

**GUIDE TO THE SHELL AND STARFISH
GALLERIES (MOLLUSCA,
ECHINODERMATA, VERMES) IN THE
DEPARTMENT OF ZOOLOGY OF THE
BRITISH MUSEUM (NATURAL HISTORY)**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649398607

Guide to the Shell and Starfish galleries (Mollusca, Echinodermata, Vermes) in the Department of Zoology of the British Museum (Natural History) by Albert Gunther

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

ALBERT GUNTHER

**GUIDE TO THE SHELL AND STARFISH
GALLERIES (MOLLUSCA,
ECHINODERMATA, VERMES) IN THE
DEPARTMENT OF ZOOLOGY OF THE
BRITISH MUSEUM (NATURAL HISTORY)**

0

GUIDE
TO THE
SHELL AND STARFISH
GALLERIES
(MOLLUSCA, ECHINODERMATA, VERMES)
IN THE
DEPARTMENT OF ZOOLOGY
OF THE
BRITISH MUSEUM (NATURAL HISTORY).

ILLUSTRATED BY 51 WOODCUTS AND 1 PLAN.

^{C'}
PRINTED BY ORDER OF THE TRUSTEES.
1887.

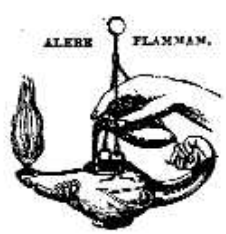
~~1848~~



~~Z9.5 L2.10~~

KE34701

Trustees of
British Museum.



PRINTED BY TAYLOR AND FRANCIS,
RED LION COURT, FLEET STREET.

PREFACE.

ONE of the large side-galleries approached from the Bird Gallery is devoted to the exhibition of the extensive Class of Mollusca. Specimens of the types of all the principal divisions of this Class are exhibited, either entire and preserved in spirit, or as models. However, as not the animals, but their shells have always been a favourite object of study, and a popular source of pleasure to collectors, the exhibition of the species of shells has been made as complete as the space of this Gallery admitted. It has thus proved adequate for the requirements of the majority of visitors who consult this Collection.

The Starfish Gallery, so called from one of the best-known types of the Echinodermata, contains an exhibition of the animals of this Class, as well as of the somewhat heterogeneous assemblage of creatures which are comprised under the popular name of Worms (*Vermes*). These animals possess greater attraction to students of Natural History than to the general public, and many, from their small size or the soft nature of their body, are not fit for exhibition. Therefore no attempt has been made to show more than a

carefully selected number of the types of the larger groups. But the exhibition of very complete series, supplemented by models or figures, to illustrate the remarkable life-history of some of these animals, also of specimens of the Worms which possess a special interest from their relation to man, render this Gallery particularly instructive to the student.

In the preparation of this Guide I have received much assistance from Mr. E. A. SMITH and Mr. F. J. BELL, the Assistants in charge of these Collections.

ALBERT GÜNTHER,
Keeper of the Department of Zoology.

British Museum, N. H.,
April 14, 1887.

TABLE OF CONTENTS.

THE SHELL GALLERY.

	Page
General Notes on Mollusca	1
Their Systematic Arrangement	7
Cephalopoda (Octopus, Cuttlefish, &c.)	8
Pteropoda	13
Gastropoda (Shells, Snails, &c.)	14
Scaphopoda (Tooth-shells)	32
Pelecypoda (or Bivalves, Oysters, &c.)	33
General Notes on Brachiopoda	47
Alphabetical Index of Genera of Mollusca.	49

THE STARFISH GALLERY.

General Notes on Echinodermata	53
Crinoidea	60
Asteroidea (Starfishes)	61
Ophiuroidea (Brittle-stars)	61
Echinoidea (Sea-Urchins)	62
Holothuroidea (Sea-Cucumbers)	62
General Notes on Vermes	63
Platyhelminthes (Tapeworms, Flukes)	63
Nematodes (Round-Worms, Trichina, &c.)	65
Annulata (Marine Worms, Earthworms, Leeches)	69

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

THE SHELL GALLERY.

GENERAL NOTES ON MOLLUSCA.

THE MOLLUSCA constitute one of the principal divisions of the Animal Kingdom, and include such animals as the Octopus, Cuttlefish, Snail, Slug, Whelk, Cockle, and Oyster.

They may be characterized as soft cold-blooded animals, without distinctly marked external division into segments (as in Worms); their cerebral ganglia lie above the commencement of the œsophagus, and are connected with the inferior ganglia by nerve-chords. Their heart consists of two or more chambers, and is situated on the dorsal side of the animal; it drives the blood into spaces between the various organs of the body. Only the Cephalopods possess internal cartilages, but all are without an osseous endo-skeleton; in the majority this is compensated by an external hardened shell which is formed (secreted) by the outer covering of the animal termed the *mantle*. The shell may consist of two parts (valves), as in the Oyster, or may be single, as in the Limpet, or composed of a series of plates, as in the "Coat-of-mail" shells or *Chitons*: when well developed it is hardened by a rich deposit of carbonate of lime; but it may be gelatinous, as in *Cymbulia*, or altogether absent, as in *Octopus*; it may invest the body, as in the Oyster, lie within the folds of the mantle, as in the Sea-hares (*Aplysia*),

Definition.

The shell.