







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.



**Kevin McGerty** was born 9 January in Dublin and was educated at Cambridge and MIT. After stints at IAS Princeton, Chicago and Imperial College, he settled at Oxford. His interests include algebraic groups, quantum groups and the associated geometry and topology of varieties.

**Brendan O'Shea** was born 6 January in Listowel, Kerry. He was educated at UCG and at Royal Holloway (and the University of Nebraska). Most of his career was spent at Kevin Street (later DIT), where he developed the school of computing from scratch, with a strong emphasis on mathematics in all the courses, and lectured on numerical analysis and discrete maths.



Mathematics education expert **Niamh O'Meara** was born 23 January in Dublin, and was educated entirely at the University of Limerick, where she now works. Her interests are in mathematics teacher education with particular interest in knowledge for mathematics teaching. She co-authored the recent book *Mathematical Modelling for Teachers: A Practical Guide to Applicable Mathematics Education*.



**Paul McNicholas** was born 28 January in Dublin and was educated entirely at TCD. His career so far has been spent in Canada, first at the University of Guelph, and now at McMaster. He works in computational statistics, data science and machine learning, especially mixture model-based clustering and classification.



**Colin Turner** (né Carroll) was born 20 January in Enniskillen, Fermanagh, and grew up in Bangor, Down. He was educated entirely at QUB. A topologist by training, his career so far has been spent in engineering at Ulster University in Jordanstown.

# JANUARY



# 2020

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



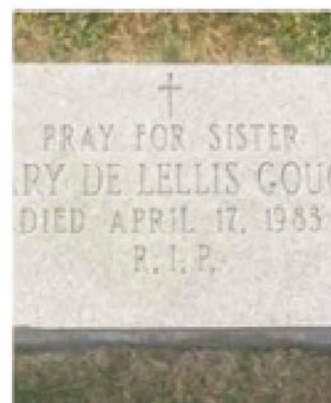


Statistician **Fiona Boland** was born 5 February in Kilkenny city, and was educated entirely at UCD. After teaching there for a few years she settled at the Royal College of Surgeons of Ireland, where she lectures on biostats and research methods.

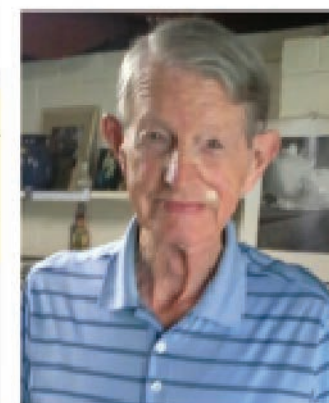


Theoretical physicist **Dan Dundas** was born 6 February in Toomebridge, Antrim, and was educated entirely at QUB, where he has long taught. His interests include ultra-fast electron and photon driven dynamics in molecular systems and non-conservative current-induced forces in nanoscale devices.

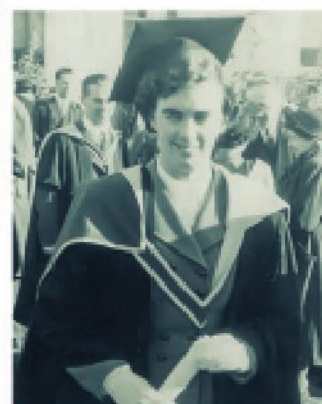
**Mary de Lellis Gough** (née Margaret Gough, 1892-1983) was born 15 February in Kilmore, Wexford, and emigrated to the USA in 1909. She taught at Incarnate Word College in San Antonio, Texas, in between accumulating maths degrees. Her PhD in algebra from Catholic University in 1931 makes her the earliest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



**Vincent Hart** was born 11 February in Hull, Yorkshire, and grew up there and in Cork city. He was educated at UCC and taught there while also pursuing research at DIAS, becoming the third Irish person to get a mathematical doctorate in Ireland. The rest of his career was spent at the University of Queensland in Australia.



**Maeve McCarthy** was born 22 February in Galway city, daughter of UCG's maths physicist Matt. She was educated at UCD and at Rice University. She teaches at Murray State University in western Kentucky, where her interests include inverse problems and modelling biological systems. She has served as executive director of the Association for Women in Mathematics.



