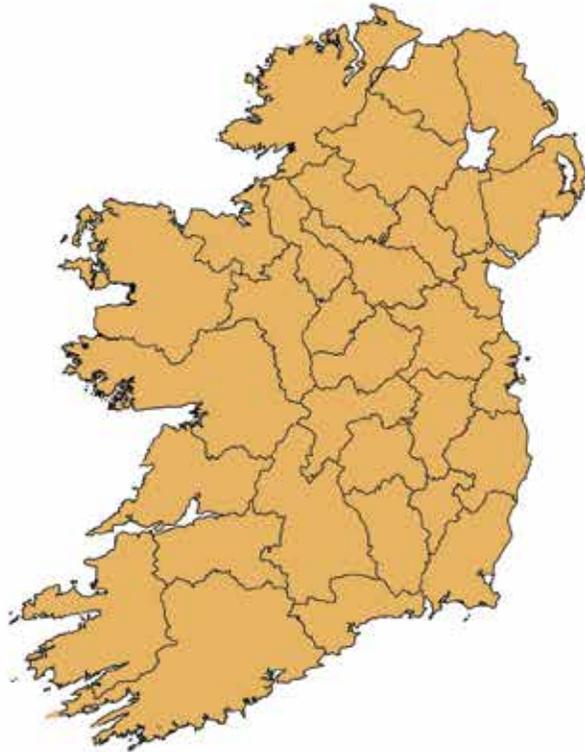


IRISH MATHEMATICS CALENDAR

2023





Mathematical physicist **Sheila Power** (later Tinney, 1918-2010) was born 15 January in Galway city, and was educated at UCD and the University of Edinburgh. She was the first woman graduate of an Irish university to get a doctorate in the mathematical sciences. She was also one of the first three scholars at the then new Dublin Institute of Advanced Studies (DIAS), and she taught at UCD for decades.

Astronomer **Eric Lindsay** (1908-1995) was born 26 January in the Grange, near Portadown, Armagh. He was educated in physics at QUB and at Harvard. After a few years at Boyden Station (South Africa), he became the 7th director of the Armagh Observatory, where he played a key role in the establishment of the planetarium. He also lectured at QUB.



Annie Butler (1895-1996) was born 20 January in Dublin, and was educated at TCD. In 1939 she was still teaching, in Dorking, Surrey. She died at age 101.



Astronomer **David Hobbs** was born 31 January in Gorey, Wexford, and was educated at IT Carlow / Univ of Essex and TCD. His career included stints at the Univ of Vienna and TERMA in Denmark before settling at Lund Univ in Sweden. His work includes developing numerical solutions for reducing the data produced by the Gaia mission.



Alfred Robb (1873-1936) was born 18 January in Belfast, and was educated at Queen's there, then at Cambridge, and finally at Göttingen. He spent his career at Cambridge, where his interests included the Zeeman magnetic effect. He authored 4 books on time, space and relativity, and is remembered for his axiomatic hyperbolic geometry treatment of spacetime.

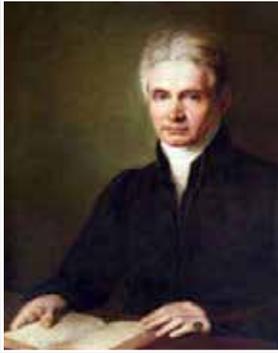
Barbara Yates (1919-1998) was born 22 January in Dublin, and grew up mostly in Belfast. Like her father and two brothers before her, she got a maths degree from TCD, having also been a maths scholar there. She completed her PhD in differential equations in 1952, making her the first Irish woman graduate of an Irish university to receive a doctorate in pure maths. Her long academic career was mostly spent at Royal Holloway.



January

2023

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
						NEW YEAR'S DAY 1 Robert Sheehy
New Year Holiday 2 Bill Wann (1925-2011) Walter Heitler (1904-1981) Irish mathematics Teachers Association founded, 1964	3	4	5 John Cosgrave	6 Brendan O'Shea Edith Stoney (1869 -1938)	7	8 Peter McCullough Ray Flannery (1941-2013)
9 Kevin McGerty	10 Dermot Mullan	11 Charlie Daly (1929-2000) BTYSTE	12 Brian McMaster Agnes Scott (1879-1975) BTYSTE	13 Ken Houston David Simms (1933-2018) BTYSTE	14 BTYSTE	15 Sheila Power (1918-2010)
16 Jerry Murphy Annette Pilkington Colm O'Muircheartaigh Sean Tobin	17 Richard Walsh (1913-1994)	18 Alfred Robb (1873-1936) William Houston (1871-1953)	19	20 Colin Turner John McCarthy William Bindon Blood (1817-1894)	21 Robert Boyle Winter School RDS	22 Brendan Goldsmith Barbara Yates (1919-1998)
23 Niamh O'Meara Aaron Golden	24	25 Gerry McGreevy (1929-2015) Robert Boyle (1627-1691)	26 Neil B. Dobbs Fren Mtenzi Eric Lindsay (1907-1974) John Hooper (1878-1930)	27 Anna Patterson (1887-1966) IMTA Team Maths	28 Louis Aslett Paul McNicholas Des MacHale Harry Kennedy (1887-1968)	29 Andrew Whitaker
30 Coulter McDowell (1932-1993)	31 David Hobbs					



Bartholomew Lloyd (1772-1837) was born 5 February in New Ross, Wexford. He was educated at TCD, where he then spent his entire career, implementing radical changes in the methods of teaching mathematics. In particular he introduced calculus to the curriculum. He wrote several books and his son Humphrey (see April) followed in his footsteps.

Mary de Lellis Gough (*née* Margaret Gough, 1892-1983) was born 15 February in Kilmore, Wexford, and emigrated to the USA in 1909. She taught at Incarnate Word College in San Antonio, Texas, in between accumulating maths degrees. Her PhD in algebra from Catholic University in 1931 makes her the earliest known born and raised Irish woman to get a doctorate in maths.



Stephen Scully was born 20 February in Navan, Meath, and was educated at first at UCD in actuarial science, then in maths at Cambridge, and Nottingham. His career so far has mostly been spent in Canada, at the University of Alberta, and then at the University of Victoria. His research interests include quadratic forms and forms of higher degree, projective homogeneous varieties, algebraic cycles, Chow motives, and Milnor K-theory.

