

Appendix

Draft (submitted by Ivor Grattan-Guinness)

Differential operator theory mathematicians in Britain, 1810s-1880s

Table 1. Careers of members

The column 'Education' often indicates a Cambridge college; 'w' = wrangler position, 's' = senior.

UCLondon = University College London 'dist' = distinction. TCDublin = Trinity College Dublin

In 'Period' 'm-n' marks the years of publication between n and m, while 'm/n' indicates just those two years.

The mathematical topics under 'Main activity' are:

CFD = calculus of finite differences

COF = calculus of functions

COO = calculus of operations

COV = calculus of variations

DIC = differential and integral calculus in general

EFE = Earth figure equation

LE = Laplace's equation

(P)DE = (partial) differential equations in general

RE = Riccati's equation

Under 'other work' we have

Tbw = textbook writer

Phil. = philosophical aspects of mathematics or science

Enc. = articles in encyclopaedias

Min. = career as religious minister

Ed. *CMJ* = Editor of *Cambridge mathematical journal*

* = see note in final column

Name	Dates	Birth	Education	Main concerns	Main period	Other work, notes
Babbage, C.	1792-1871	Eng.	Peterhouse (1814)*	COF	1812-1822	* No w ranking; tbw, phil.
Blissard, J.C.	1835-1904	Eng.	St. John's, 3w(1858)	COO, CFD	1860s	Min.
Boole, G.	1815-1864	Eng.	Self	COO, DE (EFE-LE), CFD	1841-1860	Tbw, logic, phil.
Brinkley, J.	1766-1835	Irish	Caius, sw(1788)	CFD	1807	Astronomy

Bronwin, B.	1786-1869	Eng.	Self	COO, EFE	1841-1852	Min., phil.
Carmichael, R.	1828-1861	Irish	TCDublin, (1849)	COO, PDE, EFE, LE	1851-1857	Tbw, phil.
Cayley, A.	1821-1895	Eng.	Trinity, sw(1842)	CFD, COO	1843-1869	Elliptic fns, linear algebra
Curtis, A.H.	1827- ?	Irish	TCDublin (?)	COO, EFE	1854	Min.
De Morgan, A.	1806-1871	Eng.	Trinity, 4w(1827)	COF DIC	1828-1860	Tbw, enc., logic, hist. educ.
Donkin, W.F.	1814-1869	Eng.	UCLondon (1836)	COO, EFE, LE	1850-1857	Astronomy; Oxford
Earnshaw, S.	1805-1888	Eng.	St. John's, sw(1831)	POE, EFE	1871	Physis; tbw
Ellis, A.J.	1814-1890	Eng.	Trinity, 6w(1837)	COO, EFE	1836/1860	Philology, logic
Ellis, R. L.	1817-1859	Eng.	Trinity, sw(1840)	COF, DIC, EFE	1841-1845	Ed. <i>CMJ</i>
Gaskin, T.	1810-1887	Eng.	St. John's, 2w(1831)	EFE	1831-1848	Tutor, examiner, tbw
Glaisher, J.W.L.	1848-1928	Eng.	Trinity, 2w(1871)	EFE, RE	1871-1881	History, mathematical anal.
Graves, C.	1812-1899	Irish	TCDublin (1835) dist.	COO, LE	1847-1857	
Greathead, S.S.	1813-1887	Eng.	Trinity, 4w(1835)	PDE, COO	1837-1839	Min.; ed. <i>CMJ</i>
Greer, H.R.	?	?	?	COO	1860s	Fractional diff'n; min.
Gregory, D.F.	1813-1844	Scot	Trinity, 5w(1837)	COO, DE	1837-1843	Tbw, ed. <i>CMJ</i>
Hargreave, C.J.	1820-1866	Eng.	UCLondon (?), dist.	COO, EFE, LE	?	Philosophy, law
Herschel, J.F.W.	1792-1871	Eng.	St. John's, sw(1813)	COF, CFD, COO	1815-?	Tbw, astronomy, philosophy
Hymers, J.	1803-1887	Eng.	St. John's, 2w(1826)	DE, CFD, EFE	1831-1858	Examiner, tbw
Murphy, R.	1802-1843	Irish	Caius, 3w(1829)	COO, CFD	1830-1839	Tbw, harmonic analysis
O'Brien, M.	1814-1855	Irish	Caius, 3w(1838)	EFE	1840-1850	Tbw, vectors
Peacock, G.	1791-1858	Eng.	Trinity, 2w(1813)	DIC	1820-1835	Examiner, tbw, algebra
Pearson, J.	1825-1866	Eng.	Trinity, 15w(1848)	COO, CFD	1848-1850	Tbw, geodesy
Pratt, J.H.	1809-1871	Eng.	Caius, 3w(1833)	EFE	1836/1860	Tbw, harmonic analysis
Roberts, S.	1827-1913	Eng.	UCLondon (1847), dist.	COO, DE	1860s	Law
Russell, W.H.L.	1823-1891	Eng.	St. John's, 17w(1851)	COO, DE	1854-1866	Enc.
Scott, G.	?	?	?	COO, CFD	1860s	Min.
Spottiswoode, W.	1825-1883	Eng.	Oxford (1845) dist.	COO, DE	1853-1862	Linear algebra
Sylvester, J.J.	1814-1897	Eng.	St. John's, 2w(1837)*	COO, DE	1860s-1880s	Linear algebra; *No degree: Jew

Williamson, B.	1827-1916	Irish	TCDublin (1848), dist.	EFE, COO	1856	Tbw
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Table 2. Principal compatriot mathematicians.

Name	Dates	Birth	Education	Main concerns	Main period	Other work, notes
Airy, G.B.	1801-1892	Eng.	Trinity, sw(1823)	EFE, PDE	1820s/1866	Tbw, enc., astronomy
Hamilton, W.R	1805-1865	Irish	TCDublin (1823) dist.	COV, DE	1837-1846	Dynamics, quaternions
Hopkins, W.	1793-1866	Eng.	Peterhouse, 7w(1827)			Tutor, tbw. astronomy
Ivory, J.	1765-1842	Scot	St. Andrews (1783)	EFE	1812-?	Astronomy, math. analysis
Jellett, J.H.	1817-1888	Irish	TCDublin (1838)	COV	1850	Tbw, min.
Thomson, W. *	1824-1907	Irish	Glasgow; Peterhouse, 2w(1845)	EFE	1839-1850	Math. physics, tbw. Ed. <i>CMJ</i> *Later Lord Kelvin
Todhunter, I.	1820-1884	Eng.	St. John's, sw(1848)	EFE	1870s	Math.analysis; history, tbw
Wallace, W.	1768-1843	Scot	Self; Edinburgh	DIC	1795-1815	Enc., astronomy
Whewell, W.	1794-1866	Eng.	Caius, 2w(1816)	EFE	1819-1836	Educ., phil., enc., tbw
Woodhouse, R.	1768-1843	Eng.	Caius, sw(1794)	DIC, COV	1800-1818	Tbw, astronomy