THE DAME EVENIES TELLIBERTH PHILADELPHA, TRUESDAY, SEPTEMBER 18 1000

THE FRANKLIN INSTITUTE.

The Monthly Meeting Last Evening-Professor Morton Shows What the Eclipse Photographic Party Did, and How They Did It—Superb Il-lustrations of the Partial-Phase, Totality, Prominences and Corona of the Great

Eclipse of August 7.

The members of the Franklin Institute were treated last evening, on the occasion of their first stated meeting this fall, to the finest exhibition of photographic views of a solar eclipse ever given in this country. Prof. Morton, Resident Secretary—to whom is due the major credit for the effective organization of the Philadelphia Photographic Expedition to observe the solar eclipse, and the excellent negatives they were able to obtain—clearly explained the construction of the delicate apparatus made expressly for the corps, and illustrated everything by well-defined images cast upon a screen. Upon an inside page of The Telegraph will be found "Eclipse Notes," extracted from the Pranklin Institute Journal, which, in connection with the following outline of last evening's address, will give our readers an interesting summary of the late solar phenomena, and the hypotheses deduced therefrom. Nothing, however, but a personal inspection of the enlarged photographs, like that given last night by the successful magnifying of seven distinct views taken during totality, can give a vivid conception of the exact and wonderful solar pictures obtained; and it is a pleasure to note that during the coming winter season our citizens will probably be favored with a popular lecture on the eclipse by Prof. Morton at the Academy of Music, illustrated by a profusion of photographic and other experiments.

The Professor said:—The main point to which attention was directed, was the arrangement of the instruments for their photographic work. It was a question of much moment to decide whether they would follow the plan adopted by the French and German expeditions of last year, and make the photograph in the principal focus of the object-giass, thus securing great intensity of light in a small image, or follow the method employed by De la Rue in 1800, when he used an ordinary Hygenian eye-piece so placed as to produce an enlargement of the first image from the objective. After a careful study of De la Rue's report Eclipse of August 7.
The members of the Franklin Institute were treated

which he would describe

which he would describe.

To the face-plate of the camera the eye-piece tub
was attached, its other end being screwed to the
telescope. The diaphragm plate moved across the
axis of the instrument, being drawn downwards by
the combined spring. The strength of this spring
could be reduced by raising the outer end of one or both the upper strips so as to disengage the forks at their end from the lower spring, and then turning them forward in a direction normal to the front of the box, out of the way.

The spring was attached to the diaphragm plate by

a swivel hook, which, while in no instance falling out, could be detached and readjusted with the greatest facility.

greatest facility.

A number of diaphragm plates were provided, with slits respectively of 1-40th, 1-30th, 1-20th, and 1-10th of an inch in width. These plates could be readily interchanged, and, in combination with the springs, gave a very wide and yet delicate series of fixed adjustments for the times of exposure.

To make the exposure, the plate was drawn up until the projecting pin could be caught on the lever, which would then retain it. On depressing the outer end of this lever, however, the hold on the pin was disengaged, and the plate hashed across the axis of the tube, allowing the light to traverse the narrow slit as it flew past. The plate was then arrested on the end of the second lever. When an exposure of some seconds was required, as during the totality, a some seconds was required, as during the totality, a plate having a round orlice exposing the entire field of the eye-piece was substituted for the one with the narrow slit, and was so arranged that, when caught by the upper lever, it covered the lens, but when fallen to the second lever, exposed it entirely; when, however, this lever was in turn touched, the least degree of the second lever, and the second that the lens of the second lever was in turn touched, the plate descended again far enough to once more close the lens. By touching these two levers in suc-cession, it was then possible to make a "time ex-

cession, it was then possible to make a "lime exposure" with great nicety and accuracy, as proved by actual experience during the eclipse.

To secure a chronographic record of each exposure, a binding screw was provided to make one connection with the general mass of the face-plate, including the lower and upper levers, to carry on the circuit when the downward motion of the lever property the service of the security with circuit when the downward motion of the lever brought the spring at its side in contact with the point projecting. In raising the lever for a new ex-posure, the spring at its side was pressed back so as to pass the point without contact. A more substan-tial break-piece would have been made had time al-lowed, but this was found to operate in a perfectly satisfactory manner. satisfactory manner.

As the operation of the eye-piece, when employed to produce an image on the screen or ground glass of a camera, is essentially different from that which It performs in its usual office, it was judged best by Mr. Zentmayer to make some alterations in its form. Thus, in the first place, since in the present case the "eye-lens" of the eye-piece undoubtedly makes a ondary image of the primary image formed within eye-piece by the combined action of the objecthe eye-piece by the combined action of the objective and the field lens of the eye-piece, it is clearly desirable to make this lens of a longer focus than usual, so that its errors may be of less account. It was also essential to give the new eye-piece a wide

angle, so as to secure a sufficient field not only for the solar disc, but also for the corona.

