growth of the plant commences by the about him and conversion of cartainic acid into woods fibre through the instrumentality of water and the fellow ran of light-ior it appears to be creatished, some of the blue rays, these enable the plant to decombose catgointe acin and enquirement seri-unitishment from the aunosphere. Among other illustrations of the powers and properties of light, the lecturer explained the Daguetrerrype process -which goes on thus, a plate of copper neing fire. Alonal coare a up succi is extract my pe salout of iodine which form with the silver a compound called todide of silver, extremely susceptible of the influence of right. When a piece this placed in a Camera Obscura a picture of an object is made to fall upon it—the lights and shadows of the picture impress the fadility of silver the greater of least depth of the chadren. The of fection the foldide is the crystallization of its particles, more or less complete. The plate is then submitted to the action of vapour of mercury whereby the crystallized portion of the folide is decomposed - but the uncrystallized Portion re litality unaffected, the plate is in fact corroded by the vapout of mercury, and only those parts impressed by the right which rains upon it when in the Cainera Obscura. The rolling interacted by the mercuty penetrates deeper into the plate, com-bining there with fresh portions of silver. The concluding operation consists in washing off the unaffected ludide of silver by means of a solution of common salt or other sultable compound. The locture elicited frequent marks of approbation from the audience, and considering that it was given on the sput of the mosters, two much praise cannot be given to Mr. Hind for the courtedus and obliging manner with which he acceded to the request of the Committee.

Agriculture.

INSECTS INJURIOUS TO THE CROPS.

The frequent occurrence of targe quantities of shrivelled grains of wheat, appearing in specimens throughout various parts of Europe and America, besides numerous complaints from Agriculturists, testifying to the great devastation of their growing crops, which presented to them a phenomenon wrapt in mystery, led the Entomologist to study the cause,-and of late his rescarches have not been in vain. He demonstrates clearly the cause and consequence—the farmer's unsuspected enemies are by him discovered. The cause of the before-mentioned defection is ascertained to be the work of a true parasitic fly, of an extremely beautiful formation, termed by its scientific name Cecidomyra tritici, or Wheat Midge, myriads of which will be seen in the month of June, from seven till nine in the evening, swarming about the blossoming cars of wheat, for the sole purpose of depositing their eggs in them, which, when hatched, produce little yellow maggots or large, consequently injuring the young overy, and preventing the grain from attaining its due growth and natural dimensions. The larea can

