

Cambridge University Press

978-0-521-42048-8 - Gideon Mantell and the Discovery of Dinosaurs

Dennis R. Dean

Frontmatter

[More information](#)

## Gideon Mantell and the Discovery of Dinosaurs

*Gideon Mantell and the Discovery of Dinosaurs* is a thorough but accessible biography – the first scholarly one – of a pioneering dinosaur hunter and paleontologist whose legendary achievements have been portrayed – not always accurately – in dozens of popular books about dinosaurs. How Gideon Algernon Mantell (1790–1852) actually discovered *Iguanodon*, the second dinosaur known to science and the first herbivorous one, is at last set right in this volume. It is not commonly known that Mantell also discovered seven other dinosaurs as well, proving at a time when majority opinion thought otherwise that they were not amphibious but walked on land – and sometimes on two legs. He devoted more than twenty-five years to restoring the original appearance of dinosaurs and almost single-handedly established in popular understanding the now-familiar idea that an Age of Reptiles had preceded the Age of Mammals. Honored by both the Royal and Geological societies for his scientific accomplishments, Mantell was closely associated with the outstanding naturalists of his day, including James Parkinson, William Buckland, Georges Cuvier, Robert Bakewell, Charles Lyell, Roderick Murchison, Michael Faraday, Charles Darwin, Louis Agassiz, and Richard Owen. He also corresponded for twenty years with Benjamin Silliman of Yale and had many interactions with other Americans.

Dennis R. Dean, Ph.D., a retired academic, is the author of *James Hutton and the History of Geology*, introductions and chapters in several books, important studies of Tennyson and Keats, and scholarly essays in such journals as *Isis*, *Annals of Science*, *Modern Geology*, and *Philological Quarterly*. He is presently the general editor of a history of the earth sciences reprint series.

Cambridge University Press

978-0-521-42048-8 - Gideon Mantell and the Discovery of Dinosaurs

Dennis R. Dean

Frontmatter

[More information](#)



Gideon Algernon Mantell (1790–1852). Engraved by W. T. Favey (ca. 1850) from a drawing by Pierre Senties and photographs by John Mayall (Sussex Archaeological Society).

Cambridge University Press

978-0-521-42048-8 - Gideon Mantell and the Discovery of Dinosaurs

Dennis R. Dean

Frontmatter

[More information](#)

---

# Gideon Mantell and the Discovery of Dinosaurs

DENNIS R. DEAN



**CAMBRIDGE**  
UNIVERSITY PRESS

Cambridge University Press  
 978-0-521-42048-8 - Gideon Mantell and the Discovery of Dinosaurs  
 Dennis R. Dean  
 Frontmatter  
[More information](#)

PUBLISHED BY THE PRESS SYNDICATE OF THE UNIVERSITY OF CAMBRIDGE  
 The Pitt Building, Trumpington Street, Cambridge CB2 1RP, United Kingdom

CAMBRIDGE UNIVERSITY PRESS  
 The Edinburgh Building, Cambridge CB2 2RU, UK <http://www.cup.cam.ac.uk>  
 40 West 20th Street, New York, NY 10011-4211, USA <http://www.cup.org>  
 10 Stamford Road, Oakleigh, Melbourne 3166, Australia

© Dennis R. Dean 1999

This book is in copyright. Subject to statutory exception  
 and to the provisions of relevant collective licensing agreements,  
 no reproduction of any part may take place without  
 the written permission of Cambridge University Press.

First published 1999

Printed in the United States of America  
 Typeset in Sabon 10/12 pt. in QuarkXPress™ 4.0 [AG]

*A catalog record for this book is available from  
 the British Library.*

*Library of Congress Cataloging-in-Publication Data*

Dean, Dennis R.

Gideon Mantell and the discovery of dinosaurs / Dennis R. Dean.

p. cm.

Includes bibliographical references and index.