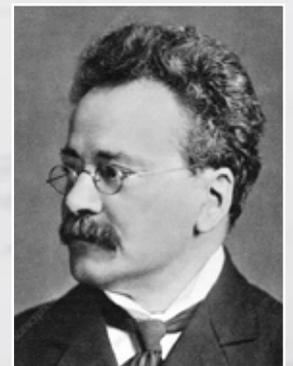


Siobhan O'Shea (later Vernon, 1932-2002) was born 24 February in Macroom, Cork, and was educated at UCC, where she taught for over 30 years. Her 1964 PhD in mathematical analysis, awarded for previously published work, is believed to be the first doctorate in pure mathematics earned by a woman in Ireland.



Sophie Bryant (*née* Willock, 1850-1922), was born 15 February in Dublin. She earned degrees from the University of London in both mental and moral philosophy and maths. She taught at several schools and wrote many books on diverse topics. She was the first woman to have a paper published in the *Proceedings of the London Mathematical Society*.

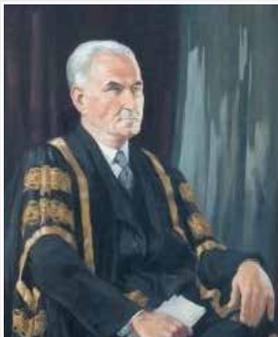
John Perry (1850-1920) was born 14 February in Garvagh, Londonderry. He was educated in engineering at Queen's Belfast, and the bulk of academic career was spent in London, first at Finsbury Technical College and then at Imperial College. He authored 5 books on mechanics and applied maths, including one on spinning tops. His sister Agnes and his daughter Agnes are listed under June.



February

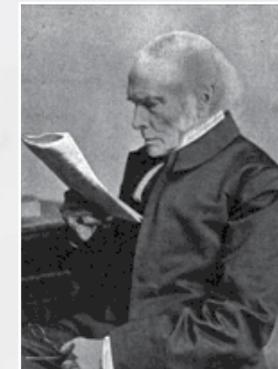
2023

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
		1	2	3	4	5 Fiona Boland Stephen O'Brien (1918-1992) Stanley Traynor (1916-1994) Bartholemew Lloyd (1772-1837) André Darré (1750-1833)
BANK HOLIDAY (RoI) 6 Dan Dundas	7	8 Stephen Buckley Francis Edgeworth (1845-1926)	9 Mick Mortell Charles Rowe (1893-1943)	10 Agnes Clerke (1842-1907)	11 Dara Ó Briain Terry Maguire	12 Seán Dineen John O'Sullivan (1948-2006) Kay McNulty (1921-2006)
13	14 John Perry (1850-1920)	15 Ray Ryan Mary de Lellis (1882-1983) Sophie Wilcock Bryant (1850-1922) George Stoney (1826-1911)	16 Petros Florides NI Science Festival	17 Fintan Gallagher William Morton (1868-1949) NI Science Festival	18 Paddy Dolan (1935-2020) Arthur Kingston NI Science Festival	19 Thérèse Dooley NI Science Festival
20 Stephen Scully Joseph Varilly John Connolly IMTA Junior Maths NI Science Festival	21 Donal O'Regan David Lewis (1944-2021) IMTA Junior Maths NI Science Festival	22 Maeve McCarthy IMTA Junior Maths NI Science Festival	23 IMTA Junior Maths NI Science Festival	24 John O'Donoghue Siobhán O'Shea (1932-2002) Gordon Foster (1921-2010) IMTA Junior Maths NI Science Festival	25 Norma Bargary Shane Whelan Jim McConnell (1915-1999) NI Science Festival	26 Arthur Donnelly (1885-1973) NI Science Festival
27 John A. Ryan	28 Martin Muldoon (1939-2019) William Thrift (1870-1924)					



Henry St Joseph Atkins (1896-1987) was born 19 March in Cork, and was educated at UCC. He taught first at St Patrick's, Drumcondra, and then back at UCC, where he eventually served as college president. He also set the Leaving Cert Honours Maths examination papers for a number of years.

Robert Graves (1810-1893, brother of John and Charles) was born 9 March in Dublin. He was educated in classics at TCD, following which he spent 3 decades as a clergyman in England. He then returned to Dublin and at the end of his life proposed the admission of women to TCD. In the 1890s, he published *Life of Sir William Rowan Hamilton* in three volumes.



Michael Clancy was born 16 March in Kilmihil, Clare, and was educated at UCG and at Notre Dame. The bulk of his career was spent at DCU. His research interests include topological groups, and Lie algebras.



Ronan Flatley was born 27 March in Dublin and was brought up there and in Sligo town and Letterkenny, Donegal. He was educated entirely at UCD and now teaches at Mary Immaculate College in Limerick. His interests include central simple algebras with involution and the algebraic theory of quadratic forms. He authored the recent book *MIghTY Maths: Mathematical Investigations for Transition Year*.



Edward Bromhead (1789-1855) was born 26 March in Dublin. He was educated at Glasgow and Cambridge, and was a founder of the Analytical Society. He also studied law, and was involved in civil administration. He is best remembered for his mentoring of both George Green and George Boole at key points in their early careers.

Maths physicist and philosopher **Paddy Heelan** (1926-2015) was born 17 March in Dublin. He was educated at UCD and at St Louis University in Missouri, then taught at Clongowes and UCD. Returning to the USA to focus on the philosophy of science, he spent 4 decades at Stony Brook and Georgetown Universities. A Jesuit, his books included treatises on Heisenberg's quantum mechanics.



March

2023

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
		1	2	3	4	5
			Mairéad Greene Nora Ni Chuiv Gerry Gardner (1926-2009)	John Hooper Medal Registration deadline	World Engineering Day for Sustainable Development Engineers Week	Iggy Ó Muircheartaigh George Hall (1925-2018) Engineers Week
6	7	8	9	10	11	12
James McNeill (1853-1907) Engineers Week	Engineers Week	Engineers Week	John Forde (1918-2004) Robert Graves (1810-1893) Engineers Week	Eugene Gath SciFest@College deadline Engineers Week	Lochlainn O'Raifeartaigh (1933-2000) Mary Everest Boole (1832-1916) Engineers Week	George Berkeley (1685-1753)
13	14	15	16	ST. PATRICK'S DAY 17	18	19
Cyril Delaney (1925-2012)	Mike Fitzpatrick Tadhg Carey (1919-1995) International Day of Mathematics (Pi Day)	Aisling McCluskey Mark Leeney Marie Reilly John Faris (1913-2011)	Aoibhinn Ní Shúilleabháin Michael Clancy	Götz Pfeiffer Michael P. Tuite Paddy Heelan (1926-2015)	Bill Stephens (1913-2001)	Henry Atkins (1896-1957) Henry Hennessy (1826-1901)
SPRING EQUINOX 20	21	22	23	24	25	26
Peter Gallagher Jane Molyneux (1887-1920)	Neil Hallinan Werner Nahm Michael J. Walsh Pat Norris	Diarmuid Ó Mathúna	John L. Synge (1897-1995) Cyril Power (1890-1970)	William Anderson (1867-1950)	Dermot McLain (1932-2004) David Spearman	Cormac O'Raifeartaigh Mary Hanley Edward Bromhead (1789-1855) Hugh Hamilton (1729-1805)
27	28	29	30	31		
Ronan Flatley Eva Wills (1925-1995) Eithne Donnelly (1900-1989)	John Kennedy (1939-1995)		Micheál Mac an Airchinnigh	Paul Feehan Donal J. Hurley		