and two feelers. The antenne are as long as the low is a of light-off it appears to the color that the first color that the wheat compa as in other counts while solat light tell class that first and the red, and transmits only the yellow and the pubercest and beautifully indiscent when tries but it is clear that in some seasons they pubercest and beautifully indiscent when tries but it is clear that in some seasons they bods. these middish other in colour, and the Province the insect under notice has not been so to a point, and furnished with an emporator, or imag be attributed to the severity of the cold they instrument for depositing its eggs nearly three are liable to endounter. Being very infinute a times as long to the insert itself. The male Cori. comme commes the above description, with the morphosis. Spatianzant, however, exposed the exception of the antenne which are different to "egge of the silk-worm to an artificial cool 23 form, and also, upprovided with an aviguation of 1 grees below zero, and yet in the antisequent sculers. It appears rather arrange, that Mr. Cur- spring they all produced caterpillars. He also itis, and the venerable naturalist Mr. Rirby, discovered that "insects invariably die at the in making their numerous observations upon this temperature of 14 degrees, that is at 18 degrees Insect, could no discorpt the main fig., but II, below the freezing point. This shows the effect those genteemen would have visited the same of cold upon the eggs of an insect, which in the erne of study the following day they would like I image state is about seven or eight hundred times It have seen it performing the duty which nature had assigned to it. We have seen, on two occasions, the male and female flies together on the wheat plant, and saw to indication by the common appearance of the female that it possessed so curious an instrument as the ovipositor, until upon preseling the annual towas easily discovered. It has the power of unsheathing it at pleasure. The larza of this fly are accompanied by a fungus of an orange colour - "one farmer imagined that these large were of great use in feeds g on this fungus." This shows a natural mistake for an unscientific person, however it tends to prove to experienced investigators the necessity of caution in connecting things with each other, simply because they are coincident. The accurate entomologist, Mr. Kirby, often discovered the female fly caught a prisoner by being unable to withdraw its ovipositor,"-and after many attempts, he at last witnessed his long wished for scene, the ope ration of depositing the eggs, which he describes as follows .- " he gathered an ear upon which the flies were actively engaged, and was enabled by the aid of a pocket microscope to view this remarkable process. - He says, he could "very distinctly perceive the eggs passing one after another like minute air-bubbles, through the regina, the aculeus being wholly inserted into the floret." This process, he examined for fully ten minutes, before the "patient little animal disengaged itself and flew away." Many attempts have been made by entomologists to breed these insects but without success. Some suppose that the larva, after they have remained in the car for a certain period, enter the earth to become pupa; -but we could find no trace of its chrysalides upon examination of the earth which was taken from the locality where the insect was found in the ear; still, without doubt they could be hatched favorably in the earth, and among the dust and chaff. thrown out from the thrashing machine, which we would recommend to be burned to prevent their increase. That they are hatched between the scales, when the grain is formed. The following may be taken as a pretty accurate description of the female insect. It is of a pale otherwise house and hairy; its eyes are extremely black and accurate their work of destruction in the female insect. It is of a pale otherwise and hairy; its eyes are extremely black and secarsely granulated meeting on the record nearly mease. Mr. Kirby calculated the loop, by this loop, since they scale know where they gone to the first former than they are mattered between the case of the files are gone, but where are they gone to that is the files are gone, but where are they gone to that is the files are gone, but where are they gone to that is the files are gone, but where are they gone to that is the files are gone, but where are they gone to the files are gone, but where are they gone to the files are gone. At the close, of summer, when they are they form they are they file the files are gone, but where are they gone to the files are gone. At the close, of summer, when they are thus, but it is the question. At the close, of summer, when they are they gone to the close of summer, when they are they form they are they gone to the files are gone. At the close, of summer, when they are they gone to the close of summer, when they are they gone to the files are gone. At the close, of summer, when they are they gone to the close of summer, when they are they gone to the close of summer.

curering the whole head. It has no occur-no fly, in one field of wheat which he examined, as visible indication of a month, except a short lip at least twenty bushels in fifteen acres." Ocsurrence to this extent am very rare, and in this on in report. The abiliomen is short, lapering are more numerous than in others, their decrease brear many bettep during the third state of meislarger than the Cecidomyia, referred to above as only being effected by cold in the pupay states True we have Ichneumon flies, very useful in sects in many instances, these with hereafter be noticed; but the increase of the Midge cannot be checked by the natural labors of the Ichneumon.

Billi we have another By designated by its serenufic name Genammin deserveior-commonly called the American Wheat fly, or Hessian fly It derives this latter name from the idea pravailing on its first appearance that it was carried by the Hussian troops from Germany In 1776, It committed great devastations on this confinent. Its attacks commence in autumn, as soon as the young plant appears above the carth; they lay their eggs in the interior of the stem, which is so weakened-that it cannot support the ear when the grain begins in swell, consequently the plant falls and perishes. Mr. Kirby in his impersupon this insect, says, "All the crops as far as it extended its flight, fell before this ravager. It first showed itself in Long Island, from whence it proceeded inland, at the rate of fifteen of twenty miles annually, and by the year 1789, had reached two hundred miles from its original station. But other authors testify that the progress at first was slow, about the rate of seven miles per annum, therefore, their ravages would be more considerable—their flight has not been more than five or six foculat a time, (that is the extent of the horde in migrating.) Neither mountains nor the broadest rivers are a barrier to their career. At one time they were seen to cross the Delaware like a cloud.

The only remedy would be to burn the refuse. of dust thrown out from the threshing machine or from the barn floor. It would greatly check those minute pests of natural creation,

Natural History.

WHAT BECOMES OF THE PLIES?