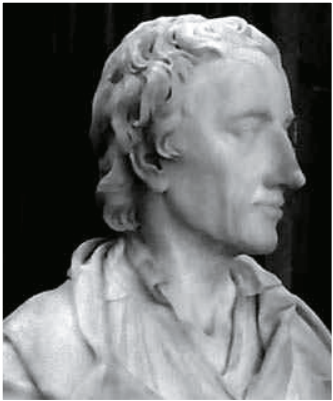


# Irish Mathematics Calendar 2021







**Robert Boyle** (1627-1691) was born 25 Jan in Lismore, Waterford, and as a child was educated privately and at Eton, as well as in Italy. He was one of the most important figures of the period known as the Scientific Revolution. He worked to put chemistry on a mathematical foundation, and is best known for Boyle's law which describes the inversely proportional relationship between the pressure and volume of a gas.



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.

Computer scientist **Fred Mtenzi** was born 26 January in Tanzania. He was educated at the University of Dar es Salaam and UCD. He taught for many years at DIT, and is now back in Dar es Salaam at Aga Khan University. His expertise includes operations research, cybersecurity, and big data. He has supervised numerous doctorates, both in Ireland and in Tanzania.



**Neil B. Dobbs** was born 26 January in Waterford city and was educated at TCD and Paris. His career so far has included positions in Warsaw, Stockholm, New York, Helsinki and Geneva. He is now at UCD, where his interests include measure-theoretical behaviour of chaotic dynamical systems and the geometric properties of Julia sets.



Physicist **Edith Stoney** (1869-1938) was born 6 January in Dublin, daughter to George Stoney who coined the term "electron." She aced her maths studies at Newnham College at Cambridge, although they didn't allow women to graduate; TCD later awarded her degrees. She had a remarkable career in physics and medical physics.



Data Scientist and astronomer **Aaron Golden** was born 23 January in London and grew up in Bray, Wicklow, and in Dublin. He was educated at TCD, QUB and NUIG, and also has expertise in bioinformatics and genomics. Most of his career has been spent at NUIG where he has supervised over 10 PhDs.

# JANUARY



# 2021

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
				1 NEW YEARS DAY  Robert Sheehy	2 Walter Heitler (1904-1981) Bill Wann (1925-2011)  Irish mathematics Teachers Association founded, 1964	3
4	5  John Cosgrave	6 Edith Stoney (1869-1938) Brendan O'Shea  BTYSTE	7  BTYSTE	8 Ray Flannery (1941-2013) Peter McCullough  BTYSTE	9  Kevin McGerty	10
11  Charlie Daly (1929-2000)	12  Brian McMaster	13 David Simms (1933-2018) Ken Houston  The Irish Mathematical Society's annual conference, DCU	14  The Irish Mathematical Society's annual conference, DCU	15 Sheila Power Tinney (1918-2010)  The Irish Mathematical Society's annual conference, DCU	16 Sean Tobin Colm O'Muircheartaigh Annette Pilkington Jerry Murphy	17  Alfred Robb (1873-1936)
18  William Houston (1871-1953)	19	20 William Bindon Blood (1817-1894) John McCarthy Colin Turner	21	22 Barbara Yates (1919-1998) Brendan Goldsmith  John Hooper award regsitration deadline	23  Aaron Golden Niamh O'Meara	24
25 Robert Boyle (1627-1691) Gerry McGreevy (1929-2015)  Robert Boyle Winter School RDS	26 John Hooper (1878-1930) Eric Lindsay (1907-1974) Neil B. Dobbs Fred Mtenzi	27	28 Harry Kennedy (1887-1968) Des MacHale Paul McNicholas Louis Aslett	29  Andrew Whitaker	30  Coulter McDowell (1932-1993)	31  David Hobbs





**Kay McNulty** (1921-2006) was officially born 12 February in Creeslough, Donegal, and grew up in Philadelphia. She earned a maths degree there and went on to become a pioneering computer programmer on the ENIAC. History remembers her under her later married names (Mauchly and Antonelli).

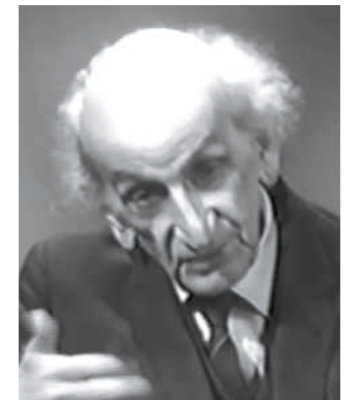


Statistician and bioinformatician **Laura Kirwan** was born 26 February in Dublin and was educated entirely at UCD. After several years at WIT and then back at UCD, she is now head of research at Cystic Fibrosis Registry of Ireland.

**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 Irish born and educated woman to get a doctorate in maths.



Mathematical physicist **Cornelius Lanczos** (1893-1974) was born 2 Feb in Budapest, Hungary, and was educated there and in Szeged. After 30 years in academia in Germany and the USA, he worked at the Dublin Institute of Advanced Studies from 1952 to 1968, giving many public lectures and writing several books aimed at the broad public.



**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.



Mathematical education expert **Lorraine Harbison** was born in February in Dublin and was educated at St Pat's, Drumcondra and at Newcastle upon Tyne. She was head of maths at CICE in Rathmines, until its merger with DCU where she now focuses on inclusion and mathematical understanding in the primary years.

