

twenty-first anniversary of the publication of your great work, the "Origin of Species."

However limited the field of our own labours may be, we cannot but be sensible of the influence which that work has had throughout the whole domain of Natural Science, and especially upon Biology, which, as one great comprehensive Science, may be said to owe its very existence to the fact that you made belief in Evolution possible by your theory of Natural Selection.

We are glad to think that you have lived to see the almost universal acceptance of the great doctrine which it has been the work of your life to establish; it is hardly an exaggeration to say that every important Botanical or Zoological discovery of the last twenty-one years, particularly in the departments of Embryology and Palæontology, has tended to fill up some gap in the evidence you had originally collected, and to make Evolution no longer a theory, but an established doctrine of Science.

We hope that you may long live to continue your labours and to see the further spread of their influence upon all scientific thought and upon all higher scientific work.

We are, sir, your obedient servants,

THOS. MORGAN HOCKER	President
F. W. HUTTON	} Vice-Presidents
GEORGE H. F. ULRICH	
GEORGE M. THOMSON	Hon. Sec.
HENRY SKEY	Hon. Treasurer
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T. JEFFERY PARKER	
W. MACDONALD	
DONALD PETRIE	

Dunedin, New Zealand, October 1, 1880.

DEGREES TO WOMEN

WE trust the Grace which is to-day to be submitted to the Cambridge Senate, advocating the admission of women to receive University degrees, will meet with the approval of that body. In fact, as the *Times* put it yesterday, the point was ruled ten years ago. "Cambridge, in conniving at its public examiners examining Girton and Newnham students precisely as if they were Trinity or Johnian scholars, gave in spirit what is now demanded. It seems ungenerous, and not very rational, for a university to let its authorities proclaim a man in the Senate House eighth wrangler, and inform Girton College that the real eighth wrangler was a woman. Even a country clerical passman would not venture to withdraw the existing licence; all that remains is for the Senate to ratify with a good grace the principle upon which its officials have long and openly been acting."

The following paper, which has been issued from Cambridge in view of to-day's discussion, puts the case as fairly as it can be put:—

Reasons why the university should be one of the leading centres of female education.

1. Because no line can be drawn separating main subjects of study or whole branches of learning into those suitable for men and unsuitable for women, or *vice versa*. No true classification of human knowledge will admit of the distinction, "Propria quæ maribus tribuntur, mascula dicas." 2. Because the University as a chief inheritor and transmitter of learning from generation to generation has no right to dissociate itself from any great movement connected with the advancement of learning. The participation of women in the general and particularly in the higher studies of their time must be a great fact and factor in the future of education. 3. Because whatever educational resources may be found elsewhere, those of Cambridge and Oxford are peculiar; and though as long as there was no public demand for these resources except from male students they were properly applied only to male education, now that a demand has sprung up and persistently declared itself on the part of the other sex, the university will incur the reproach of inhospitable

partiality if it bars its doors, like a monastery, to female applicants for admission. 4. Because one of the legitimate wants and aspirations of the University—leisure for continued study and research—is likely to be promoted by increasing the amount of remunerative educational work done in the university. The more work, the more workers, and the more remuneration; and out of work, workers, and earnings, the legitimate and sure outcome will be leisure for the worthiest work and workers. 5. Because the education of women in England must, from irresistible national feelings and convictions, be religious and Christian; and if female education is centred in the university a stimulus will be given to the best religious influences in study and life; and from these the English universities have never for any long period been dissociated. 6. Because any mischievous consequences that might be feared, whether to the university or to the students, by the admission of women can be guarded against by suitable regulations, and still more by responsible authorities; whereas the diversion of the interests and influences that are gathering round the question of women's education from the university to other centres would be an irretrievable step, isolating the university for the future from a movement of great force and promise. J. L. BRERETON

February 16

NOTES

AT the anniversary meeting of the Royal Astronomical Society, on the 11th inst., Mr. Hind, president, in the chair, the gold medal was presented to Prof. Axel Möller, Director of the Observatory at Lund, in Sweden, for his investigations on the motion of Faye's comet. Prof. Möller's researches commenced in 1860, soon after attention had been directed to this comet by the offer of a prize for the accurate determination of its orbit by the Society of Natural Sciences of Dantzic, and they have been continued to the present time, the comet's track at each of the three subsequent returns in 1865-66, 1873, and 1880-81, having been predicted with a precision which has excited in no small degree the admiration of astronomers; indeed, at the re-appearance in 1873, M. Stephan's first observation at the Observatory of Marseilles, showed that the error of predicted place was less than *six seconds of arc*, and after the last revolution, when the perturbations from the action of the planets were greater than in any previous revolution since the comet was first detected by M. Faye in 1843, the agreement between observation and calculation was still very close. One important result of these investigations has been a striking confirmation, from the motion of Faye's comet, of the value for the mass of Jupiter deduced by Bessel from the elongations of the satellites, the two values according within the limits of their probable errors. Prof. Möller also carried back the accurate computation of the perturbations to December, 1838, so as to ascertain the effect of a pretty near approach to Jupiter in March, 1841, upon the previous orbit, and having done this he examined the probable circumstances of a very near approach of the two bodies near the passage of the node in 1816, to which attention had been drawn by Valz soon after the comet's orbit was fairly determined. Thus Möller's laborious investigations extend over a period of forty-three years, during which he has followed the motion of the comet with all the refinements of which the actual state of the science admits. It will be generally accorded that the medal has been well earned in Prof. Möller's case. The last occasion on which it was awarded for investigations of a similar kind was as far back as 1837, when the Astronomer-Royal presented the medal to Rosenberger for his researches on the motion of Halley's comet.

At the anniversary of the Geological Society on Friday the medals were awarded as follows:—The Wollaston medal to Prof. P. Martin Duncan, M.B., F.R.S., F.G.S.; the Murchison medal to Prof. Archibald Geikie, F.R.S., F.G.S.; the Lyell medal to Principal Dawson, LL.D., F.R.S., F.G.S., of McGill College, Montreal; and the Bigsby medal to Dr. Charles Barrois of Lille. The Wollaston Fund was awarded to Dr. R. H.