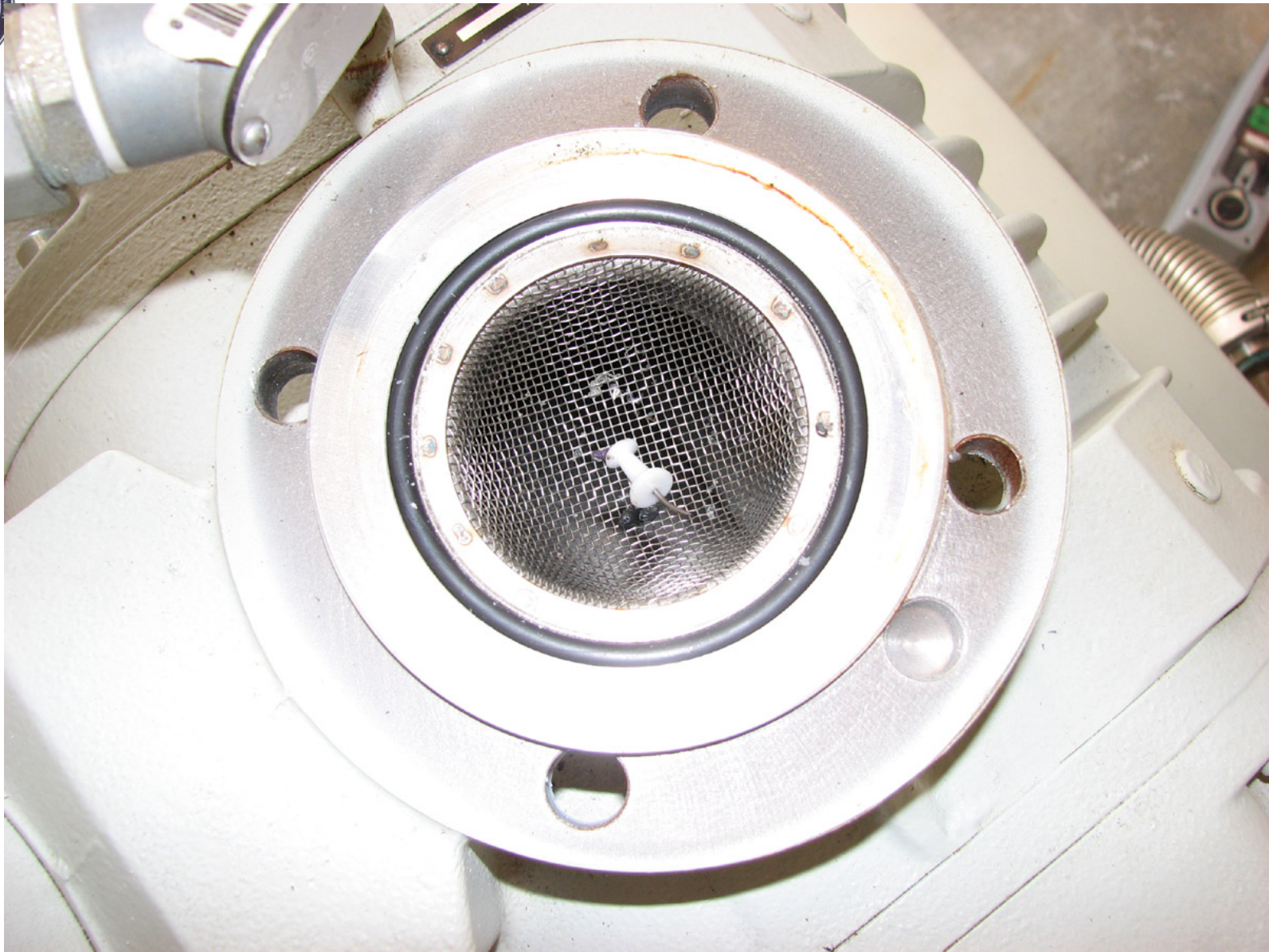


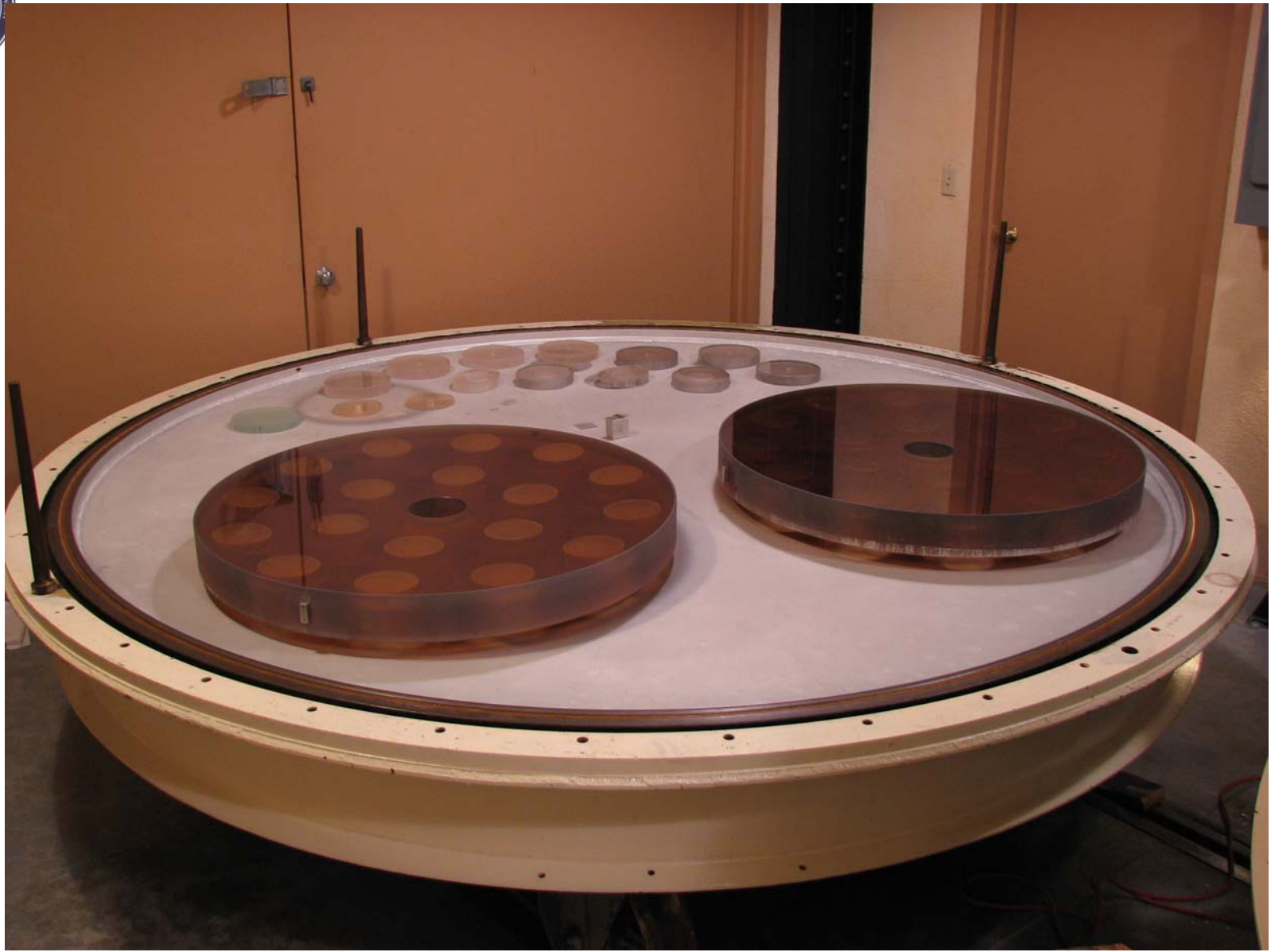
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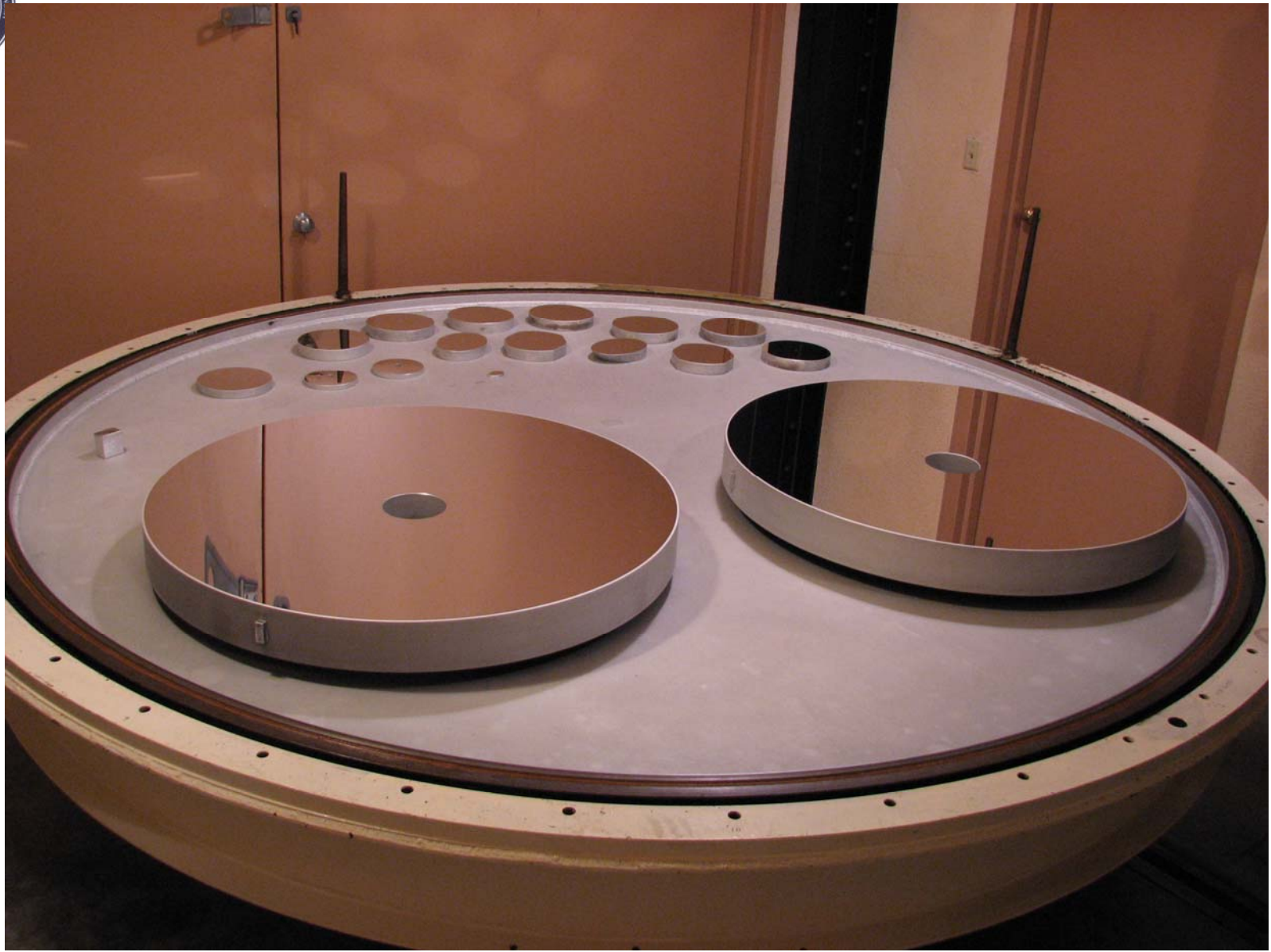