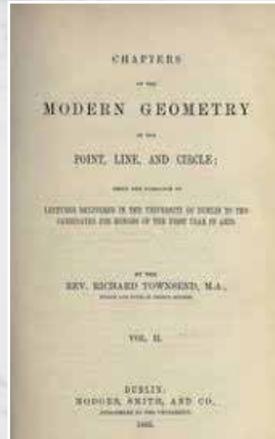


Humphrey Lloyd (1800-1881) was born 16 April in Dublin, son of Bartholomew (see February). He was educated at TCD, and in time succeeded his father in notable positions. His research was mostly in conical refraction and geomagnetism. He authored several books, including *A Treatise on Light and Vision*, *Lectures on the Wave-theory of Light*, and *The Elements of Optics*.

Rachel Sullivan (later Chossudovsky, 1913-1996) was born 23 April in Belfast, and was educated at QUB, writing an early master's thesis on quantum theory. She co-authored the paper "A Small Scale Differential Analyser: Its Construction and Operation", and taught at Omagh Academy and then at QUB.



Richard Townsend (1821-1884) was born 30 April in Baltimore, Cork, and was educated at TCD where he spent his whole career. He authored the highly regarded *Chapters on the Modern Geometry of the Point, Line, and Circle Vol I*.



Astronomer **Annie Maunder** (*née* Russell, 1868-1947) was born 14 April in Strabane, Tyrone. In 1889 she was the highest ranked mathematics student at the BA examinations at Girton College, Cambridge, but as a woman was denied a degree. For decades she pursued solar research at Greenwich Royal Observatory, often publishing her findings under her husband's name.



Mathematical physicist **Peter Tait** (1831-1901) was born 21 April in Dalkeith, Midlothian, Scotland, and was educated at Cambridge. His career started at Queen's College Belfast, then he settled at Edinburgh. He authored 22 books.

Janet Nichols (later Ferguson, then Martin, 1894-1978) was born 15 April in Belfast and was educated at QUB and at the University of London. She married Reuter's correspondent Fergus Ferguson in Turkey 1919, and James Martin in 1949.



April

2023

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
					1	2
					ISTA Conference	Michael Power (1885-1974)
3 Jill Tysse Eugene Curtin Brian Murdoch (1930-2020) Richard Townsend (1821-1884) Dionysius Lardner (1793-1859)	4	5	6	GOOD FRIDAY 7	8	EASTER SUNDAY 9
		Bill Keating Roger North (1816-1895)	Peter McNamara	Sean Lacey	Olga O'Mahony Tom Linehan (1926-2017) Andrew Graham (1815-1908)	
EASTER MONDAY 10	11	12	13	14	15	16
	R.C. Geary (1896-1983)		Lizzie Boyd (1897-1988)	Eoin Long Anne Russell Maunder (1868-1947)	David Malone John T. Lewis (1932-2004) Janet Nichols (1894-1978)	Eamonn Tierney (1918-2004)
17	18	19	20	21	22	23
Mark McCartney William Molyneux (1656-1698) Tech Week	George Keating (1902-1973) Tech Week	James Gleeson Hugh Alexander (1909-1974) James Cullen (1867-1933) John MacFarland (1851-1935) Tech Week	Phil Boland Tech Week	Peter Hogan William Monck (1839-1915) Tech Week	James McMahon (1856-1922) Tech Week	Rachel Sullivan (1913-1996) Thomas Robinson (1792-1882) Tech Week
24	25	26	27	28	29	30
Norma Glasgo Reid Tech Week	Dermott McCrea (1934-1993)	Kevin Hutchinson Bobbie Elliot (1924-2006) Richard Beatty (1882-1941)		John Toland	Cormac Smith (1926-2009)	Sally McClean



Astronomer **Alice Everett** (1865-1949) was born 15 May in Glasgow, and brought up in Belfast, where her father was professor of natural philosophy at Queen's College. She studied maths there, and at Girton College, Cambridge, degrees were awarded by the Royal University of Ireland. She worked at the Royal Observatory in Greenwich, and later did research in optics and the engineering of early television.

Robert Genese (1848-1928) was born 8 May in Dublin, and was educated at Cambridge (St John's, 8th wrangler 1871, MA 1874). After a few years at the Training College in Carmarthen, Wales, he taught for a further 40 years at Aberystwyth. He contributed to the *Educational Times*, and spoke at both the 1904 and 1908 ICMs.



Theoretical physicist **Brian Dolan** was born in May in Glasgow, and raised in Ardrosson, Ayrshire, Scotland. He was educated at Edinburgh and Durham. Most of his career was spent at Maynooth & DIAS. His interests include black hole thermodynamics and classical, relativistic and non-relativistic quantum field theory. He has supervised several PhD students.



Molly Houston (later Reynolds, 1923-2018) was born 22 May in Dublin and was educated at TCD, earning 2 bachelor's degrees there. She worked at the DIAS before marrying.



Flora Hamilton (later Lewis, 1862-1908) was born 18 May in Cobh, Cork, and grew up there and in Rome. She was educated at Methodist College and at Queen's Belfast, and was the first woman to earn a maths BA in that city. She taught at the Ladies University School in Belfast before marrying. Her second son was the writer C.S. Lewis.

Alfred Dixon (1865-1936) was born 22 May in Northallerton, Yorkshire, and was educated at the University of London and at Cambridge. His career started at Queen's College, Galway, following which he spent 3 decades at Queen's in Belfast. He worked on differential equations, and he also authored the book *The Elementary Properties of the Elliptic Functions with Examples*.



