

A
BIBLIOGRAPHY
OF THE
FORAMINIFERA,
RECENT AND FOSSIL,

FROM
1565—1888;

WITH NOTES EXPLANATORY OF SOME OF THE RARE
AND LITTLE-KNOWN PUBLICATIONS.

BY
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PREFACE.

IT is seldom that in the early attempts to compile a catalogue of the literature of a scientific subject, even of limited range, any high degree of completeness has been attained; still the present Bibliography owes much to the labour bestowed upon previous works of the same description.

One of the first authors to compile a list of books and papers relating to the Foraminifera was Ami Boué, who in 1848 published his "Bibliographie der Werke und Abhandlungen über Nummuliten." This was very creditable to the compiler, for it was more difficult then than now to collect together the scattered notices on any subject. It is to Max Schultze, however, that we owe the first general list, namely, that which appeared in his "Organismus der Polythalamien" in 1854; and within a few years a more extended bibliography was drawn up by W. C. Williamson, for his "Recent Foraminifera of Great Britain." Many other compilations have appeared from time to time, notably those of J. L. Neugeboren and Th. Marsson, but these for the most part deal either with limited localities or particular geological formations. In 1884, Henry B. Brady published his "Report on the Foraminifera dredged by H.M.S. *Challenger*," and with it a long and carefully prepared Bibliography, which has been found exceedingly valuable for reference. The *Challenger* bibliography, however, was not intended to be exhaustive, and the additions to previous lists consist to a great extent of titles of publications which had found their way into the author's own library. Later, a bibliographic list has been prepared by Anthony Woodward of New York; but this, though supplying

many references previously overlooked, contains too many errors to be of much scientific service.

The present work, which aims at offering a more exact catalogue than its predecessors, is based upon the Bibliography in the *Challenger* Report, already referred to; but in every case the original papers (except when noted "not seen") have been consulted, and where necessary, the entries have been enlarged or amended. The publications enumerated are arranged under the names of the authors in alphabetical order, that being in practice the most convenient and useful method. A brief explanatory note has in many instances been appended in brackets to the entries, and it is hoped that this will avoid waste of time in making references to papers of little or doubtful value. I have acted on Mr. Brady's view, that it is "not . . . requisite to include the title of every geological treatise in which the mere occurrence of a Nummulitic rock or a Fusulina-limestone happens to be recorded"; nevertheless, I have been careful to examine every paper of this kind noticed by other compilers, and have accepted or rejected it according to its value from a geographical or geological aspect.

Only the more important papers on Eozoön are included, the publication of a complete bibliography of this curious structure being promised shortly by those especially interested in the subject. The literature of certain other organisms, classed occasionally in times past with the Foraminifera, such as *Dactylopora*, *Receptaculites*, and *Archæocyathus*, is omitted from this list in accordance with modern views as to their affinities, except in those instances where the papers recorded expressly discuss their possible foraminiferal nature.

Many papers of interesting character or scientific importance are now recorded for the first time. To the former category belong — CAMERARIUS' papers, 1712, 1717; KLEIN'S, 1754; SCHROETER'S, 1803; and WULFEN'S, 1791; the correction of the hitherto inaccurate references to SPENGLER'S papers; the original place of publication of MODEER'S letter to Soldani; and RICCA'S

“Discorso,” with the engraved portrait of Soldani ;—among those of scientific importance are—the earlier issue of FICHTEL and MOLL (which carries back their specific names five years) ; D’ORBIGNY’S list of the Foraminifera of the Vienna Basin, published by J. VON HAUER seven years before the full descriptions appeared ; the note on D’ORBIGNY’S “Planches inédites ;” BOUÉ’S paper on the Nummulites ; and SILVESTRI’S rare and interesting paper on Soldani’s “Testaceographia.”

For the first time, too, an endeavour has been made to enumerate the important memoirs published by the Hungarian authors with some approach to completeness, and the author is indebted to his friend Dr. Gustav Dirner, of Budapest, for copies of many of the originals.

Much and valuable assistance has been received in the communication of information and in the reading of proofs ; especial thanks being due to Prof. T. Rupert Jones, who also placed at my disposal his books and the whole of his notes and memoranda made whilst occupied in conjunction with Professor W. Kitchen Parker on their critical papers in the *Annals and Magazine of Natural History*. To Mr. H. B. Brady I am indebted for the free use of his library, and for constant kindness and help during the progress of the work ; while Mr. Fortescue W. Millett has kindly put into my hands his own manuscript lists, supplying information with regard to many obscure publications.

Help is also gratefully acknowledged from many friends on the continent. Dr. Carlo Fornasini has favoured me with the sight of some of the rarest of the Italian papers ; Professor Silvestri has made me the fortunate possessor of his rare pamphlet on Soldani ; while to Professor E. Renevier, Professor Dr. E. W. Benecke, Professor A. Gaudry, Dr. Fr. von Hauer, Dr. E. Geinitz, and others, I owe much courteous assistance.

Thanks are also due to the Librarians of the British Museum, the Royal Society, the Geological Society, and others ; and I especially wish to express my indebtedness to Mr. Bernard B. Woodward of the British Museum (Natural History), from whom

I have received invaluable assistance for several years while consulting the magnificent collections of periodical and other scientific literature under his care.

