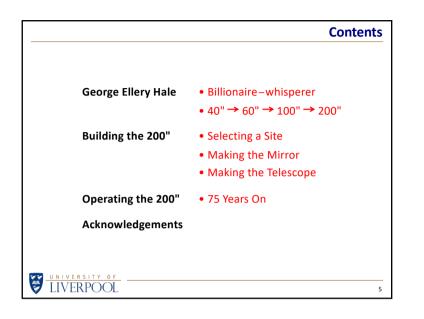
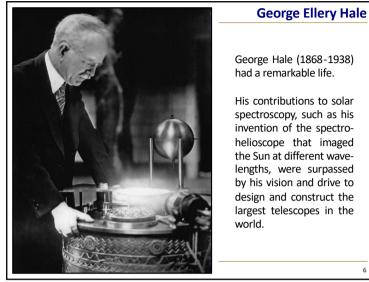




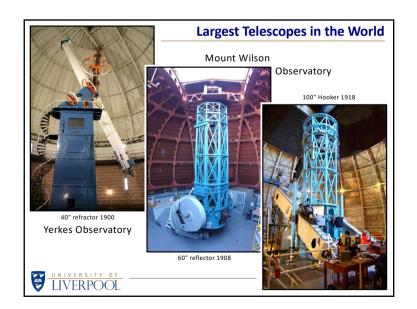
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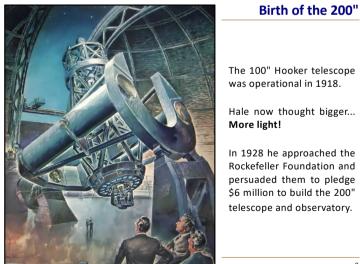




George Hale (1868-1938) had a remarkable life.

His contributions to solar spectroscopy, such as his invention of the spectrohelioscope that imaged the Sun at different wavelengths, were surpassed by his vision and drive to design and construct the largest telescopes in the

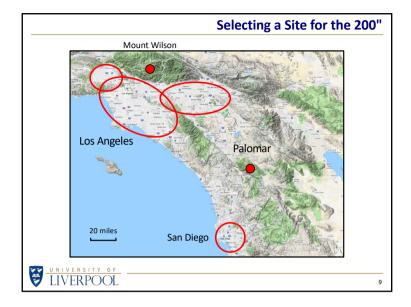


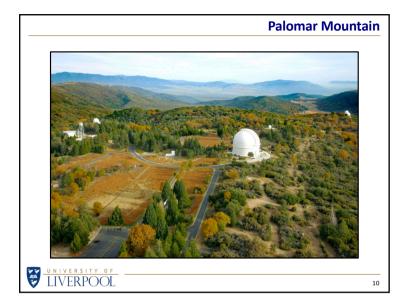


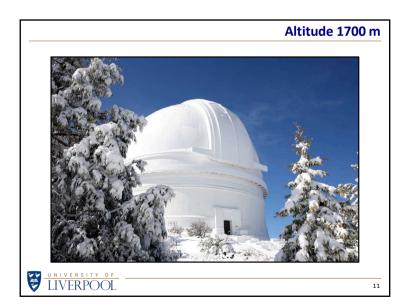
The 100" Hooker telescope

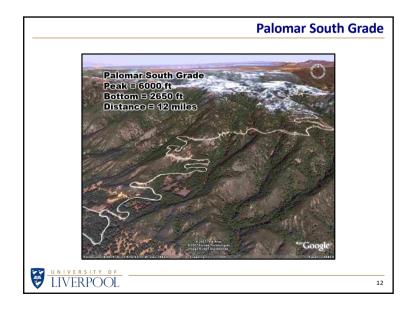
Hale now thought bigger...

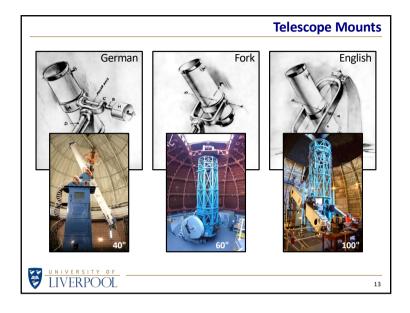
In 1928 he approached the Rockefeller Foundation and persuaded them to pledge \$6 million to build the 200" telescope and observatory.

