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HOME STUDY COURSE

Self Education Through the Medium of Specially Prepared Articles by Prominent Instructors

Little Creatures About Our Homes

By LE ROY WELD

III.—Butterflies and Moths.

NO one who has ever watched the development of a great, disgusting green worm into one of the most beautiful of God's creatures can fail to be ever after interested in such subjects as the one at the head of this article unless his taste has been so blunted that he can see no more beauty or coloring in the rainbow than in a penny valentine.

The beauty of these little, scaly winged creatures does not end with what we see with the unaided eye, but the microscope shows us that what appears like dust on the wings of butterflies and moths is really composed of minute scales of so delicate symmetry as to make one wonder anew at the perfection of nature's handiwork. And this is not all, for these little, feathery scales seen through the microscope are sufficient to identify the species of the insect from which they were taken. These scales are what give color to the wings. They are fastened to them by short stems and adhere to the fingers when we seize one of the insects by the wings. The author was once examining some water from a stagnant pool when suddenly there came into sight one of these scales which he immediately recognized as coming from the wing of a hawk moth. He enquired to a lad who had been a zealous assistant and who had only a few days before clasped his hands in excitement on viewing for the first time the scales of this insect and of two other species which he had captured and brought in to show his prowess. The lad, not knowing what he should see, looked through the instrument for a moment, then glanced up at the author and exclaimed: "Oh! Did that pretty hawk moth bathe in that filthy water?"

As these scaly winged insects all pass through about the same changes in their development from the egg to the perfect insect, a description of the metamorphosis of one species will be sufficient for the purpose of this short article. We will take for our illustration the humming bird moth from its resemblance to that fairylike little creature when it is probing a flower for honey. It is also sometimes called the five spotted sphinx.

Few days after the cold spring weather has passed the mother moth searches out a potato or a tomato plant, for the leaves of one of these plants furnished her with food when she was only a baby worm, and she instinctively places her eggs on one of them that her children may find plenty of nourishing food ready for them when a few days later they shall emerge from the tiny eggs. Should the weather be warm and pleasant the leaf will be swarming with a hundred or more little wriggling worms, each weighing about 20,000 times as much as when it left the egg. It does not stop eating, however, every few days when it has grown so large that its skin will not hold more. At such times it rests for awhile. Its skin turns to a grayish color, and it seems to be getting prematurely old. Then it bows its back, swells out each ring in the middle part of its body and bursts the skin open along the back. Now, with a little struggle, it draws out its head and a moment later its tail from the old skin and emerges in a bright new suit. The author once saw a caterpillar go through the whole of this molting process in a little less than two minutes. Caterpillars shed their skins in this way four or five times before they have attained their full size. They are now, they are four inches long, and as they are full of rich juices they are often chosen by the ichneumon flies as a fit place in which to deposit their eggs so that when they hatch the young grubs will be surrounded by an abundance of food.

When the caterpillar of the hawk

REPUBLICAN PLATFORM.

The following are the resolutions adopted by the Eugene Convention and constitute the platform on which Hon. Binger Herman will stand during this campaign:

"Resolved, That we hereby record our high appreciation of the private worth and the public services of the late Hon. Thos. H. Tongue, Congressman from this district, and we deplore his death as a loss to his state and the Nation.

"Resolved, That we recognize Theodore Roosevelt, President of the United States, as a stalwart type of American citizenship, worthy of these, the best days of the Republic, and we heartily endorse his position upon the great public questions of the day and his administration, and be it resolved further, that he be extended the hospitalities of this state upon the occasion of his proposed visit.

"Resolved, That we do hereby endorse and reaffirm the platform of the last Oregon State Republican Convention.

"Resolved, That the Republican party of this Congressional district favors and will earnestly labor for the improvement of our rivers and harbors by the National Government."

An Aggravating Cough Cured.
A customer of ours who had been suffering from a severe cough for six months, bought two bottles of Chamberlain's Cough Remedy from us and was entirely cured by one and a half bottles of it. It gives perfect satisfaction with our trade.—Hayne-Parker & Co., Lineville, Ala. For sale by Delta Drug Store.