ISBN 0-521-42048-2 (hardbound)

1. Mantell, Gideon Algernon, 1790-1852. 2. Paleontologists –  
 England – Biography. 3. Iguanodon. I. Title.

QE22.M32D43 1999  
 560'.92 – dc21

[B]

98-16448  
 CIP

ISBN 0 521 42048 2 hardback

Cambridge University Press

978-0-521-42048-8 - Gideon Mantell and the Discovery of Dinosaurs

Dennis R. Dean

Frontmatter

[More information](#)

---

In Memoriam  
Walter Baldock Durrant Mantell  
1820–1895

## Contents

<i>List of Illustrations</i>	<i>page</i> viii
<i>Acknowledgments</i>	ix
<i>Editorial Notes</i>	xiii
<i>List of Abbreviations</i>	xv
1 Castle Place	I
2 Oryctology	19
3 Fossils of the South Downs	36
4 Iguanodon	52
5 The Geology of Sussex	86
6 Hylaeosaurus	106
7 Old Steine	126
8 Wonders of Geology	150
9 Crescent Lodge	171
10 Medals of Creation	192
11 Chester Square	216
12 Petrifactions and Their Teachings	236
Epilogue: Norwood Park	259
<i>Stratigraphic Table</i>	268
<i>Index</i>	281

Cambridge University Press

978-0-521-42048-8 - Gideon Mantell and the Discovery of Dinosaurs

Dennis R. Dean

Frontmatter

[More information](#)

## *Illustrations*

Map of southeast England	<i>page</i> 3
1.1 Medical composite	12
1.2 Medical exam, 1811	17
2.1 Geological composite	27
3.1 The Weald	39
3.2 South Downs composite	44
4.1 G. F. Richardson frontispiece	57
4.2 Quarry composite	64–65
4.3 Historic teeth composite	74
4.4 The Hunterian Museum	82
5.1 <i>Iguanodon</i> teeth composite	93
6.1 <i>Hylaeosaurus</i>	112
6.2 <i>Iguanodon</i> reconstructed	121
6.3 Reptiles restored	123
7.1 Maidstone <i>Iguanodon</i>	133
7.2 Quarry of Kentish Rag near Maidstone	134
7.3 Gideon Mantell cartoons	138
8.1 Swanage Crocodile	153
8.2 Country of the <i>Iguanodon</i>	167
9.1 Annotated catalog	172
9.2 Gideon Mantell drawings, 1841	179–180
9.3 <i>Megalosaurus</i> and <i>Pterodactyl</i> restored	186
9.4 <i>Iguanodon</i> and <i>Hylaeosaurus</i> restored	186
10.1 “Bird” tracks and trackmaker	196
10.2 <i>Dinornis Maximus</i>	198
12.1 Four dinosaurs composite	238
12.2 New Zealand composite	247
12.3 <i>Telerpeton</i>	253

Cambridge University Press

978-0-521-42048-8 - Gideon Mantell and the Discovery of Dinosaurs

Dennis R. Dean

Frontmatter

[More information](#)

## *Acknowledgments*

My knowledge of Gideon Mantell's life prior to 1818 derives almost entirely from previously unutilized manuscripts and documents at the Alexander Turnbull Library, Wellington, New Zealand, together with a few newspaper items. Thereafter I extract many specifics from his private journal, the original of which is also at the Turnbull. E. Cecil Curwen's still helpful edition of that journal (1940) derived from an incomplete, sometimes faulty typescript commissioned by his father, of which Curwen published less than half. The final pages of Mantell's journal were not included in the typescript and came to light only in 1982, when I discovered them among his son Reginald's papers at the Turnbull. Mantell's revealing correspondence with Benjamin Silliman of Yale, begun in 1830, is another frequent source. Sidney Spokes diligently transcribed (but often failed to date) many of the same letters in his much-abridged 1927 biography of Mantell, the only previous one. Neither he nor Curwen had any real knowledge of the Mantell papers in New Zealand and neither was primarily interested in Gideon as a paleontologist. My version of his life is therefore significantly different from either of theirs, being fuller, more paleontological, and a good deal more reliable. Like all Mantell scholars since, however, I have benefited from their work.