May

2023

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
BANK HOLIDAY 1	2	3	4	5	6	7
	William McFadden Orr (1866-1934)	Laura Cooke Brendan J. Murphy Society of Actuaries in Ireland founded (1972)	Johnny Burns	Robin Harte Cathleen Morawetz (1923-2017) Mervyn Ellison (1909 - 1963) John Leatham (1871-1923) W.R.W. Roberts (1850-1935)	Dana Mackey PJ Cregg IrMO Round 2	
CORONATION HOLIDAY (NI) 8	9	10	11	12	13	14
Trevor West (1938-2012) Thomas Strain (1878-1949) Robert Genese (1848-1928)	Turlough Downes		George Harry Hitching Martin Mathieu Alfred Williams (1899-1976)	Finbarr Holland Fran Barry (1939-2008) Alexander Anderson (1858-1934) John Casey (1820-1891)	Leo Creedon Marjorie Paterson-Smyth (1889-1975) Arthur Panton (1843-1906)	
15	16	17	18	19	20	21
Alice Everett (1865-1949)	Jack Todd (1911-2007)	Shane Dowdall J.R. (Dick) Timoney (1909-1985)	Mike McElroy	Brian Dolan Brendan Scáife	John Gough	Owen O'Shea Trevor Weekes (1940-2014)
22	23	SPRING BANK HOLIDAY (NI) 24	25	26	27	28
Stan Broderick (1893-1962) A.C. Dixon (1865-1936) International Day for Biological Diversity	Adrian Dunne James Caldwell Thomas Preston (1860-1900)	Gar de Barra	Helen Purtill	Tadhg Creedon John Campbell (1862-1924)		Tony O'Farrell Seoirse Mac Niocaill (1881-1968) George Minchin (1845-1914)
BANK HOLIDAY (NI) 29	30	31				
Mary Brück (1925-2008)						



Physicist **Frank Fahy** (1922-2005) was born 8 June in Mallow, Cork. He was educated at UCC, UCD, and the Univ of Chicago. Most of his career was spent back at UCC, where he later serves as vice-president. He was chair of the School of Cosmic Physics at DIAS for 25 years. His son Stephen also started in mathematical science and has lectured in physics at UCC for 3 decades.

Agnes Perry (later Ehrhardt, 1858-1940) was born 1 June in Garvagh, Londonderry, and mostly grew up in Belfast. She was educated at Bedford College in London and Newnham College, Cambridge, being the first Irish women to qualify in maths at the latter. She taught until she married. Her niece of the same name (below) also pursued maths, and her brother was mathematician and engineer John Perry (see February).



Margaret White (1909-1975) was born 5 June in Aughadark, Bawnboy, Leitrim, and grew up there and in Belfast. She was educated at QUB and spent her career teaching at nearby Victoria College, becoming head of maths there.



Liam O'Carroll (1945-2017) was born 10 June in Strabane, Tyrone, and was educated entirely at QUB. He spent 4 decades at Edinburgh, where he supervised several doctorates. His work was in commutative algebra, in particular uniform Artin-Rees theorems.



Theoretical physicist **Derrick Crothers** (1942-2021) was born 24 June in Belfast, and grew up in Cookstown, Tyrone. He was educated at Oxford and QUB. He taught for over 40 years at QUB where he supervised dozens of PhD students and wrote 3 books on molecular and atomic physics.

Agnes "Molly" Perry (1882-1963) was born 5 June in Roscommon town, her father (see February) and aunt (above) having also been notable for mathematical pursuits. She grew up mostly in Galway, and was educated at Queen's College there, becoming the first woman to teach maths at the 3rd level in Ireland while doing her master's. She was an examiner for the RUI before attending Bedford College in London, and she taught in various English institutions for 3 decades.



June

2023

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
			1	2	3	4
			Julie Crowley Edmund Robertson Helen Megaw (1907-2002)	Alexei Pokrovskii (1948-2010) Ralph Henstock (1923-2007) William Coates (1857-1912)	Murrough Golden Jim Callagy (1908-1988)	Miguel Bustamante Rod Gow Donal McCarthy (1908-1980)
BANK HOLIDAY (RoI) 5	6	7	8	9	10	11
Joan Cleary Jim Hanley Margaret White (1909-1975) Agnes (Molly) Perry (1882-1963)		Maeve Maguire John S. Townsend (1868-1957)	Romina Garburro Frank Fahy (1922-2005) George Hughes (1918-1994) Alicia Boole Stott (1860-1940)	Muriel Wales (1913-2009)	Liam O'Carroll (1945-2017) Jack Semple (1904-1985) Cork Carnival of Science	Cork Carnival of Science
12	13	14	15	16	17	18
Margaret McDonald (1906-1989) Maths Anxiety Conference, MTU Cork	William Gosset (1876-1937)	Sarah Mitchell Thomas McLaughlin (1896-1971)			Terence Gorman (1923-2003)	Dublin Institute for Advanced Studies Act signed, 1940
19	20	SUMMER SOLSTICE 21	22	23	24	25
Peter Lynch Maurice Jaswon (1922-2011)	Dave Cochran (1940-2013)	Fiacre Ó Cairbre Jim Boyd	Cora Stack Luke Drury Robert Boyle Summer School	Robert Boyle Summer School	Derek Crothers James J. Smith (1892-1983) Robert Boyle Summer School	Susan Lazarus Samuel Verblunsky (1906-1996) Robert Boyle Summer School
26	27	28	29	30		
John J. Roche Victor Meally (1911-1986) William Thomson (1824-1907) 21st ECMI Conference on Industrial and Applied Mathematics	Charles Joly (1864-1906) Morgan Crofton (1826-1915) 21st ECMI Conference on Industrial and Applied Mathematics	21st ECMI Conference on Industrial and Applied Mathematics	Phelim Boyle 21st ECMI Conference on Industrial and Applied Mathematics	21st ECMI Conference on Industrial and Applied Mathematics		



Alan Roche was born 6 July in Dublin, and was educated at UCD and the University of Chicago. His career so far has been spent at the University of Oklahoma, where his interests include Hecke algebras and p-adic groups. He has supervised several PhD students.



Writer **Michael McLaverty** (1904-1992) was born 5 July in Carrickmacross, Monaghan, and grew up there and in Belfast. He was educated at QUB, where he did a master's by thesis. He taught maths and physics for decades at St John's PED in Belfast, ending his school career as headmaster at St Thomas.