Robbed the Grave.
A startling incident, is narrated by John Oliver of Philadelphia, as follows: "I was in an awful condition. My skin was almost yellow, eyes sunken, tongue coated, pain continually in back and sides, no appetite, growing weaker day by day. Three physicians had given me up. Then I was advised to use Electric Bitters; to my great joy, the first bottle made a decided improvement. I continued their use for three weeks, and am now a well man. I know they robbed the grave of another victim." No one should fail to try them. Only 50c, guaranteed at Bailey's Pharmacy.

WILL NOT BE DELUDED.
Governor Chamberlain is represented as thinking the democratic candidate for congress from this district has a good show for election because large numbers of republicans want tariff revision.

We much doubt the numerical magnitude of republicans who are instant upon a general revision of tariff. The clamor is in mainly raised by academic editors, college professors, tariff for revenue and free trade democrats. Clamor, noise, persistent wailing rather than numerical strength are the indices which express the value of this demand for tariff revision.

Surely the Governor knows that of all the multitude of things upon which his party has invited public distrust none is better understood and more odious than its professions of tariff reform. When by its loud advocacy of this his party slipped in to power it enacted a tariff so unfair, so inequitable that a democratic president refused to sign it. The tariff will be given all needed revision in due season, but not by free-traders.

Apart from all this the people of this district see that the republican party has enacted greatly advanced measures for the regulation and control of trusts and mergers. They see their president and the attorney-general enforcing these measures without fear or favor. Open, fair, free competition must reign over the transportation business of the whole country. This is of much greater interest and benefit to the producers—to the farmer, the lumberman, the stock raiser, than any possible tariff reform.

The people of this district will not "rebuke the administration" by adding strength to the negative, obstructive party in congress, but rather strengthen the president's hands by electing a representative known to be in harmony with his purposes.

Republicans will not be deluded by democratic sophistry.—Corvallis Gazette.

Warrent every bottle.
If troubled with rheumatism give Chamberlain's Pain Balm a trial. It will not cost you a cent if you do

PURE INDIAN CHARACTER.

Pure deLaney is giving to history many important things incidental to the career of certain Indians of the Pacific Northwest in the early days of the present generation. His articles in the Journal should be taken as proof-sheets, however, since none of us are perfect. When errors occur correct them, not necessarily as Luce does, by writing an new double-headed history. The marriage of Winemah and the story of Onesta, should be accompanied by the tragic fate of Hassalo, the lovely Nez Perce maiden who suicided by drowning in Clearwater river because of her love for a now wealthy but demoted gentleman in Portland, recently conspicuous through efforts of personal friends to protect his property. The love of Hassalo for John R. was more intense than that of Winemah for Riddle. Her father was one of the wealthiest of the tribe and made large offers of gold to go with his daughter, importuning him, until John R. had to send for his wife to prove to the honest, simple-minded Indian and his daughter that such an union was impossible. As our mind passes in review the period of 42 years of our busy life we halt at two stages for reflection upon the Indian character. Once when duty placed us with the Sioux of Minnesota, as a clerk in the Egbert commission of congress, dealing with timber thieves and liquor dealers on that reservation. Again as a seeker of filthy lucre in the gold mines—one of the Portland colony about Lewiston; and the sentiments and conclusions then formed haunt us still in a firm belief that generally the white race could have learned from the Indian better lessons of character than were conveyed to the Indian from the contact. History is filled with incidents corroborating this assertion. Lawyer, Douben Moses, and many more too numerous to mention, originally were honest, good people, and the so-called civilization that met them with falsehood and hypocrisy must answer for all subsequent results of treachery. The purity of Hassalo, Winemah, Ureula, and very many other Indian women noted in the stirring times of 40 years ago in Oregon, is no more to be compared with that of the Burdicks, the Pennells, the royal 400, et., than would that of the angels with all the imps of inferno.—Moro Observer.

How to Ward off an Attack of Rheumatism.
"For years when spring time came on and I went into gardening, I was sure to have an attack of rheumatism and every attack was more severe than the preceding one," says Josie McDonald, of Man, Logan county, West Va. "I tried everything with no relief whatever, until I procured a bottle of Chamberlain's Pain Balm, and the first application gave me ease, and before the first bottle was used I felt like a new person. Now I feel that I am cured, but I always keep a bottle of Chamberlain's Pain Balm in the house, and when I feel any symptoms of a return I soon drive it away with one or two applications of this ointment." For sale by Delta Drug Store.

