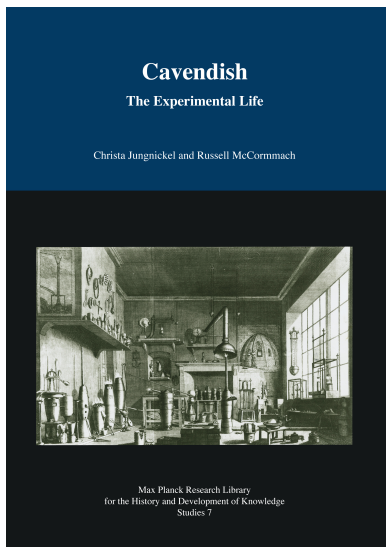


# Max Planck Research Library for the History and Development of Knowledge

## Studies 7

*Christa Jungnickel and Russell McCormach:*

Appendix I: Family Trees



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## Appendix I: Family Trees

### Cavendish and Grey Family Trees

A biography of Henry Cavendish necessarily takes into account his social position. Both of Cavendish's paternal and maternal grandparents were dukes and duchesses. The family trees in this appendix begin with the grandparents and their siblings, follow with his parents' generation and then his own, and end with the one after his. By definition he was related to them all, though in most cases the relationship was not close, and he probably met only a small fraction of them, but because in eighteenth-century England, "family pride was such that members were usually well aware of distinguished connections,"<sup>154</sup> he would have known about them. Although he associated mainly with persons drawn from another society, one of his own choosing, that of scientific colleagues, he did not abandon the one he was born into, nor could he have. We recognize his aristocratic roots by his style of living, his property, and his will, which left his vast fortune to Cavendishes close to the center of the clan. The dukedom would eventually pass to descendants of his principal heir Lord George Augustus Henry Cavendish, who appears in the last column of the Cavendish family tree. Unless readers of this book are specialists in the history of the period, the names are unfamiliar to them, but they cannot miss the titles that go with them. Dukes, duchesses, and earls are commonplace, as is often great wealth. The family trees reflect the obligation of the head of the family to reproduce himself, taking the form of large families to insure a male heir. They also reflect the fragility of life at the time, even for the most privileged. Five children of the second duke of Devonshire died before their parents. Five children of the first duke, his father, not shown, died before their parents. All five sons of the Duke of Kent died before him, extinguishing the Kent line. Marriages normally, though not always, took place between persons of more or less the same social standing. Not shown on the family charts are illegitimate children, of which the first duke of Devonshire had several, born of unions with an actress and an aspiring actress. The family trees show that many members of the extended Cavendish family did not marry. As a wealthy, single aristocrat, Cavendish was not out of the ordinary. The two family trees in the following pages are nearly complete and, within the limits of their sources, accurate.<sup>155</sup>

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<sup>154</sup>John Cannon (1984, 28).

<sup>155</sup>The main sources used in developing the family trees are the following. Printed books such as Burke's, Cokayne's, and Debrett's peerages and the *Dictionary of National Biography*. Online genealogical resources such as "The Peerage." Wills from the main probate court in England, the Prerogative Court of Canterbury. Memorials: for the Cavendish family, a record of dates of death and ages of members of the family interred by custom in All Saints Church in Derby; for the Grey family, photographs taken inside the Grey Mausoleum in Flitton, Bedfordshire. *Burke's Peerage and Baronetage*, 106th ed. C. Mosley, 2 vols. (Crans, Switzerland: Burke's Peerage, 1999). George Edward Cokayne, *The Complete Peerage of England, Scotland, Ireland, Great Britain and the United Kingdom: Extant, Extinct, or Dormant*, vols. 1–3 (Gloucester: A Sutton, 1982). *Debrett's Peerage and Baronetage* (2008). John Charles Cox and William Henry St. John Hope, *The Chronicle of Collegiate Church or Free Chapel of All Saints Derby* (London, 1881). "The Peerage: A Genealogical Survey of the Peerage of Britain as Well as the Royal Families of Europe," compiled by D. Lundy (<http://www.thepeerage.com>). English Heritage,