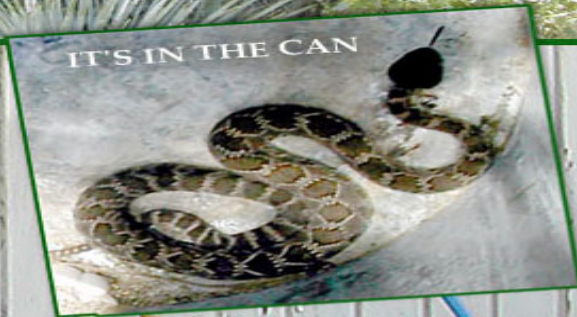








SCOTT RUBEL and SEAN HOSS,
MOUNTAIN SUPERINTENDENT,
CAPTURE A RATTLER NEAR THE
PHOTOLAB

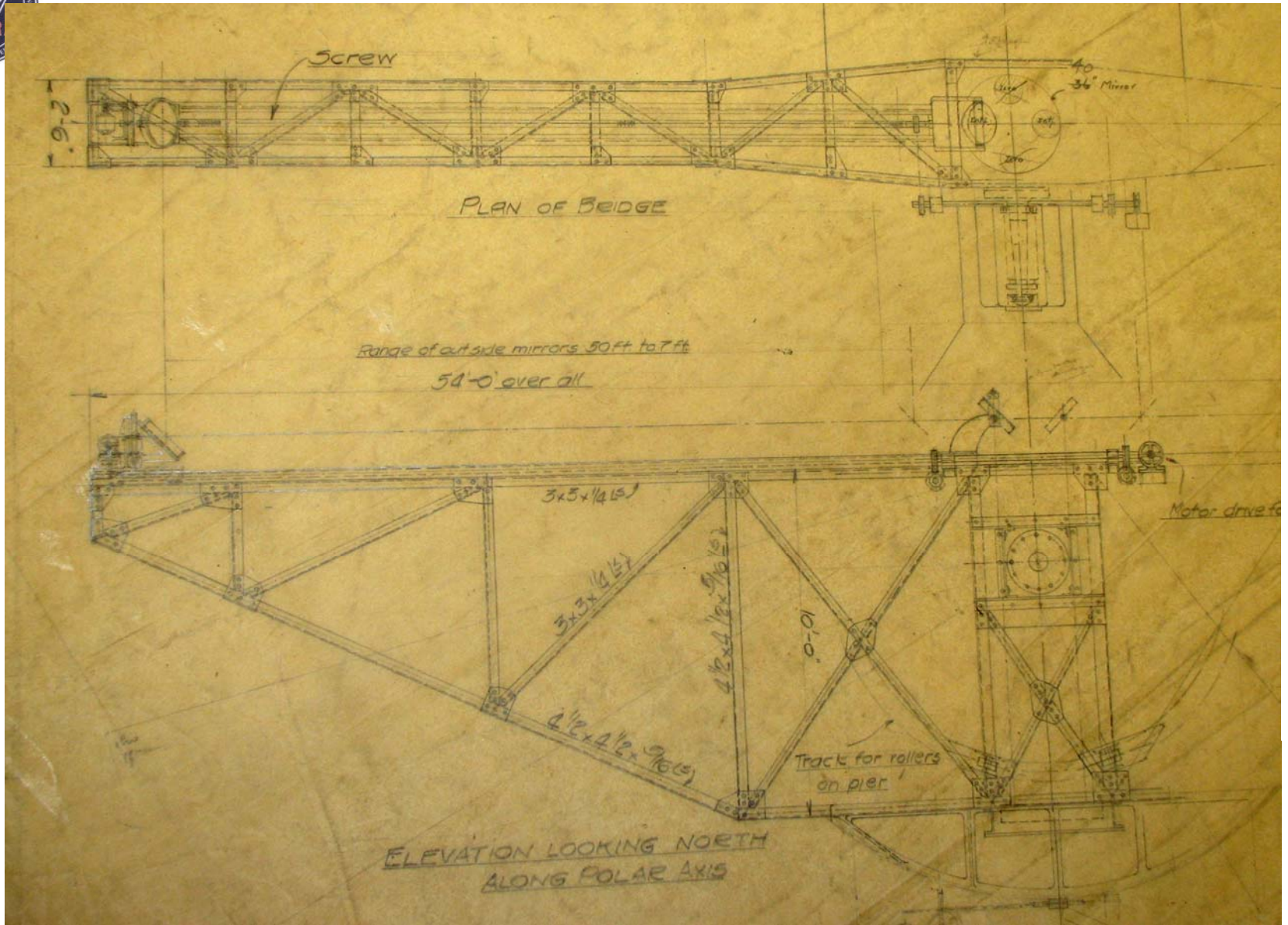


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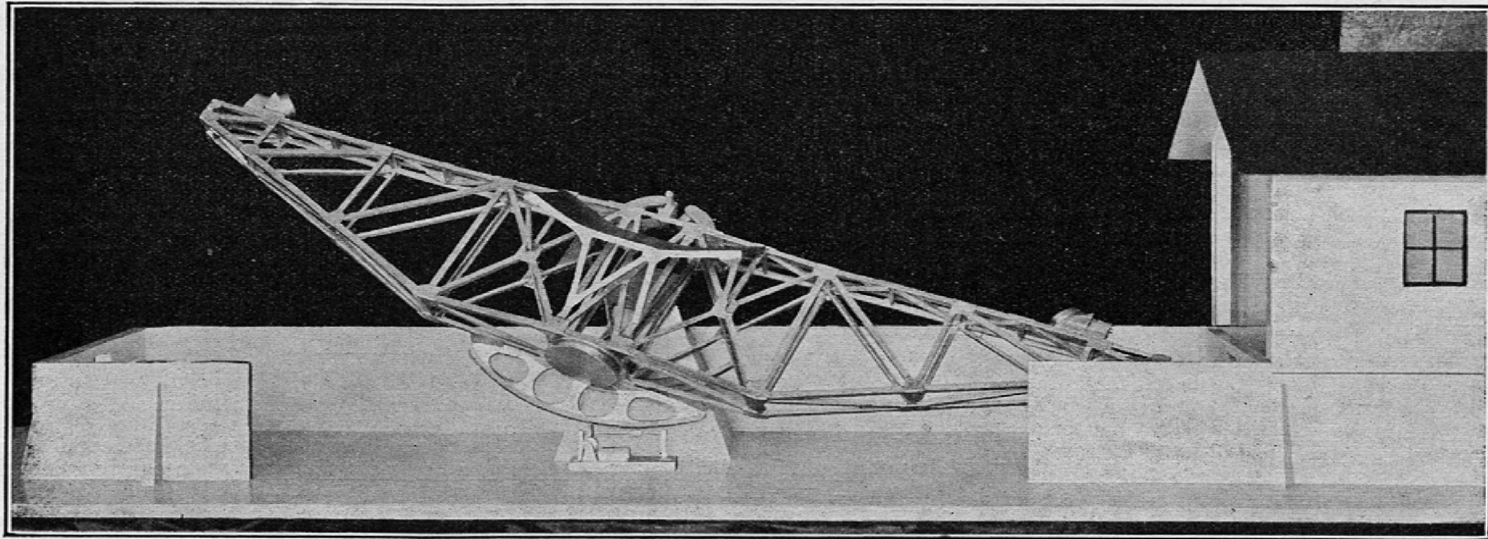


FIG. 1.—50-foot interferometer telescope for the Mount Wilson Observatory.
Model seen from the north (part of wall removed to show 36-inch mirror cell and driving mechanism).

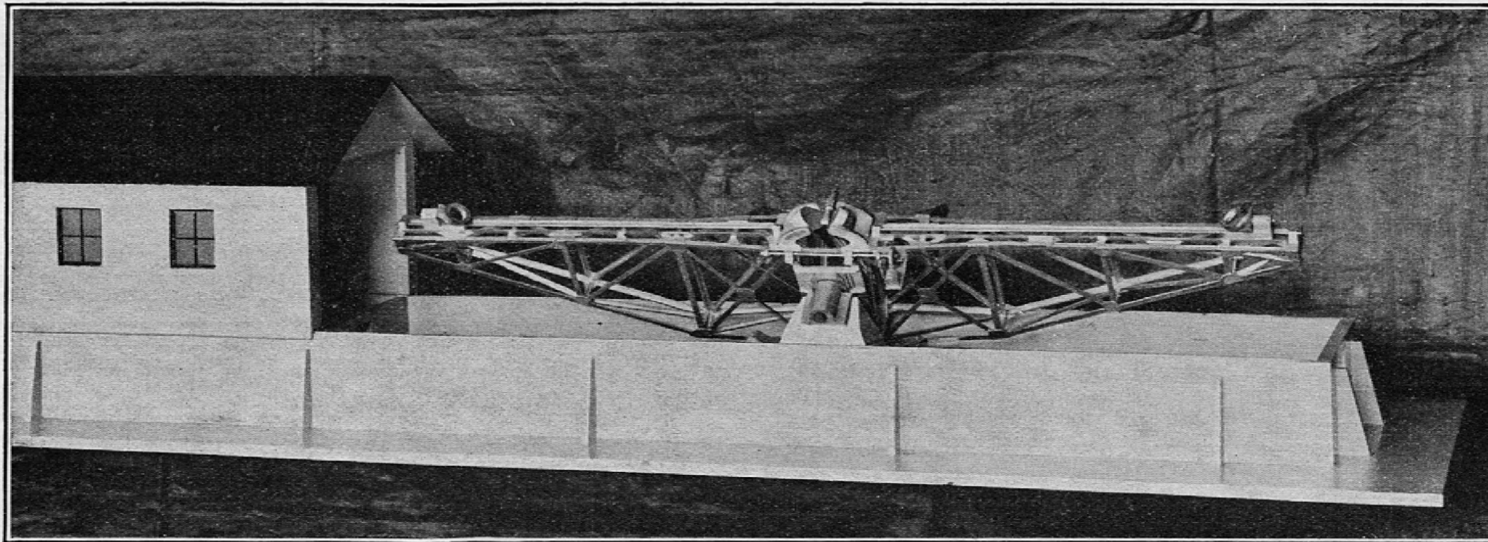
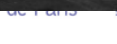