I first visited Wellington, and the Alexander Turnbull Library (the national library of New Zealand), in July 1977 while en route home from a teaching assignment in Asia. Despite some preceding correspondence, I had not anticipated the astonishing richness of the Turnbull's Mantell Family Papers, an extensive but then relatively unknown resource for the study of British geology which I described in a short essay (1977), now superseded. Even so, it was not immediately apparent to me that this book had begun. My return to New Zealand some years later was funded by the National Science Foundation, a U.S. government agency. Without that grant (SES-8206469), this book would not have been possible. I wish very much to thank the Chief Librarians and their staffs at the Turnbull for courteous assistance then and since. The New Zealand Institute



Cambridge University Press

978-0-521-42048-8 - Gideon Mantell and the Discovery of Dinosaurs

Dennis R. Dean

Frontmatter

[More information](#)

x

*Acknowledgments*

of Geological & Nuclear Sciences, the National Museum, and Victoria University generously permitted access to Mantell memorabilia in their possession. Among my individual New Zealand friends, Sir Charles (now deceased) and Lady Fleming were outstandingly gracious. Along with them, I gratefully remember Kerry Forsell and her family, George Henderson, Mike Daly, and the management and staff of the now defunct Carlton Hotel. John Yaldwyn, Director of the Museum when I was there, and A. P. Mason, of the Geological Society of New Zealand (Auckland), furthered my New Zealand interests most assiduously as this book was in its final stages of preparation.

Among (or in addition to) many British institutional staff members, I wish to thank Cyril Pike, the late Stephen Moore, Dr. Rendel Williams and his family, John Bleach, Joyce Crow, Thomas Bowen, Elizabeth Burdett, Norah Archer, Peggy Guido, J. B. Delair, Roy Porter, Charlotte MacKenzie, Jim Secord, John Thackray, Mary Sampson, Fiona Eldridge, the late Alan J. Charig, Ron Clevely, William Edmonds, Rodney Steel, Brian Latimer, and Richard Stutely. Among the many persons who furnished useful information, I particularly wish to acknowledge Dr. Colin and Judith Brent, David Norman, Alan Shelley, the late Joan Eyles, Eric E. F. Smith, Patricia Gill, Dr. J. A. Edwards, Peter McKay, Alison McCann, Ian F. Lyle, M. D. Crane, Philippe Taquet, Mrs. A. D. Morris, Rowland C. Swift, Virginia Murray, Tom Sharpe, Hugh Torrens, John A. Cooper, W. A. S. Sarjeant, Garry J. Tee, Adrian Desmond, Christopher Hamel Cooke, R. J. G. Savage, and Richard L. Smith.

For researching Gideon Mantell, the most important British manuscript collections are those held by the British Museum (Natural History), Cambridge University Library, the Royal Society, the Geological Society, the East Sussex Record Office, the Sussex Archeological Society, the West Sussex Record Office, and Castle Museum, Norwich. John Murray, Ltd. and Lord Northampton own particularly significant private collections; that of the Eyles' has since moved to Bristol University. Further GM items can be found at the Fitzwilliam Museum, Cambridge; Edinburgh University Library, the British Library, the Royal College of Surgeons, University College, London, the Museum of the History of Science at Oxford, and the National Museum of Wales. The BL (Colindale) and Brighton Reference Library preserve relevant newspapers.

My research at Yale was funded in part by a grant from the National Endowment for the Humanities, a U.S. government agency. For aid while there I wish to thank John Ostrom, Barbara Narendra, and Judith Ann Schiff. Before coming to Yale I had already been well served by its library staff for some years. Though Yale is certainly the chief repository of Mantelliana in America, the American Philosophical Society, Philadelphia, holds

*Acknowledgments*

xi

more than fifty important letters. The Historical Society of Pennsylvania, the Academy of Natural Science, and Harvard University Library also provided useful manuscript material. Other contributing American institutions include the Library of Congress, the Newberry Library, the university libraries at Madison and Urbana, Northwestern University (Janet Ayers especially), the Folger Library, and the Smithsonian Institution. Through correspondence, I was also able to utilize important GM letters at the Bibliotheque Central du Museum National d' Histoire Naturelle, the Institut de France, and the Geological Society of Paris.