**Siobhan O'Shea** (later Vernon, 1932-2002) was born on 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.

# FEBRUARY



# 2020

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
					1	2
					Irish Maths Teacher Award Nominations Deadline	Cornelius Lanczos (1893-1974) Gearóid Granville (1915-2000)
3	4	5	6	7	8	9
	Terry Maguire Dara Ó Briain	André Darré (1750-1833) Bartholemew Lloyd (1772-1837) Stanley Traynor (1916-1994) Stephen O'Brien (1918-1992) Fiona Boland	Dan Dundas		Francis Edgeworth (1845-1926) Stephen Buckley	Charles Rowe (1893-1943) Mick Mortell
			International Conference on Mathematics Education and Student Performance, Lisbon			
10	11	12	13	14	15	16
Agnes Clerke (1842-1907)	Vincent Hart Elizabeth Oldham	Kay McNulty (1921-2006) John O'Sullivan (1948-2006) Seán Dineen		John Perry (1850-1920)	George Stoney (1826-1911) Sophie Wilcock (1850-1922) Mary de Lellis Gough (1892-1983) Ray Ryan	Petros Florides
			Northern Ireland Science Festival		Northern Ireland Science Festival	Northern Ireland Science Festival
17	18	19	20	21	22	23
William Morton (1868-1949) Fintan Gallagher	Arthur Kingston Paddy Dolan	Thérèse Dooley	John Connolly Joseph Varilly	David Lewis Donal O'Regan	Maeve McCarthy	
Northern Ireland Science Festival	Northern Ireland Science Festival	Northern Ireland Science Festival	Northern Ireland Science Festival	Northern Ireland Science Festival	Northern Ireland Science Festival	Northern Ireland Science Festival
24	25	26	27	28	29	
Gordon Foster (1921-2010) Siobhán O'Shea (1932-2002) John O'Donoghue	Jim McConnell (1915-1999) Norma Bargary	Arthur Donnelly (1885-1973)	John A. Ryan	William Thrift (1870-1942)		
					Engineers Week	





**Paul Feehan** was born 31 March in Dublin, and first trained as an engineer at UCD. Switching to maths, he studied at the University Southern California and Columbia, and has long taught at Rutgers. His interests include applications of partial differential equations to smooth four-manifold topology, and applications of partial-integro differential equations to derivative security pricing and risk management.



**Michel Fitzgerald** was born in March in Salthill, Galway, and grew up there and in Gort. He was educated (first in engineering) at UCG and taught at GMIT for 35 years. He continues to do research and is also an inventor.

Astrophysicist **Peter Gallagher** was born 20 March in Dublin and was educated at UCD and QUB. He has worked at Goddard, UCD and TCD. He now heads up astronomy and astrophysics at DIAS and serves as director at Dunsink. His interests include understanding the fundamental physics of solar storms and their impacts on Earth.



Mathematical physicist **John Kennedy** (1939-1995) was born 28 March in Belfast. He was educated at UCD and the University of London. Most of his career was spent at UCD. His interests were in high energy (particle) physics and general computational mathematics.



**Mark Leeney** was born 15 March in Dublin and was educated at UCD and Kent State University. He has spent most of his career at Letterkenny IT. His interests include algebra, cryptography and the pedagogy of mathematics.



**Götz Pfeiffer** was born 17 March in Siegen, Germany. He was educated entirely at Aachen, and most of his career has been spent at UCG/NUIG. His interests are in finite groups, representation theory, and computer algebra.

# MARCH



# 2020

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
						1
						Engineers Week
2 Gerry Gardner (1926-2009) Nora Ní Chuiv Mairéad Greene	3	4 Higher Homotopy Algebras in Topology, TCD	5 George Hall (1925-2018) Iggy Ó Muircheartaigh	6 James McNeill (1853-1907) Scifest@College Entry Deadline John Hooper Medal poster deadline Higher Homotopy Algebras in Topology, TCD	7	8
Engineers Week	Engineers Week	Engineers Week	Engineers Week	Engineers Week		
9 John Forde (1918-2004)	10 Eugene Gath	11 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
					International Day of Mathematics	
16 Aoibhinn Ní Shúilleabháin	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 03:50 Peter Gallagher	21 Werner Nahm Michael J. Walsh Neil Hallinan	22 Diarmuid Ó Mathúna
23 Cyril Power (1890-1970s) John L. Synge (1897-1995)	24	25 David Spearman	26 Hugh Hamilton (1729-1805) Edward Bromhead (1789-1855) Mary Hanley Cormac O'Raifeartaigh	27 Eithne Donnelly (1900-1989) Eva Wills (1925-2010)	28 John Kennedy (1939-1995)	29
					Tech Week	
30 Micheál Mac an Airchinnigh	31 Donal J. Hurley Paul Feehan					
Tech Week	Tech Week					