FIG. 2.—50-foot interferometer telescope for the Mount Wilson Observatory.
Model seen from the south, showing movable house that covers the instrument when not in use.







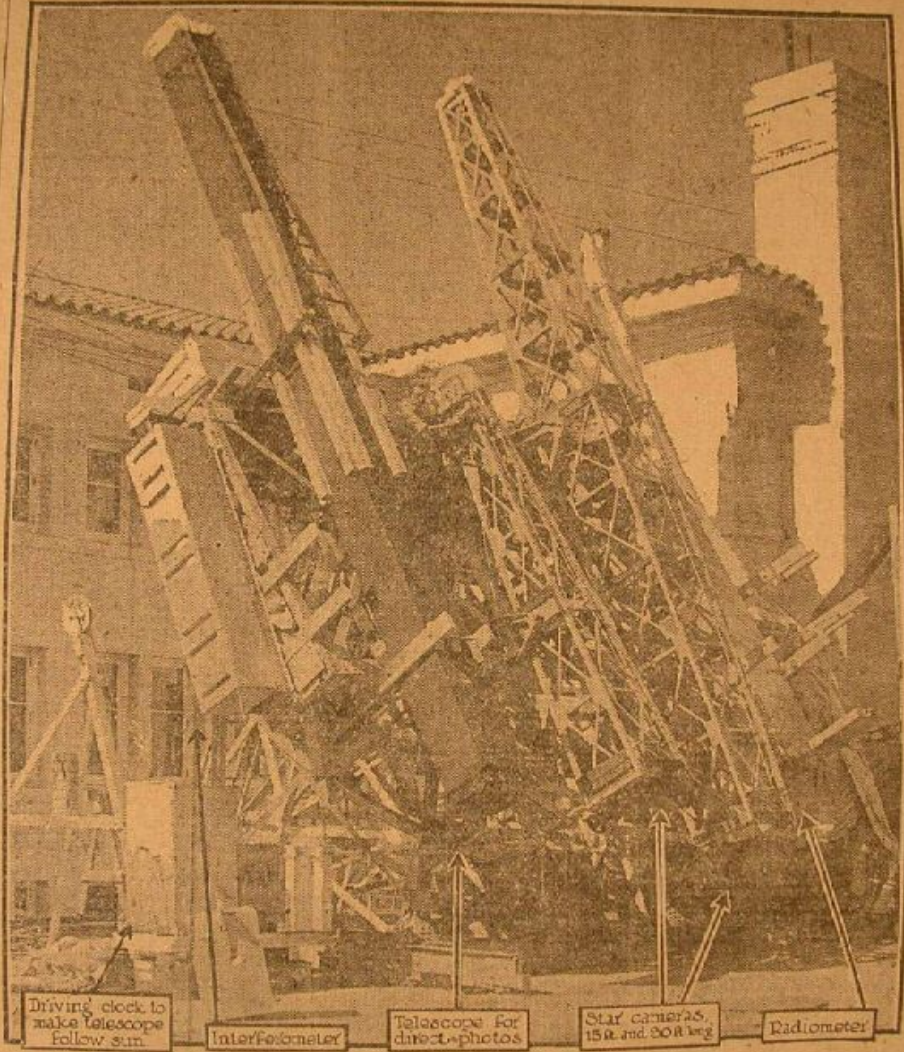
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THE MOUNT WILSON OBSERVATORY BATTERY OF ASTRONOMICAL INSTRUMENTS TO BE FOCUSED UPON THE TOTAL ECLIPSE OF THE SUN NEAR SAN DIEGO, CAL., OCCURRING SEPTEMBER 10. ALL WILL BE MOUNTED ON A REVOLVING PLATFORM OPERATED BY A CLOCK MOTOR.

