

mals to each other. The species was the thought-unit, the individual reproduction of the thought in the divine mind at the moment of the creation of the first one of the series which represents the species. The marvel of the affinity of structure—of unit of plan in creatures widely diverse in habits and outward appearance—was to him a result of the association of ideas in the divine mind, an illustration of divine many-sidedness. To Darwin, the relation of forms one to another illustrates the results of individual variation repeated through the force of heredity and acted upon by the influences of selection and segregation and other results of varied and inevitable environment.

Agassiz never doubted the sufficiency of his own philosophy. His mind was not constructed for philosophic doubt. In this confidence in his own methods, his own mental and physical resources, lay his strength and his weakness as a philosopher.

In the same year, December, 1873, after the end of the first and worst of all summer schools of nature, Agassiz died. In the words of one of his students, Col. Theodore Lyman:

"We buried him from the chapel that stands among the college elms. The students laid a wreath of laurel on his bier, and their manly voices sang a requiem. For he had been a student all his life long, and when he died, he was younger than any of them."

The next summer we came together again, the students of the first year, with many new ones eager for the experience which had been so inspiring to us. The island was there, the sea, the sky, the living creatures, but Agassiz was not, and there was all the difference in the world. We met one evening in the lecture hall, and each of us said the best he could of what Agassiz had been to him. The words that lasted longest were those of Samuel Garman, of Harvard, "Agassiz was the best friend that ever student had." We put on the walls these mottoes, written on cloth, and taken from Agassiz's letters:

Study nature, not books.*
Be not afraid to say: "I do not know."
Strive to interpret what really exists.
A laboratory is a sanctuary which nothing profane should enter.

These mottoes remained for fifteen years on the walls of the empty building, whence they were carried as precious relics to the laboratory at Wood's Hole, which has been the lineal descendant of the school at Penikese.

At the end of the summer of 1874 the authorities of the museum closed the doors of the school at Penikese forever. They had no choice in the matter, for no college could be found which would spare the small sum needed for its maintenance. No rich men came forward, as others had done before, to the assistance of Agassiz in his lifetime, men who would not stand by "to see so brave a man struggle without aid." For nearly twenty years the buildings stood on the island just as we had left them in 1874. An old sea captain, the skipper of the "Nina Aiken," was in charge of them until the winter of 1891, when he was drowned in a storm. A year or two later the buildings were burned to the ground, perhaps by lightning.

But while the island of Penikese is deserted, the impulse which came from Agassiz's work is still felt in every field of American science. With all appreciation of the rich streams which in late years have come to us from many sources, and especially from the deep insight and resolute truthfulness of Germany, it is still true that the school of all schools which has had most influence in the development of enthusiasm in scientific teaching in America was held in an old barn on an uninhabited island some eighteen miles from the shore. It lasted but three months, and in effect it had but one teacher. The school at Penikese existed in the personal presence of Agassiz; when he died, it vanished.

*The whole sentence was: "If you study nature in books, when you go out of doors you cannot find her."

"Yes," said Mr. Tambo, "I passed around the hat to-day." "And why?" inquired Mr. Bones, "did you pass around the hat?" "I had to. It was a merry widow."

QUESTIONS AND ANSWERS. Veterinary.

PARALYSIS OF LIPS.

Mare got her head stuck between two trees. Her head and neck swelled, but this has subsided. She seems to have no power of her lips and cannot eat or drink well.

Ans.—Her lips are paralyzed. Rub the muscles of the cheeks and lips well three times daily with camphorated liniment, and give her two drams nuxvomica three times daily.

TRADE TOPIC.

NO MORE HARVESTER EXCURSIONS.

Too late to intercept the advertisement running in this issue, we received notice from the Grand Trunk authorities that the harvester excursions to the West have all been cancelled, and that there will be no more this season via either Chicago or North Bay.

BOOK REVIEW.