For permission to use materials in their possession, I wish to thank the institutions cited, whether in New Zealand, the United States, Britain, or France. In my quotations from nineteenth-century sources, as noted below, certain accidentals have been modernized for the reader's convenience, but my preferred geological and paleontological terminology is that of Mantell and his times. Similarly, my text and illustrations are devoted to conceptions of the dinosaur (and other prehistoric creatures) prevalent in the second quarter of the nineteenth century, with only brief indications where needed that some of them are no longer current.

For my illustrations I am indebted to the courtesy of a number of institutions and individuals, including (frontispiece) Joyce Crow and the Sussex Archaeological Society, Lewes; (map) Richard Allen Thompson of Evanston; (1.2) Margaret Kaiser and the National Library of Medicine, Bethesda, Maryland; (7.1a) Brian Latimer, Richard Stutely, and the Maidstone Museum, Kent; (9.2, 12.1) Mary Sampson and the Royal Society of London; (12.3) Judith Ann Schiff and Yale University; and (5.1, 6.2b, 9.1, 9.3, 9.4) Martin Pulsford and the Natural History Museum. Other photo work (map, 3.1, 4.1, 4.2a,c,d, 4.4, 6.1, 6.2a, 7.1b, 8.1, 8.2, 10.1, 10.2, 12.3a), was by CIMA Graphics of Evanston from originals or copies in my possession.

The remaining illustrations (1.1, 2.1, 3.2, 4.2b, 4.3, 6.3, 7.2, 7.3, and 12.2), many of them composites, were completed for me by staff members of the Alexander Turnbull Library. I wish to thank Marian Minson, Curator, Drawings & Prints; David Retter, Manuscripts Librarian; Mary Cobeldick, Reference Librarian, all of ATL; and Anna Sanderson, Photographer, National Library of New Zealand. Margaret Calder, Chief Librarian, Alexander Turnbull Library; Ian Keyes, Curator, Macrofossil Collection, Institute of Geological & Nuclear Sciences, Lower Hutt, NZ; and Dr. John Yaldwyn, Retired Director, Museum of New Zealand, Wellington, graciously provided access to materials under their supervision.

In commemoration of the subject of this biography, a Mantell Bicentenary Symposium (at which I had the honor of being the keynote speaker) was held at the University of Sussex, Falmer, in 1990. I therefore extend

Cambridge University Press

978-0-521-42048-8 - Gideon Mantell and the Discovery of Dinosaurs

Dennis R. Dean

Frontmatter

[More information](#)

---

xii

*Acknowledgments*

further gratitude to its organizers, its participants, and all others who helped to make the Symposium possible. The text of my address was published in the *Journal of Geological Education*, 38 (1990), 434–443.

At Cambridge University Press, I was ably served by Alex Holzman, history of science editor; Helen Wheeler, production editor; and Patricia Woodruff, copy editor. I owe special thanks also to my literary agent, Julian Bach, who brought CUP and me together.

Evanston, Illinois

Cambridge University Press

978-0-521-42048-8 - Gideon Mantell and the Discovery of Dinosaurs

Dennis R. Dean

Frontmatter

[More information](#)

## Editorial Notes

The earlier years of Gideon Mantell's life were revolutionary ones, not only in politics, economics, and technology, but also in society, behavior, dress, outlook, understanding, and expression. Language especially was unstable. As literacy spread to lower economic classes not previously possessed of it, neoclassical regularities dissolved. In correspondence particularly, syntax became a good deal looser and more spontaneous. Punctuation and capitalization were erratic. Victorian grammarians and editors would eventually restore something like the formality we take for granted, but most of my sources for this book were written hurriedly in a sprawling, irregular idiom that now is difficult to read. When Gideon and others of his generation published such hastily composed material, they normally revised it; scholars will perceive that I have conservatively followed the earlier example. Throughout this book, therefore, quotations are meticulous but not invariably verbatim, having been enhanced where necessary with modern pointing and other stylistic incidentals.