# FEBRUARY



# 2021

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	2 Cornelius Lanczos (1893-1974) Gearóid Granville (1915-2000)	3	4 Terry Maguire Dara Ó Briain	5 André Darré (1750-1833) Bartholemew Lloyd (1772-1837) Stanley Traynor (1916-1994) Stephen O'Brien (1918-1992) Fiona Boland	6 Dan Dundas	7
8 Francis Edgeworth (1845-1926) Stephen Buckley	9 Charles Rowe (1893-1943) Mick Mortell	10 Agnes Clerke (1842-1907)	11 Vincent Hart Elizabeth Oldham	12 Kay McNulty (1921-2006) John O'Sullivan (1948-2006) Seán Dineen	13	14 John Perry (1850-1920)
15 George Stoney (1826-1911) Sophie Wilcock Bryant (1850-1922) Mary de Lellis (1882-1983) Ray Ryan	16 Petros Florides	17 William Morton (1868-1949) Fintan Gallagher	18 Arthur Kingston Paddy Dolan (1935-2020)	19 Thérèse Dooley	20 John Connolly Joseph Varilly Stephen Scully	21 David Lewis Donal O'Regan
NI Science Festival	NI Science Festival	NI Science Festival	NI Science Festival	NI Science Festival	NI Science Festival	NI Science Festival
22 Maeve McCarthy	23	24 Gordon Foster (1921-2010) Siobhán O'Shea Vernon (1932-2002) John O'Donoghue	25 Jim McConnell (1915-1999) Norma Bargary	26 Arthur Donnelly (1885-1973) John Hooper Medal poster deadline	27 John A. Ryan Engineers Week	28 William Thrift (1870-1924) Engineers Week
NI Science Festival	NI Science Festival	NI Science Festival	NI Science Festival	NI Science Festival	NI Science Festival	NI Science Festival





**Eleanor Walsh** (née Meehan) was born 9 March in Dungarvan, Waterford, and was educated at Maynooth and UCD. She has taught at Maynooth, St Patrick's (Drumcondra), Dundalk IT and Limerick IT. She now works at Business in the Community Ireland, supporting programmes focused on educational inclusion, literacy and numeracy. She developed the national numeracy programme called *Time to Count* for 3rd class children.



**Dermot McLain** (1932-2004) was born 25 March in Coleraine, Londonderry, and was educated at QUB and Cambridge. His career was spent at Glasgow, Cardiff and at Sheffield, where he was director of computing services. He published on curve fitting as well as group theory, and McLain groups are named after him.

**Pádraig Kirwan** was born 18 March in Dundalk, Louth. He was educated at UCG and Kent State University (Ohio), and back at UCG as it became NUIG. Most of his career has been spent at WIT, where he has also served as head of computing & mathematics.

While he originally worked in infinite dimensional analysis, currently he enjoyed mathematical modelling in chemistry.



Biostatistician **Marie Reilly** was born 15 March in Multifarnham, Weatmeath. She was educated at first at UCG, then taught at Kevin St and elsewhere. She did her PhD at the University of Washington in Seattle. After spells at UCD and UCC, she settled at the Karolinska Institute in Stockholm.



**Pat Norris** was born 21 March in Dublin. He was educated at UCD, and spent his career in industry, first working for NASA and the European Space Agency, and later becoming Chairman of the trade association of Britain's space industry. He has written several books on the space age.



**Eva Wills** (1925-2010) was born 27 March in Dublin, and was educated at TCD. She worked at DIAS from the early 1950s and was Librarian Executive there in the 1980s.

# MARCH



# 2021

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	2 Gerry Gardner (1926-2009) Nora Ní Chuiv Mairéad Greene	3	4	5 George Hall (1925-2018) Iggy Ó Muircheartaigh  Scifest@college Deadline	6  James McNeill (1853-1907)	7
Engineers Week	Engineers Week	Engineers Week	Engineers Week	Engineers Week		
8	9  John Forde (1918-2004)	10  Eugene Gath	11  Mary Everest Boole (1832-1916) Lochlainn O'Raifeartaigh (1933-2000)	12  George Berkeley (1685-1753)	13  Cyril Delaney (1925-2012)	14 Tadhg Carey (1919-1995) Mike Fitzpatrick
15 John Faris (1913-2011) Marie Reilly Mark Leeney Aisling McCluskey	16 Aoibhinn Ní Shúilleabháin Michael Clancy	17 ST. PATRICK'S DAY  Paddy Heelan (1926-2015) Michael P. Tuite Götz Pfeiffer	18  Bill Stephens (1913-2001)	19  Henry Atkins (1896-1957)	20 SPRING EQUINOX  Jane Molyneux (1887-1920) Peter Gallagher	21 Michael J. Walsh Pat Norris Werner Nahm Neil Hallinan
22  Diarmuid Ó Mathúna	23  Cyril Power (1890-1970) John L. Synge (1897-1995)	24	25  David Spearman	26 Hugh Hamilton (1729-1805) Edward Bromhead (1789-1855) Mary Hanley Cormac O'Raifeartaigh John Hooper Medal winner announced	27  Eithne Donnelly (1900-1989) Eva Wills (1925-1995)	28  John Kennedy (1939-1995)
29	30  Micheál Mac an Airchinnigh	31  Donal J. Hurley Paul Feehan				





Statistician **Roy Geary** (1896-1983) was born 11 April in Dublin, and was educated at UCD and the Sorbonne. He had a long career in the Department of Industry and Commerce, before leading both the Central Statistics Office and the Economic and Social Research Institute. His name lives on in the Stone–Geary utility function, the Geary–Khamis dollar, and elsewhere.