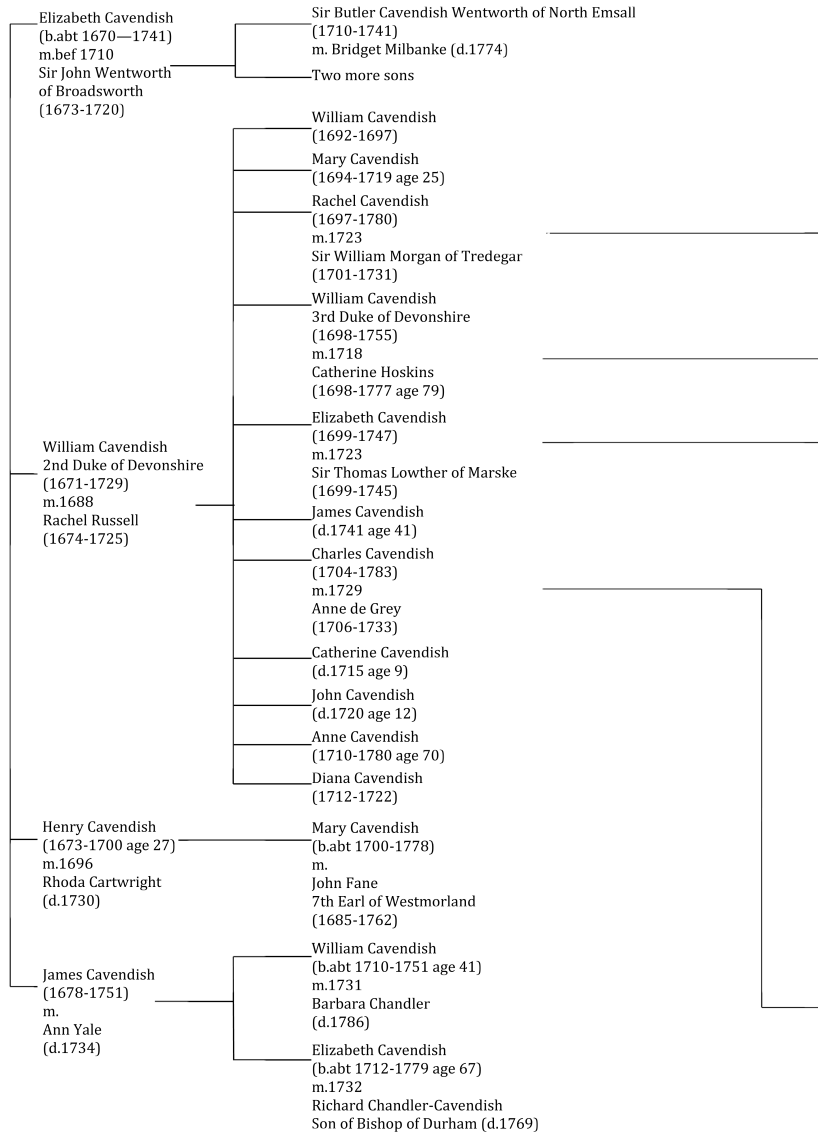


Figure 18.1

“The de Grey Mausoleum,” (<http://www.bedfordshire.gov.uk/CommunityAndLiving/ArchivesAndRecordOffice/CommunityArchives/Flitton/TheDeGreyMausoleumFlitton.aspx>). The Cavendish and Grey family trees in this book are improvements of those in Jungnickel and McCormmach (1999).