The terms "geology" and "geologist" were uncommon anywhere before the 1790s. Then and later, fossils often appeared as "petrifications" or "organic remains." The science of paleontology was not so called in England before the latter 1830s; an earlier term, "oryctology," dropped out of use soon after 1822. "Geology" then regularly included the study of fossils. "Dinosaur," coined in 1842, and "scientist," from a few years earlier, did not immediately gain acceptance. Names of formations, geological periods, and other now-familiar technicalities also emerged gradually. Since changes in language necessarily accompanied developments in science, a modern dictionary will not always reveal the nineteenth-century meanings of some words important to this book. My stratigraphic table and a few helpful definitions are therefore appended.

Classifying plants and animals binomially (into genera and species) had been usual since the mid-eighteenth century, but new discoveries were often identified only by genus – and frequently reidentified by others. Generic names (i.e., *Iguanodon*) were regularly capitalized but often not italicized. Specific names derived from proper nouns were also capitalized

Cambridge University Press

978-0-521-42048-8 - Gideon Mantell and the Discovery of Dinosaurs

Dennis R. Dean

Frontmatter

[More information](#)

xiv

*Editorial Notes*

(*Iguanodon Mantelli*). Now that various dinosaurs are well-known, however, some people speak no less familiarly of iguanodons than of cows. I therefore prefer a down style where possible. Contrarily, nineteenth-century writers often left important stratigraphical designations, like “Tertiary,” uncapitalized. In the consistent modern usage I have followed, “Chalk” is the name of a formation; “chalk,” of a rock.

Royalty and aristocracy throughout Europe ranked in part as follows: king and queen, prince and princess, duke and duchess, marquis (marquess in England) and marchioness, earl and countess, baron and baroness, and baronet or knight and dame. In England the king’s sons were dukes as well as princes, multiple titles being common at all the higher levels. One addressed earls and other hereditary noblemen as “Lord Northampton”; a lifetime-only baronet or knight became “Sir Charles.” The wife or daughter of a lord expected to be called “Lady,” as did the wife of a baronet or knight. Among Gideon’s generation, only servants and lesser family members were commonly addressed by their unadorned first names.

Nineteenth-century British money consisted of pence, shillings, pounds, and guineas, with twelve pence to a shilling and twenty shillings to a pound. The latter could be either a banknote or a coin (“sovereign”). If not spelled out, amounts are given here as £10/6/4 or as 2s/6p (though the normal abbreviation for pence was “d”). The guinea, no longer a coin itself but still commonly referred to, consisted of one pound and one shilling. £10/10/0, therefore, represented ten and a half pounds, ten pounds ten shillings, or ten guineas. In transatlantic exchanges the pound was worth about five American dollars.

Cambridge University Press

978-0-521-42048-8 - Gideon Mantell and the Discovery of Dinosaurs

Dennis R. Dean

Frontmatter

[More information](#)

## Abbreviations

AJSA	<i>American Journal of Science and Arts</i> (ed. BS)
AJW	Alfred James Woodhouse
AMNH	<i>Annals and Magazine of Natural History</i>
<i>Animalcules</i>	GM, <i>Thoughts on Animalcules</i> (1846)
Anon.	Anonymous author
APS	American Philosophical Society, Philadelphia
AS	Adam Sedgwick (professor of geology at Cambridge University)
ATL	Alexander Turnbull Library (the national library of New Zealand, Wellington; repository of the Mantell Family Papers)
b.	born
BAAS	British Association for the Advancement of Science (founded 1831)
bapt.	baptized
<i>BGaz</i>	<i>Brighton Gazette</i> (weekly newspaper)
<i>BGrd</i>	<i>Brighton Guardian</i> (weekly newspaper)
BH	<i>Brighton Herald</i> (weekly newspaper)
BM	British Museum
BMNH	British Museum (Natural History); not then a separate institution
BS	Benjamin Silliman (of Yale)
Buckland, <i>Life</i>	Anna B. Gordon (daughter), <i>The Life and Correspondence of William Buckland, D.D., F.R.S.</i> (London, 1894)
CUL	Cambridge University Library