**Brian Murdoch** (1930-2020) was born 3 April in Warwickshire, England, and grew up Dublin. He was educated at TCD and at Princeton. Most of his career was back at TCD, where he later served as Erasmus Smith's Prof of Maths. His principal interests were in random walks, stochastic processes and probability

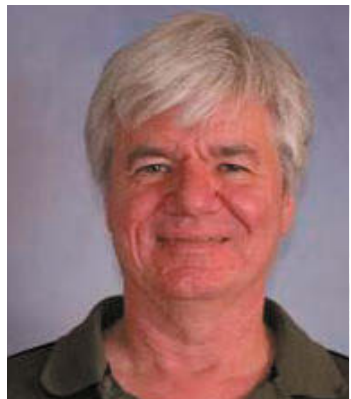
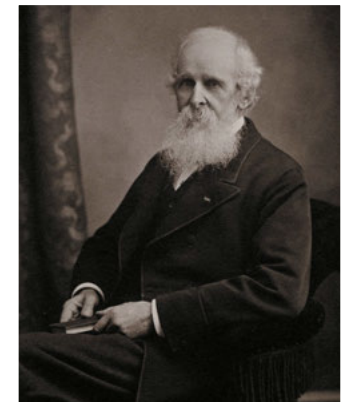
**Richard Townsend** (1821-1884) was born 30 April in Baltimore, Cork, and was educated at TCD, where he spent his whole career, ultimately as University Professor of Natural Philosophy. He authored the highly regarded *Chapters on the Modern Geometry of the Point, Line, and Circle Vol I*.



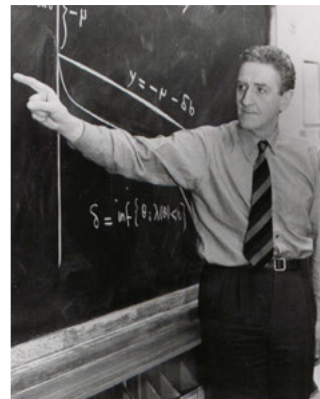
Astronomer **Andrew Graham** (1815-1908) was born 8 April in Irvinestown, Fermanagh.

His career included two decades at Markree Observatory in Sligo followed by four decades at Cambridge Observatory.

He computed and predicted orbits mathematically, catalogued about 75,000 stars, and gained fame for discovering an asteroid.



**Eugene Curtin** was born 3 April in Athlone, Westmeath, and grew up there, in Longford, and in Dublin. He was educated at UCD and at Brown University. His entire career has been spent at Texas State University in San Marcos. His interests include differential geometry, combinatorics, and game theory.



Mathematical physicist **John Lewis** (1932-2004) was born 15 April in Swansea, Wales, and was educated at QUB. He taught at Oxford, and then spend 25 years at DIAS. His areas of interest included quantum measurement, Bose–Einstein condensation and large deviations theory, and he supervised about 30 doctoral theses.



# April



# 2021

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
			1	2 GOOD FRIDAY Michael Power (1885-1974)	3 Dionysius Lardner (1793-1859) Richard Townsend (1821-1884) Eugene Curtin Jill Tysse	4 EASTER SUNDAY
5 EASTER MONDAY	6 Peter McNamara	7 Sean Lacey	8 Andrew Graham (1815-1908) Tom Linehan (1926-2017) Olga O'Mahony	9	10	11 R.C. Geary (1896-1983)
12	13 21st ECMI Conference on Industrial and Applied Mathematics	14 Anne Russell Maunder (1868-1947) Eoin Long Irish Mathematical Society founded 1976 21st ECMI Conference on Industrial and Applied Mathematics	15 John T. Lewis (1932-2004) David Malone 21st ECMI Conference on Industrial and Applied Mathematics	16	17 William Molyneux (1656-1698) Mark McCartney John Hooper Medal winner announced	18 George Keating (1902-1973) SciFest@College deadline John Hooper Medal winner announced
19 John MacFarland (1851-1935) James Cullen (1867-1933) Hugh Alexander (1909-1974) James Gleeson John Hooper Medal winner announced	20 Phil Boland John Hooper Medal winner announced	21 William Monck (1839-1915) Peter Hogan John Hooper Medal winner announced	22 James McMahon (1856-1922) John Hooper Medal winner announced	23 Thomas Robinson (1792-1882) John Hooper Medal winner announced	24 Norma Glasgo Reid	25 Dermott McCrea (1934-1993)
26 Richard Beatty (1882-1941) Bobbie Elliot (1924-2006) Kevin Hutchinson	27	28 John Toland	29 Cormac Smith (1926-2009)	30 Sally McClean		





**John Casey** (1820-1891) was born 12 May in Kilbehenny, Limerick. He graduated from TCD in middle age, and later became the most accomplished mathematician at the Catholic University of Ireland. He was one of the founders of the modern geometry of triangles and circles, and his legacy includes popular books on geometry and a theorem generalising Ptolomy's theorem.



**George Harry Hitching** was born 11 May in Ennis, Clare, and was educated at Maynooth, Warwick, Durham, and Nice. Most of his career has been spent in Norway, where he now works at Oslo Metropolitan University. His research interests are in algebraic geometry, in particular vector bundles over algebraic curves.

Astronomer and astrophysicist **Mary Brück** (née Conway, 1925-2008) was born 29 May in Ballivor, Meath. She was educated at UCD and at Edinburgh. Her career started at Dunsink, but was mostly at the Royal Observatory in Edinburgh. Her extensive publications include the books *The Night Sky* (1965), *Agnes Mary Clerke and the Rise of Astrophysics* (2002) and *Women in Early British and Irish Astronomy: Stars and Satellites* (2009).



