## Lunar Photography

Results Attained With Use of Horizontal Telescope.

A new atlas of the moon is being porary station is in a lonely region prepared for publication by Professor surrounded by forests with but one W. H. Pickering, of the Harvard ob- other house in sight. As it sometimes servatory, from material obtained dur- happens that no rain falls during a ing the past season by means of the | whole month the water supply is a se-136-foot telescope at the observatory's rious consideration. Rain water is temporary astronomical station in collected on cement platforms called Jamaica. Although observations were barbecues, which are built primarily interrupted by the approach of the for the drying of coffee and the pirainy season in May the undertaking mento berries which provide the allis sufficiently advanced to be complet- spice of commerce. The barbecue at ed by midsummer, and Professor the observatory is something like 40 Pickering has already brought to Cam- by 80 feet in size, slightly inclined so bridge a full set of the photographs that the rainfall can be conducted to necessary for the proposed publica- a cement tank for storage. However, tion. The apparatus is the long "hor- in the mountains the dew is exceedizontal telescope," already described ingly heavy, and as the observatory in the Herald, built on the principle of buildings are roofed with galvanized reflecting the rays from the object hor- iron, the Harvard party undertook by izontally through a fixed lens. The means of gutters to gather the nightly method permits of an extremely long fall for drinking purposes. Sometimes focus and secures a much larger pic- two or three gallons were collected in ture than is possible where the tube a night. At present, of course, it is of the telescope is pointed at the ob- the rainy season in Jamaica, with waject. The arrangement is also an ex- ter enough and to spare, but it is tremely economical one, temporary Pro. Pickering's intention to complete sheds serving all the purposes of the his observations as soon as the condiold-time tube, though the instrumental tions of the climate will permit. He parts are very expensive. It is also will then abandon the station, selling the only known method of making the buildings and removing the instrularge instrumental powers readily ments to Cambridge. All in all, the portable. The mirrors, lenses and ma- station has been a decided success chinery of the telescope were all taken | Aside from the photographic work on from Cambridge early in October, but the moon, which, of course, has renearly three months were spent in the | sulted in records of permament value. work of getting ready, so that it was | the "seeing"-as the astronomers call not until the morning of the first day it-from the highlands of Jamaica has of the new century, a few minutes after proved to be good, much better than midnight, that the first observations in Cambridge, though not equal to were made, and several days later be- that of the permanent Harvard stafore satisfactory photographs were ob- tion at Arequipa, Peru, where the contained. A 12-inch lens is used with a ditions are well nigh ideal.-Boston "stop" reducing it to a six-inches di- Herald. ameter, for the photographic work, and exposures of eight minutes are made for the quick plates and of a minute and a half for the slow plates, the of green tobacco, which they use in apparent inconsistency in the times of pipes with tiny bowls and stems two exposure being due to the fact that the or three feet long. They stick their more sensitive plates are used just pipes down the back of the neck when after the lunar sunrise or before the not using them. There is a deal of Junar sunset, when but little light is drinking, too, though they have many obtainable from the crescent of the proverbs against it-"Heaven and moon. While the lunar geography is earth are too small for a drunken being studied at Jamaica., it appears man," "White whisky makes a red that the local geography is not with- face," "There is no bottom to the apout its peculiar problems. The tem- petite for drink.'

Coreans as Smokers.

The Coreans are inveterate smokers

## Fame and Povertv

Have Walked Handin-Hand Through Herbert Spencer's Career.

his 81st birthday. After a lifetime of self-sacrifice and privations, the great philosopher finds himself at the threshold of the grave almost as poor in worldly possessions as when he started the career that has brought him so much fame but so little pecuniary recognition. There is something almost pathetic in the life-work of a man like Herbert Spencer. The son of a school-master, Mr. Spencer was educated very largely at home by his father, though he also went to a school at Bath, the head-master of which was the profession of a civil engineer, and for five years later acted as sub-editor of the Economist before he turned to the reader. the work with which his name will always be identified.

It is as a popular philosopher that reputation, and yet one must read the account of his self-sacrifice and privaphilosopher of this century fought be-"Social Statics," certainly a rather un- been 108,000.