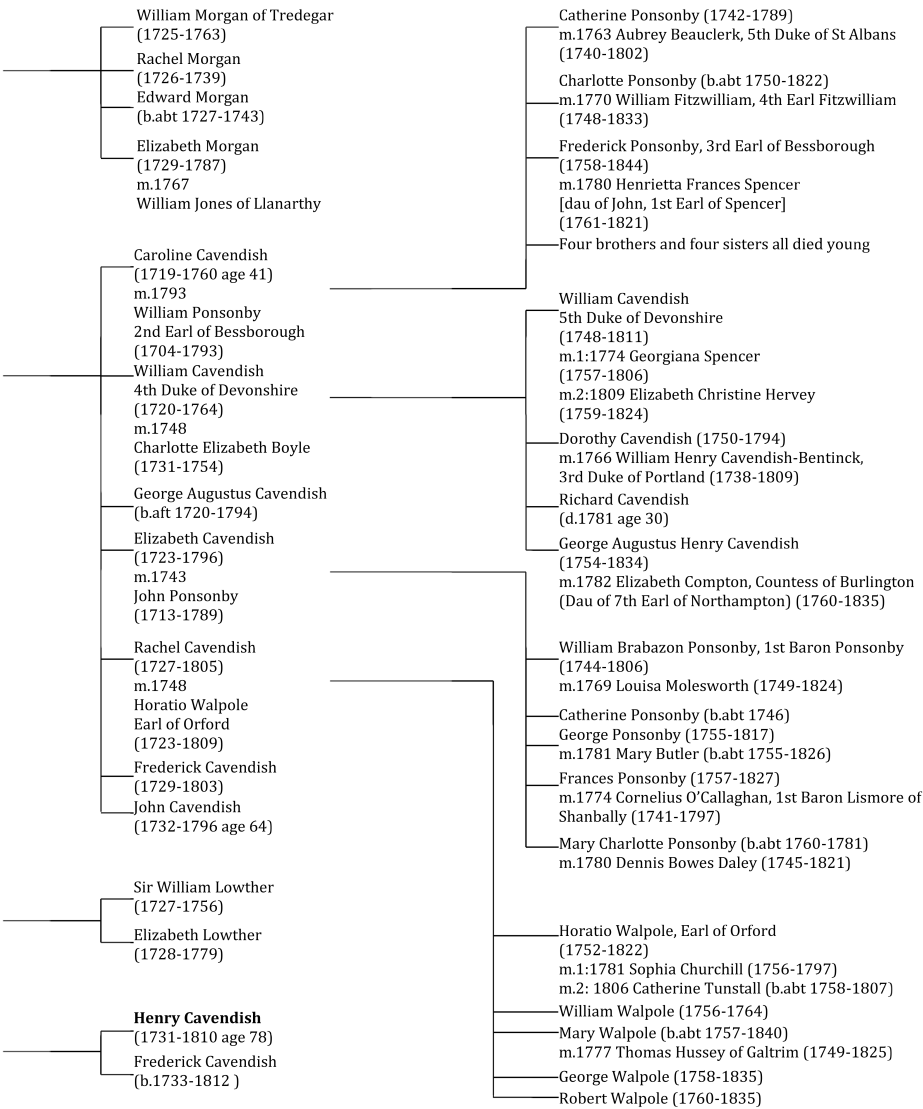


Figure 18.2

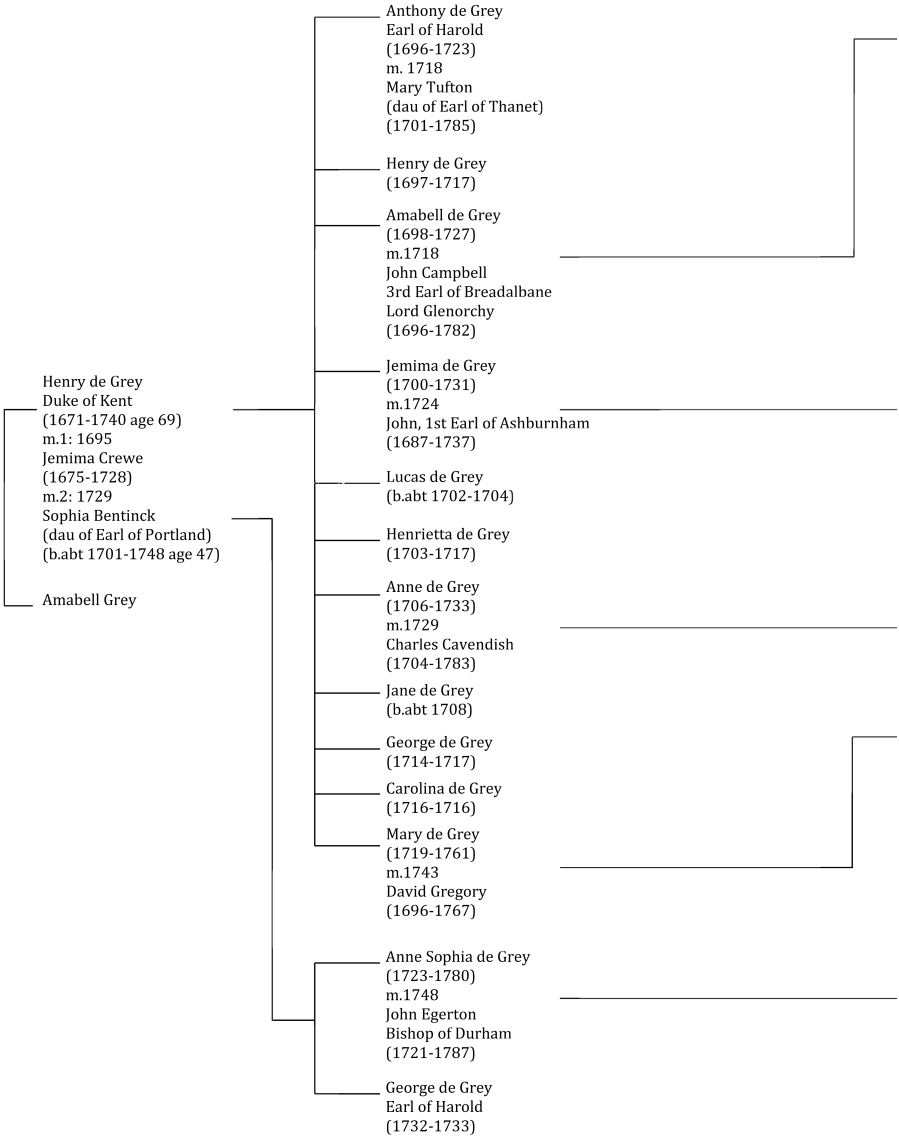


Figure 18.3

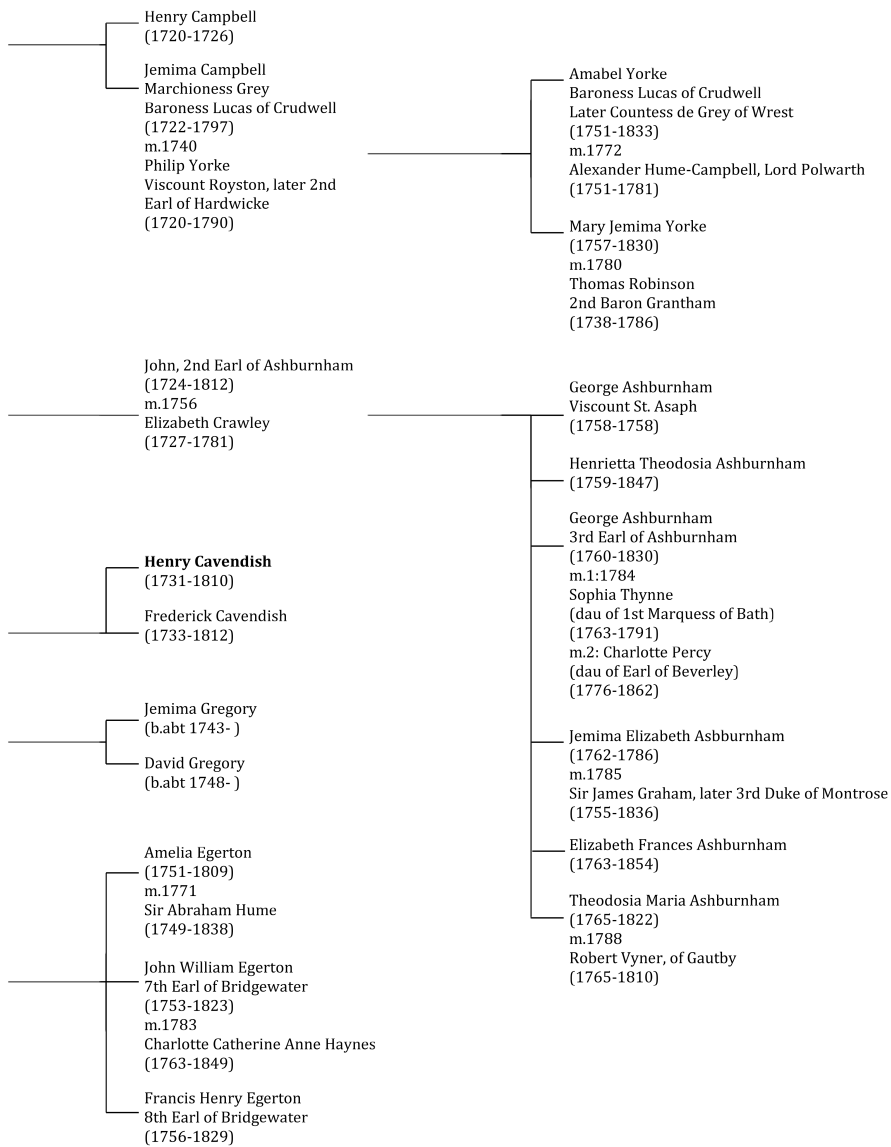


Figure 18.4



## Appendix II: Chronology and Publications

### Henry Cavendish's Chronology and Publications

- Born Sunday, 31 October 1731, in Nice, first child of Lord Charles Cavendish and Lady Anne (de Grey) Cavendish.
- Death of his mother, Lady Anne, on 20 September 1733, at Putteridge. Move of his father, Lord Charles, from Putteridge to Great Marlborough Street, Westminster, in 1738.
- Entered Hackney Academy in 1742.
- Entered St. Peter's College, or Peterhouse, Cambridge University, as a fellow commoner, on 24 November 1749.
- First publication, in Latin, "Luctus," in Cambridge University, *Academicæ Cantabrigiæ Luctus in Obitu Frederici celsissimi Walliæ Principis* (Cambridge, 1751) (Lament on the Death of Most Eminent Frederick, Prince of Wales).