Physicist **Alexander Anderson** (1858-1936) was born 16 May in Camus, Coleraine, Londonderry, and was educated at Queen's Galway and Cambridge. He was on the Galway staff for half a century, where he also served as president. He is credited as being the first to consider black holes as real physical entities, in a 1920 paper.



Mathematical physicist **John Gough** was born 20 May in Drogheda, Louth, and was educated entirely at UCD. After a few years at Maynooth, Rome and TCD, he settled at Aberystwyth, Wales. He co-authored the book *Quantum Fields and Processes—A Combinatorial Approach*. He also composes jigs and reels.



Electrical engineer and mathematical physicist **Brendan Scaife** was born 19 May in London, and was educated at Queen Mary College there. Since the 1950s, he's been based in Dublin, first at DIAS and Kevin St, then at TCD. He has done pioneering work on the theory of dielectrics, has supervised dozens of theses and written six books.



# MAY



# 2021

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





**Muriel Wales** (1913-2009) was born Muriel Kennett 9 June in Belfast. She grew up in Vancouver, Canada, and was educated at the University of British Columbia and the University of Toronto. Her 1941 PhD in algebra is notable for the era. She spent most of the 1940s working in atomic energy, in Toronto and Montreal.

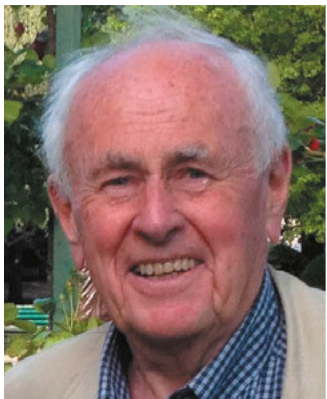
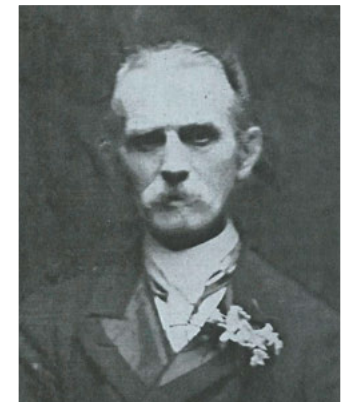


Poet **Brian Coffey** (1905-1995) was born 8 June in Dublin, and was educated to masters level in maths in UCD. He also pursued studies in chemistry and philosophy in France. His career included decades of teaching maths in England, but he is best remembered as an experimental poet.

**Richard MacDonnell** (1787-1867) was born 10 June in High Park, near Douglas, Cork. He was educated at TCD, and was on the staff there for half a century after a brief period practicing law. Early in his career he was Donegall lecturer of maths, and he also served as professor of oratory, laws and Greek. He was also a revolutionary provost, and a supporter of Catholic Emancipation.



**Edward Hughes Dowling** (1854-1940) was born in June in Ballyloo, Carlow, and was educated at the University of London. He taught on the continent, then at St Patrick's College in Carlow and at UCD, and at various secondary school for another 30 years, also serving as inspector for the Intermediate Board. His brother Patrick also had a maths career.



Theoretical physicist **Jim Boyd** was born 21 June in Larne, Antrim, growing up there and at Sliabhán, Glenarm. Educated entirely at QUB, he spent long periods of his career at Bangor and Essex, and more recently at ININ, Mexico. His research interests include nonlinear plasma waves, plasma radiation and ultra-relativistic laser-plasma physics. He has supervised about 30 research students and written 7 books.



**Susan Lazarus** was born 25 June in Ohio, USA, and was educated at Pomona College, Berkeley and UCD. Her career has been spent at DIT where her interests include algebra and number theory.



# JUNE



# 2021

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	<b>1</b> Helen Megaw (1907-2002) Edmund Robertson	<b>2</b> William Coates (1857-1912) Ralph Henstock (1923-2007) Alexei Pokrovskii (1948-2010)	<b>3</b> Jim Callagy (1908-1988) Murrough Golden	<b>4</b> Donal McCarthy (1908-1980) Rod Gow Miguel Bustamante	<b>5</b> Agnes (Molly) Perry (1882-1963) Margaret White (1909-1975) Séamus Hanley Joan Cleary	<b>6</b>
<b>7</b> JUNE BANK HOLIDAY John S. Townsend (1868-1957)	<b>8</b> Alicia Boole Stott (1860-1940) George Hughes (1918-1994) Frank Fahy (1922-2005) Romina Garburro DIAS Act signed, 1940	<b>9</b> Muriel Wales (1913-2009)	<b>10</b> Jack Semple (1904-1985) Liam O'Carroll (1945-2017)	<b>11</b>	<b>12</b> Margaret McDonald (1906-1989)	<b>13</b> William Gosset (1876-1937)
<b>14</b> Thomas McLaughlin (1896-1971) Sarah Mitchell	<b>15</b>	<b>16</b>	<b>17</b> Terence Gorman (1923-2003)	<b>18</b>	<b>19</b> Maurice Jaswon (1922-2011) Peter Lynch	<b>20</b> Dave Cochran (1940-2013) 8th European congress of Mathematics, Slovenia
<b>21</b> SUMMER SOLSTICE Jim Boyd Fiacre Ó Cairbre	<b>22</b> Luke Drury Cora Stack	<b>23</b> James J. Smith (1892-1983) Derek Crothers (1942-2021)	<b>24</b>	<b>25</b> Samuel Verblunsky (1906-1996) Susan Lazarus	<b>26</b> William Thomson (1824-1907) Victor Meally (1911-1986) John J. Roche 9th Robert Boyle Summer School: Women in STEM	<b>27</b> Morgan Crofton (1826-1915) Charles Joly (1864-1906)
8th European congress of Mathematics, Slovenia	8th European congress of Mathematics, Slovenia	8th European congress of Mathematics, Slovenia	8th European congress of Mathematics, Slovenia	8th European congress of Mathematics, Slovenia	8th European congress of Mathematics, Slovenia	
<b>28</b>	<b>29</b> Phelim Boyle	<b>30</b>				





