

With the World's Workers

REVIEW OF PROGRESS THAT IS BEING
MADE ALONG ALL LINES OF ENDEAVOR

HERDER WELL PAID ARE MOST THOROUGH

Handling 'Fancy Cattle' One of
Best Jobs in Out of City
Work.

FOREIGNERS TAKE THE LEAD

Most Accomplished Herdman in
Charge of American Cattle Hall
From Ireland, Scotland, Eng-
land and the Netherlands
—Care of Animals an
Art.

The work of a herdman in charge of the costly dairy herds in such aggregations of stock as that of the National Dairy show in Chicago has been put on such high plane that it has become one of the best paid jobs in out of the city work.

Only the men who own such herds know how important it is to have an accomplished herdman in charge of their stock. This care not only covers the farm, but the road and to and from the shows, and in the arena where judging is under way.

A large per cent of the herdsmen in charge of American herds are foreigners. They have largely from Ireland, Scotland, England, and the Netherlands. Some of these men in their native country were in the habit of making the best possible use of every ounce of feed assigned to the upkeep of the animals. Most of them had no much liberal appropriation of feed stuff as that provided for the American dairy and beef stock farmers, so that most of them engaged in the work in this country with some exceedingly economical ideas in taking care of a herd of high bred cattle.

Dairymen claim that the dairy animals are much higher strung, and nervous than the beef type, and much more care seems to be demanded in guarding them from undue excitement.

Then the herdman must keep track not only of the herd, but of the individual cow, especially when the latter is engaged in making a record. On such occasions the herdman is particularly about the feeding of a cow as a doctor is in directing the diet of a patient. Of course the owner of the herd directs his man what to feed, but there is a deal in faithfully carrying out the orders.

When an animal or a part of the herd is in the rig the herdman constantly is on the watch to see that an animal stands in the most graceful position. Almost constantly he is touching a hoof with his own toe in an effort to secure a better showing of an animal on all fours.

When a herd is on exhibition the head herdman leaves the animal scarcely long enough to get his meals. He steps on a cow close by, and if an animal shows some sign of indisposition the attention of the herdman is as close as that of the trained nurse to a human patient. The most scrupulous care is taken in the matter of blanketing and in guarding against the herd sleeping in the open.

The wages of a herdman range all the way from \$45 to \$75 a month and even more, according to the size and character of the herd. The board and lodging of a herdman is furnished in addition to his wages.

In late years a great deal of progress is made in rendering show animals tractable. They are handled with consummate skill in many places and

under conditions capable of producing a stampede. There have been instances in which a good herdman has accomplished the entire subjugation of an animal predisposed toward viciousness.

Steam Turbine Improvements.
The superiority of the reciprocating engine over the steam turbine, when a ship is steaming at low speed, is destined to disappear. At high speed the turbine possesses great advantages, but at low speed it is extravagant in its use of steam. Of the several systems of reduction gear by which the widely different economies of speeds of turbine and reciprocating engines can be harmonized, the electric drive seems to present the most promise. A better method would be the proper combination of reciprocating engines for low speed and turbines in high speed. The navy has under consideration a system of this kind which we hope shortly to present for the consideration of our readers—Scientific American.

Waste in Coal Consumption.
Great as are the losses attending the mining of coal, approximately 250,000,000 tons in a single year, the waste in the furnaces of the country is still greater, for less than 10 per cent of the coal's heat units are converted into mechanical work in the factories, or the larger fact, that of the 200,000,000 tons of coal probably used in the lower plants of the country (including locomotives), 270,000,000, or 30 per cent of the whole, are lost in the general transformations of energy; and not more than 10 per cent of the heat units, or the equivalent of only 30,000,000 tons of this coal, are transformed into the mechanical work of the nation.

Auto-Plow for Army Work.
Germany has introduced an auto-plow for digging trenches during war, and it promises to play an important part hereafter in army circles. The new machine can do the work three times as speedily as men, being driven by a motor, and powered by an engine, but one operator and travels at about six miles an hour when going at top speed.

Just a Hired Man

What Employee Becomes as
Natural Result of Too
Many Rules.

IS ROBBED OF INITIATIVE

Every Employing Concern Desires Co-operation of Entire Man, but No Man Can Give Employer Best Services When He is Treated as Hired Machine.

A large card is displayed by a corporation with many branch stores. It says to each employee: "Every man should work and feel that he is part of the firm and not a hired man."

