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with much interest the plan proposed submit them to the action of the by Dr. Nivan, Medical Health Officer authorities. The presence of one or of Manchester, and supported by Professor Delepine and Mr. Brittlebank, the Chief Veterinary Officer of tute a perfectly defensible and reathat city, which includes the form-sonable ground for official action; and ing of disease-free in lands by eradi-by making notification by owners or ing of disease-free in lands by eradicating tuberculosis from certain farms, and gradually extending the work over small districts, to be still further enlarged as the system finds favor with stock owners. While there are some features of the scheme, such as the spending of public money in specially-selected localities, to the exclusion of other taxpayers, and the supplying of sani- Koch, in 1901, has, after all, by hulldings, through bringing stimulating others to investigation tary buildings, through bringing pressure to bear on landlords, or otherwise, which are scarcely applicable to conditions in America it is in my opinion much more sensible and likely to be productive of ultimate benefit than the diffuse policy of promiscuously testing a veterinarians to-day know, or, perherd here or there over an extensive haps I should say, have the proofs, territory, difficult, if not impossible, conclusive and satisfactory, of many to keep under observation or control. to keep under observation or control, without an enormous staff of welltrained, experienced, and absolutely conscientious veterinary inspectors, having no interest, beyond that of duty, in the herds with which they are called upon to deal or their owners. I might here say that the policy of employing local practi-tioners for this work has been repeatedly tried, and, in my experience, at least, has not, in the majority of instances, proved either beneficial or successful.

THE BANG SYSTEM

most consistent advocates and ad-There is no doubt that, if all our period of fifteen months. stock-owners were thoroughly intelli-

taking pains, either the Bang system make nasty swallowing later on. or that of Ostertag might be I have now briefly and inadequate-adopted with every hope of a suc- ly placed before this Congress my cessful issue. As matters stand, we views regarding the various methods must, in order to deal with bovine recommended by scientists for the tuberculosis effectively, have some control of bovine tuberculosis. While definite policy of legal control, and these views may to some appear the question, to my mind, is whether pessimistic, they are at least honest,

based on the tuberculin test. COMBINATION OF SYSTEMS PROPOSED

At present I am inclined to favor a combination of the systems of Bang and Ostertag with that of the Manchester men, accompanied by a closer supervision of infected herds than is recommended by either of the two first-named authorities, so far as I understand their methods. All clini- ground. cal, or, if they can be detected, open cases of tuberculosis, should be destroyed; all the adults in herds in which such cases are found to be treated as if diseased, marked and segregated accordingly; all milk from such herds to be pasteurized, whether used for human food or for that of animals, the progeny to be effectively separated from the adults, regularly submitted to the tuberculin test, and kept by themselves until the disease has been eliminated from the premises by the death or removal of the affected parent-stock. Any animals added to the healthy herd would, of course, have to be tested should first be taken up a question on purchase, and retested after three in regard to which veterinarians have months' careful isolation. I am hitherto, in most cases, been culfree to admit that this plan is open pably negligent. to many of the objections which I matter to-day in which veterinarians myself have advanced against the are behind the age, it is that of failother two already reentioned, but it ing to insist, at all times, in season appears to me to obviate the enor- and out of season, on the importance mous economic was e and the tre- to live stock of thorough and energy mendous popular opposition involved tive stable ventilation. Having bein the policy of compulsory slaughter, fore us the object-lesson afforded by while it promises, if systematically the medical profession, and the marapplied, and patiently and carefully vellous results which its members are

CONTROL OF BOVINE TUBERLOSIS carried out, infinitely better results than can be hoped for from that of promiscuously testing the herds of In this connection, I have read only such owners as are willing to more actual clinical caser of tuberculosis in any herd would constiveterinarians compulsory, as in other scheduled diseases, reliable information on which such action could be taken, would in most instances be While forthcoming.

As has been well said by the editor of the Lancet, in commenting on the recent able paper of Dr. Overland, of Norway, the famous address of Dr. and research, been productive of good, perhaps to an extent sufficient to offset the hesitation and delay in

things which we knew before, but were scarcely able to prove, regarding the transmissibility to man of bovine tuberculosis, and vice versa.

And this brings me to vaccination, a subject on which I have nothing to say, beyond that, up to the present, the published results of inoculation with bovo-vaccine are, from a practical viewpoint, singularly confusing. inconclusive, and discouraging. immunity acquired under the most favorable conditions appears to be of short duration, and any advantage I have nothing to say against the which may be gained is, to my Bang system itself; in fact, I am, thinking, more than offset by the and always have been, one of its danger of spreading the disease.

Where cultures of the human type mirers. I cannot, however, after are used, the risks appear to be, if thirty years' experience as a veteri- possible, even more serious. Weber narian on this continent, and with and Tirze, working under the directhe knowledge acquired in that time tion of the German Imperial Health of conditions on the ordinary North Office, report, according to Theobald American farm, bring myself to be-Smith, that the udder of a cow vaclieve that it is capable of successful cinated with a human culture shed general application on this continent. human bacilli into the milk for a

Let us make haste slowly in work gent, well-informed, anxious to rid of this kind, and be sure of our their herds of tuberculosis, and ground before we issue any more of gifted with an infinite capacity for these definite pronouncements which

not such control can properly be and have been carefully considered with due regard to the responsibility which the veterinary sanitarian entrusted with large interests owes to humanity at large, as well as to Dogmatize as we those interests. may, we are still groping, and in this, as in other matters of a like nature, those who have delved the deepest are the least sure of their

In the meantime, while we are waiting, as I fear we will for some time yet have to wait, the discovery of a certain and satisfactory scientific method of dealing with bovine tuberculosis, let us, as practical men, carry on an energetic campaign of education among cattle-owners and the general public. Bovine tuberculosis will be stamped out when individual owners realize that it pays much better to keep sound cattle than to lose money and feed in maintaining herds tainted with disease.

IMPORTANCE OF STABLE VENTILATION In this campaign of education there If there is one

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achieving by open-air treatment, not only helping, but actually curing advanced cases of tuberculosis, to say nothing of checking the disease, as is now daily done in its early stages, it is nothing short of disgraceful that we are yearly permitting thousands of valuable animals to become infected, owing to the insanitary conditions under which their owners insist on keeping them. truth of this contention, which is, perhaps, at first sight, rather sweeping, there is no lack of proof. In northern countries, where cattle are generally closely housed, and where a proper system of ventilation is the exception, and not the rule, we almost invariably find bovine tuberculosis rampant. In milder climates, where animals have free access to fresh air, as, for instance, among the Hereford cattle in England, it is a rare thing to find a case that disease. On the ranges, tuberculosis is unknown, except where it has been introduced by some pampered, stable-bred individual, and even such an one is more likely to recover than to die, provided the malady is not too far advanced and the first winter can be endured. To put the case plainly, stockmen are BREEDING TUBERCULOSIS a great deal faster through neglect of this important subject of ventilation than it

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