- Left Cambridge without taking a degree, having been in residence until 23 February 1753, nearly the full time required for a degree.
- Probably subscribed to Felice Giardini's musical Academy in London in 1758 or 1759.
- Proposed 10 November 1757, and elected 31 July 1760, member of the Society of Royal Philosophers (Royal Society Dining Club).
- Proposed 9 January 1760, and elected 16 January 1760, member of the Society of Arts.
- Proposed 31 January 1760, and elected 1 May 1760, Fellow of the Royal Society of London.
- First published research, appearing in a paper by William Heberden, "Some Account of a Salt Found on the Pic of Teneriffe," *PT* 55 (1765): 57–60; read 7 February 1764.
- Elected 30 November 1765 member of the Council of the Royal Society, the first of many times.
- First published research under his own name, "Three Papers, Containing Experiments on Factitious Air," *PT* 56 (1766): 141–184; read 29 May, 6 and 13 November 1766. For this work, he was awarded the Copley Medal of the Royal Society.
- "Experiments on Rathbone-Place Water," *PT* 57 (1767): 92–108; read 19 February 1767.
- "An Attempt to Explain Some of the Principal Phaenomena of Electricity, by Means of an Elastic Fluid," *PT* 61 (1771): 584–677; read 19 December 1771 and 9 January 1772.
- Proposed 21 January 1773, and elected 25 February 1773, Fellow of the Society of Antiquaries.
- Elected 8 December 1773 trustee of the British Museum.
- "An Account of Some Attempts to Imitate the Effects of the Torpedo by Electricity," *PT* 66 (1776): 196–225; read 18 January 1775.