Atomic and molecular physicist **Michael Jamieson** was born 31 July in Belfast and was educated at QUB and Harvard. Most of his career was spent at the University of Glasgow. His interests include computational physics with an increasing focus on ultracold atom collisions in recent decades.



Actuary and statistician **Rabia Naqvi** was born 28 July in Lahore, Pakistan, and grew up mostly in London and Dublin. She was educated at first at TCD, then worked in the actuarial world before postgraduate studies at UCD. She now teaches at UCC, and her expertise includes actuarial risk modelling and contingencies.



Oliver Byrne (1810-1880) was born 31 July in Avoca, Wicklow. He started publishing in Dublin at age 20, but spent most of the rest of his life in England and the USA, working as an engineer and inventor. He is remembered for the astonishing 1847 book *The First Six Books of the Elements of Euclid* in which Coloured Diagrams and Symbols Are Used instead of Letters for the Greater Ease of Learners.



Engineer **Keith Seffen** was born in July in Magherafelt, Derry, and was educated entirely at Cambridge, where he now works in engineering mechanics. His interests include non-linear, large-displacement behaviour dynamics.

July

2023

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
					1	2 Diarmuid Ó Sé Ross Geoghegan IMO Japan
3 John Kinsella Olivia Bree Desmond McConnell IMO Japan	4 Edgar Harper (1880-1916) IMO Japan	5 Arthur Lai Fook (1919-2013) IMO Japan	6 IMO Japan	7 J.P. McCarthy John Kells Ingram (1823-1907) IMO Japan	8 David Wilkins IMO Japan	9 Ciarán Mac an Bhaird IMO Japan
10 Cecily Nevill (1921-2002) IMO Japan	11 Lawrence Crane (1931-2021) Joseph Larmor (1857-1942) IMO Japan	12 BATTLE OF THE BOYNE (NI) IMO Japan		13 IMO Japan	14 Ivan Todorov	15 Don McAllister Jocelyn Bell Burnell
17 Richard M. Timoney (1953-2019) William Davison (1937-2013)	18	19 Christine Horn	20 Brendan O'Sullivan Liam O'Callaghan (1946-2022) Paddy Kennedy (1929-1966)	21 Myrto Manolaki Áine Ni Shé	22 Adrian Raftery Eugene Benilov George Kelly (1927-2009)	23 Doireann O'Kiely Helen Joyce
24	25 Mark Daly Rachel Quinlan John G. Byrne (1933-2016) Daniel J. O'Connell (1896-1982) Robert Goodbody (1850-1911)	26 Richard Watson	27 Michael Murtagh (1943-2001) Richard Ingram (1916-1967)	28 Rabia Naqvi John S. Bell (1928-1990) Eleanor Nevill (1917-1999) Carew Meredith (1904-1976) Thomas Collier (1858-1934)	29 Sinéad Breen Sean Close	30 Sara McMurry Martin J. Newell (1910-1985)
31 Oren Kolman (1959-2015) Michael Jamieson Killian Rohan (1916-1999) Oliver Byrne (1810-1880)						



Liam Naughton was born 6 August in Castlebar, Mayo, and grew up in Ballaghaderreen, just inside Roscommon. He was educated entirely at NUIG, and worked there for a while before settling at Wolverhampton. His main interests are in computational group theory.

Jim Murphy (1888-1939) was born 23 August in Sion Mills, Strabane, Tyrone, and grew up there and in Belfast. He was educated at the Univ of London and later at QUB. He taught at the Belfast Mercantile College, then at North Mon in Cork, and finally at Belfast Municipal College of Technology.



William Rowan Hamilton (1805-1865) was born 4 August in Dublin, and was educated and spent most of his career at TCD. Unquestionably Ireland's greatest mathematical scientist ever, his extensive legacy includes innovations in algebra, mechanics and optics. He created quaternions, a non-commutative algebraic system predating matrices.



Statistician **Michael Salter-Townshend** was born 19 August in Castletownshend, Cork. He was educated entirely at TCD, and his career so far has been spent at Oxford and at UCD. His interests include population genetics, social network analysis, and palaeoclimate reconstruction



Tommy Murphy was born 13 August in Waterfall, Cork, and was educated at UCC with stints in Berkeley and King's College, London. His career so far has taken him to Univ Libre Bruxelles, McMaster (Ontario), and now at Cal State Fullerton. His research is mostly in Riemannian and Kaehler geometry.

Margaret "Mina" Funston (1893-1968) was born 7 August in Tullycarn, near Pettigo, Donegal, and was educated at TCD, where she was also a maths scholar. She taught for many years at Victoria College in Belfast.



August

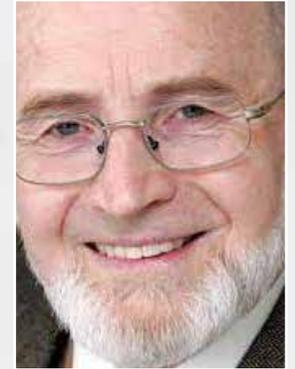
2023

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
	1	2 Pauline Mellon Michael A. Hayes (1935-2017) John Tyndall (1820-1893)	3 George Fitzgerald (1851-1901)	4 Lennon Ó Náraithe Francis Murnaghan (1893-1976) William Rowan Hamilton (1805-1865)	5 Joe McKenna	6 Liam Naughton
BANK HOLIDAY (RoI) 7	8 Annraoi de Paor	9 Donal Garvey	10 Charlie Rogers	11 John Miller Lionel Lovitch William Eakin (1912-1983)	12 Michael Mackey Vincent Guerrini (1912-2000) Erwin Schrödinger (1887-1961)	13 George Stokes (1819-1903)
14	15	16 Felix Hackett (1882-1970)	17	18	19 Michael Salter-Townshend Aoife Hennessy Madeeha Khalid	20
21 Samuel Scott (1913-1980)	22 Natalia Kopteva Philip Gormley (1910-1973)	23	24 John Purser (1835- 1903)	25	26	27 Ralph Kenna Thomas Lyle (1860-1944) James Booth (1860-1878)
BANK HOLIDAY (NI) 28	29 Dáibhí Ó Cróinín John Herivel (1918-2011)	30	31			



Neil O'Connell was born 20 September in Cheshire, England, and grew up in Shannon, Clare. He was educated at TCD and at Berkeley. His career has taken him to many places, including Edinburgh, DIAS, Bristol, Paris, Warwick, and UCC. He is now at UCD and he has supervised 9 PhD students so far. His interests include probability, random matrices and integrable systems.