**Martin J. Newell** (1910-1985) was born 30 July in Galway, and was educated at UCG. He also studied quantum physics at Cambridge, before teaching at UCG for 40 years, finally serving as president of the college. He published 2 books as Máirtín Ó Tnúthail, including *Algébar Iolscoile* (1947). His son Martin L. Newell is an algebraist, and his grandson Johnnie Newell is a statistician.



**David Wilkins** was born 8 July in Eastbourne, Sussex, and was educated at Cambridge and Durham. His career has been spent at TCD. He is interested in the interactions between differential geometry and operator theory, and in the history of mathematics. He has done extensive research on the papers of Hamilton.

**Eleanor Nevill** (later Dobbs, 1917-1999) was born 28 July in Nurney, Carlow, and was educated at TCD. She married Neil Dobbs (see November), and their grandson Neil is a mathematician (see January). Following decades in the Gold Coast, she taught at Alexandra College until 1981. Her sister Cecily also got a maths degree.



**Cecily Nevill** (1921-2002) was born 10 July in Nurney, Carlow, and was educated at TCD. She taught at Royal Holloway for a while, and was then engaged in teacher training and student outreach in both Kenya and Bath, publishing in into her 70s. Her sister Eleanor also got a maths degree.



Engineer **Eoin Gill** was born 1 July in Dublin and was educated at UCD. He has long been at WIT, where he is co-director of the science outreach centre Calmast. He and Sheila Donegan run Maths Week, the world's biggest festival of its kind, which they founded in 2006. Maths Week engages over 400,000 children and thousands of adults annually throughout Ireland, via a mixture of school and public



**Doireann O'Kiely** was born 23 July in Johnstownbridge, Kildare, and was educated at UCD and Oxford. After a postdoc at the latter, she is now at the University of Limerick. She works on mathematical modelling of physical systems, such as fluid mechanics and elasticity, and in particular on the dynamics of thin viscous and elastic sheets.



# JULY



# 2021

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
			1 Robert Ball (1840-1913) Eoin Gill	2 Ross Geoghegan Diarmuid Ó Sé	3 Desmond McConnell Olivia Bree John Kinsella	4 Edgar Harper (1880-1916)
5 Arthur Lai Fook (1919-2013)	6	7 John Kells Ingram (1823-1907) J.P. McCarthy	8 David Wilkins	9 Ciarán Mac an Bhaird	10 Cecily Nevill (1921-2002)	11 Joseph Larmor (1857-1942) Lawrence Crane (1931-2021)
12 BATTLE OF THE BOYNE (NI)	13	14 Ivan Todorov	15 Jocelyn Bell Burnell Don McAllister	16 Marjorie Long (1886-1937)	17 William Davison (1937-2013) Richard M. Timoney (1953-2019)	18
Joint BSHM - CSHPM/SCHPM Conference, St.Andrews, Scotland	Joint BSHM - CSHPM/SCHPM Conference, St.Andrews, Scotland	Joint BSHM - CSHPM/SCHPM Conference, St.Andrews, Scotland	Joint BSHM - CSHPM/SCHPM Conference, St.Andrews, Scotland	Joint BSHM - CSHPM/SCHPM Conference, St.Andrews, Scotland		
19 Christine Horn	20 Paddy Kennedy (1929-1966) Brendan O'Sullivan	21 Áine Ní Shé Myrto Manolaki	22 George Kelly (1927-2009) Eugene Benilov Adrian Raftery	23 Helen Joyce Doireann O'Kiely	24	25 Robert Goodbody (1850-1911) Daniel J. O'Connell (1896-1982) John G. Byrne (1933-2016) Rachel Quinlan Mark Daly
26 Richard Watson	27 Richard Ingram (1916-1967) Michael Murtagh (1943-2001)	28 Carew Meredith (1904-1976) Eleanor Nevill (1917-1999) John Stewart Bell (1928-1990)	29 Sean Close Sinéad Breen	30 Martin J. Newell (1910-1985) Sara McMurry	Oliver Byrne (1810-1880) Killian Rohan (1916-1999) Oren Kolman (1959-2015)	



**William Hamilton** (1805-1865) was born 4 August in Dublin, and was educated and spent most of his career at TCD. His extensive legacy includes innovations in algebra, mechanics and optics. He invented quaternions, a non-commutative algebraic system predating matrices.



**Seán Mc Weeney** was born 11 Aug, in Aughnasheelin, Leitrim. He was educated at NUIG, UCD & TCD. He has taught at St Paul's CBS in Dublin, and more recently at Ardscoil Rís. He does outreach as Mr Math Weeney, in particular running virtual juggling maths workshops for transition year students across the country.

**Derek Kitson** was born 7 August in Dublin, and was educated entirely at TCD. He taught there and at the University of Lancaster before recently settling at St Patrick's College in Thurles. His interests include operator theory; discrete geometry, and combinatorics.



Amateur inventor **Percy Ludgate** (1883-1922) was born 2 August in Skibbereen, Cork, trained as an accountant, and spent several years in the civil service. In his spare time, he worked on the design of his own calculating machine, which used multiplication as its base mechanism. In 1909 he published a paper describing his "Irish logarithms".