- “An Account of the Meteorological Instruments Used at the Royal Society’s House,” *PT* 66 (1776): 375–401; read 14 March 1776.
- Acquired a country house 34 Church Row, Hampstead, appearing in the rate books from 3 January 1782 through 17 September 1785.
- “An Account of a New Eudiometer,” *PT* 73 (1783): 106–135; read 16 January 1783.
- Death of his father, Lord Charles, on 28 April 1783.
- “Observations on Mr. Hutchins’s Experiments for Determining the Degree of Cold at Which Quicksilver Freezes,” *PT* 73 (1783): 303–328; read 1 May 1783.
- “Experiments on Air,” *PT* 74 (1784): 119–169; read 15 January 1784.
- “Answer to Mr. Kirwan’s Remarks upon the Experiments on Air,” *PT* 74 (1784): 170–177; read 4 March 1784.
- Bought a new townhouse 11 Bedford Square on 21 May 1784.
- “Experiments on Air,” *PT* 75 (1785): 372–384; read 2 June 1785.
- Bought a new country house on Clapham Common on 18 June 1785.
- “An Account of Experiments Made by Mr. John McNab, at Henley House, Hudson’s Bay, Relating to Freezing Mixtures,” *PT* 76 (1786): 241–272; read 23 February 1786.
- “An Account of Experiments Made by Mr. John McNab, at Albany Fort, Hudson’s Bay, Relative to the Freezing of Nitrous and Vitriolic Acids,” *PT* 78 (1788): 166–181; read 28 February 1788.
- “On the Conversion of a Mixture of Dephlogisticated and Phlogisticated Air into Nitrous Acid, by the Electric Spark,” *PT* 78 (1788): 261–276; read 17 April 1788.
- “On the Height of the Luminous Arch Which Was Seen on Feb. 23, 1784,” *PT* 80 (1790): 101–5; read 25 February 1790.
- “On the Civil Year of the Hindoos, and Its Divisions; with an Account of Three Hindoo Almanacs Belonging to Charles Wilkins,” *PT* 82 (1792): 383–399; read 21 June 1792.
- “Extract of a Letter from Henry Cavendish, Esq. to Mr. Mendoza y Rios, January, 1795,” *PT* 87 (1797): 119–122; read 22 December 1796.
- “Experiments to Determine the Density of the Earth,” *PT* 88 (1798): 469–526; read 21 June 1798.
- Became a proprietor of the Royal Institution on 10 February 1800, elected manager on 1 May 1800.
- Elected Foreign Associate of the Institute of France in 1803.
- “On an Improvement in the Manner of Dividing Astronomical Instruments,” *PT* 99 (1809): 221–45; read 18 May 1809.
- Died 24 February 1810 at Clapham Common.

## List of Abbreviations

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BL	British Library, Manuscript Department
Cavendish Mss	Cavendish Scientific Manuscripts, Devonshire Mss Collection, Chatsworth
Devon. Coll.	Devonshire Mss Collection, Chatsworth
<i>DNB</i>	<i>Dictionary of National Biography</i>
<i>DSB</i>	<i>Dictionary of Scientific Biography</i>
DTC	Dawson Turner Collection
JB	Journal Book of the Royal Society
BM(NH)	Natural History Museum, Botany Library
<i>PT</i>	Philosophical Transactions of the Royal Society of London

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## Archives

American Philosophical Society  
Bank of England  
Bedfordshire Record Office  
Birmingham Assay Office  
Birmingham University Library  
Bristol Record Office  
British Library, Department of Manuscripts  
Cambridge University Library  
Camden Archive  
Cumbrian County Record Office  
Devonshire Mss Collection, Chatsworth  
Fitzwilliam Museum, Cambridge  
Gloucester Record Office  
Greater London Record Office  
Historical Society of Pennsylvania  
Holborn Public Library  
Lambeth Archive  
Lancashire Record Office  
National Archives of Canada  
Natural History Museum, Department of Botany  
Public Record Office, Chancery Lane  
Royal Astronomical Society  
Royal Botanic Garden, Kew  
Royal Greenwich Observatory  
Royal Institution of Great Britain  
Royal Society of Arts  
Royal Society of London  
Sheffield Central Library  
Society of Antiquaries of London  
University of Wales, Swansea Library  
Wellcome Historical Medical Library  
Westminster Archive  
Whitby Literary and Philosophical Society  
Yale University Library



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