U. S. YEARBOOK OF AGRICULTURE.

The Yearbook of the United States Department of Agriculture for 1907 has just been received at this office. It is quite a bulky volume of 798 pages, with 66 high-class illustrations, 16 of which are colored. The first part of the book contains, in addition to the Annual Report of the Secretary of Agriculture, twenty-seven different papers, covering a wide variety of subjects, all prepared by officers and special investigators employed by the Department. Many of these subjects, as, for instance, "Changes taking place in chickens in cold storage," and "Bacteria in milk," are of as much interest north as south of the line. The latter part of the volume provides a directory for U. S. farmers, concerning the work of the department and its officials, reports on natural conditions affecting agriculture throughout the year, and full agricultural statistics.

GOSSIP.

Messrs. John Thornton & Co., 7 Princes street, Hanover Square, London, England, advertise in this issue a sale by auction on October 21, 1908, of 100 pure-bred large white pigs from the celebrated herd belonging to the Rt. Hon. Earl of Ellesmere. During the years 1902 to 1908, 12 first prizes were won at the Royal Agricultural Society of England Shows, and a number of prize-winners will be included in this sale. Catalogues may be had on application to Messrs. John Thornton & Co., 7 Princes street, Hanover Square, London, England.

Mr. Henry Gatehouse, who has been 20 years in business in Montreal as a dealer in poultry, vegetables, fish, game, etc., and who has for many years handled a large quantity of poultry from Eastern Ontario, and the largest part of the fatted poultry from the Experimental Farm at Ottawa, places an advertisement in this paper in which he intimates that he is open to receive shipments of first-class poultry on consignment, for which highest market prices will be paid, according to quality, and prompt returns made. First-class references as to reliability are named in the advertisement, which farmers interested will do well to look up.

Mr. George G. Stewart, Howick, Que., writes from Williamston, Crief, Scotland: "I intend sailing on Aug. 29th from Glasgow, in the SS. Marina with a few Clydesdales and Shetland ponies. Anything older than one or two year olds in the way of filies are not easily picked up this year. In this shipment I have a very stylish three-year-old stallion, General Blucher. He has been a leading prizewinner at the Aberdeen Shows, is sired by Lord Melbourne (11410), is tall, and of a rich dark color. He ought to be a favorite in Canada. Also a two-year-old filly, sired by Royal Favorite (10630), a great breeding horse, is big and well-colored, and safe in foal to Baron's Voucher (12041), recently exported by Alex. Galbraith, Janesville, Wis.

Too late for insertion in this issue, Mr. A. M. Shaver, Ancaster, Ont., orders a change in his advertisement of Shorthorn bulls for sale. Having sold the two bulls previously mentioned, he now offers his stock bull, Trout Creek Sailor 59421 C. H. B., 247242 A. H. B., a roan 3-year-old son of Imp. Nonpareil Archer, dam a Village Blossom, by Imp. Royal Sailor, breeding that should stamp his get with the best of type and quality.

An important sale of Hackneys and Hackney ponies is announced in another column of this issue, to be held by Mr. Alex. Morton, Gowanbank, Darvel, Ayrshire, Scotland, one of the oldest and probably the largest Hackney and Pony stud in the United Kingdom, date Sept. 25, 1908. The animals to be sold are the result of a lifetime's experience in breeding, and are descended from the oldest and most famous strains in the Hackney Studbook. This should be a most desirable opportunity for lovers of this class of stock to get into possession of animals of choice quality. Catalogues may be had from the office of "The Farmer's Advocate," London, Ont.

A certain Liverpool teacher, in endeavoring to explain to his class what compressed air was, brought his bicycle into the room, and leaned it up against the wall.

"Now," he remarked, "under the outer covering of that back wheel there is a hidden force. What is it?"

"Injyrubber," said one smart youth.

"No. Try again."

The boy tried again, as did nearly every member of the class, but without success.

At length one of the youngsters, who had been making a close inspection of the machine, turned on the teacher with a beaming face.

"I have it," he exclaimed. "It's wind—jest wind!"

After commending the youngster, the teacher asked how he discovered the "hidden force."

"Why," was the astounding reply, "I just stuck my knife in to see!"

Which was the absolute fact, as the discomfited teacher discovered to his cost.—[Tit-Bits.