Also, I cannot but refer to the Royal Society's Catalogue of Scientific Publications, and to those indispensable volumes, Engelmann's "Bibliotheca Historico-Naturalis," with the second (Carus & Engelmann) and third (Taschenberg's "Bibliotheca Zoologica") issues. As reference books to scientific literature they have never been equalled, and the test of years has proved their accuracy and general reliability. A continuation of Carus & Engelmann's volumes, so far as concerns Protozoa, Coelenterates, and Worms, bringing the literature in part down to 1883, was published in 1884 by D'Arcy W. Thompson, and this, so far as it goes, will be found a serviceable guide to the allied groups of the Rhizopoda.

Finally, sincere thanks are due to Mr. F. Justen (Dulau & Co.), to whose generosity and scientific sympathies I owe the publication of my manuscript.

CHARLES DAVIES SHERBORN.

540 KING'S ROAD, LONDON, S.W.
August, 1888.

ADDENDA.

THE following (chiefly life-dates) have been received too late for insertion in their proper places :—

- Page 2. ALBERTI, FRIEDRICH VON. 1795–1878.
 „ 3. ALTH, ALOJZY. 1819–1886.
 „ 12. BOLL, ERNST. 1817–1868.
 „ 21. BRUNNER, C.—BRUNNER, CARL [FILIUS]. 1796–1867.
 „ 29. CARTER, H. J.—On the Organic and Inorganic Changes of Parkeria, together with Further Observations on the Nature of the Opaque Scarlet Spherules in Foraminifera.—*Annals Mag. Nat. Hist.*, ser. 6, vol. ii, 1888, pp. 45–55, pl. v. *London.*
 „ 31. COLONNA, FABIO. 1567 (circa)—1650.
 „ 32. CORNALIA, EMILIO. 1824–1882.
 „ 35. CZJZEK, JOHANN. 1806–1855.
 „ 38. DEECKE, W. In the last entry, after “8 pp.” add “pp. 16–23.”
 „ 38. DEECKE, W. Die Foraminiferen-Fauna im Aptien von Carniol (Basse-Alpes).—*Mitth. nat. Ver. Neu-Vorpommern und Rügen*, Jahrg. 19, 1887 (1888), pp. 40–45. *Berlin.*
 „ 51. FONTANNES, F. 1802–1886.
 „ 83. KRAUSE, ARTHUR. Ueber das Vorkommen von Foraminiferen in einem Jurageschiebe.—*Sitz. Ges. Nat. Freunde Berlin*, 1888, pp. 38, 39. *Berlin.*
 „ 92. MARTENS, GEORG MATTHIAS VON. 1788–1872.

ERRATA.

- Page 3. ALTH, ALOJZY.—*For—1888, read 1819–1886.*
 „ 4. ANNONE.—*Delete this entry,—the paper—De Petrificatis quibusdam minus cognitis, Acta Helvetica, vol. iv, Basileæ, 1760, pp. 275–287,—deals with Echinoderms.*
 „ 9. BELLARDI, LUIGI.—Omit date after name.
 „ 13. BOUÉ, AMI.—*For Bericht u., read Berichte ii.*
 „ 47. EHRLICH, CARL.— „ „ „
 „ 57. *For GINANI read GINANNI.*
 „ 74. JOLY, N., and LEYMERIE. The second paper is also by *both* these authors.
 „ 87. LEYMERIE (fourth entry).—*For Sabott, read Saboth.*
 „ 103. OLSZEWSKI.—After *Umiej* for , read .

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[Mention only.]

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[Referred to by Schroeter, in 1803, as Testac. arenulae, &c. The full title is taken from *Bibl. Hist.-Nat.*, Engelmann, 1846. Evidently another issue of the very rare “Sechs Kupfertafeln.” There is no copy in the library at Jena, nor can I find any trace of it elsewhere than in Schroeter and Engelmann].

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[M. M. Murlon has kindly put me into communication with the son of the late M. I. Beissels, who tells me that his father's work was never published, but is in the hands of Prof. —, who has consented to see it through the press.]

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[This vol. x was never printed. Separate copies of some of the papers intended for publication seem to have been printed and distributed by the authors—they are very rare. I am indebted to my friend Dr. C. Fornasini for particulars of a copy in Prof. Capellini's library; it consists of 25 pp. with a sheet of geological sections, and contains a list of fossils, amongst which are a few Foraminifera.]

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[Mr. Shrubsole had a photograph taken of his drawings of the Foraminifera found, which he distributed amongst his friends.]

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[I am indebted to Dr. Fornasini of Bologna for the sight of this rare paper on Soldani. The *Atti x*, of the *Congr. Sci. Ital.*, is invariably wanting in libraries, and we are told by Scudder in his Catalogue that it was suppressed by order of the Pope of the time. Of this, however, I cannot get any evidence, but it is certain that the book was never published. The paper consists of 18 pp. 4to., and is of great interest in connexion with d'Orbigny's, Parker, Jones, and Brady's, and Fornasini's critical papers on the books of the great Siennese naturalist.

[Since this note was written, Prof. Silvestri has generously given me a copy of his paper.]

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