Makes a Clean Sweep.
There's nothing like doing a thing thoroughly. Of all the salves you ever heard of, Bucklen's Arnica salve is the best. It sweeps away and cures burns, sores, bruises, cuts, boils, ulcers, skin eruptions and piles. It's only 25c, and guaranteed to give satisfaction by Bailey's Pharmacy.

Eastern capitalists have had representatives at Oakland, Douglas County for the past few days examining some of the many cement quarries. There are several localities in that section where the stone from which cement is made is found, and it has been experimented with and tested numerous times and pronounced to be of the best quality. The principal drawback to the establishment of a factory and putting the cement on the market is the distance from the railroad.

A Thoughtful Man.
A disordered stomach may cause no end of trouble. When the stomach fails to perform its functions the bowels become deranged, the liver and kidneys congested, causing numerous diseases, the most fatal of which are painless and therefore the more to be dreaded. The important thing is to restore the stomach and liver to a healthy condition, and for this purpose no better preparation can be used than Chamberlain's Stomach and Liver Tablets. For sale by Delta Drug Store.

NEWS OF THE STATE.

I. J. Anderson sold a carload of horses in Seattle some time ago, and met with such good success that he bought another carload and shipped them Tuesday.—McMinnville Reporter.

Miss Marie Ware, U. S. land commissioner besides being requested to resign, has been indicted for perjury and some say embezzlement. The young woman has absconded, and her present whereabouts are unknown.

Petitions are being circulated at Salem and are being readily signed, asking for the referendum on the act of the last legislature which repealed the law allowing a \$300 exemption from taxation on household goods. No other referendum petitions are in circulation there.

Austin Craig, a late resident of Forest Grove but more recently in the public eye as a Baker county, ill-used man, has been arrested in Portland on a charge of rifling the U. S. mails of a registered package containing \$72. Austin has been shy on money for a long time and in this instance probably needed it badly.

A party of German agriculturists will enter Oregon from California on June 1. The train will probably make a short stop here on the way to Portland. They will visit several points in the State. They are men of high rank who are studying American farms, ranches, orchards, packing houses and other features.—Corvallis Times.

Several boys broke into Wright's warehouse last Friday and did some damage, besides setting fire to some waste paper under the building which for a time endangered the same. The boys were brought before Recorder Maloney and given a reprimand, and then given their liberty during good behavior.—McMinnville Telephone Register. How old were the boys?

By a vote of 135 to 82 the taxpayers of the Pendleton school district, on Monday defeated the proposition for issuing \$25,000 bonds to erect a new eight-room school house. The question at issue was not so much the money but the location of the new building which the school board had selected. The location did not suit the taxpayers and the board would not agree to select a more acceptable one so the bond issue was defeated.

The city of Portland advertised for bids to furnish the police officers with 60 suits of uniforms. A non-union taylor was lowest bidder. Now the police force will not wear the clothes because they are to be made at a seap shop. It is not claimed that the garments are not properly made, good cloth and perfect fit, only just not made by organized labor.

Paddy Lynch a sailor boarding-house keeper who is in jail at Astoria for some of the shady acts of his kidney, set fire to a lot of papers and trash in an unsecured cell of the jail. A great smoke was raised but the fire was trivial. It is thought that Lynch supposed the smoke would rattle the jailer so that he would throw open the jail, when bird Paddy could take leg bail. The scheme did not work.

The price for shoeing horses at Oregon City has been fixed by a combine of the blacksmiths at these figures: Four running plates, \$3; four running plates, set, \$2; for track horse, \$3; four hand made shoes, \$2.50; four hand made shoes, set or re-set, \$1.50; four new shoes, city fire horses, \$2.50; new shoes under No. 5, \$2; four old shoes, set, \$1.50; old shoes set and toed, \$2; bar shoes, toe and oak, \$1; bar shoes, plain, each, .75; rubber pads No. 5 and over, \$2; one shoe set, .40.

After May 21, the legal execution of all condemned criminals in this state will take place at the state penitentiary at Salem under the direction of the superintendent. This law was enacted by the last legislature. In order to provide for the hanging of murders at the prison, Superintendent James contemplates building an addition to the south wing, in which the executions will take place with the greatest possible secrecy and beyond the sight and knowledge of the 500 men incarcerated at that institution. It is proposed to provide for the hangings an enclosed room, containing all the necessary scaffolding, and having accommodation only for that number of persons the law requires shall view the executions as legal witnesses.

Continued on Second Page.