Astronomer **Ian Elliott** (1936-2015) was born 5 September in Bangor, Down. He was educated at TCD, and his entire career was spent at Dunsink Observatory. The biography of gentleman astronomer William Wilson which he had long worked on was completed by Charles Mollan and published in 2017.



Margaret Lillis (later Dunne, 1887-1960) was born 1 September in Querrin, Kiltrush, Clare. She obtained an NUI BA via study at St Mary's University Centre in Eccles St, Dublin, and then taught at the Dominican College there until marrying.

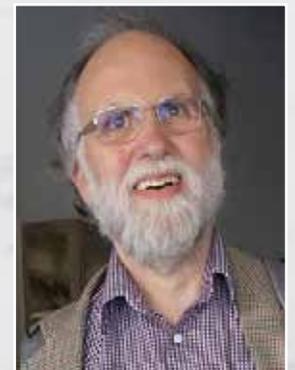


(Sara) **Eveline Tomlinson** (1900-1970) was born 14 September in Belfast, and was educated at QUB (BSc 1922, MSc in physics 1923). Her master's thesis on "Dynamics of the Top and Calculation of Path of Axis for a Given Top" was done under William Morton. Her career included stints as a lecturer, teaching in India and South Africa.



Colm Mulcahy was born 10 September in Dublin, and was educated at UCD and Cornell. Originally an algebraist, most of his career was spent at Spelman College in Atlanta. He is active in recreational maths and maths outreach, as well as in the documentation and celebration of Irish maths heritage. He authored the book *Mathematical Card Magic: Fifty-Two Nifty New Effects*.

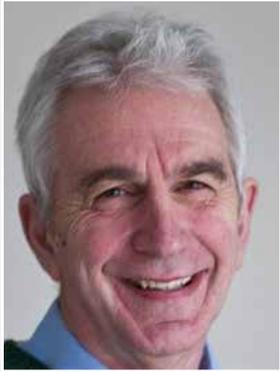
Sam Patterson was born 7 September in Belfast, and was educated at Cambridge and Göttingen. An analytical number theorist, his career has mostly been spent at Göttingen, where he supervised 18 doctoral students and authored the book *An Introduction to the Theory of the Riemann Zeta-Function*. A conjecture of his updating one of Gauss's was finally proved in 2021.



September

2023

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
				1	2	3
				Mary Mulvihill (1959-2015)	Joseph Spelman (1932-2016)	Olive McCormick (1889-1989) Maud Meyer (1862-1924)
4	5	6	7	8	9	10
Annie McElderry (1874-1968)						Edward Stringer (1919-1956)
11	12	13	14	15	16	17
Jack McConnell (1945-2013) Joseph Everett (1831-1904)		Patricia Eaton	Roger Kyle (1927-1952) Eveline Tomlinson (1900-1970) Charles Niven (1845-1923)		Martin L. Newell Henry Biggs (1882-1934)	Caroline Brophy
18	19	20	21	22	AUTUMN EQUINOX 23	24
Swift Johnson (1857-1918)		Neil O'Connell Tom Benson (1916-2020)	Tom Carroll	Ted Hurley	George Huxley (1932-2022)	
25	26	27	28	29	30	
Carl Murray George Salmon (1819-1904) Maths Week Scotland	Maths Week Scotland	Patrick d'Arcy (1725-1779) Maths Week Scotland	George Allman (1824-1904) Maths Week Scotland	Anca Mustata Maths Week Scotland	Robert Adrain (1775-1843) Maths Week Scotland	



Meteorologist and climatologist **John Mitchell** was born 7 October in Belfast, and was educated at QUB. His career was mostly spent in the UK meteorology service, eventually becoming director of climate science there. For many years, he was the most cited scientist on global warming.

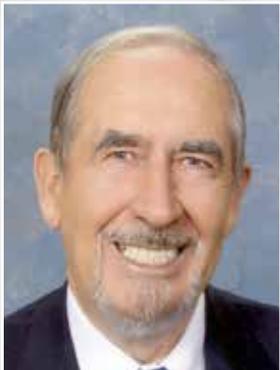
Mathematics education specialist **Joe Travers** was born 4 October in Portlaoise, Laois. He was educated at TCD, Maynooth, and QUB. He taught at the primary level for a decade before joining the staff at St Pat's, Drumcondra. He is currently the (first) Head of School of Inclusive and Special Education at DCU.



Éamon de Valera (1882-1975) was born 14 October in NYC, and he grew up mostly in Bruree, Limerick. He was educated at UCD, and taught maths for over a decade at various schools and at Maynooth, before turning to nationalist activities. He had a long career in politics, ultimately serving as President of Ireland. In 1940, as Taoiseach, he initiated the foundation of the DIAS.



Physicist **Ernest Walton** (1903-1995) was born 6 October in Dungarvan, Waterford, and his family moved around Ireland a great deal when he was young. He studied maths and physics at TCD and Cambridge, and his “splitting the atom” with John Cockcroft in the early 1930s lead to the two men later sharing a Nobel prize. He lectured at TCD for 4 decades.



Bob McFadden (1934-2021) was born 7 October in Belfast, and was educated entirely at QUB. He taught at QUB until for a while, then at Northern Illinois University west of Chicago, and finally at the University of Louisville in Kentucky. His research was mostly in semigroups.

Applied mathematician **Martin Meere** was born 5 October in London, and was brought up just outside Ennis, Clare. He was educated at UCG, UCD, and Nottingham. His career has been spent at NUIG. His current interests are in the mathematical modelling of drug delivery and some systems in molecular biology. He has supervised several PhD students.



