Over 616 Miles in 24 Hours.

M. Cordang, the Dutch long distance rider, has covered himself with glory. On the evening of September 15, at the Crystal Palace, London, he started against the 24 hour record. As the result will show, his pace was terrific from the start to the finish. In 19 hours 17 minutes and 28 1-5 seconds he lowered the world's record and had covered 500 miles. He bent to his work in the last four hours, and without slackening his speed raced for a record that will stand for a long time, even in this record breaking age. As he neared the end he gathered himself together and raced like the wind, says the American Wheelman. He finished his race in a grand burst of speed, and at the end of his ride appeared but little the worse for his great race. He covered 616 miles and 340 yards.

Cordang was entered in the recent twenty-four hour race at Paris, but had an accident in the early part, and was compelled to withdraw. He was greatly chagrined at this, as he had confidently expected to beat Huret, who in that race covered over 564 miles in the twenty-four hours. He has been training assiduously ever since, and the record made was an evidence of the good cause he had for confidence in himself. Cordang has not shown any very remarkable speed heretofore this year, but has always been rated as one of the best long distance riders. In 1895 he won the 100 kilometer championship, and he also holds several of the Dutch records.

Return of the Peary Party.

Although Lieut. Peary's latest Arctic venture has not been marked with any sensational discoveries, still it has been crowned with great success. There was no attempt made to reach a very high latitude, the idea of the expedition being to establish a principal base of supplies from which the explorers could start next season, when Lieut. Peary with one or two companions will make a dash for the pole. The "Hope" came into Sydney, C. B., on September 20, burning her last ton of coal and with her bulwarks smashed. The vessel was nearly as deep in the water as when she left the port, for the great Cape York meteorite, the largest in the world, was in the hold bedded in tons of ballast. Lieut. Peary found that the Esquimaux of the Smith Sound region were eager to co-operate with him in the work of exploration to the north of Greenland, which will be attempted next year. The party visited Cape Sabine and procured relics of the ill-fated Greely expedition, most of whose members perished of starvation at that point. The various parties which had been left at different points on the way north were taken on as the steamer came southward. The summer in Baffin Bay was marked by almost continuously stormy weather and an unusual scarcity of ice. The Hope will remain at Sydney only long enough to coal and will then proceed to New York to land the meteorite.

The meteorite is of great interest, although there has been some talk that it was not really a meteorite. It will make a valuable addition to the Natural History Museum and will be worth all the expense and labor of the voyage. Forty-five years ago, when Inglefield returned to England after his explorations along the northwest coast of Greenland, he reported that the natives in the neighborhood of Cape York tipped some of their weapons with a metal which was obtained from some big stones on the coast. Inglefield did not find these stones, which were only discovered by Peary on his second visit to northwest Greenland. As was suspected, the rocks he discovered proved to be meteorites of uncommon size, and one of them proved to be by far the largest meteorite known.

The Enchanted Mesa of New Mexico.

A survey has recently been made of the "enchanted mesa" of New Mexico by a party sent out by the Bureau of American Ethnology. For a long time there has been a tradition that the "mesa" was inhabited, but that it was abandoned in consequence of the destruction of the pathway leading up one of its precipitous sides, the catastrophe being doubtless due to a cloudburst. The traditional catastrophe was magnified by repetitions, so that the Indians came to regard elevated plateau as inaccessible.

Some years ago, Mr. F. W. Hodge, of the Bureau of Ethnology, determined to make the ascent, but he was deterred on account of the sentiment of the Indians, who held the mesa sacred. During the past summer, Prof. William Libbey, of Princeton University, ascended the mesa without finding any evidences of occupancy. Reports of this expedition having reached the neighboring Indians, they finally consented to have the party sent out by the Bureau of American Ethnology ascend the height. After measuring the eminence by triangulation, the party ascended along the ancient route and encaused on the summit for the night. Mr. Hodge examined the ground critically and Major Pradt, United States Deputy Surveyor, made a survey of the summit. A. C. Vroman, of Pasadena, Cal., obtained a number of photographs. Several potsherds, two broken stone axes, a fragment of a shell bracelet, and a stone arrow point were the chief evidences of former occupancy found on the crest, but potsherds, etc. were found 000.

in the talus swept down from the summit. The Indian tradition is therefore affirmed. No great difficulty was found in ascending the summit, save for a few feet at the top of the cleft. This chasm was spanned by means of an extension ladder.

Prof. Libbey, who made the ascent in July, reached the summit by throwing a cable over the mound by means of a cannon. The cable once having been secured, the ascent was made by means of tackling arranged for the purpose.

IMPROVED SASH HOLDING AND REMOVING DEVICES.

A novel form of sectional and removable window bead, which holds a sash to slide vertically, and which may be removed to permit the removal of the sash, is shown in the accompanying illustration, and has been patented by Richard Bohrisch, of East Las Vegas, New Mexico. The outer bead is a permanent one and the two inner beads are made in sections, the upper sections permanent and their lower ends beveled and transversely apertured, a plate adapted to receive a threaded pin being secured in the window frame under the lower end of each section. The removable section and ceilings being covered with great masses of ice in of the inner bead, A, has its upper end beveled to correspond with the bevel at the lower end of the upper section, to which it is removably secured by a thumb nut and threaded pin at the top and a bolt entering a T shaped slot at the bottom. The removable section of the intermediate or parting bead is similarly secured in position at the top, its lower end being inserted in an opening in the base of the window frame. In a re-



BOHRISCH'S SASH HOLDING AND REMOVING WINDOW BEADS.

cess in the guideway of each sash is a hook, adapted to engage an eye on the end of the sash cord, when it is desired to disengage the latter from the sash.