When the Eclipse Hits Fort Wayne

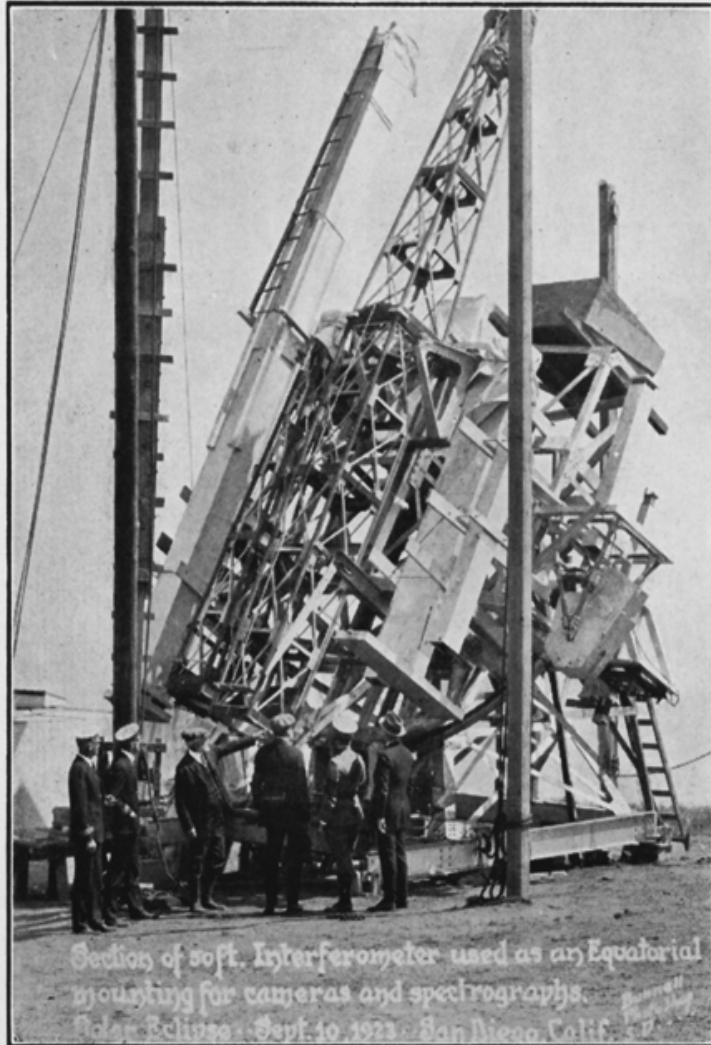
ifornia, McCormick of Virginia, the University of Paris, Spruille of Pennsylvania, Flagstaff and the University of Arizona, Potsdam of Germany and several Mexican institutions.



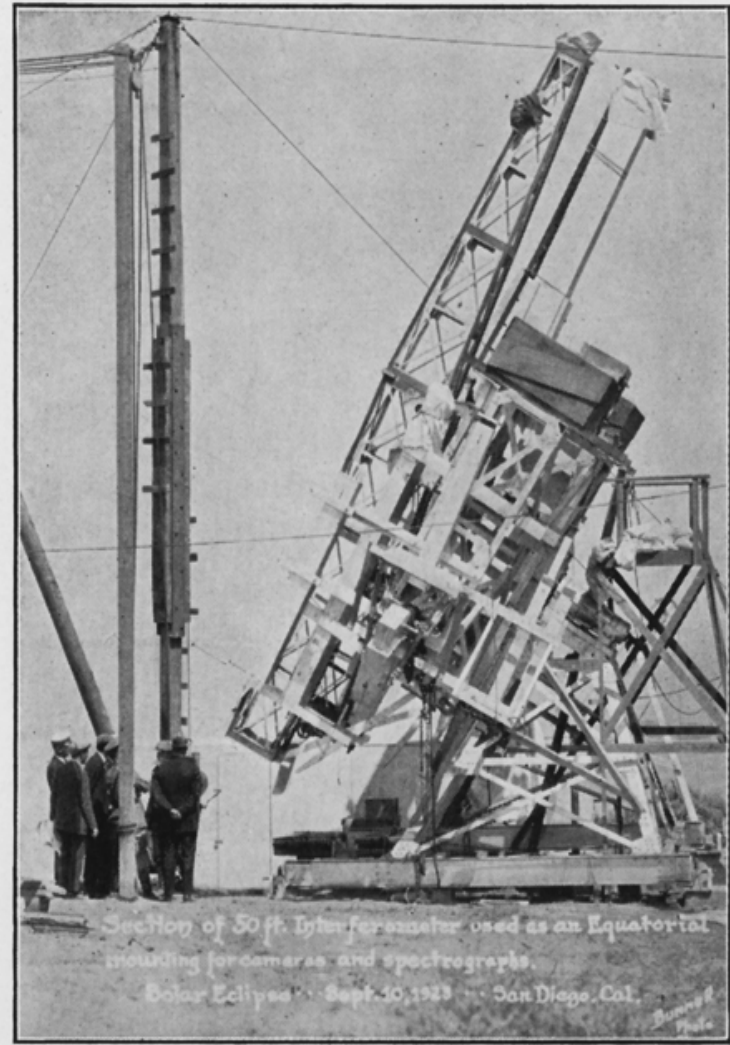
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Section of 50 ft. Interferometer used as an Equatorial mounting for cameras and spectrographs.
Solar Eclipse - Sept. 10, 1923 - San Diego, Calif.



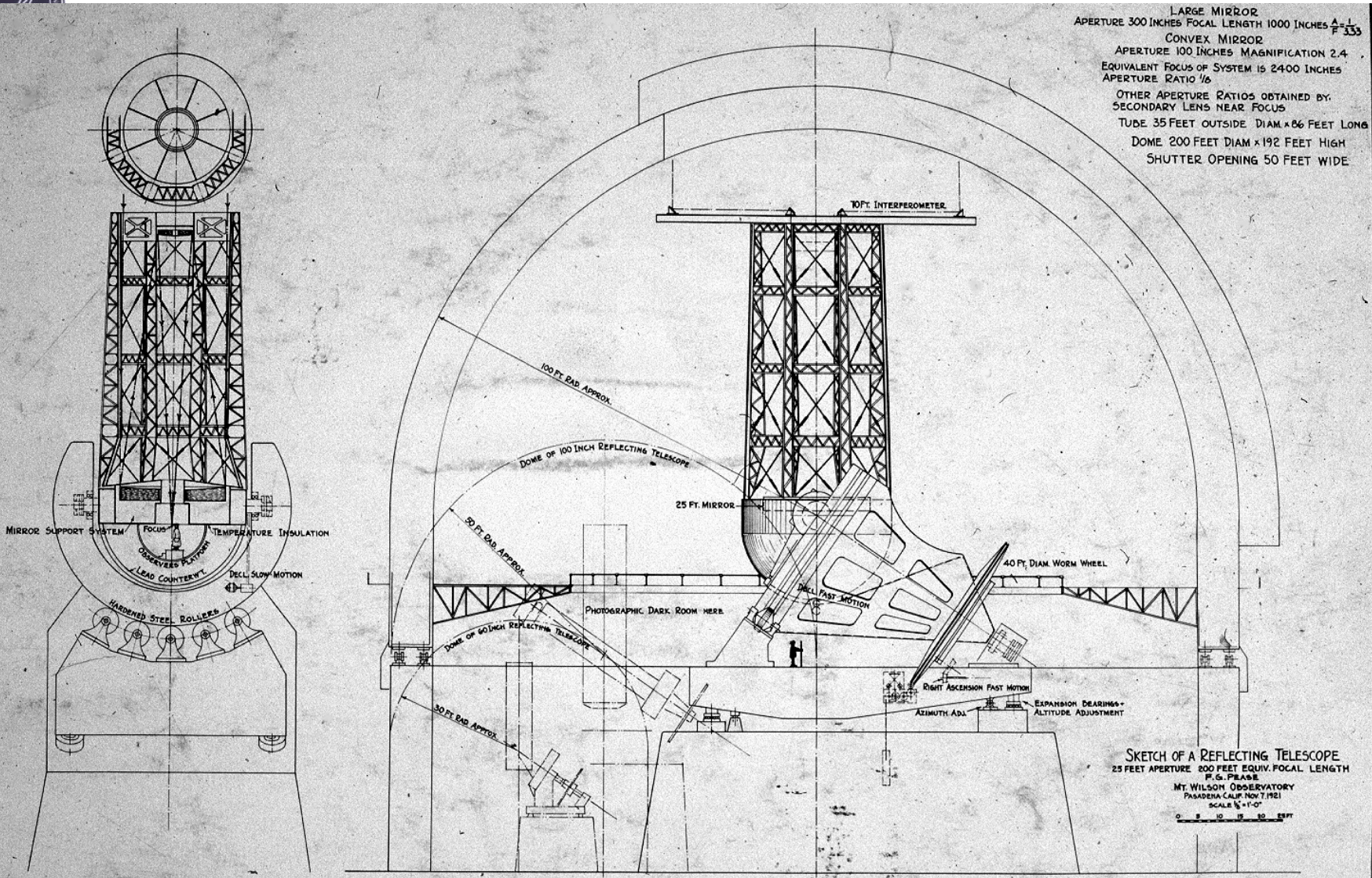
Section of 50 ft. Interferometer used as an Equatorial mounting for cameras and spectrographs.
Solar Eclipse - Sept. 10, 1923 - San Diego, Calif.

