sufficiently with physiology. Mr. Lawes had cruly stated that the question was, commercially speaking, whether giving cooked food would in reality pay. They ought not to be surprised to find that cooked foods were not so well calculat ed to build up the animal and obtain a good quality of flesh. It had been shown that it, technically speaking, boiled away, and the eason given, no doubt, was the just one, that if food was given containing a large quantity of water, more water was absorbed in the organi zation of the animal than if dry food were given. Speaking as a pathologist, he believed that a great number of the diseases of the lower animals were to be traced to the bad quality of blood, arising from an excess of water and a deficiency of nitrogenised food. The practical farmer knew very well that in the lambing season if the ewes eat too much wet turnips or wet tops a bad quality of blood was produced. and the ewes would become diseased and dis unless a large quantity of dry nitrogenise 1 . Lod were given. There was another questio. with eference to cooked food. Admitting or a moment that it was an advantage to the animal, and that it accumulates a large quantity of flesh in a short space of time, and that they regarded that, for argument sake, as so much gain, he was inclined to think that it arose from the facility it gave for the digestion of the food by anticipating a part of the process which it un derwent from the action of the gastric juice. -For a simple stomached animal like the horse, they knew very well that the food would be at once converted into .. Ibrous mass; a chemical change took place, and that pulpy material on passing into the intestinal canal became mixed with various secretions, including bile; another chemical change took place, and the chyme was separated from the chyle, and the latter being the nutritious portion of the food, was absorbed into the blood. The question was, whether in giving an animal, and especially a ruminant animal, cooked food, they did not to a considerable extent supersede mastication; if so, they would supersede insalivation, and thus interfere with one of the first processes of nature, and do harm. What was the action of the saliva on the food? Without going into the intricacies of the question, they had the amylaceous parts of the food first converted into sugar or gummy moster, which was a soluble material chemically allied to sugar, and, as has been stated, it was only after a sufficient quantity of carbon had been obtained that an animal ceased to feed. A provision was made in the ruminant animal for stirring up, if he might so express it, the food; and a chemical change took place in its character before it passed into the true digestive stomach. There was a re-mastication and a remealization; and, inasmuch as the secretions coming from the rumen were very analogous to those with which the food was

with saliva a much longer time, but was mixed with a much greater quantity of saiiva. It then, by the use of cooked food they dispensed with part of the operations of nature and sem the food quicker into the intestinal canai, ther would dispense with the process of remasters tion and re insalivation, and he could easily anderstand why, although a large increase much take place in bulk, the quality of the anima might become bad. For the same reason a was objectionable to pulp food too fine, but they might with advantage soften chaff that was foror five inches long, so as to commence the process of converting the amylaceous part of me food into sugar without interfering with the functions of the rumen. There was no doubt in the world that they could induce animals to eat a larger quantity of food by imparting a relish to it, which they could do by throwing a small quantity of cooked oil cake over it, but on the whole he was not in favor of the so-call ed cooking of food either as a means for the preservation of the health of animals or of ore moting the process of digestion. He was in clined to think, physiologically speaking, that by pulping food, cutting straw, and mixing with a solution of oil cake, they would gain their point at a much lower expense, and in much better manner for the an mal economy.

The discussion closed with Professor Simonds valuable remarks; and we need scarcely remind our readers that the question of cooked foods one which has been frequently agitated, and which still remains, as Mr. Lawes' observation show, in a somewhat uncertain state. cattle will not pay if fed solely on cooked food although they fatten more quickly than these fed entirely on raw food, has been long known co experienced feeders; but it has also bear shown that a portion of the food may be cooked with advantage. This has been proved by several cases, the details of which have been laid before the public: at the same time, its likely that pulping will, as a general rule, super sede cooking, being less troublesome and less expensive, especially when the pulping machine is driven by steam or water power.

Liquid Manure Farming at Myre-Mill, Scotland.

The glory of Myre-Mill has departed. The engine for the most part stands idle on the hill; the wooden covering of the mouths the monster tanks are broken or rotting, and the manurial contents are hardly thought worth the expense of distribution.

its character before it passed into the true digestive stomach. There was a re-mastication and a re-insalivation; and, inasmuch as the secretions coming from the rumen were very analogous to those with which the food was mixed in the mouth, it remained not only mixed.

Of course, everybody interested in faming pursuits has heard of Myre-Mill, where liquid manure farming was long supposed to be carried on to the greatest perfection and profit that was first brought prominently before the public in the "Minutes of Information" in