Mathematical physicist **George FitzGerald** (1851-1901) was born 3 August in Dublin, and he was educated at TCD, where he also spent his career. He was a pioneer in electromagnetic theory, and his name lives on today in the Lorentz-FitzGerald contraction.



**Seamus Bellew** was born in August in Castleblakeney, Galway, and was educated at first at Maynooth, where he was awarded an NUI Travelling Studentship. After 2 years at the Univ Maryland College Park, he taught for a while at the North West Regional College (Londonderry). Since then, he has been at Dundalk IT.



# AUGUST



# 2021

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
						1
2 AUGUST BANK HOLIDAY (RoI) John Tyndall (1820-1893) Michael A. Hayes (1935-2017) Pauline Mellon	3 George Fitzgerald (1851-1901)	4 William Rowan Hamilton (1805-1865) Francis Murnaghan (1893-1976)	5 Joe McKenna	6	7 William Monypeny (1866-1912) Brendan McWilliams (1944-2007) Derek Kitson	8 Annraoi de Paor
9 Donal Garvey	10 Charlie Rogers	11 William Eakin (1912-1983) Lionel Lovitch John Miller	12 Erwin Schrödinger (1887-1961) Vincent Guerrini (1912-2000) Michael Mackey	13 George Stokes (1819-1903)	14	15
16 Felix Hackett (1882-1970)	17	18	19 Aoife Hennessy Madeeha Khalid	20	21 Samuel Scott (1913-1980)	22 Philip Gormley (1910-1973) Natalia Kopteva
23 CFT and Holography in Dublin	24 John Purser (1835- 1903) CFT and Holography in Dublin	25 CFT and Holography in Dublin	26 CFT and Holography in Dublin	27 James Booth (1860-1878) Thomas Lyle (1860-1944) CFT and Holography in Dublin	28 Caoimhín Ó Raghallaigh	29 John Herivel (1918-2011) Dáibhí Ó Cróinín
30 SUMMER BANK HOLIDAY (NI)	31					





Theoretical physicist **Sinead Ryan** from Millstreet, Cork, was born in September and was educated at UCC and Edinburgh. After a few years at the Fermi Lab, she joined the staff at TCD, where she serves as chair of theoretical high energy physics and head of the school of maths. She works on quantum chromodynamics and has supervised several doctorates.



Mathematical physicist and stratospheric chemist **Jack McConnell** (1945-2013) was born 11 September in Belfast, and was educated entirely at QUB. The bulk of his career was spent at York, in Toronto, focusing on Earth and space science. He was a chemical dynamical modeller specializing in the atmospheric chemistry on Mars, and he supervised over 30 PhD students. He also co-authored a book on Fortran.

**Tom Benson** (1916-2020) was born 20 September in Dungannon, Tyrone, and was educated at QUB. He spent most of his career at Larne Grammar School, where he was a very influential maths teacher. He lived to be 103.



Astronomer **Margaret (Maud) Meyer** (1862-1924) was born 3 September in Strabane, Tyrone, and grew up there, in Italy and in England. She was educated at Girton, where she ended up teaching for 30 years, and then taught at University College London. She was Ireland's first female career academic in maths, as well as being an early member of the LMS, and much later the first Irish female member of the RAS.



**Annie Glanville** (1876-1922) was born 21 September in Dublin, and earned a UCD BA. She taught in Dublin and Belfast before settling in Cardiff, where she taught at Howard Gardens Municipal Secondary School. She died relatively young.



**Henry Biggs** (1882-1934) was born 16 September in Galway, grew up there and in Enniskillen, Fermanagh, where his mathematically trained father Richard was headmaster at Portora. He was educated at TCD and Manchester. His career included stints there as well as at the Cavendish Lab and Oxford. He authored the books *Wave Mechanics: An Introductory Sketch* and *The Electromagnetic Field*.



# SEPTEMBER



# 2021

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		1 Mary Mulvihill (1959-2015)	2 Joseph Spelman (1932-2016)	3 Maud Meyer (1862-1924)	4 Annie McElderry (1874-1968)	5
6	7	8 Matrix 2020, Paris 2nd IMA Conference on Mathematics of Robotics	9	10 Edward Stringer (1919-1956)	11 Joseph Everett (1831-1904) Jack McConnell (1945-2013)	12
13 Patricia Eaton	14 Charles Niven (1845-1923) Eveline Tomlinson (1900-1970) Roger Kyle (1927-1952)	15	16 Henry Biggs (1882-1934) Martin L. Newell	17 Caroline Brophy	18 Swift Johnson (1857-1918)	19 Frontiers of Physics, MU
20 Tom Benson (1916-2020) Neil O'Connell	21 AUTUMN EQUINOX Annie Glanville (1876-1922) Tom Carroll	22 Ted Hurley	23 George Huxley	24	25 George Salmon (1819-1904) Carl Murray	26
27 Patrick d'Arcy (1725-1779)	28 George Allman (1824-1904)	29 Anca Mustata	30 Robert Adrain (1775-1843)			
Maths week Scotland	Maths week Scotland	Maths week Scotland	Maths week Scotland			





**Anthony Small** was born 15 October in London, to Irish parents, and was educated at Warwick. Following stints at Aberystwyth, MPI (Bonn), Dundee and ICTP Trieste, he settled at Maynooth. His interests include minimal surfaces, CMC surfaces, monopoles, and projective structures on Riemann surfaces.