October

2023

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
						1 Stefan Hutzler Alfred O'Rahilly (1884-1969) Maths Week Scotland
2 Jerry Dwyer Arthur Conway (1875-1950)	3 Maurice O'Reilly	4 Joe Travers Mark Walsh Space Week	5 Martin Meere Julian Mac Airt (1938-2012) Space Week	6 Claus Köstler Ernest Walton (1903-1995) Space Week	7 Bob McFadden (1934-2021) Space Week	8 Paddy Johnson T. Brendan Murphy Dane Flannery Patrick Wayman (1927-1998) Space Week
9 Space Week	10 Graham Ellis Ada Lovelace Day Space Week	11	12	13 Ernan McMullin (1924-2011) Pádraig de Brún (1889-1960) John G. Smith (1881-1968)	14 Eabhnat Ní Fhloinn Éamon de Valera (1882-1975) Maths in the City Dublin Maths Week Ireland	15 Anthony Small Frank Hodnett (1939-2011) Munster Maths and Science Fair Maths Week Ireland
16 Philip Maini RIA Hamilton Lecture Hamilton Day Maths Week Ireland	17 Denis Weaire Maths Week Ireland	18 Phil Burke (1932-2019) Uno Ópik (1926-2005) Hugh Combe (1907-1984) Robert MacFarland (1860-1922) Maths Week Ireland	19 Olivia Fitzmaurice Maths Week Ireland	20 Rafael Moral Paddy Barry (1930-2021) Maths Week Ireland	21 Maths in the City Belfast Maths Week Ireland	22 Robert Manning (1816-1897) Robert Dixon (1812-1885) Maths Week Ireland
23 Percy McCormack (1929-2015)	24 Owen McGrath	25 Brian Greer	26 Martin Bridgeman	27	28 Derek McNally (1934-2020)	29 Peter Taylor Garfield Woods (1906-1973)
OCTOBER BANK HOLIDAY (RoI) 30	31 Martin Stynes Tony Seda					

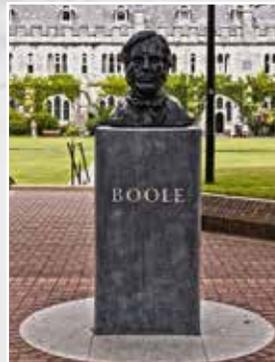


Maths education expert **Mary Cunneen** was born 19 November in Dublin. She was educated at UCD, and taught maths for many years at the secondary level. Later, she completed postgraduate degrees in education back at UCD, where she now lectures in mathematics education for post-primary teaching on the initial teaching education programmes.

Kevin Moroney was born 2 November in Ballyduff Upper, west of Lismore, Waterford, and was educated at UCC and at UL. His career so far has been spent at MACSI/UL, where his research is on mathematical modelling. Recent studies have included the flow and extraction of coffee from coffee beds, contact lens hydration, and drug release from tablets in in-vitro dissolution processes.



Mathematician and logician **George Boole** (1815-1864) was born 2 November in Lincoln, England. Despite being largely self-taught, in 1849 he secured a job as professor of mathematics at Queen's College, Cork. Sadly, he died relatively young. His legacy includes Boolean algebra, which laid the foundations of the information age. His wife Mary and their daughter Alice also made contributions to mathematics.



Amy Woods (later **Rentoul**, 1894-1980) was born 10 November in Downpatrick, Down. She was educated at QUB, earning two master's by thesis. She was appointed demonstrator of physics at QUB and also served as lecturer in maths there until she married. She spent most of the rest of her life in Truro, Cornwall.



Helena Šmigoc was born 13 November in Celje, Slovenia, and was educated entirely at the University of Ljubljana. Most of her career so far has been spent at UCD. Her interests include linear algebra, specifically spectral properties and simultaneous reduction of matrices, and spectral graph theory.

David Reynolds was born 20 November in Ilford, Essex, and grew up mostly in Bath. He was educated at Oxford and at Carnegie Mellon. His career has been spent at DCU, where he supervised 5 PhDs. His interests include continuum mechanics, dynamical systems with memory, Volterra integral and functional differential equations.



November

2023

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
		1	2	3	4	5
		Ted Stringer (1926-2015)	Kevin Moroney Anthony Traill (1838-1914) Henry Smith (1826-1883) George Boole (1815-1864)	Michael McGettrick	Cathal Cumming	John Sheekey David Jackson Alan Newell
6	7	8	9	10	11	12
Charles Graves (1812-1899)	John Lennox Neil O. Dobbs (1917-1963) John Fraser (1868-1950)	Bob Critchley (1948-2007) Bram Stoker (1847-1912)	Gordon Lessells Fred Klotz (1943-1988)	Amy Woods (1894-1980)	Paul Grimes Jim O'Reilly (1916-1978) Charles MacGarry (1877-1936)	Gerard Murphy (1948-2006) Science Week (RoI)
13	14	15	16	17	18	19
Helena Šmigoc James Thomson (1786-1849) Science Week (RoI) Maths week England	Harun Šiljak Science Week (RoI) Maths week England	Science Week (RoI) Maths week England	Catherine Comiskey Siddharta Sen Donal Linehan (1923-2006) Stanley Lyon (1882-1975) Science Week (RoI) Maths week England	Science Week (RoI) Maths week England	David Bates (1916-1994) Barry Spain (1914-2007) Science Week (RoI)	Aisling Twohill Matt McCarthy (1938-2017) A.J. McConnell (1903-1993) Science Week (RoI)
20	21	22	23	24	25	26
	Sean Swords (1930-2012)	Michele Destrade		Tony Dorlas	IAMTA (Irish Applied Maths Association) formed (2006)	David Galvin
27	28	29	30			
		Brendan Steen (1921-2015) Colm Barry (1906-1976) Joseph Galbraith (1818-1890)				

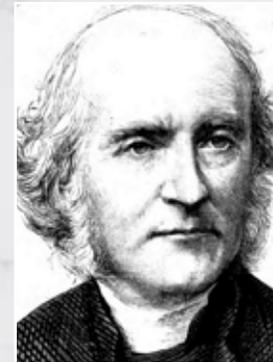


Bob Shorten was born 2 December in Dublin, and was educated in electrical engineering at UCD (and at Daimler Benz Research in Berlin). He co-founded the Hamilton Institute at Maynooth, and supervised 12 PhD students while there. He is now at Imperial College in London. His interests include control theory and dynamics, hybrid dynamical systems, networking, distributed ledger technology, and linear algebra.

Eleanor Moss (1864-1946) was born 18 December in Dublin and was awarded an RUI BA via private study, followed by an Intermediate Certificate in Science from the University of London. She taught in Dublin and Cumbria before being appointed headmistress at Edgbaston College in Birmingham.



John Graves (1806-1870, brother of Robert and Charles) was born 4 December in Dublin. He studied science and classics at TCD, as a classmate and friend of Hamilton, and then pursued law in London. Throughout, he maintained a parallel career as a mathematician and avid collector of maths books and pamphlets. One of his notable discoveries, from late 1843, was octonions, an extension of Hamilton's quaternions.