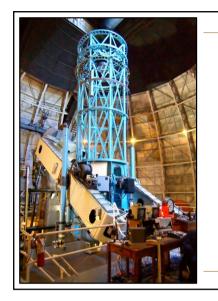












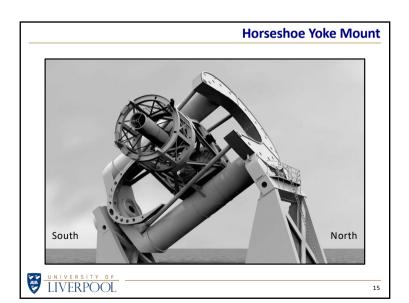
100" Hooker

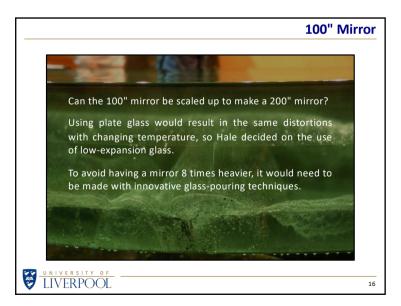
Hale did not want the 200" telescope to suffer from the same limitations as the 100" Hooker telescope.

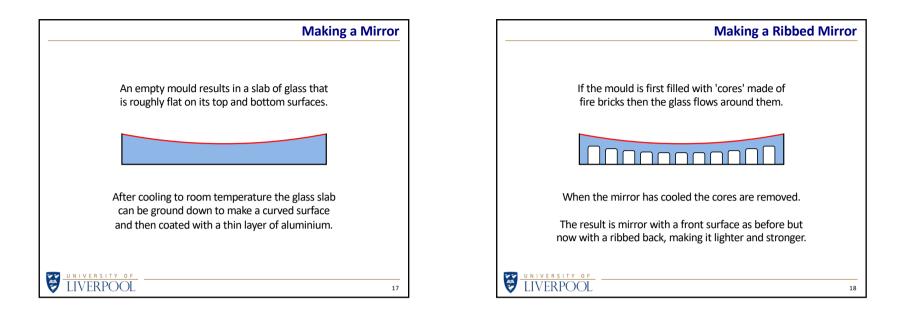
The English (yoke) mount meant that no observations could be made within 30° of the north celestial pole.

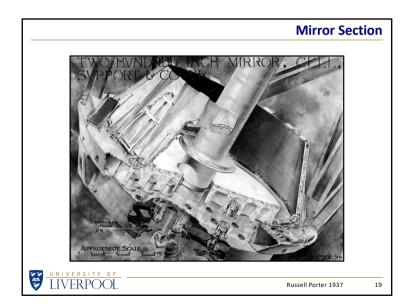
More importantly, the plate glass mirror expanded and contracted with changing temperatures, distorting the mirror surface.

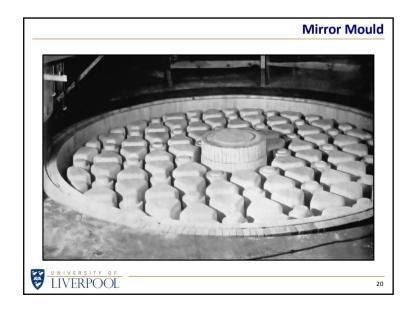
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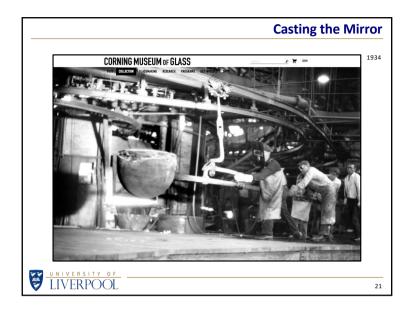