Mathematical physicist **John T Lewis** (1932-2004) was born 15 April in Swansea, Wales. He was educated at QUB, taught at Oxford, and for 25 years he was director of the Dublin Institute of Advanced Studies. His areas of interest included quantum measurement, Bose-Einstein condensation and large deviations theory.



**Dionysius Lardner** (1793-1859) was born 3 April in Dublin. He was educated at TCD and worked there as a chaplain while publishing mathematical articles. For a few years he worked at the University of London as professor of physics and astronomy. He is best remembered for the mammoth Cabinet Cyclopædia, a series of over 100 volumes, which he edited.

**Eoin Long** was born 14 April in Waterford city. He was educated at TCD and Cambridge. He has worked at Oxford, Queen Mary (University of London), and Tel Aviv University. He now teaches at Birmingham, where his interests include extremal and probabilistic combinatorics.



Astronomer **Annie Maunder** (née Russell, 1868-1947) was born 14 April in Strabane, Tyrone. She was educated 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.



**Michael Power** (1885-1974) was born 2 April in Piltown, Kilkenny, and was educated at UCD. Most of his career was spent at UCG, where (as Micheál de Paor) he co-authored the book *Nótaí ar Mhion-Aireamh* (1959). His daughter Sheila was a mathematical physicist remembered under her married name Tinney.



**Jill Tysse** (née McCarthy) was born 3 April in Cork city. She was educated at UCC, Oxford, and the University of Virginia. Her career so far has been spent at Hook College in Maryland. Her interests include group theory and algebraic combinatorics and their applications.



# APRIL



# 2020

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		1	2  Michael Power (1885-1974)  Tech Week	3  Dionysius Lardner (1793-1859) Richard Townsend (1821-1884) Jill Tysse John Hooper Medal winner announced  Tech Week	4	5
6  Peter McNamara  17th workshop on Numerical Methods for Problems with Layer Phenomena, Limerick	7  Sean Lacey	8  Andrew Graham (1815-1908) Tom Linehan (1926-2017) Olga O'Mahony	9	10  GOOD FRIDAY	11  R. C. Geary (1896-1983)	12  EASTER SUNDAY
13  EASTER MONDAY	14  Irish Mathematical Society (IMS) founded 1976  Anne Russell (1868-1947) Eoin Long	15  John T. Lewis (1932-2004) David Malone European Girls' Mathematical Olympiad begins, Netherlands	16	17  William Molyneux (1656-1698) Mark McCartney	18  George Keating (1902-1973)	19  John MacFarland (1851-1935) James Cullen (1867-1933) Hugh Alexander (1909-1974) James Gleeson
20  Phil Boland	21  William Monck (1839-1915) Peter Hogan	22  James McMahon (1856-1922)	23  IMA-LMS David Crighton Award Lecture, London Thomas Robinson (1792-1882)	24  Pi Quiz Norma Glasgo Reid	25  Dermott McCrea (1934-1993)	26  Richard Beatty (1882-1941) Bobbie Elliott (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 Kilbeheny, Limerick. He graduated from TCD in middle age, and later became the most accomplished mathematician 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 Ptolemy's theorem.



**Leo Creedon** was born 13 May in Ballinveltig, Carrigrohane, Cork. He was educated at UCC and the University of Alberta at Edmonton. Most of his career has been spent at IT Sligo, where his interests include error-correcting codes and the mathematical modelling of bovine reproduction.

**Tadhg Creedon** was born 27 May in Ballinveltig, Carrigrohane, Cork. He was educated entirely at UCC. His career started at UCC and Mary Immaculate College, before settling at CIT. His interests lie in operator theory, ring theory, and derivations.



