vorous animals; and curiously enough, it makes its appearance in the milk even of carnivorous animals when, by domestication, they are gradually accustomed to a bread diet. If you feed a dog with bread, the milk increases, and will contain some milk sugar, and that quantity increases with the amount of bread and the starchy food with which you supply the dog. This shows the intimate connection which subsists between the character of the food and the composition of the milk of animals Contrasted with the milk of carnivorous animals, the milk of the ass appears most inferior, and an extremely poor milk. But whilst it contains, as indicated in the analysis, 911 per cent. of water, little caseine, scarcely any butter, and a very small quantity of ash, it is comparatively speaking rich in milksugar. Now, milk-sugar is a very digestible material. It is easily digested. Indeed, on the continent it is used as medicine in cases of indigestion. It is a household medicine for children. Children suffering from indigestion have administered to them a teaspoonful or two of this milk-sugar or lactine, as it is also called; and as an aperient medicine, I do not know another so wholesome. For invalids, therefore, ass's milk is, no doubt used in this respect—that it is an easily digested food. Persons suffering from indigestion are frequently unable to well assimilate the butter which is contained in good rich milk, and ass's milk, for this reason, is peculiarly well adapted to them. I question much, however, whether the composition of the milk of all donkeys is so poor as this. I ought to mention that my analysis is made of the milk of a German donkey, which, like Irish donkeys, is fed on the road side, not upon the richest of food. short, it eats what it can pick up; but I believe that a well-fed donkey would furnish a much richer milk. I am led to this belief from having seen, by investigations, which I hope to publish in future number of the Royal Agricultural Society's Journal, on the variations in the composition of milk, what an important influence the amount and quality of food have upon the composition of milk. For a moment or two, allow me now to point out a few particulars with respect to the milk of ewes. I have here the composition of two samples of ewe's milk. Both were analysed by myself recently; one a fortnight ago, and the other was completed only the day before yesterday. The first sample of ewe's milk I had the pleasure of analysing for his Grace the Duke of Richmond, who had experienced a great many losses in his flock of Many lambs had died, and his grace thought it probable that the milk of the ewes was of a poor character, or contained something that was injurious. I put it under the micros cope, and subjected it to a careful examination; but I found it perfectly normal. No pus, or other matter, which occasionally occurs in diseased milk, was present; and on comparing the analysis with the published analyses of ewe's

milk, I found it agreeing as nearly as could expect in two samples of milk. Ther lished analyses of ewe's milk made it closely semble goat's milk, for this reason; but on alysing the milk from our own ewe pen I, struck with the very great difference in quality. You will observe that in the first ple of milk, which is from the ewe pen of College Farm, we have no less than 30 per or in round numbers, of solid matter; whereas, the second sample we have only 16 per or There is thus, in the one sample of milk, no double the quantity of solid food that is in other. I have not learned what time hadelar from the ewes having lambed; but the analysed by me from our own ewe pen is de ed from ewes that had lambed only three? previously. Now, the time at which thele had dropped has unquestionably great influupon the quality of the milk. We know the very first milk which is yielded by the after the lamb is dropped is more like or than butter. The sample I have before not the very first milk: it is milk that water ed two or three days after. I gathered it a number of ewes, and all had lambed within period; but I was not prepared to find 80 , a variation. It is an important subject to certain what are the variations in the m? the ewe at d fferent times. But we have data for making that comparison; and alle I have made a report to his Grace the Dr Richmond, that the milk of the ewes w good quality when compared with othersal of ewe's milk-analyses, however, which not made in England, but on the Contines. is very possible that a poorer milk is proc. and after all that this milk was of an in. character and of poorer condition. At my it is interesting to notice the high state of centration of the milk that is yielded by ex. the first week, or even three days after lan. It is an extremely difficult thing to bring. lamb when its mother dies within the first t or four days. There is a peculiarity in the dition of ewe's milk which throws some. upon the subject, and it shows the resse such difficulties are experienced. I propose to reserve a couple of ewes, and analyse. milk from time to time, in order to see it milk gradually becomes poorer, or remain tionary, and also with a view of access what the average composition of ewe's nik

CIRCUMSTANCES AFFECTING THE QUALITY OF.

Passing on, I would notice some of the cumstances by which the quality of milk fected. The distance from the time of the have already referred to; I may, therefore it over here, and refer briefly to the agenumal. It is well known that an old councy yield such good milk, nor so much make have lately seen an analysis of milk which