

HORN-FLY VS. POTATO BUG.

The horn-fly like the potato bug has come to stay. Intelligent farmers do not smear the potato leaves with filthy greasy mixtures to keep off the bugs, no, they use something to kill them, so with the horn-fly, the sensible up-to-date farmer does not cover his cattle with kerosene or axle grease, because he knows these things will not kill a single fly while they taint the milk and injure the health of the animal, but they do use **Shives' Insect Powder** which kills the flies and is harmless to the animals. Be sure you get from your merchant or druggist genuine Shives' Powder, it is cheap and sure. It kills the flies every time. Sold only in cans with dropper attached. Look for the name on the label. Sample can 25c. 5 cans \$1.00. Post Paid.

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WONDERS IN SCIENCE.

TESTING PERSPIRATION TO ASCERTAIN ONE'S MENTAL EMOTIONS.

Your Happiness, Your Good or Your Evil—Mindedness May be Accurately Discovered by the Psycho-Physicist—Mental Gymnastics for Misanthropes.

The Government of the United States, says the New York World, is about to start a psycho-physical laboratory. Prof. Elmer Gates has been engaged to take charge of it. His specialty may fairly be termed the newest of the sciences. It deals with matters which hitherto have been deemed beyond reach of investigation.

Among other things it has discovered that bad and unpleasant feelings create harmful chemical products in the body, which are physically injurious. Good, pleasant, benevolent and cheerful feelings create beneficial chemical products which are physically healthful. These products may be detected by chemical analysis in the perspiration and urine of the individual. Prof. Gates has discovered more than forty of the bad and as many of the good.

Suppose half a dozen men are in a room. One feels depressed, another remorseful, another ill-tempered, another jealous, another cheerful and another benevolent. It is a warm day; they perspire. Samples of their perspiration are placed in the hands of the psycho-physicist. Under his examination they reveal all the emotional conditions distinctly and unmistakably.

Each unpleasant or bad emotion produces its own peculiar poison, which has an ill effect upon the individual physically. Every one knows that great grief will poison a mother's milk. In fact, it generates an injurious chemical product so intense in character as to sicken the infant.

When a man feels greatly depressed he cannot work. Bad ideas and memories kill energy. They affect the physical being immediately. On the other hand, happy feelings create energy and make one feel like exerting himself. Of all the chemical products of emotions, that of guilt is the worst. If a small quantity of the perspiration of a person suffering from feelings of that kind be placed in a glass tube and exposed to contact with selenic acid it will turn pink. None of the other poisons similarly generated exhibits the same phenomenon. Accordingly, pink would appear to be the characteristic color of wrong-doing. How appropriate, then, that the wicked person should blush for his evil acts. It is a question whether he does so very often, however.

Prof. Gates has identified his poisons and beneficial chemical products by exciting definite emotions in individuals and analyzing their perspiration, etc. Persons suffering from guilt will not be likely to send samples of their own to him for examination. Just here it may be as well to say that the ignorant will make a mistake if they imagine that this new science invades the domain of the visionary. Its conclusions are not based on theory, but on facts.

To sum up, it is found that for each bad emotion there is a corresponding chemical change in the tissues of the body which is life-depressing and poisonous. Contrariwise, every good emotion makes a life-promoting change. Thus it follows that it pays to be good and do good for one's own sake.

Prof. Gates has made some very remarkable experiments with dogs. He took three puppies of the same litter. No. 1 he allowed the ordinary roving life of a young dog; No. 2 he kept in a dark room, covering its eyes with blinders, so that not a ray of light could enter them from birth; No. 3 he allowed all privileges good for puppies, and in addition devoted several hours a day to educating its sense of sight. The animal thus trained learned to discriminate colors unknown to ordinary dogs. He could distinguish fifteen different shades of any color, except purple and red. As to red and purple, it would appear that the canine race is hopelessly color blind.

After a while the three dogs were killed and examined. The parts of the brain which have to do with the function of sight were wholly undeveloped in the pup that had been blinded. In the educated pup they were twenty-five times better developed than in the ordinary dog, as represented by No. 1, being in fact nearly equal to the same portions of a man's brain. Those portions of the brain substance were more dense, were supplied by more blood vessels, contained more cells, and had more highly developed cells than the corresponding structures in the normal dog.

The important inference is, that what is accomplished for puppies and cats can be done with human beings. Just as the brain of the young dog is developed by such training as has been described, so the child's mind may be built up. This plan, adapted to teaching, produces results very different from those obtained by the hit-or-miss processes of common-school instruction.

Brain-building is, par excellence, the science of the future. How is man to get more mind? Upon the answer to that question the prospects of the race depend. Who can doubt that the human brain of 10,000 years hence will produce ideas far beyond the capacity of the best piece of thought mechanism of today?

The psycho-physicist states it is an axiom that the mind can only be educated through the senses. Let a child be blind from birth, and the part of the brain that records the impressions of vision will remain rudimentary. Suppose the same infant to have been born deaf, and the areas of hearing will be likewise undeveloped. If the baby were born without any senses whatever, and acquired none, it would have absolutely no mind. People think of the mind as if it were something purely spiritual. In truth, it is a piece of physical mechanism. Beginning with a child, it may be put together, bit by bit.