The reticule was mounted on a short tube, with a fine thread on the outside running in a corresponding thread on the inside of the eye-piece tube. This being approximately adjusted beforehand, was moved to its exact place by turning it with a sharp point through a little slot cut in the eye-plece tube.

It was found by experiments made previous to starting, that, with a clear sun, it was necessary to reduce the aperture of this telescope (which was 4 inches, with 50 inches focus) to 1½ inches, and to use all three springs and the diaphragm-slide of 1-40 inches focus in order to ret.

inches, with 50 inches focus) to 1½ inches, and to use all three springs and the diaphragm-slide of 1-40 inch aperture, in order to get a proper exposure when the solar image was enlarged from 6 inches (its diameter at the principal focus of the objective) to 2½ inches on the ground glass. The same size of aperture was adopted for the larger instruments during the partial phases, the entire aperture, in all cases, of course, being used during totality.

A number of experiments were made by Mr. Willard, at this time, in photographing the moon, which were of great value in settling the time of exposure which would probably be required in the total phase. He found that a good impression could be obtained of the full moon in about one minute, and that an abundantly strong one could be secured with an exposure of three minutes. From this and the deductions of De is Rue, that the light of the prominences was 180 times as great as that of the full moon, it appeared that an exposure of from one-third of a second to one second, during totality, would have been sufficient to secure images of these bodies For the corona, of course a much longer exposure would be required; but no estimate could be made as to what would be its duration.

Af the Burlington station, a photographic record

as to what would be its duration.

At the Burlington station, a photographic record of the first contact was secured, by exposing plates, in rapid succession, about the calculated time. A very good result was thus obtained. At Mount Pleasant, we placed a plate ready in the camera, and then waited a signal from Professor Wats n, of the University of Michigan, who, with his party, was on the ground with us, and was watching for the first contact. We thus obtained a picture showing a very slight indentation. By measurement of this, the time of actual first contact can be reached by calculation yet more precisely than would be possible with any eve observation.

eye observation.

During the partial phases, accurately timed exposures were made by all parties. The slide making the exposure had an aperture of only 1-40th of an inch, while the time of exposure is mechanically shown to have been but 1-500 of a second. The delicate mechanism used for this end, already partially described worked several recording pens of the Morse scribed, worked several recording pens of the Morse instrument. An electric discharge was passed from the brass plate of the slide through the trigger at the

instrument. An electric discharge was passed from
the brass plate of the slide through the trigger at the
instant of its fall for an exposure, and was then recorded as a dot on a moving slip of paper. A similar
connection with a chronometer indicated in dots on
the same slip each second of time; thus it was only
a matter of careful measurement to ascertain the
time and length of each negative.

The partial-phase pictures show the various sunspots visible at the time (about six in number) with
admirable definition, the larger ones being surrounded by a marked fringe of faculæ, and give,
also, a distinct granulation over the general surface
of the sun. Two of these large sun-spots are about
sooo miles in diameter, big enough to allow our globe
to pass through. They all show an increase of light
on the solar surface, where it is in contact with the
edge of the moon. This, which would seem to indicate, according to Professor Challis, the presence of
a very rare lunar atmosphere, is unmistakably manifest on all the negatives, and confirms the observation made by Professor Stephen Alexander, in 1881
and 1860, when he noticed it on the photographs that
were then taken.

Derivative the conditive thirteen pictures, in all, were

tion made by Professor Stephen Alexander, in 1831 and 1860, when he noticed it on the photographs that were then taken.

During the totality thirteen pictures, in all, were taken with the three instruments. Of these six were made at Burlington, with exposures of five to seven seconds; four were made at Ottumwa, with times of exposure ranging from six seconds to sixteen. These are all admirable negatives, which show abundant detail, and, in some cases, much of the corona. Three pictures in totality were also made at Mount Pleasant, but, for want of a clock-movement, are inferior to the others. One of the Ottumwa pictures, exposed at the very last instant of totality, shows a photographic record of the curious phenomenon known as Bailly's beads, being simply the last glimpse of the san's edge cut by the peaks of lunar mountains into irregular spots.

One of the objects which it was considered desirable to secure, if possible, was a view of the exposures were made as long as sixteen seconds. Examination of the negatives shows us that five seconds were more than sufficient to secure all the details of the protuberances, although it gave no decided indication of the corona.

It is a curious coincidence that, in this case, as well as in the pictures made by De la Rue in 1863, and the German and English party last year, all the more interesting prominences are situated on the border of the sun furthest from the advancing moon, and are thus best shown in the pictures first ex-

posed.