ECLIPSE INSTRUMENTS OF THE MT. WILSON OBSERVATORY ON POINT LOMA, CALIFORNIA



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LARGE MIRROR
 APERTURE 300 INCHES FOCAL LENGTH 1000 INCHES $\frac{A}{F} = \frac{1}{333}$
 CONVEX MIRROR
 APERTURE 100 INCHES MAGNIFICATION 2.4
 EQUIVALENT FOCUS OF SYSTEM IS 2400 INCHES
 APERTURE RATIO $\frac{1}{6}$
 OTHER APERTURE RATIOS OBTAINED BY
 SECONDARY LENS NEAR FOCUS
 TUBE 35 FEET OUTSIDE DIAM. x 86 FEET LONG
 DOME 200 FEET DIAM x 192 FEET HIGH
 SHUTTER OPENING 50 FEET WIDE

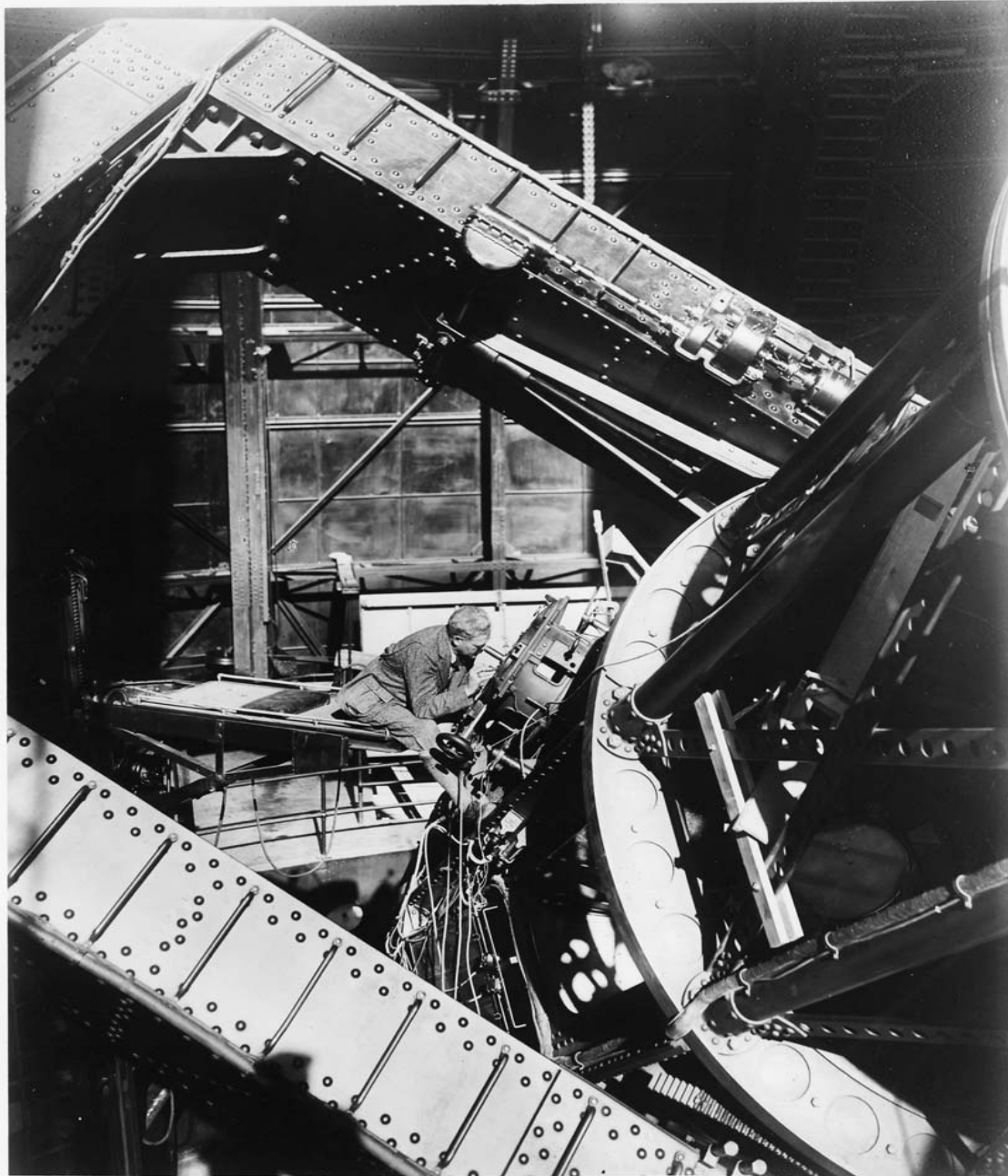
MIRROR SUPPORT SYSTEM
 FOCUS
 TEMPERATURE INSULATION
 OBSERVER'S PLATFORM
 LEAD COUNTERWT.
 DECL. SLOW MOTION

VIEW LOOKING DOWN POLAR AXIS

SIDE ELEVATION

SKETCH OF A REFLECTING TELESCOPE
 25 FEET APERTURE 800 FEET EQUIV. FOCAL LENGTH
 F. G. PEASE
 MT. WILSON OBSERVATORY
 PASADENA CALIF. NOV. 7, 1921
 SCALE 1/4" = 1'-0"