Astrophysicist **Dick Carson** (1930-2019) was born 7 October on Inishmore Island, Upper Lough Erne, Fermanagh, and was educated entirely at QUB. The bulk of his career was spent at the University of St Andrews, where he supervised numerous PhD students. He worked on stellar opacities and pulsations as they relate to models of stellar evolution.

**Tony Seda** was born 31 October in Wolverhampton, England, and grew up in Llandudno, Wales. He was educated at Aberystwyth, Warwick and Bangor Universities. Most of his career was spent at UCC, where he supervised several graduate students. He co-authored the book *Mathematical Aspects of Logic Programming Semantics*.



Statistician **Rafael de Andrade Moral** was born 20 October in Piracicaba in Brazil, and was educated at the University of São Paulo and at NUIG. He is now at Maynooth, where he works on statistical modelling in biology and agriculture. He also makes innovative musical parody videos which explore statistical concepts.



Maths education specialist **Paddy Johnson** was born 8 October in Abbeyleix, Laois, and was educated at the University of Limerick. His career has also been spent there, first in maths and now on the education staff. He co-authored the recent book *Mathematical Modelling for Teachers: A Practical Guide to Applicable Mathematics Education*.



**Claus Köstler** was born 6 October in Ludwigsburg near Stuttgart, and grew up in nearby Steinheim an der Murr. He was educated at Tübingen and Stuttgart. After holding several positions in Canada, the USA and Wales, he settled at UCC. His recent research concerns noncommutative probability and the modelling of randomly occurring quantum events.



# OCTOBER



# 2021

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
				<b>1</b> Alfred O'Rahilly (1884-1969) Stefan Hutzler	<b>2</b> Arthur Conway (1875-1950) Jerry Dwyer	<b>3</b> Maurice O'Reilly
				Maths week Scotland	Maths week Scotland	Maths week Scotland
<b>4</b> Mark Walsh Joe Travers	<b>5</b> Iulian Mac Airt (1938-2012) Martin Meere IMA Black Heroes of Mathematics Conference 2021	<b>6</b> Ernest Walton (1903-1995) Claus Köstler IMA Black Heroes of Mathematics Conference 2021	<b>7</b>	<b>8</b> Patrick Wayman (1927-1998) Dane Flannery T. Brendan Murphy Paddy Johnson	<b>9</b>	<b>10</b> Graham Ellis
<b>11</b>	<b>12</b>	<b>13</b> John G. Smith (1881-1968) Pádraig de Brún (1889-1960) Ernan McMullin (1924-2011)	<b>14</b> Éamon de Valera (1882-1975) Eabhnat Ní Fhloinn	<b>15</b> Frank Hodnett (1939-2011) Anthony Small	<b>16</b> Philip Maini	<b>17</b> Denis Weaire
Munster Maths and Science Fair					Maths Week	Maths Week
<b>18</b>	<b>19</b> Olivia Fitzmaurice	<b>20</b> Paddy Barry (1930-2020) Rafael Moral	<b>21</b> Martin Gardner (1914-2010)	<b>22</b> Robert Manning	<b>23</b> Percy McCormack (1929-2015)	<b>24</b> Owen McGrath
Maths Week	Maths Week	Maths Week	Maths Week	Maths Week	Maths Week	Maths Week
<b>25</b> OCTOBER BANK HOLIDAY (RoI) Brian Greer	<b>26</b> Martin Bridgeman	<b>27</b>	<b>28</b> Derek McNally International Conference on Mathematics Education and Student Performance, Lisbon	<b>29</b> Garfield Woods (1906-1973) Peter Taylor International Conference on Mathematics Education and Student Performance, Lisbon	<b>30</b>	<b>31</b> Tony Seda Martin Stynes



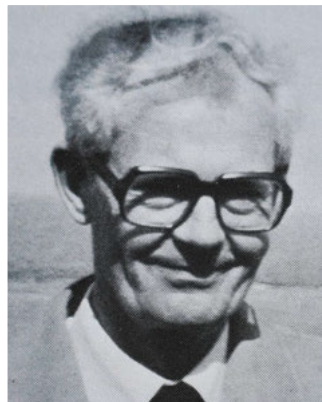


Chemist **Sheila Donegan** was born 5 November in Dublin and was educated at UCD and Clarkson University, New York. She has long been at WIT, where she is director of the science outreach centre Calmast. She and Eoin Gill run Maths Week, the world's biggest festival of its kind, which they founded in 2006. Maths Week engages over 400,000 children and thousands of adults annually throughout Ireland, via a mixture of school and public events.



**Neil O. Dobbs** (1917-1963) was born 7 November in Kampala, Uganda, and grew up there, in Kenya, and in Dublin. He was educated at TCD, and he married Eleanor Nevill (see July). His career was spent in the civil service in the Gold Coast, later teaching maths at St Columba's in Dublin. His grandson Neil (see January) is also a mathematician.

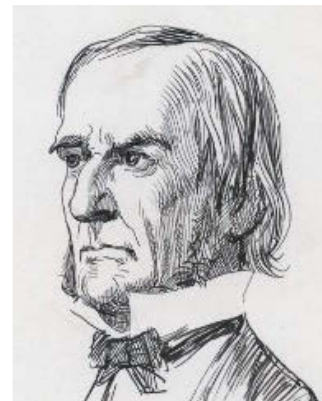
**Donal Linehan** (1923-2006) was born 16 November in Cork City, and was educated in both engineering and maths at UCC. His entire career was spent in the Irish Meteorological Service, first as an aviation meteorologist and eventually as director.