**Shane Dowdall** was born 17 May in Dublin and was educated at DCU. His career has been spent at Dundalk IT. His interests include differential geometry and artificial intelligence.



**Turlough Downes** was born 9 May in Dublin and was educated at TCD and the DIAS. Most of his career has been spent at DCU, where he specialises in analytic and computational approaches to the study of astrophysical fluid simulations.



**Owen O'Shea** was born 21 May in Cobh, Cork, and worked for many years as a civilian employee in the Department of Defense. Recreational mathematics is his greatest passion, and 2020 sees the publication of his third book on the topic. He was one of two longtime Irish correspondents of Martin Gardner, the other being Victor Meally of Dublin.



# MAY



# 2020

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
				1	2	3 Society of Actuaries in Ireland founded 1972 Brendan J. Murphy Laura Cooke
4 MAY BANK HOLIDAY Johnny Burns	5 W. R. W. Roberts (1850-1935) John Leatham (1871-1923) Mervyn Ellison (1909-1963) Cathleen Morawetz (1923-2017) Robin Harte	6 PJ Cregg Dana Mackey	7	8 Thomas Strain (1878-1949) Trevor West (1938-2012)	9 Turlough Downes Irish Maths Olympiad final round	10
11 Martin Mathieu CFT and Holography in Dublin	12 John Casey (1820-1891) Alexander Anderson (1858-1934) Fran Barry (1939-2008) Finbarr Holland CFT and Holography in Dublin	13 Arthur Panton (1843-1906) Marjorie Paterson-Smyth (1889-1975) Leo Creedon CFT and Holography in Dublin	14 CFT and Holography in Dublin	15 Alice Everett (1865-1949) CFT and Holography in Dublin	16 Jack Todd (1911-2007) Irish Geometry Conference Groups in Galway, NUIG	17 J. R. (Dick) Timoney (1909-1985) Shane Dowdall
18 Mike McElroy Integrability in Lower-Dimensional AdS/CFT, TCD	19 Brendan Scaife Integrability in Lower-Dimensional AdS/CFT, TCD	20	21 Trevor Weekes (1940-2014) Owen O'Shea Integrability in Lower-Dimensional AdS/CFT, TCD	22 A. C. Dixon (1865-1936) Stan Broderick (1893-1962)	23 Thomas Preston (1860-1900) James Caldwell Adrian Dunne	24
25 SPRING BANK HOLIDAY (NI) Gar de Barra	26 Helen Purtill	27 John Campbell (1862-1924) Tadhg Creedon	28 George Minchin (1845-1914) Robert Genese (1848-1922) Seoirse Mac Niocaill (1881-1968) Tony O'Farrell	29 Mary Brück (1925-2008)	30	31



**Alicia Boole** (later Stott, 1860–1940) was born 8 June in Cork, a daughter of George & Mary Boole, and grew up there and in London. Though she never attended university, she was a pioneer in the visualisation of 4-dimensional shapes, published several papers, and coined the term polytope. She was awarded an honorary doctorate by the University of Groningen, and worked with Donald Coxeter.

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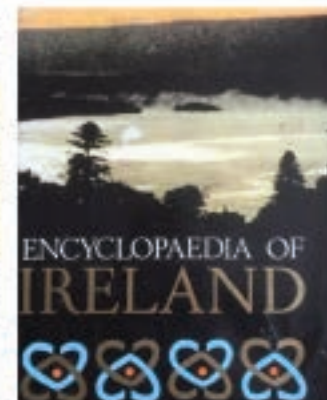
**Joan Cleary** was born 5 June in Melbourne, Australia, and grew up northwest of there in Avoca, Victoria. She was educated at La Trobe University in Melbourne and settled at IT Tralee in the 1990's. She's a founder of the Irish Mathematics Learning Support Network and works closely with the Teachers' Union of Ireland on third level issues.

2

Statistician **William Gosset** (1876-1937) was born 13 June in Canterbury, England, and was educated at Oxford. For 35 years he worked at the Guinness brewery in Dublin. He is best remembered for the so-called Student's t-distribution.