Labor Saving Insects.

That certain flies will steal a ride on the back or wings of some larger insect, and that this labor saving process may be habitual, is indicated by the observations of the Rev. A. E. Eaton, who noticed in Algeria a small fly of the Borborinæ group riding on the backs of big coprophagous beetles. They settle down on the prothorax, and on the base of the wing covers, sometimes half a dozen females on one beetle.

"The beetles occasionally throw themselves on their backs to try and get rid of them by rolling; but the flies elude all their efforts to dislodge them, dodging out of harm's way into the joinings of the thorax and out again, and darting from back to breast and back again in a way that drives the beetle nearly mad. In vain she scrapes over them with her legs: in vain does she roll over or delve down among the roots of the herbage; the flies are as active as monkeys, and there is no shaking them off,"

A somewhat similar case has been reported by Mrs. Slosson, says The Independent, who observed at Franconia a lacewing fly (Chrysopa), which seemed to have a black raised spot upon each wing, and others with but a single spot. She caught other chrysopas, and in the net with one of them was a minute Cecidomyia fly still clinging to the wing of a lacewing fly. It apparently is a tramp fly, stealing a ride on the larger insects, though the lacewinged flies are not rapid fliers, nor do they fly to a great distance.

THE Westinghouse Electric and Manufacturing Company has received from its European company notice of the award to it by the Metropolitan Electrical Supply Company of the contract for a large electric lighting plant to be installed in London. The apparatus will be of the multiphase type, involving the use meetings, excursions will be organized to various places of the Tesla patents, which are owned in England by the Westinghouse Company. It is understood that congress will no doubt be by no means the least apprecithe contract amounts to between \$350,000 and \$400,-

Science Notes.

The Prince of Monaco is said to have completed his season's researches in the Azores.

Two new asteroids have been discovered between Mars and Jupiter by M. Charlois, of Nice, bringing the number discovered by him up to eighty-six. Palisa, the Austrian astronomer, has discovered eighty-

The Evelyn Baldwin has arrived at Christiania, from Spitzbergen, whence she sailed northward until stopped by pack ice. She reached latitude 80° 45' and secured valuable geological and botanical collections for the American colleges.

An English steamship engineer has recently acquired the distinction of being probably the only man ever bitten by a West African double-horned viper who has lived to tell of it. The doctor kept him full of brandy and injected iodine into the wound. His temperature rose to 107.3.

Further discoveries have been made in the wonderful ice caverns opened up at the foot of Cow Mountain. Colo. Three chambers have been opened, the walls grotesque forms. In the center of one of the rooms is a lake 40×65 feet, with no apparent outlet.

Mr. Harmsworth, who defrayed the expenses of the Jackson expedition in Franz Josef Land, has declared that he will send two ships to the Arctic next season and keep an expedition in the Arctic regions till a complete map can be made of all the accessible parts of the North Polar world. The Jackson expedition has cost him \$200,000.

Hon. Charles D. Wolcott, Director of the United States Geological Survey, left San Francisco on September 11, for the Yosemite Valley. He proposes to make topographical maps on a scale of two miles to the inch of all the forest reserves in California, including recent additions, comprising 6,647,000 acres. The distribution of forests will be pointed out on this map, showing the commercial and uncommercial timber, agricultural lands, settlements, roads, houses, etc.

An interesting experiment is to be tried in connection with the Paris Exhibition of 1900. The authorities intend to establish a workmen's co-operative restaurant for the benefit of the men engaged in erecting the exhibition buildings. Arrangements are being made to supply a good meal at a very moderate price. The workmen will have the greater part of the profits divided among them, as well as the dividend, which is expected to reach six per cent of the outlay of each man.

"M. Marey has contributed to the Paris Academy an account, by MM. V. Tatin and Ch. Richet, of trials of an aeroplane invented by them," says Science. "Their first experiments were made in 1890, but the machine was wrecked. A new machine was then constructed, with which the first trial was made last year with some success. In a second trial in June last the aeroplane traveled through the air 170 meters [558 feet] at the rate of 18 meters [59 feet] per second. The machine weighed 33 kilogrammes [73 pounds]. The authors compare their results with those obtained by Prof. Langley, and, while admitting the greater distance traveled by the aerodrome, claim that their machine had the advantage of greater weight and greater

The colors of the different races depend upon the pigment in the epidermis, especially in its deeper strata. M. Breul, a recent French authority, finds according to Science that the coloring matter is in the interior of the epithelial cells, "while even in the negro the intercellular spaces are white. The pigment itself may be quite black, or of any shade up to a light yellow. It may be confined to the nucleolus or extend over the cell A close examination shows that it is distributed in patches over the skin, between them the tissue being colorless. This is true even of the black races, although in them the patches are close together and may not be discernible unless the skin be stretched. This distribution of the coloring matter is the same in all races, and its actual amount is probably the same, the difference in hue resulting from the darker or lighter character of the pigmentary grains."

The seventh session of the Australian Association for the Advancement of Science will commence on January,6, 1898, the place of meeting being Sydney, says the Lancet. The objects of the association are to give a stronger impulse and a more systematic direction to scientific inquiry; to promote the intercourse of those who cultivate science in different parts of the Australian colonies and in other countries, to obtain more general attention to the objects of science, and a removal of any disadvantages of a public kind which may impede its progress. The president-elect, who also holds the office of permanent honorary secretary, is Prof. A. Liversidge, M.A., LL.D., F.R.S. Besides the general of interest in the neighborhood, and this portion of the ated of the proceedings, for the scenery of the Blue Mountains is as beautiful as any in the world.