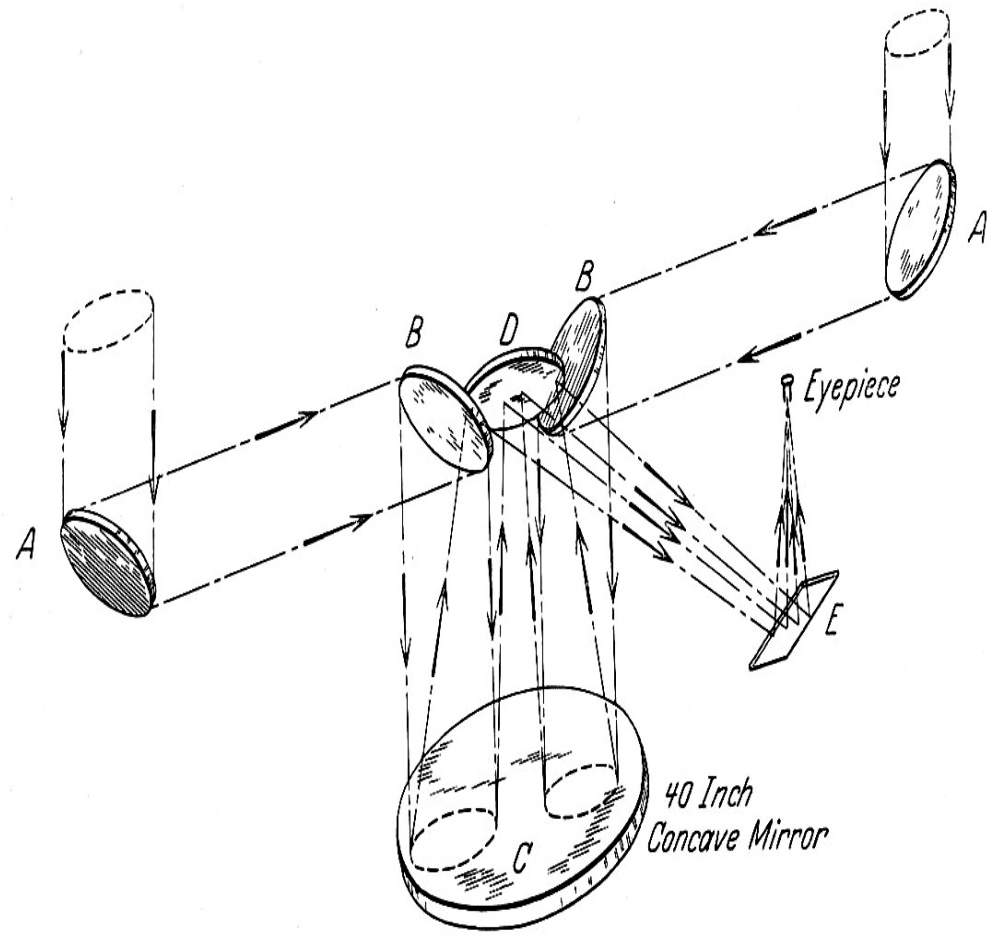


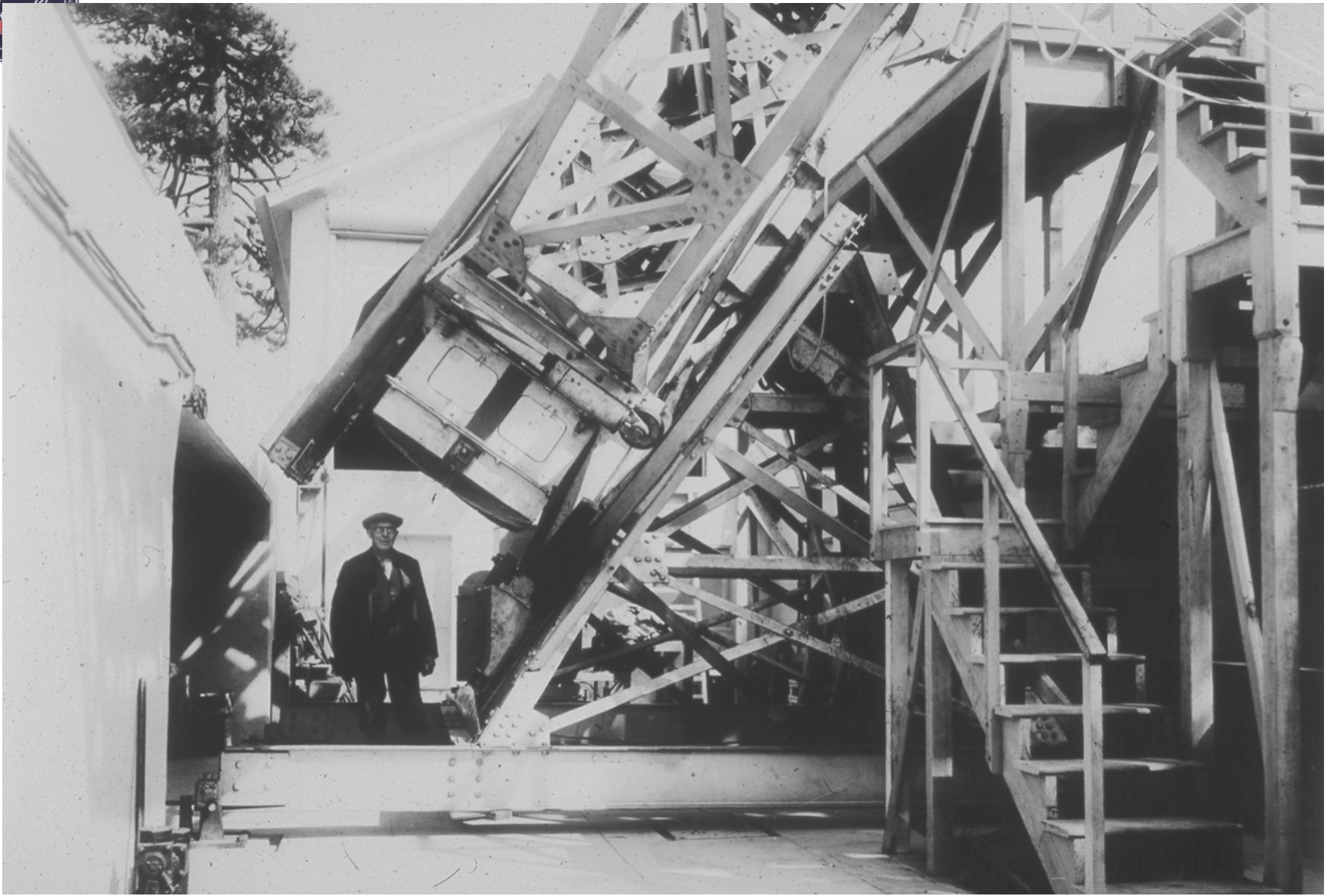
Abb. 8. Diagram of light path in 50 foot interferometer.

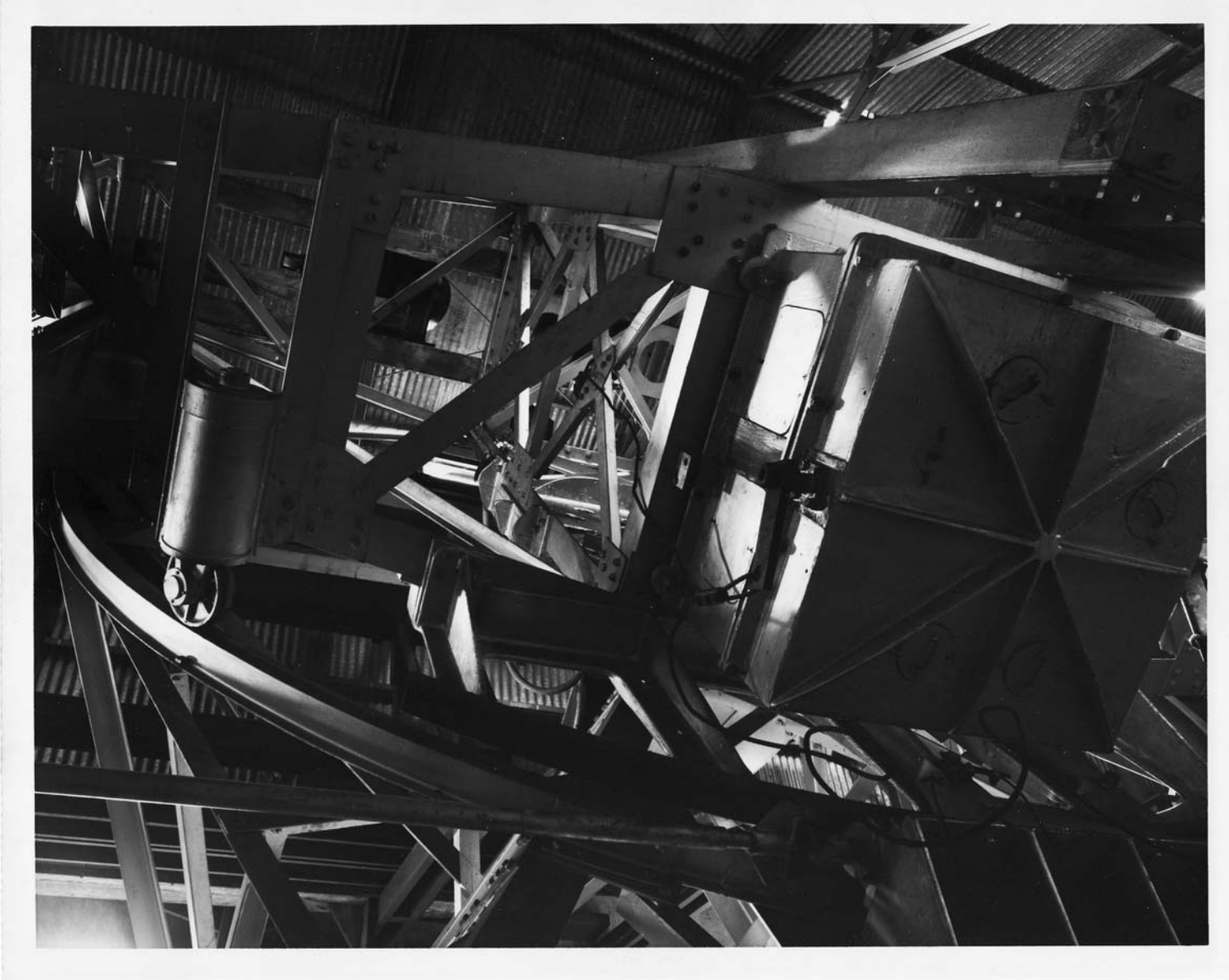


DIAM. $40 \frac{3}{8}''$ THICK $4 \frac{15}{32}$ NO. 557
 RAD. FOCUS $18 \cdot 2 \frac{5}{8}''$ central $6 \frac{1}{2}''$ diam. un-collected

50 in Interferometer Finished 7/6/28
 Bolan 174 hrs. Kifney 565 hrs Mr. of prof 530 Mr.



