PREFATORY NOTE TO TWO UNPUBLISHED PAPERS
BY THE LATE PROFESSOR D. T. GWYNNE-VAUGHAN.

AMONG the research notes of Professor Gwynne-Vaughan on the vascular system of the Pteridophyta two investigations were in a sufficiently forward state to justify publication.

In both cases the idea of the research was clearly defined, full notes of the observations were available, and the slides were annotated with a view to the preparation of figures. We have thus found it possible to present the results almost entirely in the author's own words, and to add illustrations in accordance with the original intention.

The paper on 'The Anatomy of the Leaf in the Osmundaceae' existed as a preliminary draft, and it is published substantially without alteration, but with the addition of photographic illustrations. This is the paper referred to in Part V of the series of memoirs on the fossil Osmundaceae.

In the case of the investigation on 'Some Climbing Davallias and the Petiole of *Lygodium*' only the introduction had been drafted. This contains, however, a clear statement of the object of the work, and the facts extracted from the full notes on the several species become in its light a connected story. It is from this point of view that we have included some already known facts as to *Lygodium* which were reinvestigated by the author for purposes of comparison with *Davallia*. The notes include a series of freehand pencil sketches, photographs of some of which, after being traced with Indian ink and bleached, are here reproduced as text-figures. We have supplemented them by photographs of a few of the more important sections.

Had these papers been completed by Professor Gwynne-Vaughan the theoretical bearings of the facts would doubtless have been more fully developed and placed in relation to the work of other investigators. We have preferred to make no attempt to go beyond what was actually set down except in respect of the few notes enclosed in square brackets and the description of the figures in the text and plates. The course we have adopted avoids the disadvantage of any attempt to rewrite the papers.

Though unfinished in expression, each of them represents in all essentials a completed investigation. Their relation to the author's previous work and to the developments proceeding from it will be evident to students of plant anatomy.

Professor Gwynne-Vaughan's anatomical preparations, including all those on which his published work was based, have found their appropriate home in the Botanical Department of the University of Glasgow. The numbers cited below in relation to the figures and photographs refer to the catalogue of this collection.

H. C. I. G.-V.

W. H. L.

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