and some marvellous organization on Mr Tonkin's part, was the very successful party, at which the following 23 "objects of interest" were displayed in his various observatories, workshops & sheds.

1. The new telescope, described already, in the big Observatory; which Mrs Dunnett formally opened at 3-30 after Mr Tonkins had explained its history.

Mrs Dunnett lived nearly opposite "East House".

2. His small observatory with the 8½" Reflector 6ft long. As the dome was not opened nothing much was seen of this.

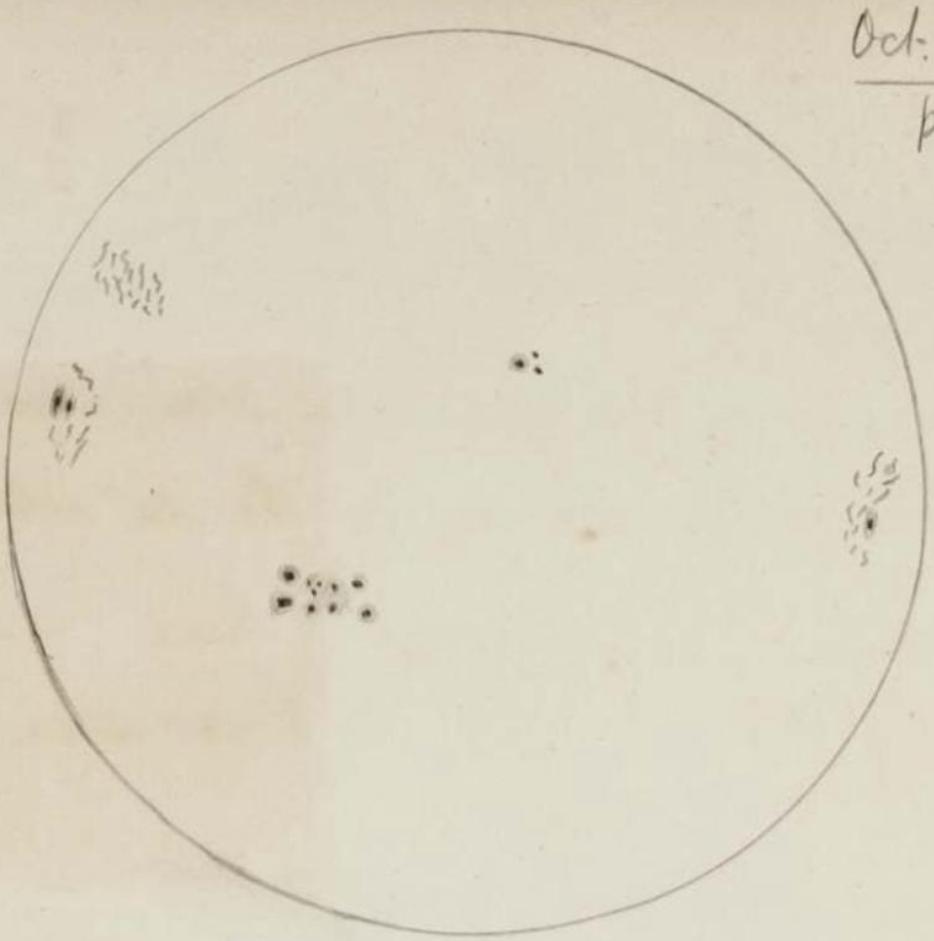
3. A scale model of the Solar System stretching across the Paddock with a 4ft 6 Sun, & ½ inch Earth.

4. A model to show eclipses.

5. In Room 1. Sunspots through my 3½ Wray. The Shed was entirely darkened, & the spots projected on a screen the other side of the room, where the solar image was approx 6ft in diameter the 200 power eyepiece being used, & thanks to a cloudless sky magnificent views obtained of the spots & faculae. For over 1½ hrs I had a steady flow of guests, the number of whom saw these spots must have been over 100.

A drawing is appended.

Oct. 3rd 1925. As projected.



Note the foreshortening of the spots, the large group & the three areas of faculae beautifully seen, as well as the whole mottled appearance of the Sun.

6. In Room 2. The Solar Spectrum through the 3in. finder of the 24" telescope & a direct vision spectroscope, projected on paper in a corresponding darkened room, & presided over by Miss Vera Reynolds. She had an excellent show of the Fraunhofer lines, and it is the first time I have seen them. I also had an excellent view direct thro the spectroscope on the sky near the Sun.

7. } A 30in slab of glass ready for making another
8. } larger mirror, & all his apparatus for making a mirror.

9. A fine series of lantern slides, fixed in the workshop window, mostly from Mount Wilson Photographs.

10. A Micrometer.

11. Light-Curves of two Variable Stars (Algol & S.S. Cygni)

12. The Clock & electric governor for the 24" telescope.

13. } In Room 4. The drawings I had made of
14. } Mars, Jupiter, & Saturn, each 18in diam. on
15. } sheet of white cardboard.

16. My model of Mars, made in 1909.

17. A large map of the Moon on cloth & rollers.

18. Two Mount Wilson photos of the Moon.

19. The model of the Lunar crater Triesnecker.

This was made during September on a stout wooden box lid about 3ft x 2ft, of cement & garden mould 3–1, from a photograph in Nasymth's "The Moon" to a scale of 10,000 feet, or 2 miles, to the inch. No great difficulty was experienced in moulding the wet cement into sharp crater walls, mountain ranges, central peak etc, rills & furrows being drawn with the edge of the trowel, & in about a fortnight it dried a nice rock colour. Cracks due to shrinkage

were washed over with similar material & mud water.

After the exhibition the model proved very useful in showing guests what lunar craters were really like after looking at them through my telescope.

Owing to being only 3-1 mixture the edges began to fall off in 1927.

20. Model showing why only one side of the Moon is seen.

21. a Transit Theodolite.

22. a Pocket Sextant.

23. My 3" Gregorian Telescope, with a suitable inscription setting forth its "great interest" its age probably as 100 yrs. & a diagram of the principle it worked on. This seemed to catch the popular fancy & was the source of some little interest.

After the new observatory had been opened at 3-30, most of the guests came in a steady stream to see the Sunspots, afterwards visiting the other exhibits. Tea was served in a large marquee by Eley the baker from 4 pm onwards. L.T.C. came up & saw my Sunspots & most of the other things. About 5 pm the company dispersed, & L.T.C. & I packed up our belongings into the car & got home again about 6.30.