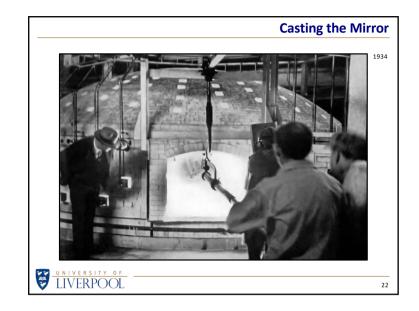




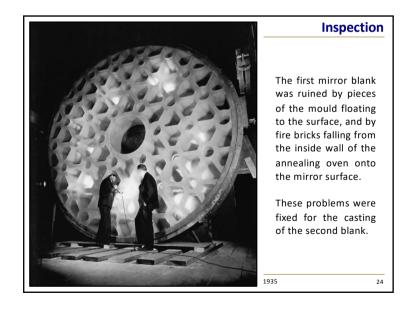




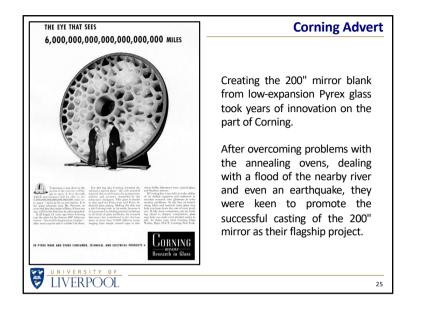


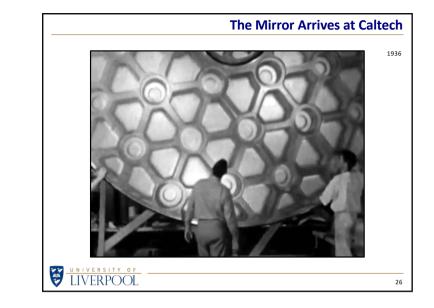


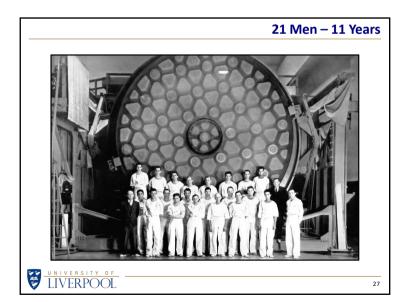


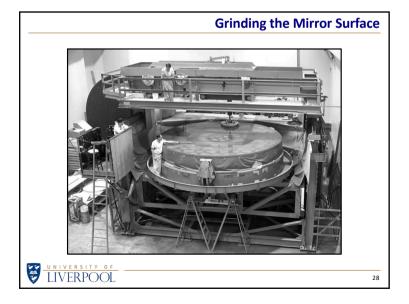


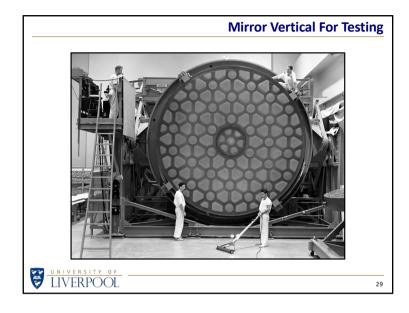
- 6 -

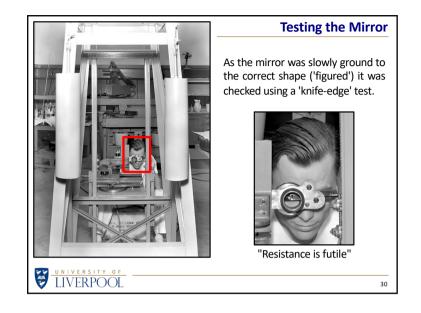


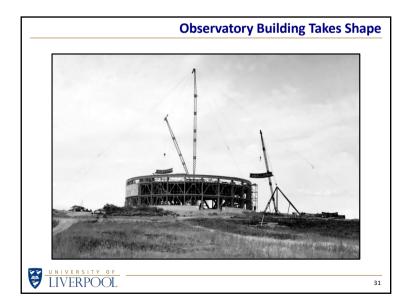


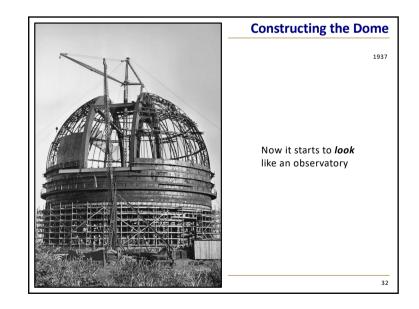


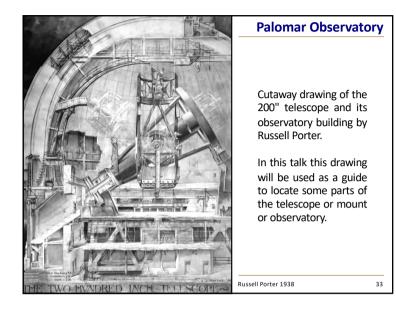


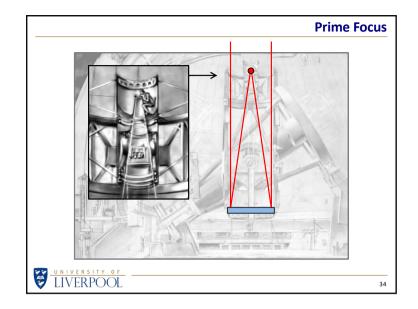