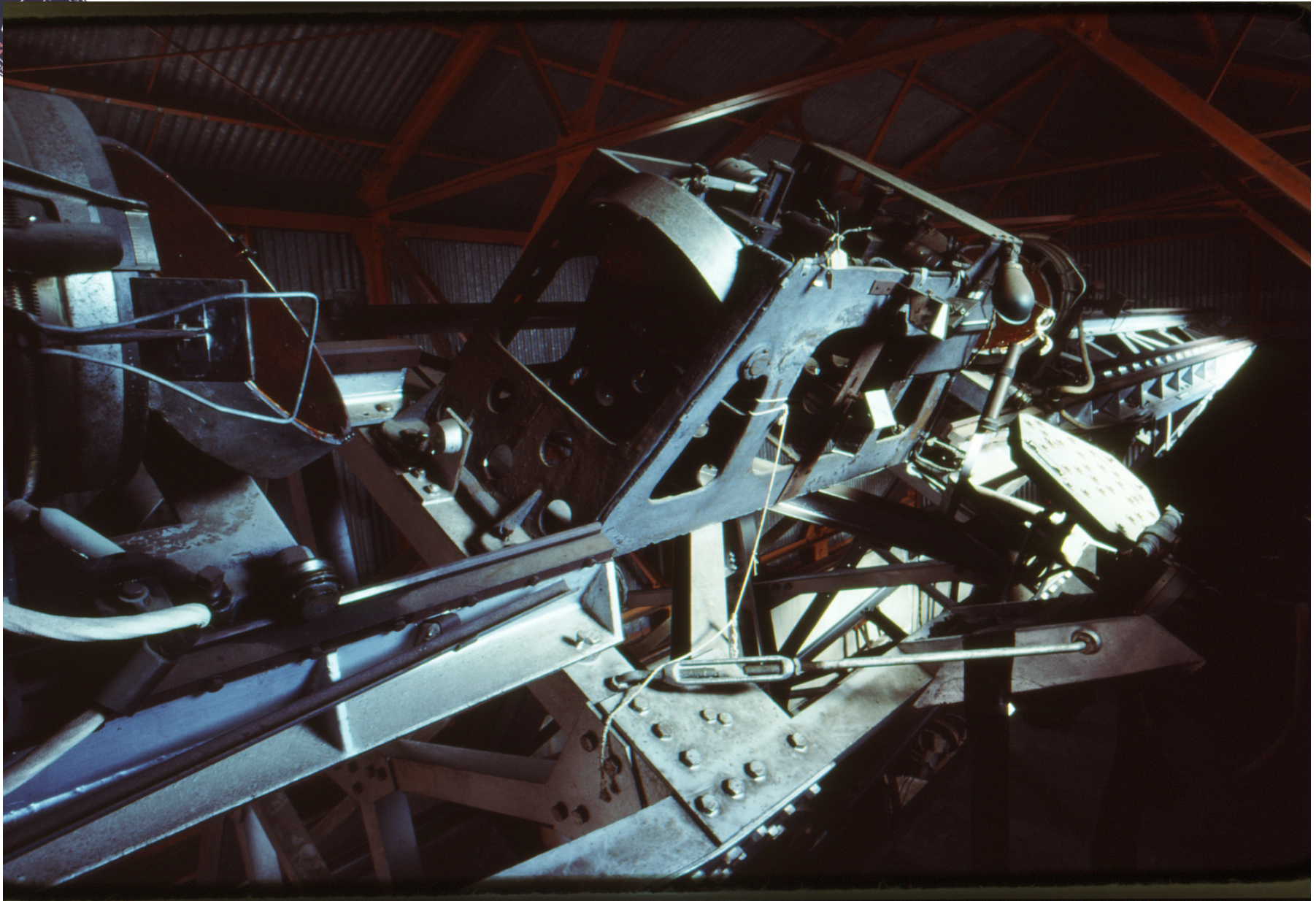




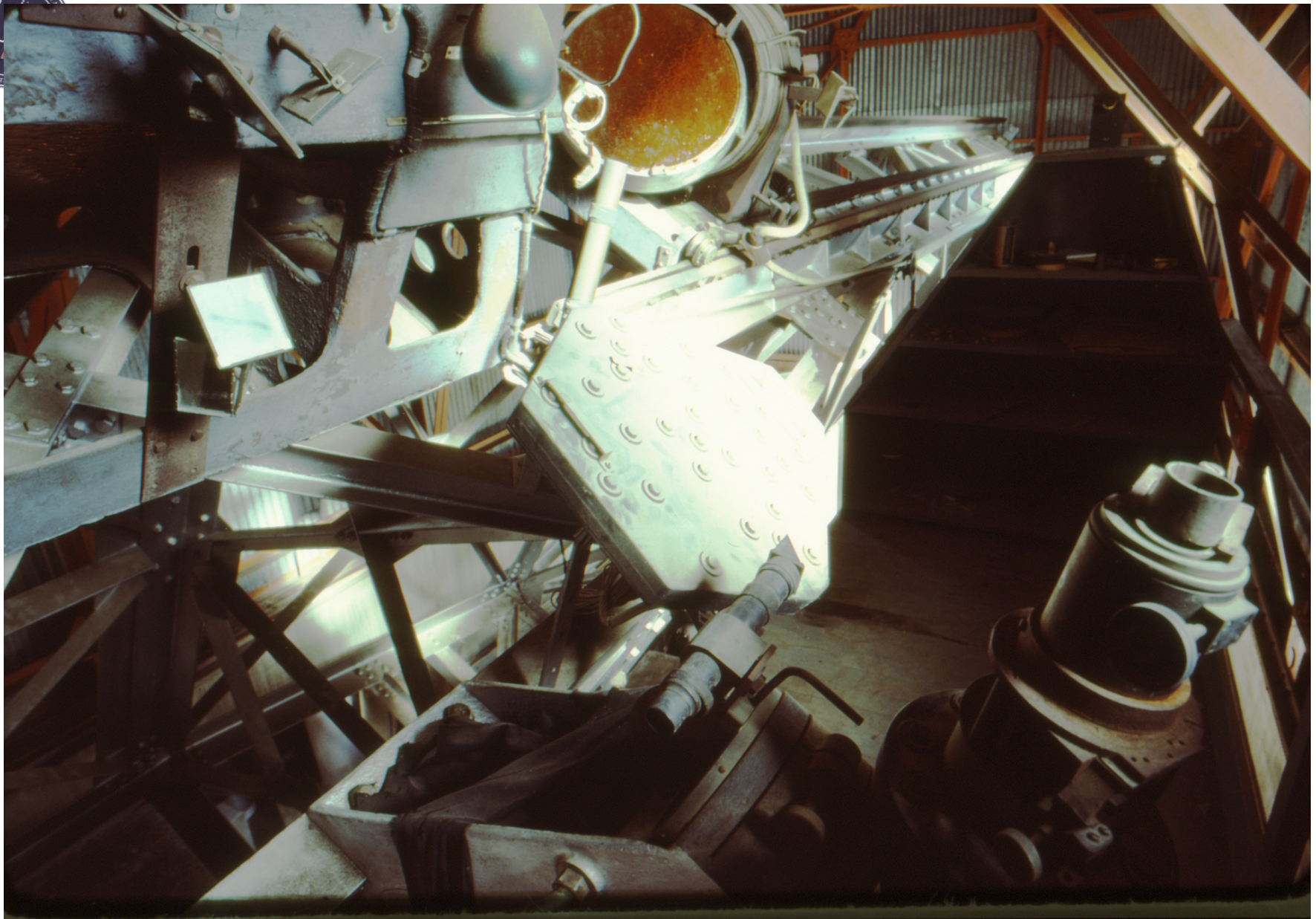
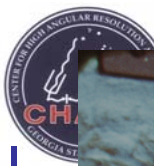