The most conspicuous prominence is that which, at a hasty giance, resembles the letter X, but on more careful inspection is perceived to be like an ear of corn. The appearance of the main body, which is of a spindle shape, and with spiral markings, is highly suggestive of a vertical motion which has swept these whiffs of light matter into their neculiar positions.

peculiar positions.

Immediately to the right of this ear of corn is seen a region of soft light, among which rise two similar spindle-shaped masses inclining towards the corn ear. To the left appears a mass of rolling cloud disposed in beautiful streams and curis, like the smoke from a bonfire or burning meadow, swept gently towards one side by a light wind. In connection with these are some small masses, entirely detached and floating above the general body, as was the case in the leave victures. in De la Ruc's pictures.

of the solid nodular masses appear at other points; but the next most notable prominence is one which attracted the attention of all observers, and appeared attracted the attention of all observers, and appeared to occupy a position on the lowermost edge of the sun. It is most clearly shown in the last pictures taken at each station, and resembles in shape a great whale, with a body made up of dense cumulous cloud matter, with a long tall clinging close to the solar edge, and stretching some 40,000 miles along. The length of the entire mass is about 110,000 miles, and the height of its more bulky portion about 28,000 miles, while its length being about 70,000 miles, we would have for its cubic capacity, assuming that its

extent in the remaining direction is equal to its height, about 54,880,000,000 cubic miles.

To the right of this, and only showing its entire length in the last picture of each series, is a caterpillar-like mass of cloud matter, very much like the solid rolls of horizontal vapor which are sometimes. seen passing over a sheet of water. At one end rises a projecting head, but the rest clings closely to the solar edge, and is indented with ring-like divisions, giving it much the aspect of a huge worm.

The Ottumwa pictures, of long exposure, are the only ones which give us any idea of the true structure of the corona. One of them, the last and long-est exposed, gives almost as full a development to this object as was noticed with the naked eye; the curved structure of the rays, and the varying intensity with which they are emitted in different points,

are most marked.

The brightest outbursts of the corona light are evidently associated with those prominences which are of a pointed and flame-like shape; those of a massive description, on the contrary, seeming to cast a shadow on the corona; this, we think, is to be no-

a snarlow on the corona; this, we think, is to be noticed in De ia Rue's pictures.

It would seem almost certain that the corona is simply an electric discharge, no doubt varying with great rapidity, as we see in the case of the aurora, and to its variations we may attribute those apparent motions of the prominences which have been observed by so many but which our large sories of observed by so many, but which our large series of any actual existence.

MUSICAL AND DRAMATIC.

The City Amusements.

AT THE ACADEMY OF MUSIC Norma will be per-formed this evening by the Richings troupe. To-morrow evening Mrs. Bernard will have a benefit, when Traviata will be presented. We hope that a full house on this occasion will testify to the appreciation of the public for Mrs. Bernard's services in establishing English opera as a permanent and popu-lar institution.

On Friday a farewell matinee will be given, for which the Bohemian Girl is announced.

At the Walnut Mr. Edmund Falconer's drama of Snare; or What Can't Money Do: will be performed for the last time this evening. To-morrow Mrs. Bowers will have a farewell

benefit.

Mr. Edwin Booth will commence an engagement on Monday, opening in Hamlet,

East Lymite is announced as in rehearsal, from which it is to be presumed that Lucille Western is shortly to greet her admirers in this city.

CITY ITEMS.

Fall Clothing — Men's, Youths', and Boys'Ready, made and made to order. New Styles of Goods
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JEWELLY.-Mr. William W.Cassidy, No. 12 South Second street, has the largest and most attractive assortment of fine Jewelry and Silverware in the city. Purchasers can rely upon obtaining a real, pure article, furnished at a price which cannot be equalled. He also has a large stock of American Western Watches in all varieties and at all prices. A visit to his store is sure to result in pleasure and profit.

GAY'S CHINA PALACE, No. 1022 Chesnut street, have jusreceived by ship Magdelain, 47 casks White French China the celebrated Palm shape. Will be sold at their usually low prices.