Castle Ashby	Compton Family Papers, Castle Ashby, Northamptonshire (private)
Charig	Alan Charig, <i>A New Look at the Dinosaurs</i> (1979)
CK	Charles König (of the BM)
CL	Charles Lyell
ca.	circa (at about this date)
Curwen	Edward Cecil Curwen or his edition of GM's J (1940)
d.	died
<i>DAB</i>	<i>Dictionary of American Biography</i>
DG	Davies Gilbert (formerly Giddy)
<i>DNB</i>	<i>Dictionary of National Biography</i> (British)
DRD	The author
<i>DSB</i>	<i>Dictionary of Scientific Biography</i>
EB	Etheldred Benett
EC	Elizabeth Cobbold
EMM	Ellen Maria Mantell (daughter)
<i>ENPJ</i>	<i>Edinburgh New Philosophical Journal</i>
esp.	especially
ESRO	East Sussex Record Office (Lewes)
FMC	Fitzwilliam Museum, Cambridge
<i>Foss SD</i>	GM, <i>The Fossils of the South Downs</i> (1822)
F. R. S.	Fellow of the Royal Society
<i>G&amp;M</i>	WB, <i>Geology and Mineralogy</i> (1836)
GBG	George Bellas Greenough
GC	Georges Cuvier
<i>Gent Sci</i>	Jack Morrell and Arnold Thackray, <i>Gentlemen of Science</i> (early years of the BAAS; 1981)
Geol Exp	GM, Geological Expeditions (notebook, ATL)
<i>Geol SE Engl</i>	GM, <i>Geology of the South-East of England</i> (1833)
GFR	George Fleming Richardson
GM	Gideon Mantell
GS	Geological Society (of London; founded 1807)

Cambridge University Press

978-0-521-42048-8 - Gideon Mantell and the Discovery of Dinosaurs

Dennis R. Dean

Frontmatter

[More information](#)*Abbreviations*

xvii

<i>Hist GS</i>	Horace B. Woodward, <i>History of the Geological Society of London</i> (1907)
HMM	Hannah Matilda Mantell (daughter)
Horsfield	Thomas W. Horsfield, <i>History and Antiquities of Lewes</i> (1824, 1827)
<i>Illus</i>	GM, <i>Illustrations of the Geology of Sussex</i> (1827)
incl.	including
J	GM, journal (ATL)
JBP	Joseph Barclay Pentland
JD	James Douglas
JH	John Hawkins
JM	John Murray (publisher)
JP	James Parkinson
JS	James Sowerby
<i>JSBNH</i>	<i>Journal of the Society for the Bibliography of Natural History</i>
JSM	Johann S. Miller (formerly Müller)
LA	Louis Agassiz
LB	Lambart Brickenden
<i>LGJ</i>	<i>London Geological Journal</i>
<i>Lit Gaz</i>	<i>Literary Gazette</i>
LL.D.	Doctor of Laws ( <i>Legum Doctor</i> )
<i>LLJ</i>	<i>Life, Letters, and Journals of Sir Charles Lyell</i> , ed. K. M. Lyell (1881)
Longman	Longman archives, University of Reading
LS	Linnaean Society (London)
MAL	Mark Anthony Lower or his <i>The Worthies of Sussex</i> (1865)
MAM	Mary Ann Mantell (wife)
<i>Medals</i>	GM, <i>Medals of Creation</i> (1844)
MM	Mantellian Museum
M.R.C.S.	Member of the Royal College of Surgeons
ms	manuscript