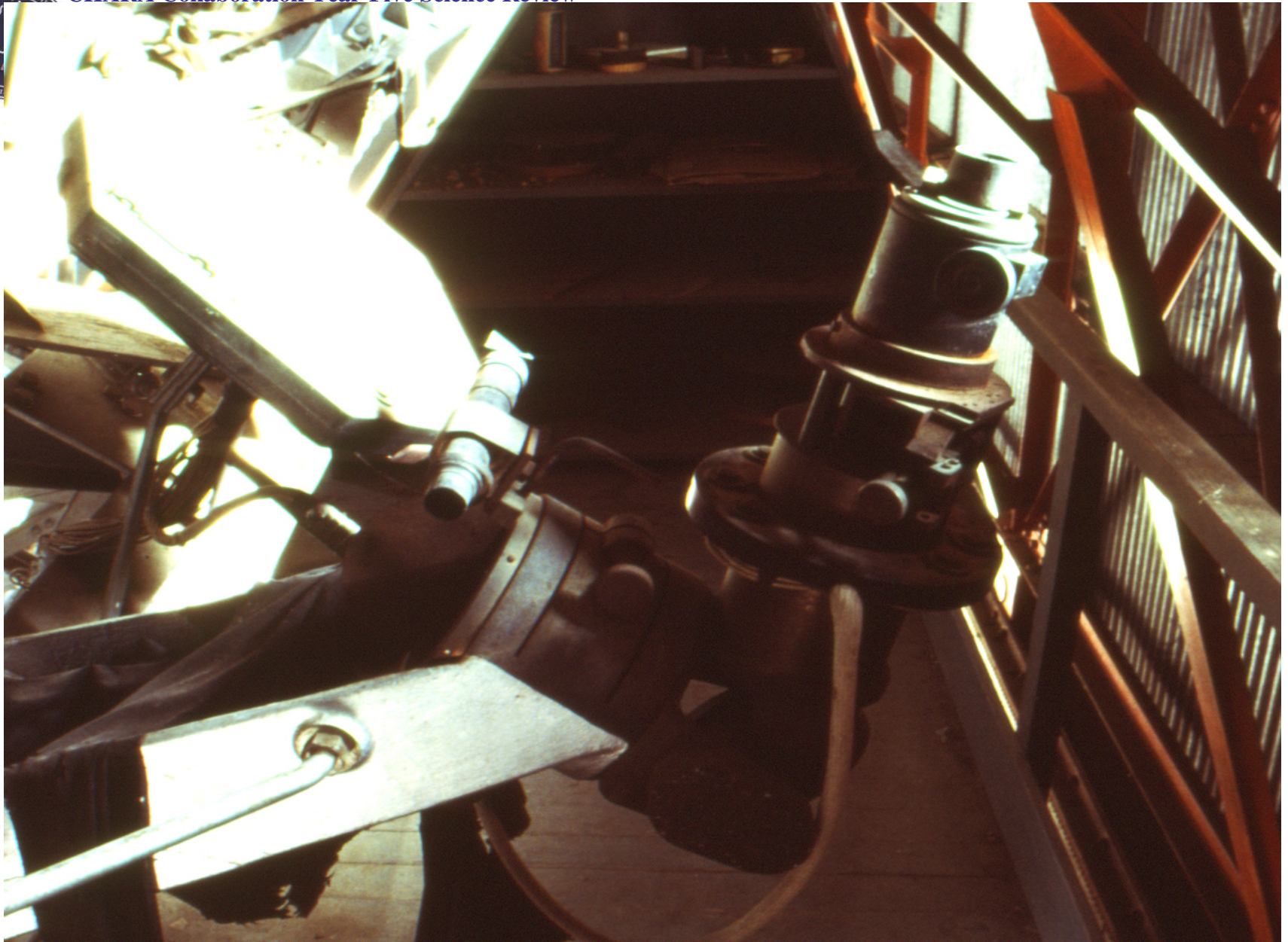


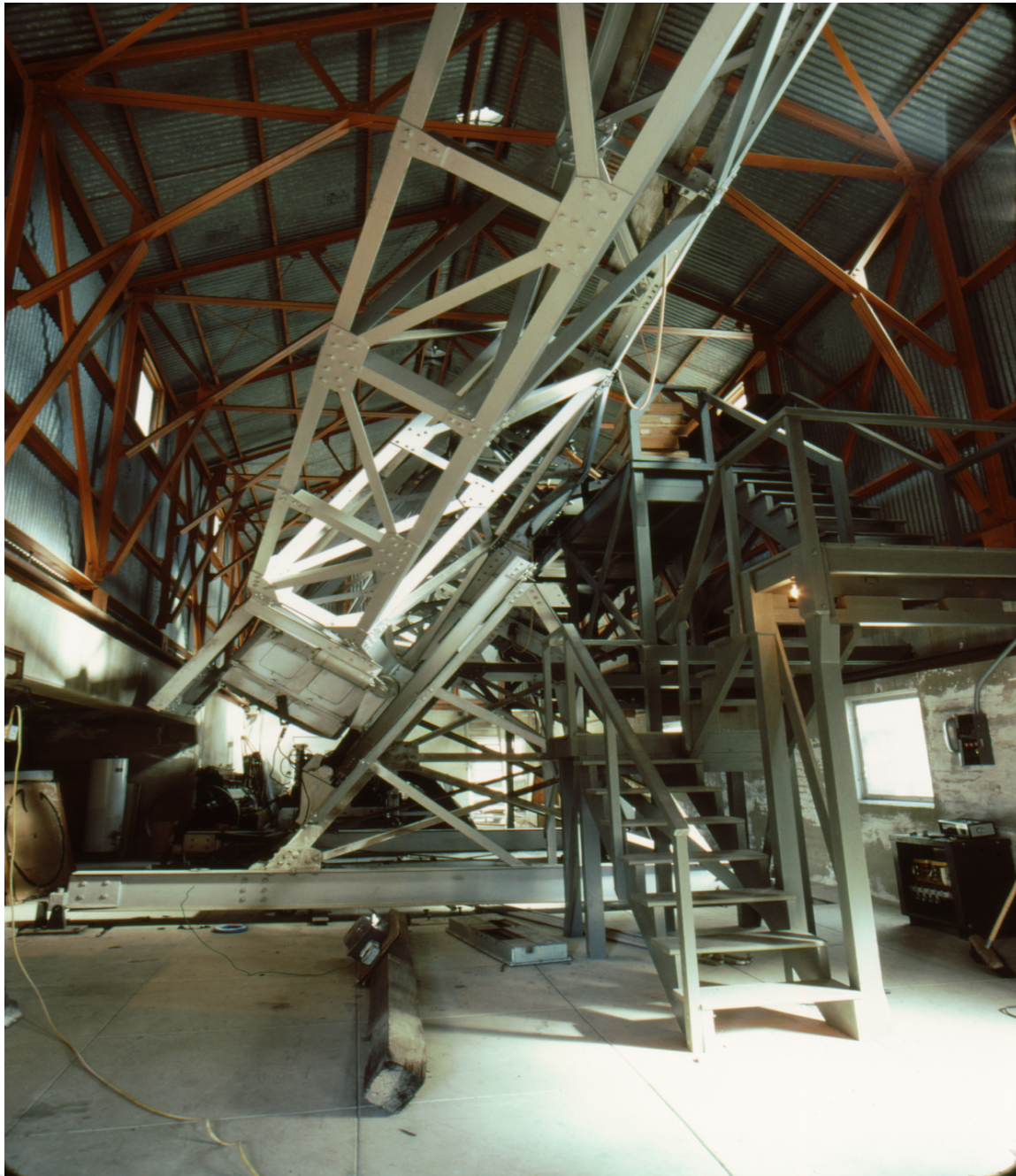














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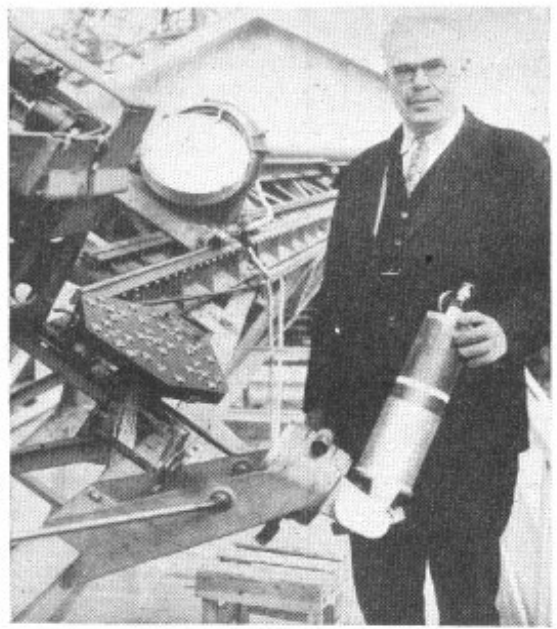


\$5 a Year

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September 27, 1930



LOOKING FOR BIGGER STARS

Francis Pease and The New Fifty-Foot Interferometer

(See page 206)

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No. 494



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