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SIXTH AND MARKET STREETS, Phila. Since the day we first opened Oak Hall our business has been constantly increasing; some seasons almost doubling itself. Last year our sales increased Sixty per cent. We are expecting still greater things this fall, and have made preparations accord-

> THE FIRST INSTALMENTS ARE ALREADY RECEIVED, AND WE HAVE NOW NEW FALL GOODS, FINE AND FRESH READY - MADE; OR, READY TO BE MADE TO ORDER IN THE LATEST FASHIONS,

WANAMAKER & BROWN'S. The Remnant of our Summer Stock and the slightly-damaged clothing from the Chesnut-street fire are being rapidly disposed of. Some of these goods, although belonging to our Summer Stock, are not unsuitable for Fall wear, and they can be had as

AT

WE ADVISE all persons having Diseased Hair to try Pro-fessor Obristy's celebrated Hair Lotic. It is put up in a bottle and a box. Ladies who once commence to use Lotic diseard every other preparation, as it is the most perfect Hair Dressing in the world. For sale by all druggists.

De Young & Son, agents, No. 703 Cheanut street.
P. S.—We have established rooms at No. 711 Cheanut street, where I will make free applications of Lotio. Come one, come all, and see what Lotio really will do for Bald Heads and Grey Hair. Bottle and box sent to any address in the city for \$1; in the United States, via express, for

GAY'S CHINA PALACE, No. 1022 Chesnut street, have just received by ship Northern Queen, another large invoice of

They have now the finest assortment of that class of goods ever seen in Phlladelphia. If you don't credit our statement, go and see for yourselves. Show-room open till

MARRIED.

ATKINSON—SMITH.—On September 14, 15©, by the Rev. S. W. Dana, ISAAU S. ATKINSON to MAGGIE A. SMITH, all of this city. DIXON—HANCOUK.—On the 15th instant, by Friends' ceremony, at the residence of the bride's parents CHARLES A. DIXON to MARY ANNA HANOOCK, all of this city.

DIED. DUFFY.—On the 15th instant, Mrs. ANN, wife of Patrick Duffy, in her 55th year.

The relatives and friends of the family are respectfully invited to attend the funeral from the peridence of her husband, No. 1229 Fulton street, on Saturday morning at

855 o'clock.

HAGAN.—On the 15th instant, EDWARD HAGAN, in the 26th year of his age.

The relatives and friends of the family are respectfully invited to attend the funeral, from the residence of his brother, Mr. William Hagan, No. 413 Barnwell street, on Saturday, the 18th instant, at 1 o'clock. To proceed to Odd Fellows' Cemetery.

Odd Fellows' Cemetery.

LEWIS.—On the 14th instant, at Springfield, Delaware county, WILLIAM T. LEWIS.

The relatives and friends of the family, and the congregation of the Fourth Presbyterian Church, Twelfth and Lombard streets, are respectfully invited to meet the body at vault of Woodlands Cemetery, on Saturday afternoon at 4 o'clock, without further notice.

MANDERSON.—Suddenly, on the 15th instant. MAGGIE, eldest child of William A. and Maggie W. Mandeson, aged 3 years and 11 days.

The relatives and friends of the family are respectfully invited to attend her funeral, from the residence of her parents, No. 1204 Spring Garden street, on Saturday afternoon next at 2 o'clock.

MCCXXVIII.—I WOULD REdertakers that, in order to meet the increased demand for my patent BURIAL CASKETS, I have taken the large Factory at Factory at No. 1228 RIDGE AVENUE.

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EXCURSIONS ON THE SCHUYL-KILL.—A steamer leaves Fairmount for Falls of Schuylkill EVERY FORTY-FIVE MINUTES during the day. Steamers run every day in the week. The Green and Coates Streets Passenger Railway Company exchange tickets with the boats. 8 28 tf

DAILY EXCURSIONS TO BE-verly, Burlington, and Bristol, by the steam-boat JOHN A. WARNER. Leaves Philadel-phia, Chesnut street wharf, at 2 and 6 o clock P. M. Re-turning, leaves Bristol at 650 o clock A. M. and 4 o clock P. M. Stopping each way at Riverten, Torresdale, Auda-lusia, Beverly, and Burlington. Fare 25 cents. Excur-sion, 40 cents.

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THE COPARTNERSHIP HERETOFORE



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Having purchased the factories (No. 821 Cherry street and Fifth street near Columbia avenue) and all the machinery of the late firm, we are prepared to continue the manufacture and sale of Gas Fixtures, Lamps, etc., at No. 821 CHERRY Street, Philadelphia.

ROBERT GORNELIUS, ROBERT O. CORNELIUS, JOHN C. OORNELIUS, CHARLES E. CORNELIUS, Philadelphia, September 2, 1889.

Philadelphia, September 2, 1889.

CRAWFORD ARNOLD and ROBERT C. BAKER, late of CORNELIUS & BAKER, have this day formed a copartnership under the name of ARNOLD & BAKER. Having surchased the entire stock of goods of the late firm of Cornelius & Baker, at 710 CHESNUT Street, they are prepared to continue at that place the sale of Gas Fixtures, Lampa Brouzes, etc. 921m

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