**David Galvin** was born 26 November in Ennis, Clare, and was educated at Cambridge and at Rutgers. His career included stints at Microsoft, IAS Princeton and the University of Pennsylvania, before settling at the University of Notre Dame. His interests are in combinatorics, graph theory and discrete probability.



**Teunis (Tony) Dorlas** was born 24 November in Groningen in Holland, and was educated entirely at the university there. Apart from a decade at Swansea, his career has been spent at DIAS, where he has supervised several PhD students. His book *Statistical Mechanics: Fundamentals and Model Solutions* (1999) is now in a new edition. He works on the theory of quantum computing and also on Pirogov-Sinai theory.



Mathematician and logician **George Boole** (1815-1864) was born 2 November in Lincoln. Despite being largely self-taught, in 1849 he secured a job as professor of mathematics at Queen's College, Cork. 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.



# NOVEMBER



# 2021

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





Nuclear physicist **Richard Milner** was born in Cork city, and was educated at UCC and Caltech. Most of his career has been spent at MIT. His interests are in the QCD structure of matter using spin-dependent electron scattering. He has supervised 18 PhD students and co-authored two books.

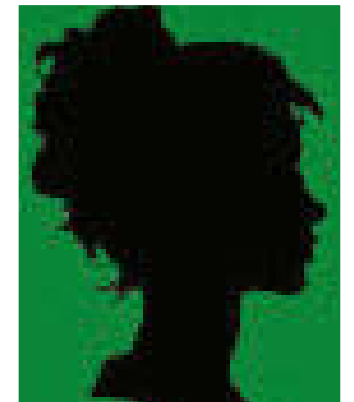


Mathematician, geologist and doctor **Samuel Haughton** (1821-1897) was born 21 December in Carlow town. He was educated at TCD, where he taught for over 35 years. His mathematical work was extensive, and the 10 maths books he co-authored with colleague Joseph Galbraith are credited with educating "a generation of Irishmen in technical issues that would make them skilled and employable."

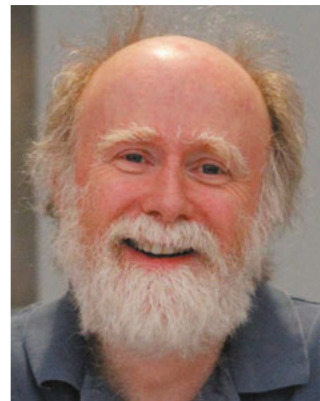
**Thomas Elrington** (1760–1835) was born 18 December in Dublin, and was educated at TCD. His whole career was there, serving as Donegall Lecturer in Maths, Erasmus Smith's Prof of Maths, Erasmus Smith's Professor of Natural & Experimental Philosophy, and provost. His books include *Euclidis Elementorum Sex Libri Priores, Cum Notis* (1789), which ran to at least 10 editions.



**Eleanor Moss** (1864-1946) was born 18 December in Dublin. She was educated privately, earning an RUI degree, and then got an Intermediate Certificate in Science at the University of London. She taught at Edgbaston School, in Birmingham, for many decades, also serving as headmistress.



Mathematician and astrophysicist **Bill McCrea** (1904-1999) born on 13 December in Dublin, and was educated at Cambridge. His career included a stint at QUB, but was mostly spent at Royal Holloway College, where he supervised several PhD students. He discovered that the sun is largely made of hydrogen.



**Declan Quinn** was born 3 December in Dublin and grew up there and in Greystones, Wicklow. He was educated at UCD and Madison, Wisconsin. His career has been spent at Syracuse University in upstate New York. His interests are in group actions on noncommutative rings, Galois theory, Hopf algebras and enveloping algebras.

# DECEMBER



# 2021

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



# JANUARY



# 2022

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
					1 NEW YEARS DAY	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						



# 1000 Irish Mathematicians

Mathematical people come from all over Ireland, as the portion of the Maths Ireland Map (1000 Irish Mathematicians, online at [www.mathsireland.ie](http://www.mathsireland.ie)) shown here demonstrates.

Documenting the island's mathematical output county by county is a goal we are gradually addressing in bi-monthly Atlas of Irish Mathematics blogs at the same website, inspired in part by the late Mary Mulvihill's Atlas of Ingenious Ireland website.

We are also working on a more comprehensive multi-layered project (with support from the ESB) to create a Maths Map of Ireland.

Those wishing to assist with this are encouraged to contact [mathsweek@wit.ie](mailto:mathsweek@wit.ie)





# Irish Mathematics Calendar 2021



This calendar, an annual treat since 2016, is a biproduct 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 4500 people), the Library of Irish Mathematics (over 900 books), the Atlas of Irish Mathematics (county by county listings) and monthly Maths Ireland blogs of relevance at [www.mathsireland.ie](http://www.mathsireland.ie). From the beginning, a special effort has been made to track the contributions of women to Irish maths.

The project and blogs can be seen at [www.mathsireland.ie](http://www.mathsireland.ie) Join over 1000 people following **AIMM** on Twitter [@IrishMathsFacts](https://twitter.com/IrishMathsFacts).

**Maths Week Ireland** was established in 2006 to promote mathematics and its applications across the island of Ireland. It is coordinated by Calmast STEM Outreach Centre at Waterford Institute of Technology. Taking place every October in the week including the 16th, Hamilton Day, it has grown to be the biggest festival of its kind in the world reaching over 415,000 people in 2019. It is a partnership of universities, institutes of technology, teacher training colleges, professional bodies, visitor centres and other groups concerned with mathematics. More information can be found at [www.mathsweek.ie](http://www.mathsweek.ie) or followed on **twitter** [@mathsweek](https://twitter.com/mathsweek)

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