**Victor Meally** (1911-1986) was born 26 June in Dublin. He was educated at TCD, and spent his career as an accountant. He maintained correspondence with many notable mathematicians (e.g., Coxeter, Guy, Conway), as well as with science writer Martin Gardner, posing numerous problems in recreational mathematics, chess, and number theory. He also edited the Encyclopedia of Ireland (1968).



5



Crystallographer **Helen Megaw** (1907-2002) was born 1 June in Dublin, her mother being maths-trained Annie McElderry. She was educated mostly at Cambridge, studying under (and later working alongside) Tipperary's John Bernal. She published papers over a 30-year period, and authored two books.



Physicist, mathematician and engineer **William Thomson** (1824-1907, later known as Lord Kelvin) was born 26 June in Belfast, and was educated at Glasgow and Cambridge. He did pioneer work on heat, electricity and thermodynamics, and is also remembered for his engineering insights which led to the first successful transatlantic cable.



# JUNE



# 2020

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
<b>1</b> <b>JUNE BANK HOLIDAY (ROI)</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 Perry (1882-1963) Jim Hanley Joan Cleary	<b>6</b>	<b>7</b> John S. Townsend (1868-1957)
<b>8</b> Alicia Boole (1860-1940) George Hughes (1918-1994) Romina Garburro	<b>9</b> Muriel Wales (1913-2009)	<b>10</b> John Semple (1904-1985)	<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) Richard M. Timoney (1953 - 2019)	<b>18</b>	<b>19</b> Dublin Institute for Advanced Studies Act signed, 1940 Maurice Jaswon (1922-2011) Peter Lynch	<b>20</b> Dave Cochran (1940-2013)	<b>21</b> Fiacre Ó Cairbre
<b>22</b> Luke Drury Cora Stack	<b>23</b>	<b>24</b> James J. Smith (1892-1983) Derek Crothers	<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	<b>27</b> 9th Robert Boyle Summer School	<b>28</b> 9th Robert Boyle Summer School
23rd conference of the International Linear Algebra Society    23rd conference of the International Linear Algebra Society    23rd conference of the International Linear Algebra Society 21st ECMI Conference on Industrial and Applied Mathematics (ECMI 2020)    21st ECMI Conference on Industrial and Applied Mathematics (ECMI 2020)					Morgan Crofton (1826-1915) Charles Joly (1864-1906)	
<b>29</b> Phelim Boyle	<b>30</b>					



Theoretical physicist **Mark Daly** was born 25 July in Dublin, and was educated at DCU. He has long taught at Athlone IT where his current research is in machine learning specifically applied to computer vision and radio astronomy.



**Christine Horn** was born 19 July in Rostock, Germany, and was educated at Humboldt-University Berlin. She worked in industry and at Furtwangen University, before settling at IADT Dún Laoghaire. Her current interests include learning mathematics at 3rd level and data analytics in business and psychology.

**Oliver Hyde** was born in July in Cork city, and was educated at the University of Limerick. He taught at UL, Letterkenny IT and Mary Immaculate before settling at Limerick Institute of Technology.



**John Kinsella** was born 3 July in Dublin. He was educated entirely at UCD, and his career has been spent at the University of Limerick. His interests are in nonlinear optimization and numerical linear algebra.



**Ciarán Mac an Bhaird** was born 9 July in Lough Egish, southwest of Castleblayney, Monaghan. He was educated entirely at Maynooth, where he has spent his career. He authored the book *Primality Testing and Gaussian Sums*. His interests include maths education, the history of mathematics, and algebraic number theory.



**Diarmuid Ó Sé** was born 2 July in Limerick city, and grew up in Ardnacrusha, Clare. He was educated at Maynooth and DIAS and has long been at IT Carlow. His interests include mathematics education and maths learning support.