The idea here is plain. Every employing concern earnestly desires the co-operation of the entire man for the hours he is in actual employment. He is hired to give of his personality

GERMAN PEOPLE, LEAVE AB-
SOLUTELY NOTHING TO CHANCE.

Their Capacity for Work is Appalling
and Their Attention to De-
tail Unfailing.

The most thorough nation on earth. That was the description applied to Germany by Theodore Roosevelt after a prolonged sojourn in the fatherland and a person is convinced of its truth.

The Germans leave absolutely nothing to chance. Their capacity for work is appalling and their attention to detail unending.

The German labor exchanges and technical schools are miracles of efficiency. They are used as registration offices and channels for the suitable employment of each boy of the fatherland. No joining the ranks of unskilled labor in Germany. Every boy learns his trade. Once a year a meeting is held of teachers, school inspectors, medical officers, children, and labor exchange officials, and the whole work of the exchanges is explained to them, and they are fully informed about the various trades. A card is issued to every child, which has to be filled out with the aid of the teacher. The school doctor examines every child, and the child's physical condition before he leaves school is noted on the form. Whenever possible, places are found for the children before they leave school. Nothing is left to chance.

The military system of Germany has undoubtedly had an extraordinary effect upon the physique and general habits of the nation. An American of Englishman visiting Germany is struck by the extraordinary physique of the young men, whose proportions are magnificent. They all walk like conquerors. Straight backs, heads well set on shoulders, clear eyes, and straight limbs. System and thoroughness again.

Look at the workmen in any German city and you will find that after they change their clothes and as men, they are clean, neat, and in a beer hall without dollars spotlessly clean and everything in place from button to watch chain.

clean up to the limit—bone, muscle, mind, and that part of his very soul which will guide him to do right.

Now what shall we think of the corporation which also thinks this man to "do only what he is told to do," to follow rules that leave him no discretion, no liberty to exercise his own judgment? How can one find that he is a mere hired man if he is reduced by rule from the mere machine-like execution of some executive's regulations?

The railroad demands that the train hands "know nothing" if a train is late; or an accident occurs. The express clerk will only explain. "The orders ask the superior." The clerk in the police station to explanation beyond "That is the rule they give us. If you do not like it, you must ask the directors." Please step along and don't block the way.

In other words, two absolutely impossible things are being done. First, slavish devotion to rules made at a distance; second, mainly enlistment of the entire being of a person who is possessed of deliberate powers.

The "hired man" is the natural result of too many rules—of the want of confidence, of distrust. The employee is not going to burn the candle of his very soul to help on the employer who really treats him like a hired man—pay, more like a hired machine. New York Daily Mail.

Telephone Keys Record.

A reproach which has often been raised against the telephone is that it leaves no record of the conversation transmitted. Thus, a telephone conversation can never figure in a lawsuit. It is not surprising, therefore, that for some time past efforts have been made to devise an apparatus by means of which a permanent record can be kept of the words spoken over the telephone, and the phonograph has often been thought of in this connection. According to a note reproduced in La Nature from L'Electrique, Prof. P. Perotti has just secured a success in this direction. The telephone receiver is composed of two loudspeaking telephones; one of these is furnished with the usual mouthpiece; the other is connected with the vibrating membrane of a Fathe phonograph. The current required for the telephones is a little greater than for ordinary installations. The phonograph record can be made to reproduce the speech in the usual manner.

Safety for Electricians.

The best rubber gloves for the use of electricians are tested to resist a current of 10,000 volts.

Home Town Helps

RECOGNIZE VALUE OF TREES

Courts Have Not Been Slow to Take Steps to Prevent Their Wanton Destruction.

Various sums have been determined by courts as the proper award for destruction of street trees, and some have been accounted worth \$1,000 or \$2,000. A good tree represents a considerable value to the abutting property and courts have readily recognized it. The following is from the Washington Herald.

"The New York court of appeals has approved an award of damages in the sum of \$450 in favor of a property owner against a contracting company for the destruction of each shade tree abutting his property, with an additional \$1,000 for incidental damage to his estate. This is probably the most valuable award ever made upon the city shade trees and demonstrates that it is a value in itself not to be computed by its timber or its fruit."