Herbert Spencer, whose name will | handy book, took fourteen years to live in the world of thought as that sell, although the edition ran only to of one of the nineteenth century's 750 copies. The "Principles of greatest thinkers, has recently passed Psychology" with a first edition of 750 copies, did not sell out for twelve years, and at the end of fifteen years the author lost no less than \$6,000 through his publications. The strongest man, however, is the man who can wait, and Herbert Spencer waited. The scientific method of studying human life began to find willing pupils, not only among scientists, but also among young students of philosophy at the universities and workingmen, who gave up their evenings to the study of technical or social sciences. Few books of philosophy have enjoyed so his uncle. From 1837 to 1846 he plied | wide a popularity or sale as the "Data of Ethics," where flowing and persuasive argument delight and enchant

The Elevated in Boston.

Boston opened its elevated railroad recently and there was a great rush to Herbert Spencer seems to hold his patronize it. It crosses the congested parts of the city and will greatly relieve the crowded street cars, which tion before one can realize the tre- latterly were unable to carry all who mendous battle which the best known | wanted to ride. Over 120,000 passengers were carried the first day, and the fore he found any readers at all. intervening days since the average has

### Life in Persia

It Did in Olden Times.

Differs Little from What

There are others of a better class, who have their heads completely covered with a piece of cloth which has a small aperture of fine needlework over the eyes, so that they can see out, just head and reaches nearly to the ground. along walking on their toes only.

high black astrakhan turban.

milk. The wheat is reaped by a cycle cause it is lighter than the air.

Here are to be seen women covered | threshed by driving over it cattle and with a cloth thrown over the head and | horses hitched to a wide plank, with coming down to the knees, or lower, a pieces of iron or stone set in the lower fold of which they always draw up surface, winnowed by tossing it into over the face when a man appears. the air against the wind, and carefully Their legs and feet are bare, and large picked over by hand, before going to earthen water jars are on their backs. the mill, where is it ground by water power into a coarse flour.

#### Moist Air Is Light.

One of the commonest errors is to enough to enable them to get along the speak of moist air as heavy. You find street. They wear a dark blue outer the error everywhere-in the newspagarment, which is thrown over the pers, in magazines, in books, by the best writers-the "damp, heavy air." bright green baggy trousers, which are Ten persons out of 12, old or young, gathered at the ankle and fit snugly to say that when the smoke from chimthe foot like a sock, and bright red or neys hangs close to the ground it is yellow slippers just large enough to because the air is "damp and heavy," slip the toes into; the heel of the slip- and that keep the smoke from rising. per comes under the instep of the foot, Now, all this is just the other way, so that they are compelled to shuffle as everybody ought to know, since the weather bureau has made us so fami-The men wear coats of heavy gath- Har with barometric conditions and ered skirts, loose, short trousers, low changes. It is dry air that is heavy, leather shoes, a leather strap around and moist air that is light; it is dry the waist, a close fitting skull cap; or, air that bears down on the mercury as is usually the case of the better cup of the barometer, and sends the class of citizens, a loose flowing robe, column up in the tube; it is damp air much like the ecclesiastical gown that bears less heavily on the mercury. sometimes worn by the clergy, and a and lets the column fall. A high barometer indicates dry air and fine weath-The people live largely on rice, er; a low barometer, damp air and wheat fruit and vegetables; but mut- stormy weather. And so far as the ton, beef, fowls and eggs are very smoke is concerned, it lies close to the cheap and are used freely for food. ground when the air is damp and The milk of the water buffaloes, cows, light; it does not ascend because it is sheep and goats, also, is made into heavier than the air; on the contrary, butter, cheese and curds and various when the air is dry and heavy-as it dishes of the thickened or loppered is on a fine day-the smoke ascends beGREATLY REDUCED RATES

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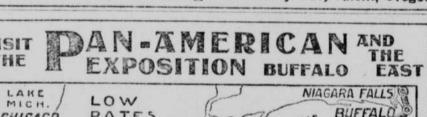


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