this disease. So long ago as 1887 an Army medical officer discovered that Malta fever is caused by the entrance into the body of a minute bacterium, which was named the Micrococcus melitensis. This microbe was studied from many points of view, but with no success until a discovery was made which cleared up the mystery. This was the remarkable fact that the goats in Malta are susceptible to this disease, and act, as it were, as a reservoir of the virus. In truth, it is probable that Malta fever is primarily a disease of goats, and that man is infected from the goat, not the goat from man. The goat is very much in evidence in Malta, there being some 20,000 of them, which supply practically all the milk used in the island. It was discovered by the commission that half these animals are affected by Malta fever, and that one-tenth are constantly passing the Micrococcus melitensis in their milk. Notwithstanding that the goats show no outer signs of the disease, they continue, possibly for years, to secrete milk containing the poison.
It seemed evident, then, that to banish Malta fever from our sailors and soldiers on the station, all that vas required was to eliminate goats' milk from their dietary. This step was taken in June, 1906, with the striking result that the cases of fever fell to onetenth of what had been their normal number. There is, therefore, reasonable hope that this disease will now disappear from the garrison in Malta, and some So,ooo days of illness be blotted out from the yearly records of the Navy and Army.
If these good results are maintained, this investigation will stand out as one of the most notable examples of successful work in the prevention of disease, and will clearly show the economy of spending a few thousands on a thorough scientific investigation.
The research occupied some time, and from first to last employed some twelve men, but the outlay in time and money are as nothing to the result achieved.

## INTERNATIONAL ASSOCIATION OF ACADEMIES.

YESTERDAY morning, May 29, there opened at Vienna the third triennial apeheral assembly of the International Association or Academies; of which the Impetial Academy dien Sciences, Vienna, has been the direg ng. 7 d don the last three years.

Great/brith is represented in this association by the Rofarsotiety of London in the section of natural science, and by the British Academy for Historical and Philological Studies in the section of letters.

The delegates appointed to attend the essembly on behalf of the Royal Society are Sir George Darwin, K.C.B., Sir Norman Lockyer, K.C.B., Lieut.-Colone1 Prain, Prof. Schuster, Dr. W. N. Shaw, Prof. C. S. Sherrington, Prof. H. H. Turner, and Dr. A. D. Waller, Prof. Schuster being the delegate charged to reliver the vote of the society; while the British Academy is represented by Prof. Bywater and Prof. Israel Gollancz.

A number of subjects of general scientific importance will be discussed at the meeting, as well as certain questions of internal policy concerning the status of the association, and its mode of 'working under its statutes.
The Royal Society has put forward two proposals for the consideration of the assembly. One is for the establishment of a uniform lunar nomenclature and a proposition will be submitted by the council of the association for the appointment of a committee to work out a scheme in furtherance of this object. In this connection the Royal Society propounds sugges-
tions regarding the coordination of lunar nomenclature, which will no doubt form a basis for discussion.

Another proposal of the Royal Society for the cooperation of the International Association in the International Union for Solar Research will probably lead to considerable discussion, not on account of want of sympathy with the movement, but because of questions which have been raised as to the constitutional power of the association to join another organisation.
An important proposal of the Académie des Sciences to create an organisation of meteorological stations at different points on the earth's surface, at the expense of the Governments respectively concerned, will be put forward with the support of the council of the association.
The assembly will also be recommended to approve the resolutions of the committee which met at Frank-furt-am-Main in 1904, proposing changes in the statutes of the International Seismological Association, which have since been adopted. That committee recommends the associated academies to endeavour to induce their Governments to cooperate with the International Seismological Association in dealing with seismic problems of physical interest.
Other matters to be brought before the assembly in the science section are a report of the committee for investigating the anatomy of the brain; reports, upon geodetic measurements; a report of the commission appointed in 1904 for the investigation of atmospheric electricity; the consideration of the further working of the committee appointed in 1904 for the magnetic measure of a circle of latitude.

In the section of letters there will be reports presented upon the edition of the works of Leibnitz. initiated by the association; upon the international loan of manuscripts; upon the edition of the Mahabharata; the publication of an Encyclopædia of Islam; the Corpus of Greek records and the Corpus medicorum antiquorum.

## THE SMALL PLANETS. ${ }^{1}$

M. MASCART'S summary of higjown work is as - follows :-

Nous avons voulu montrer l'ampleur de la question des petites planètes, qui pe fut, hais encore exposée dans son ensemble, et si pus fors suscité bien plus de points d'interrogation que nor n'en avons levés, nous serons du moins h reuk peut-être, d'appeler l'attention des astronomes fy qyers ue'problèmes assez mystérieux.

Profably an author has seldom given in few words so exellent and accurate a description of his work. M. Mascart has collected on a large scale, and has thus performed a great service to this branch of astronomy. We may turn to his bibliography containing more than a hundred names with a reasonable confidence that nothing of importance has been omitted.

The subject of the small planets appears to bristle with striking statistical peculiarities. To exhibit their nature we note down a few, and may remark that perhaps in no case whatever has a completely satisfactory explanation been given.
(I) If the small planets be arranged in order of mean distance, or of mean motion, there are marked gaps in the series, first noticed by Kirkwood, corresponding to mean motions twice and three times that of Jupiter.
(2) When the inclination to the ecliptic is large, $s$ n also, in general, is the eccentricity, and vice versá.

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[^0]:    1 "La Question des petites Planètes." By M. J. Mascart. Pp. rio.