"What the great value of forests as regards their timber product, as well as their aid in the conservation of rainfall, has been thoroughly established, there is opportunity for more lessons in the value of urban shade trees. Compelled, perhaps, are taking great pride in their shade trees, appreciating the fact that their shade adds to the comfort of living, especially in summer time, and thus contributes to the value of homes and of real estate in general. Here in Washington these shade trees are one of the city's assets, perhaps appreciated more by the new owner or visitor than by the resident who has been long accustomed to them. The trees which we have should be carefully conserved, and at every opportunity more trees should be planted. The shade trees of city streets should be regarded as a public institution, a factor in the public health and comfort, to be sustained and developed as a public institution."

BOUNDARIES FOR THE PARK

No Good Reason Why Straight Lines of Government Survey Should Be Followed.

The determination of the boundaries of a park is often very intimately related to radical questions of design. The boundaries adopted for a park are often the best that can be used in the worst of all, such boundaries are the straight lines of the original government land surveys or of subdivisions based upon them and which are generally purely arbitrary rectangular boundaries bearing no harmonious relation with the topography except in the few cases where the land is flat. Such arbitrary rectangular boundaries are often hideous misfits with respect to the local topography, particularly if, as is often the case, the site has been selected for a park because of its strongly marked topography. Such arbitrary boundaries are so unsatisfactory that they are in accord with certain requirements of a good design for the improvement of the particular ground in question. In these hard boundary lines there is a fine chance for skillful planning. So the surveying back from the line should not too closely approach the actual boundary. It should appear that traffic can go no farther straight ahead by reason of encountering the edge of a forest. So planned, the park may be made to look many times its actual size and the extent need never be known by visitors.

Conservation of Beauty.

The county council of Hants, England, is a body not particularly known to co-temporary fame, yet it is entitled to a degree of grateful recognition itself in the honorable remembrance of the world. This is because it has set a precedent for the protection of beautiful natural scenery from spoliation for sordid purposes, on the whole the most advanced and effective of which we have knowledge. Hants is by no means a particularly beautiful county of England, though it contains many spots of rare beauty; but its governing body does not mean to have it disgraced, and accordingly it has taken strenuous action under the advertisement regulations act, which was passed four years ago, and which may have supposed to be a dead letter. The law authorizes local bodies to forbid the erection of advertising boards where they will disfigure the scenery, and it has been held that a local authority must specify the precise places and areas which are thus to be protected.

Best Form of Shade Trees.

When summing up the good qualities of a street tree, we should consider the following points about in the order of growth: (1) Hardiness, (2) cleanliness, (3) low height, (4) rapidity of growth, (5) shade production. Some authorities would place these qualities in different order, and climatic requirements in some cases would demand a change.

A Good Street Front.

Good street lighting is the best "front" that a city can put on. Nothing pays so well for the money expended.

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LOST HIS INDEPENDENCE.



Nagg—I never speak of the Fourth of July as Independence Day. Nagg—Why not? Nagg—Why, I was married on that day.

CUTICURA OINTMENT HEALED BAD SORE ON LIMB

"Some time ago I was coming up some steps when the board crushed under me like an egg shell, and my right limb went through to the bone, and scraped the flesh off the bone just inside and below the knee. I neglected it for a day or two, then it began to burn pretty badly. I put salve on it to draw out the poison, but when I had used it a week, it hurt so badly that I changed to ointment. That made it smart and burn so badly that I couldn't use it any more, and that was the fourth week after I began to use it."

"Then I began to use Cuticura Ointment for the sore. It stopped hurting immediately and began healing right away. It was a bad-looking sore before Cuticura Ointment healed it, and I suffered so I couldn't sleep from two days after I fell until I began using Cuticura Ointment."

"Cuticura Soap is the best soap I ever saw. I have used all kinds of soap for washing my face, and always it would leave my face smarting. I had to keep a lotion to stop the smart, no matter how expensive a soap I used. I find at last in Cuticura Soap a soap that will leave my face and leave no smarting, and I do not have to use any lotion or anything else to ease it. I believe Cuticura Soap is the best soap made." (Signed) Mrs. M. E. Fairchild, 815 Lafayette St., Wichita, Kan., May 8, 1911. Although Cuticura Soap and Ointment are sold by druggists and dealers everywhere, a sample of each, with 32-page book, will be mailed free on application to "Cuticura," Dept. 22 K, Boston.