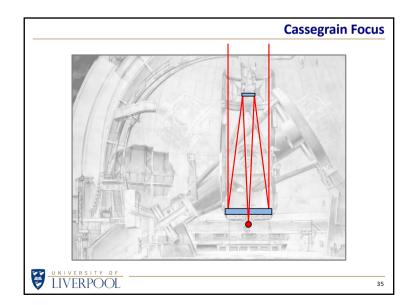


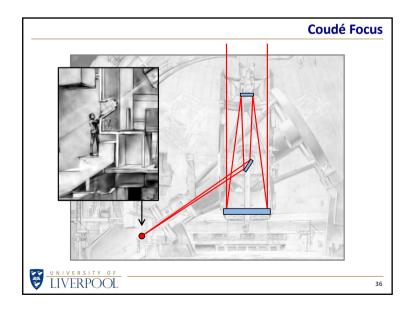


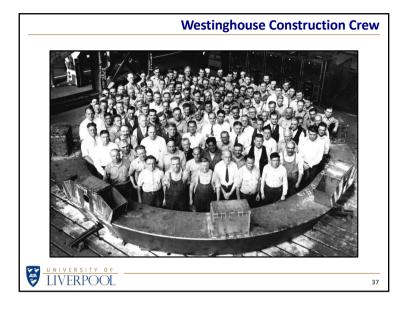


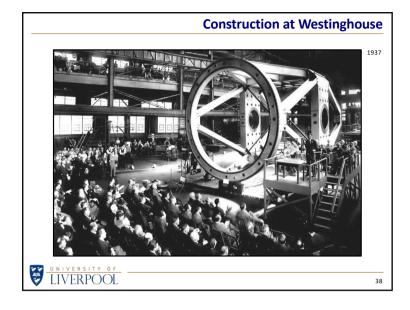


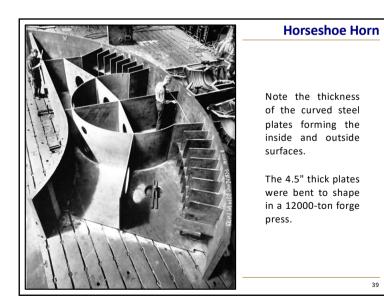




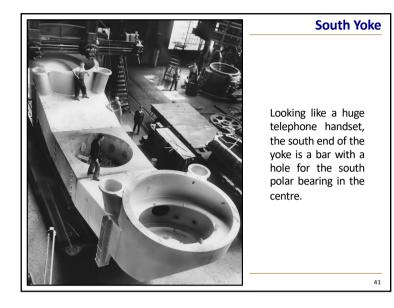


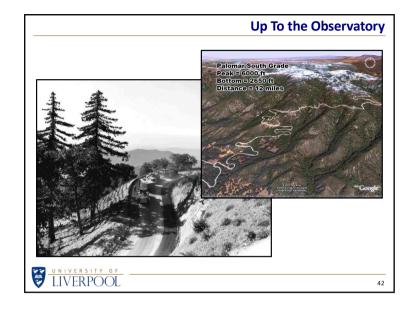


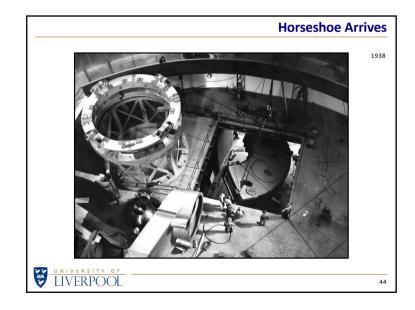


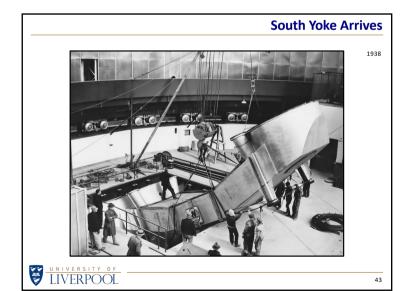


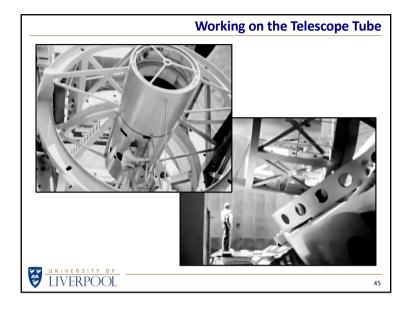
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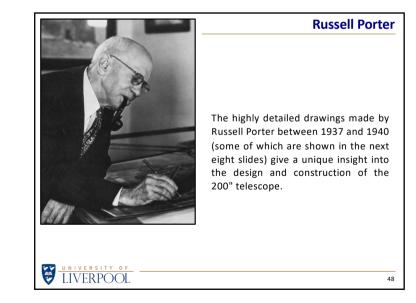