Cambridge University Press

978-0-521-42048-8 - Gideon Mantell and the Discovery of Dinosaurs

Dennis R. Dean

Frontmatter

[More information](#)

xviii

*Abbreviations*

Murray	John Murray (Publishers) Ltd. archives (private)
<i>Narrative</i>	GM, <i>A Narrative of the Visit of . . . William IV . . . to . . . Lewes on the 22nd of October 1830</i> (1831)
n.d.	original not dated
ns	new series (of a periodical)
NZ	New Zealand
OM	Ordinary Minutes (of the GS)
<i>Org Rem</i>	JP, <i>Organic Remains of a Former World</i> (1804–1811)
<i>Owen, Life</i>	Rev. R. Owen (grandson), <i>The Life of RO</i> (1894)
Paris	Museum National d'Histoire Naturelle, Paris
Paris, Inst	Bibliothèque de l'Institut de France, Paris
<i>Petrif</i>	GM, <i>Petrifactions and Their Teachings</i> (1851)
<i>Pict Atlas</i>	GM, <i>A Pictorial Atlas of Fossil Remains</i> (1850)
PL	Pentland letters, ed. Sarjeant and Delair (1980)
PRO	Public Record Office (London)
<i>Proc</i>	<i>Proceedings</i> (of a learned society)
PT	<i>Philosophical Transactions</i> (RS, London)
<i>QJGS</i>	<i>Quarterly Journal</i> of the GS (1845ff.)
<i>Ramble</i>	GM, <i>A Day's Ramble in . . . Lewes</i> (1846)
RB	Robert Bakewell
RCS	Royal College of Surgeons (London)
<i>Recherches</i>	GC, <i>Recherches sur les ossements fossiles</i> (1812)
Reg J	RNM, journal (ATL)
rev.	review
RIM	Roderick Impey Murchison
RNM	Reginald Neville Mantell (son)
RO	Richard Owen
RS	Royal Society (London)
SA	<i>Sussex Advertiser</i> (newspaper, Lewes)
SAS	Sussex Archaeological Society (Lewes)
SGM	Samuel George Morton (of Philadelphia)
Spokes	Sidney Spokes or his <i>Gideon Algernon Mantell</i> (biography, 1927)

Cambridge University Press

978-0-521-42048-8 - Gideon Mantell and the Discovery of Dinosaurs

Dennis R. Dean

Frontmatter

[More information](#)*Abbreviations*

xix

SRI	Sussex Royal Institution
SSLI	Sussex Scientific and Literary Institution
St. Bart's	Saint Bartholomew's Hospital (London)
SW	Samuel Woodward (of Norwich)
SWA	<i>Sussex Weekly Advertiser</i> (newspaper, Lewes); later, SA
TH	Thomas Hawkins
TJB	Thomas James Birch
TL	Thomas Longman (publisher)
<i>Town Book</i>	<i>Town Book of Lewes</i> , ed. V. Smith (1972, 1976)
<i>Trans</i>	<i>Transactions</i> (of a learned society)
TW	Thomas Webster
UCL	University College London
WB	William Buckland (professor of geology and mineralogy at Oxford; Dean of Westminster)
WBDM	Walter Baldock Durrant Mantell (son)
WC	William Clift (of RCS)
WCW	William Crawford Williamson
WDC	William Daniel Conybeare
WHB	William Harding Bensted
WHF	William Henry Fitton
<i>Wight</i>	GM, <i>Geological Excursions Round the Isle of Wight</i> (1847)
Wilson	Leonard G. Wilson, <i>Charles Lyell</i> (1972)
<i>Wonders</i>	GM, <i>The Wonders of Geology</i> (1838)
WSRO	West Sussex Record Office (Chichester)
WW	William Whewell
Yale	Sterling Library, Yale University (Silliman Family Papers)
ZS	Zoological Society (London)

GM-BS = writer and recipient of a letter

BS-GM, 3, 28 July 1830 = two separate letters

GM-BS, 2 &amp; 26 Sept 1840 = one letter written on two separate days

Some missing dates have been supplied.