No Soap There.
It was a modern version of that ancient law that shoemakers' children go barefoot. A ten-year-old boy had presented himself at the settlement playground counted with many layers of city soil. The teacher lost no time in administering a reproof.

"See, how can I help it," sniffed the boy, "when the mother's a washwoman and takes all the soap away from her?"

WHO WANTS "SISSY" MAN

Since Bishop Hendrix Would Drive Him From the Church Whither Will He Flee?

Bishop E. R. Hendrix, is a church council at Kansas City asked why the church was not reaching more men. "Is it because we are adapting our work more to the women?" he demanded.

Another prominent clergyman, Rev. S. M. Neel, M. D., replied that "We want no more sissy men in the pulpit," he declared. A "sissy" man, in this definition, is one who adapts his preaching and his teaching and his general conduct of parish affairs more to the women—less than—to the men.

Dr. Neel is heartily applauded by a large number of his pulpits brethren and the spirit of the times in the church, as manifested in such enterprises as the "Men and Religion Forward Movement" seems to emphasize that he says—the call and need for the strong, virile man in the pulpit who appeals to the man in the pew and in the street, for making the gospel a man's appeal, not, of course, depreciating the indispensable value of the women.

That is all very well, but where, may we ask, is the typically "sissy" man wanted? What calling or profession needs him? Business and other professions besides the ministry can use him no better than can the church—Omaha Bee.

Many a man doesn't realize that he might have made good as a fiction writer until he hears some of his love letters read in court.

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Cleanses the System effectually; Disperses colds and Headaches due to constipation. Best for men, women and children; young and old.

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Gray Matter in Fingers

Physicians and Students of Physiology Have Verified Fact Not Hitherto Suspected.

Once it was believed that the gray matter of the brain was confined with the skull. Now the physiologists and other students of physiology tell us that this same "gray" matter is found in other parts of the body; for instance, in the tips of the fingers of the blind where the "ticklers" have been consistently much exercised. One physician tells us there is a little brain in the throat and it often seems to be an independent thinking organ. An operator on the throat must have a brain in the hand may consent to the operation and desire it, but that little throat-brain will resist even if it be months after the mistake, and if the operator persists the patient may be thrown into convulsions, and the memory of that little brain. And what has been discovered in the throat and in the finger tips will be discovered through the whole body, because we will constantly be making new connections in the brain in the every part. At present, much of the thinking is involuntary, not with the co-operation of the I of conscious consciousness, but self-consciousness brings you where you cooperate with all the activities of the body

because of confidence, throughout in the matter of it.

The cells of your body can be seen as little selves or people, forming a government over which you exercise good rule by becoming acquainted with your people, educating, public sentiment in noble thinking, putting away internal strife, hatred and other forms of inharmonious. Certain persons suffer because they have hatred and hatred has a tendency to make the bodies. Hatred withers, paralyzes and congests. No one can do his best under deplorable—seek out a way to think kindly, generously, truly of yourself—Nathaniel.

Can Make Artificial Sunshine.

The scientist Bregler ascribes the benefit of sunlight at high altitudes to the presence of ultra violet light, which induces an active hyper-oxidation of congestion of blood, lasting for hours, without any tendency to sweating. He believes that the same result can be obtained with artificial light rich in ultra violet rays, and is experimenting along this line.

Sawdust Concrete.

A novel application of sawdust concrete has recently been made in the new public library building in Springfield, Mass. It was employed there as a base on which to lay the cork carpet, covering the floor. The object was to obtain a layer into which nails could be driven and which at the same time would hold the nails.

Dr. Pierce's Favorite Prescription

Is the best of all medicines for the cure of diseases of the female system. It is the only preparation of this kind devised by a regularly graduated physician, and is a most skillful specialist in the diseases of women.

It is a safe medicine in any condition of the system. THE ONE REMEDY which contains no alcohol and no injurious habit-forming drugs and which creates no craving for such stimulants.

THE ONE REMEDY so good that its makers are not afraid to print its every ingredient on each outside bottle wrapper and attest to the truthfulness of the same under oath.

It is sold by medicine dealers everywhere, and any dealer who hasn't it can get it. Don't take a substitute of unknown composition for this medicine on known composition. No counterfeit is as good as the genuine and the druggist who says something else is "just as good as Dr. Pierce's" is either mistaken or dishonest. Such a man is not to be trusted. He is trifling with your most precious possession—your health—may be your life itself. See that you get what you ask for.