A conductor sent a new brakeman to put some tramps off a train; they were riding in a box-car. The brakeman dropped into the car, and said, "Where are you fellows going?" "To Atchison," "Well, you can't go to Atchison on this train, so get off." "You get," came the reply, and, as the new brakeman was looking into the business end of a gun, he took the advice given him, and "got." He went back to the caboose, and the conductor asked him if he had put the fellows off. "No," he answered. "I did not have the heart to put them off. They want to go to Atchison, and, besides, they are old schoolmates of mine." The conductor used some strong language, and then said he would put them off himself. He went over to the car and met with the same experience as the brakeman. When he got back to the caboose, the brakeman said, "Well, did you put them off?" "Naw, they're schoolmates of mine, too."—[Wellington (Kas.) News.

An acquaintance called on some ladies in an Alabama town who had at the time been much wearied by an apparently endless succession of callers. The door was opened by Augustus Butts, the faithful old butler. "Are the ladies in?" asked the caller. "No, ma'am, they're all out." "I am sorry that I missed them," continued the visitor, handing him her cards. "I particularly wished to see Mrs. Jones." "Yes, ma'am, thank yo', ma'am," replied Augustus. "They're all out, ma'am, and Mrs. Jones is particularly out, ma'am."

SHORTHORN BULL FOR SALE!

Count Victor = 58372 =

Red, calved Sept. 28th, 1904. Sire Golden Drop Victor (imp.) = 32065 = (76780). Dam Marengo's Victoria Countess (imp.) = 37954 =, a Cruickshank Victoria, by Marengo, by Field Marshal. Active, sure and right in every particular. Will be sold at reasonable price.

J. Clough, Binbrook, Ontario.

My Free Trial Treatment May Cure You.

Kingston, Ont., June 6th, 1904.

Dear Mrs. Currah,—I feel so very much better after using the 10 days' treatment of Orange Lily you were kind enough to send, that I will not require any more. In fact, I feel entirely well, and it is now a month since I stopped using the treatment. (Miss) F. T. W.

Similar letters to the above are not infrequent, though, of course, such cases are not of long standing. Most women who have suffered for any length of time will require to use Orange Lily longer than the Free Trial Treatment in order to effect a complete



cure, but in every case they will be perceptibly benefited. Further, the benefit will be permanent whether they continue to use Orange Lily or not. It is not taken internally, and does not contain any alcohol or other stimulant. It is an applied treatment, and acts directly on the suffering organs. In all cases of women's disorders, these organs are congested to a greater or less extent, and Orange Lily will relieve and remove this congestion just as positively and certainly as the action of ammonia or soap on soiled linen. It is a simple chemical problem, and the result is always the same, a step towards better health and complete cure.

In order that every suffering woman may prove its good qualities, without cost, I will send enough of Orange Lily for 10 days' treatment, absolutely free, to each lady who will send me her address.

MRS. F. V. CURRAH, Windsor, Ontario.

Worsley, Manchester, Eng.

JOHN THORNTON & CO.
will sell by auction on

Wednesday, Oct. 21st

At the Hall Farm, Worsley,
Manchester, 100 Pure-bred

LARGE WHITE PIGS

From the celebrated herd belonging to the Rt. Hon. the Earl of Ellesmere. During six years, from 1902 to 1908, twelve first prizes were won at the Royal Agricultural Society of England Shows. The sale will include several prizewinners. Catalogues may be had of

JOHN THORNTON & CO., 7 Princes St.
Hanover Square, London, Eng.

Who will execute commissions and attend to insurance and shipment.

CANADIAN PACIFIC

WESTERN EXCURSIONS

Sept. 17, 18, 19

RETURN FARES FROM LONDON:

DETROIT	\$3 40
SAGINAW	4 25
BAY CITY	4 35
GRAND RAPIDS	6 20
CLEVELAND via Detroit	5 90
CHICAGO	9 25

ST. PAUL AND MINNEAPOLIS
\$28.40 \$31.90

All Rail Route. via Lake Route.

Final return limit Oct. 5, 1908
Unequaled Train Service.

For tickets and full information see nearest
C. P. R. Agent, or write to:

C. B. Foster, D. P. A., C. P. R., Toronto.

Cornwall, England, furnishes this one:

"Father and mother and I
Lie buried here asunder;
Father and mother lie buried here,
And I lie buried yonder."