volume ever saw the light. Mr. Benjamin's article was singled out by Messrs. Lattimore and Remington as worthy of the first prize, probably because of the following 'practical and otherwise valuable' information which it contains: "All that is required to immediately purify and sweeten a contaminated airsupply, however originated, is to dip a cloth in the liquid (a solution of nitrate of lead and common salt), and hang it up in the apartment." Or perhaps they thought sulphate of iron, charcoal, and table salt were of much greater value than chlorinated lime, mercuric chloride, or mercuric iodide. Their fathers thought so, and therefore the new-fangled notions of bacteriologists must be disregarded as unscientific and impractical. They believed that Dr. Baker's special training as a physician, and his experience as founder of the state board of health of Michigan, as well as member of the committee on disinfectants of the National board of health, unfitted him as a judge of such matters. In spite of his earnest protests, they insisted upon giving the first prize to a paper which he declared was unworthy any prize. Their special training as analytical and pharmaceutical chemists fitted them for just such work, because they knew nothing of Pasteur or Magnin. Koch or Miguel, Sternberg or Klein, other than they happened to see in the Rochester post or Philadelphia ledger. G.

Brooklyn, Dec. 11.

The despised sparrow is entitled to a good word if he can secure it. He has come to stay, and no amount of vituperation will displace him. 'He is too many,' and has spread over too large a portion of the union. The sparrows crossed the Mississippi River at Clinton, Io., about 1875, and have increased largely. They confine themselves principally to the railroad buildings and some of the business blocks, though they occasionally nest on private houses.

The English sparrow.

When this town was founded, twenty-five years ago, there were no trees or shrubbery near, and consequently few birds. Now the town looks like a forest in the distance. The consequence is that robins, thrushes, orioles, blackbirds, bluebirds, and many other birds, are very numerous, and seem to be in-creasing. Numbers of blue jays nest in the shadetrees, and stay with us during winter. The sparrows have never seemed to drive any away, as each year more nests of summer birds have been observed. They confine themselves to the open spaces and streets, and do not nest or frequent the trees or shrubbery. They have never been observed in the fields outside of town, and do no injury to fruit or seeds in gardens. They live largely on insects, as has been shown by examining their crops. In winter they are mainly dependent on the seeds and grains they can pick up. They fall victims to the jays and the butcher birds, but a crowd of them makes a good fight against the aggressors. There are millions of them in every large town, on the railroads of this state, and there is no way of exterminating them, and no wish to on the part of unprejudiced people. There is no law for their protection in this state, only a general friendliness toward them as toward all small birds. P. J. FARNSWORTH.

Clinton, Io., Dec. 10.

It must be admitted that the English house-sparrow will eat seeds and fruit, but it should be remembered that the young sparrows are fed chiefly on insects and caterpillars : and a good English authority (Yarrell) observes that "so great is the number of these consumed by the parent birds and their successive broods of young, that it is a question whether the benefit thus performed is not an equivalent even for the grain and seeds eaten by the adult birds at other seasons of the year."

SCIENCE.

Dr. Elliott Coues, in his notes to Stearns' 'New England birds,' advocates the extermination of the English sparrow, and calls it 'the parasite.' This is not a translation of its scientific name, Passer domesticus, and does not accord with any known habit of the birds in question. Dr. Coues has no fault to find with a native tree-sparrow (Spizella monticola), which he says exists in large quantities, and feeds only on grain and seeds. All specimens shot by Dr. Coues had their crops full of seeds.

The sparrows which damage the crops and orchards in England are another species. called the field-sparrow. I have seen these in flocks of over a thousand rise at one time from a field of grain. This is, I presume, the bird described by Dr. Coues as Passer montanus. He states they are now found in New England, but I never heard of their having been imported.

Ì rather doubt the stories about the English sparrows molesting the bluebirds at breeding time. It is well known that most birds are very pugnacious at this period, and I am personally acquainted with the fact that bluebirds are particularly courageous at this season. On one occasion a bluebird made its nest in my garden, in the hollow of a tree, about six feet from the ground. One day, when busy inspecting the nest, I received a violent blow on the side of the head, and, on looking up, saw the parent bluebird flying away. I found that whenever I placed my hand in the nest, I was attacked in this manner. I apprehend, that, if a bluebird will attack a man in defence of its nest, it is not likely that a sparrow would do so with impunity.

I notice that Dr. Bechstein, in his standard work on birds, published as one of Bohn's library, states, that although the house-sparrow has no song, he can be educated to sing equal to the canary. I was also surprised to find in the same work (p. 249) that the house-sparrow could be taught to speak: it mentions a clergyman of Paris who had two of these birds which could repeat the fourth, fifth, sixth, and seventh commandments. It is gravely stated that when these birds quarrelled over their food, "one of them would admonish the other with the remark, 'Tu ne voleras pas.'"

Giving due credit to the house-sparrow for all his accomplishments, I fear he can speak the French language only in fable. JOHN MICHELS.

New York, Dec. 10.

The temperature of the moon.

Now that the temperature of the moon has become a subject of investigation with the aid of recent refinements in the methods of observing very small intensities of heat radiation, it may be well to also look at the matter from another stand-point.

The condition which determines the static mean temperature of the whole mass of the moon is, that its rate of losing heat by radiation from its surface shall be exactly equal to the rate with which it receives and absorbs the heat radiated from the sun,