cause the image to appear, as soon as the plate has been exposed to the mercurial vapors. To obtain that result, it is, however, necessary that the plate should have remained exposed during a sufficient time to the light.

"The curious experiments made by Mr. Edmond Becquerel, have shown that an extremely short time was sufficient to give to the iodized pellicle, a rather strong impression, which was not rendered immediately visible, it is true, by the vapor of mercury; but that, if the plate were afterwards placed, during a certain time, in the sun, under a red glass, the thin film of iodine would continue to be impressioned, and the image would, after this new action, become visible by means of the mercurial vapor. Thence the distinction established by Mr. Becquerel, of exciting rays, and continuating rays.

"Mr. Moser has set forth the principal results obtained by Mr. Becquerel, and has observed new facts.

"He has found that it is necessary that the iodized plate should remain exposed, during a particular time, under the influence of the first rays in the camera, in order that the image might be afterwards developed under the red glass; but that, if the action under the latter were prolonged for a considerable time, a negative image would appear as the result—(without the use of mercury.)

"Mr. Gaudin had already found, that the yellow glasses are, in this case, much more active than the red ones, and Mr. Moser has observed the following curious fact:— An iodized plate, which had remained in the camera, nearly the proper time for giving the ordinary positive image, by the action of the mercurial vapor, was placed under a yellow glass; it then showed no image; but, as soon as it was exposed to the sun's rays, under the yellow glass, a negative image was very rapidly formed; it then disappeared at the end of a few seconds, and, after the lapse of ten or fifteen

minutes, a positive image appeared in plan of the negative one.

"Mr. Moser has never been able to tain a positive image when using the glasses, whatever might be the time of a position; but he has found that this transformation was very well performed until the green glass.

"Mr. Moser has been led to distinguish in the following manner, the action of various rays of the spectrum on the unit pressioned iodized coating, the violet blue rays are the only active ones; they duce a commencement of alteration, who is not visible though it does exist; which becomes apparent by the action the mercurial vapor, when this alteral has arrived at a certain point. But wen distinguish two periods in this progress alteration of the iodized coating; at the of the first period, it is modified to such degree that the red and orange colored then act as well as the blue and violet on a but the yellow rays do not as yet act; if you withdraw the plate too soon in the camera, the yellow rays will be for to have been quite inactive. At the end the second period, the green and yell rays act in their turn; the plate is the very near the point at which the image become visible under the influence of mercurial vapors.

"An iodized plate was placed in camera and left during the space of a hour, directed towards some objects mined by the sun's rays, so as to obtain very distinct negative image; this imwas then placed in the sunshine; at lend of a few minutes, the negative imhad disappeared, and instead of it was a positive image, quite as distinct, in white white parts had a greenish tint, and shades a dark brown red color. Mr. Mo ascribes this last effect to the yellow green rays.

"These experiments of Mr. Moser shall that two images are formed successively and in a direct manner, upon the place