Every thought which enters the mind is registered in the brain by a change in the structure of its cells. The change is a physical change, more or less permanent. Bad thoughts build up structures of cells which engender evil ideas, and good thoughts contrariwise. Cheerful thinking makes a happy disposition, while indulgence in melancholy has an opposite effect.

The psycho-physicist can take a discouraged, attentionless and melancholy person and within six weeks transform him. He will be put through a course of mental lessons. To begin with, he will be taught to rehearse for one hour each day all the pleasurable memories he can summon up. He will deliberately

devote more time to cheerful and agreeable thoughts. By this means more blood and nourishment will be directed to those parts of the brain which produce such pleasant ideas. Correspondingly, the parts that give birth to unpleasant feelings and recollections will be deprived of nutrition, and at length will become atrophied. Following this plan, the man is transformed from a victim of melancholy and despair into a happy citizen, a joy to himself and to others.

Let the esoteric mind-builder systematically devote an hour each day to calling up pleasant ideas and memories. Let him summon those finer feelings of benevolence and selflessness which are called up in ordinary life only now and then. Let him make this a regular exercise, like swinging dumb bells. Let him gradually increase the time devoted to these psychical gymnastics, giving to them 60 or 90 minutes per diem. At the end of a month the change will be apparent in his actions and thoughts. Morally speaking, the man will be a great improvement on his former self.

GERRYMANDERS IN GREAT BRITAIN.

Parliamentary Apportionments That Oudo Anything to Be Found Here.

"They order this matter better"—or worse—in Great Britain and Ireland; the matter under consideration being the gentle art of gerrymandering. We have had some pretty bad examples of it here, of late, but at our worst we must, according to figures given by the New York Tribune, yield the palm of badness to our "kin beyond the sea."

The present apportionment of members of the House of Commons was made by what was called a reform bill. Either that nomenclature was a masterpiece of irony or else the former apportionment was bad beyond all reckoning, for it really is difficult to imagine anything more inequitable than the present system. The boroughs of Denbigh, Flint and Montgomery, for example, each elect one member and the total number of voters in all three is only 10,401; while Huddersfield, with 15,550 voters, elects only one. Again, Merthyr, with 16,572 voters, and Derby, with 16,271, each elect two, while Cardiff, with 17,833, elects only one. Ipswich's 9,444 voters and Dewonport's 7,875 elect two members for each place, while Dudley's 15,355 and Wands-worth's 15,612 elect only one for each. There are not less than twenty-one English boroughs with fewer than 5,000 electors each. One of them is now represented by a liberal unionist, six by radicals and fourteen by conservatives. All parties, therefore, profit by this unequal distribution of members, and if the conservatives have now, on the whole, the advantage their tenure of it will probably not be long. The new registration bill seems designed to swing the pendulum far to the other side and to give to the radicals undue representation. Thus five Irish constituencies, with an aggregate poll of only 14,000, will send to Westminster one representative each, while Romford, with more than 19,000, will send only one; in the other, one to 19,000.

Broken Friendships.
It is about the time of year now when the college boys come home bubbling over with enthusiasm about their Greek-letter secret societies. Fresh from school, they actually believe that the friendships made in their school fraternities are going to follow them through life and serve as a powerful adjunct to success. Poor chaps! The years undevote them bitterly. One of the saddest things in this human life of ours is that if a man grows at all he is bound to grow away from friendships. Men do not keep pace with one another; some bound swiftly forward and upward; others are more deliberate in their progress; too many advance not a step beyond the point where youth and college days quitted them.

A reader of books has a somewhat similar experience. As he becomes what Bacon calls a full man, he discovers that he no longer has a taste for the reading which was once his delight, and he wonders what particular enjoyment he could have found in the perusal of volumes which now almost repel him. We venture to say that in nine cases out of ten it is purely a sentimental regard for them as old chums that induce the reader to hold on to (we will say) half the books that cumber the shelves of his library.

So growing away from friendships, whether they be the friendships of humanity or the friendships of books, would seem to be one of the evidences, as well as one of the penalties, of intellectual growth.—Engene Field.

Mark Twain's Flea.

"When you come to gage a thing's speed by its size, where's your bird, and your man, and your railroad, alongside of a flea? The fastest man can't run more than about ten miles in an hour—not much over 10,000 times his own length. But all the books say any common, ordinary third-class flea can jump 150 times his own length; yes, and he can make five jumps a second, too. 750 times his own length in one little second; for he don't fool away any time stopping and starting—he does them both at the same time; you'll see, if you try to put your finger on him. Now, that's a common, ordinary third-class flea's gait; but if you take an Eretalian first class that's been the pet of the nobility all his life, and hasn't ever known what want, or sickness, or exposure was, and he can jump more than 300 times his own length. . . . It's ninety miles a minute; it's considerable more than 5,000 miles an hour. Where's your man now? Yes, and your bird, and your railroad, and your balloon? Laws! they don't amount to shucks' longside of a flea. A flea is just a comet blid down small."—Mark Twain's Tom Sawyer Abroad.

Preserving Baby's First Shoes.

A recent fad among young mothers is to have baby's first shoes made objects of beauty and sentimental interest through the agency of some metal preparation that is poured over the little shoe, causing it to retain its shape and showing all those dear little spots and dents, so precious in the eyes of the fond parent. An enterprising firm has hit on this plan, and from the success they are making the idea proves itself a very popular one.

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