Charles Graves (1812-1899, brother of Robert and John) was born 6 December in Dublin. He was educated at TCD and taught maths there for several decades before becoming Bishop of Limerick, Ardfert and Aghadoe for the second half of his career. He was also an expert in Ogham inscriptions and Brehon laws.



David Tipple (1942-2022) was born 7 December in Manchester, and was educated entirely at the university there, training as an algebraic topologist. He spent his whole career at UCD, where he incorporated programming into his courses in the 1980s. He was also an early adopter of TeX. In the 1990s, he played a leading role in introducing, designing and delivering UCD's Honours BA in Mathematical Studies. He was active in the IMS over the years, and helped to draft the current constitution.

Jim Muldowney (1939-2022) was born 25 December near Thomastown, Kilkenny, and was educated at UCG and the University of Alberta in Edmonton, where he spent almost all of his career. His interests included differential equations and dynamical systems. He supervised 3 PhD students. His brother Pat is also a mathematician.

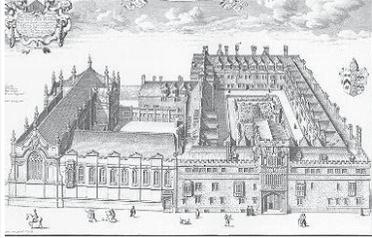


December

2023

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
				1	2	3 Declan P. Quinn Chris Brennan Jim Flavin (1936-2012) John Donaghey (1878-1949)
4 John Graves (1806-1870)	5 Maura Clancy Tom Laffey	6	7 Brendan Guilfoyle Peter McPolin (1955-2020) David Tipple (1942-2022) Benno Moiseiwitsch (1927-2016) Paddy Quinlan (1919-2001)	8 Raymond Flood Mike Carroll (1936-2016)	9 Ollie Mason	10
11 David Madigan Allan Isaac (1936-2013)	12	13 Ian Taylor Tony Wickstead James Taylor (1929-2020) Bill McCrea (1904-1999) Eoghan McKenna (1891-1967)	14	15	16 Anthony Cronin Andrew Young (1919-1992)	17 Maurice Kennedy (1924-1994) Grace Acheson Faris (1885-1973)
18 Eleanor Moss (1864-1946)	19	20 Dave Redmond W. Snow Burnside (1839-1920)	21 Samuel Haughton (1821-1897) First meeting of the Dublin Statistical Society (1847)	22 WINTER SOLSTICE John Harding (1911-1985?) Nicholas Callan (1799-1864)	23	24 Jane Breen Harry Thrift (1882 - 1958)
CHRISTMAS DAY 25 Sonia Balagopalan Tom Sherry Jim Muldowney (1939-2022) John Malet (1847-1901) Patrick Dineen (1840-1934)	ST STEPHEN'S DAY / BOXING DAY 26	27 David Callan Rex Dark (1943-2022)	28	29 Hugh Holohan (1892-1957)	30 Claire Gormley	31 Mary McDonald (1900-1931)

There are many notable people for whom we cannot say what month they were born; there are even some for whom the year of birth is uncertain. To ensure that they are not lost to history in our annual wall calendars project, we are highlighting 6 of them on a bonus page of biographies this year.



Mathematician and physician **Charles Willoughby** (1630?-1694) was possibly born in Cork, and was educated at Oxford and Padua. He was a member of the Irish College of Physicians and was essentially the first President of the Dublin Philosophical Society. He also did a term as Donegall lecturer of mathematics at TCD.

Botanist, mathematician and doctor **William Clement** (1707-1782) was born in Carrickmacross, Monaghan, and was educated at TCD. He first taught botany, then was appointed the third Erasmus Smith's professor of natural & experimental philosophy, and was also Donegall lecturer of maths. He later taught medicine for 20 years, and served as vice-provost.



Francis Tarleton (1841-1920) is believed to have been born in Tyholland, east of Monaghan town. He was educated at TCD, and spent his entire career there. He was Prof of Natural Philosophy from 1890 to 1901, and served as vice provost. He authored books on dynamics and the mathematical theory of attraction, and later viewed Einstein's theory of relativity as being in the same category as Bolshevism.



Physicist **Alexander Larmor** (1858?-1936), younger brother of Joseph, was born in Magheragall, Antrim, and was educated at Queen's Belfast and Cambridge. Most of his career was spent teaching at the Londonderry Academy, where he served as head, and at Magee College. He authored some books on Euclid's geometry.



Matthew Fry (1863-1943) was born in Kilkeedy, southwest of Gort, Clare, and grew up there and near Corbally, Roscrea, Tipperary. He was educated at TCD, later becoming University Professor of Natural Philosophy there. He also served as junior dean.

Lillie Geale (1872-1949) was born in Drogheda, Louth, and was first educated at Kelvin House in Belfast. She first taught at Belmont Ladies College and at the Girls' High School in Orrington House there, the latter co-founded with her sister Edith. She was then assistant to AC Dixon on the QUB maths staff, the first woman on maths staff at QUB, during which time she was awarded an MA by thesis. She was also an examiner for the Intermediate Examination Board.



January

2024

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
<small>NEW YEAR'S DAY</small> 1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				



IRISH MATHEMATICS CALENDAR 2023



This calendar, an annual treat since 2016, is a by-product of the **Annals of Irish Mathematics and Mathematicians**, which was founded at the end of 2014. AIMM is an entirely volunteer online initiative, which aims to celebrate Irish mathematics and mathematicians both historic and modern: illustrating the proud historical and strong contemporary contribution to the world of mathematics and its applications, and consequently to the world at large. The project includes the **Gallery of Irish Mathematicians** (accounting for over 5000 people), the Library of Irish Mathematics (over 1000 books), the **Atlas of Irish Mathematics** (county by county listings, we are more than 90% done there) and regular **Maths Ireland Blogs** of relevance.

The project and blogs can be found on www.mathsireland.ie and followed on twitter at [@IrishMathsFacts](https://twitter.com/IrishMathsFacts)

Maths Week Ireland was established in 2006 to promote mathematics and its applications across the island of Ireland it quickly grew into the biggest festival of its kind in the world, reaching an estimated 500,000 people in 2022. It is coordinated by Calmast STEM Engagement Centre at South East Technological University. Taking place every October in the week including the 16th (Hamilton Day), it is a partnership of universities, institutes of technology, teacher-training colleges, further education, professional bodies, visitor centres and other groups concerned with mathematics. More information can be found at www.mathsweek.ie or by following [@mathswweek](https://twitter.com/mathswweek) on twitter.



An Roinn Oideachais
Department of Education