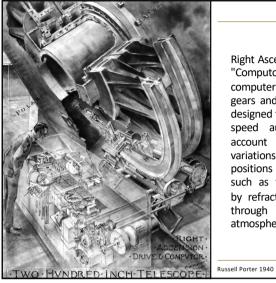








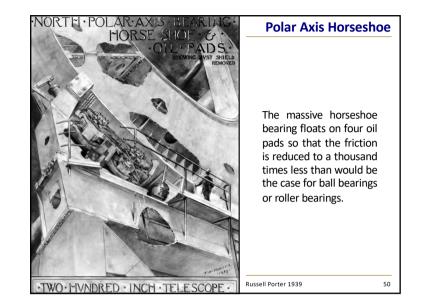


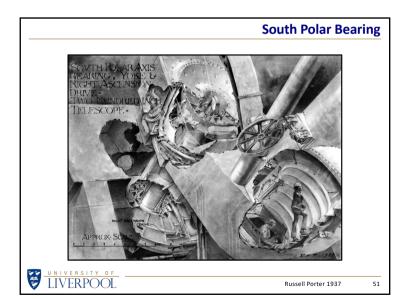


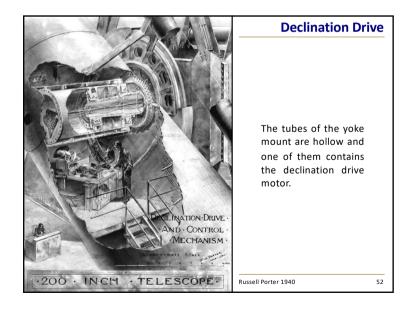
RA Drive

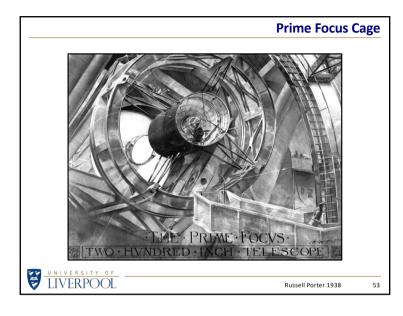
Right Ascension Drive and "Computor", an analogue computer comprising gears and cams that was designed to vary the drive speed automatically to account for very small variations in the apparent positions of the stars, such as those produced by refraction of starlight through the Earth's atmosphere.

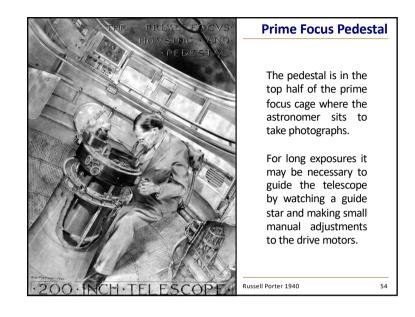
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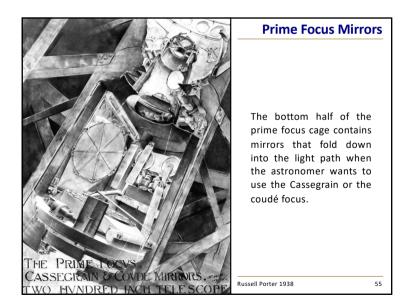


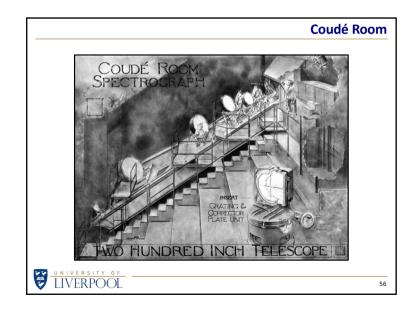


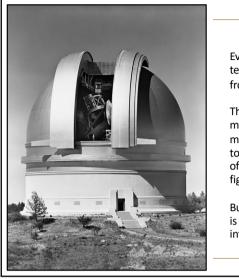












Almost Complete?

Everybody thinks that the telescope is just months from being finished.

The telescope tube and mount are complete. The mirror has been ground to within a few millionths of an inch of the correct figure.

But ... it is 1941. The USA is about to be dragged into World War II.

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