# JULY



# 2020

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		1 Robert Ball (1840-1913)	2 Ross Geoghegan Diarmuid Ó Sé	3 Desmond McConnell Olivia Bree John Kinsella	4 Edgar Harper (1880-1916)	5 Arthur Lai Fook (1919-2013) 8th European congress of Mathematics , Slovenia
6 Tony Hollingsworth (1943 - 2007) Alan Roche	7 John Kells Ingram (1823-1907) J. P. McCarthy	8 David Wilkins International Mathematical Olympiad begins, St Petersburg, Russian Federation	9	10	11 Joseph Larmor (1857-1942)	12 BATTLE OF THE BOYNE (NI)
Joint BSHM - CSHPM/SCHPM Conference, St. Andrews, Scotland			8th European congress of Mathematics , Slovenia		8th European congress of Mathematics , Slovenia	
13	14 Ivan Todorov	15 Don McAllister Jocelyn Bell Burnell	16 Marjorie J. Long (1886-?)	17 William Davison (1937-2013) Richard M. Timoney	18	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	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) John Stewart Bell (1928-1990)	29 Sean Close Sinead Breen	30 Martin J. Newell (1910-1985) Sara McMurry	31 Oliver Byrne (1810-1880) Killian Rohan (1916-1999) Oren Kolman (1959-2015)		



**David Conlon** was born in August in Sligo, and grew up in Lanesborough, Longford. He was educated at TCD and Cambridge. He taught at Oxford for a decade, and recently moved to Caltech. His interests are in Ramsey theory, extremal graph theory, additive combinatorics, pseudorandomness and random graphs.



**Madeeha Khalid** was born 19 August in Rawalpindi, Pakistan, and was educated at UT Austin and the University of Pennsylvania. She has worked at IT Tralee and St Pat's Drumcondra. Currently she is honorary research fellow at UCD. Her interests are in algebraic geometry, differential geometry and mathematical physics.

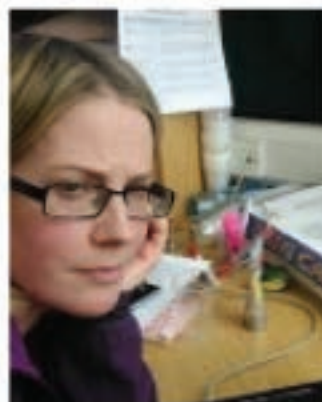
**William Hamilton** (1805-1865) was born 4 August in Dublin, and was educated and spent most of his career at TCD. His extensive legacy includes innovations in algebra, mechanics and optics. He invented quaternions, a non-commutative algebraic system predating matrices.



**John Tyndall** (1820-1893) was born 2 August in Leighlinbridge, Carlow. He became the first Irishman with a doctorate in maths, in Marberg, Germany, but he is remembered for key discoveries in diamagnetism, infrared radiation, and the physical properties of air. His name lives on via the Tyndall effect, Tyndallization, and the Tyndall Institute at UCC. Some credit him as a climate science pioneer.



**Sebastian Wieczorek** was born 4 August in Chociwel, in northwest Poland, and was educated at the Universities of Poznan and Amsterdam. After several years at Exeter, he moved to UCC, where he now heads up Applied Maths. His interests include nonlinear dynamics and applied bifurcation theory.



**Aoife Hennessy** was born 19 August in Tramore, Waterford. She was educated at DCU, NUIG and WIT. She has worked as an actuary, and after stints at Queen Mary (London) and UCC she settled back at WIT. Her interests include combinatorics and statistics.



# AUGUST



# 2020

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
					1	2  John Tyndall (1820-1893) Michael A. Hayes (1935-2017) Pauline Mellon
3  BANK HOLIDAY (ROI)  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)	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
24  John Purser (1835- 1903)	25	26  James Booth (1860-1878) Thomas Lyle (1860-1944)	27	28  Caoimhín Ó Raghallaigh	29  John Herivel (1918-2011) Dáibhí Ó Cróinín	30
31  SUMMER BANK HOLIDAY NI			The Irish Mathematical Society's annual conference, DCU			



**Robert Adrain** (1775-1843) was born 30 September in Carrickfergus, Antrim, and is believed to have been self-taught. Following the 1798 rebellion, he moved to the USA, where he was one of the leading lights of academic mathematics in the early 19th century. He published the method of least squares before Gauss.



Theoretical physicist **Ruth Britto** was born in September in Binghamton, New York, and was educated at MIT and Harvard. She has worked at IAS Princeton, Amsterdam, Fermi Lab, CEA (Paris) and in recent years at TCD. Her interests are in fundamental interactions, in particular scattering amplitudes.

**Patrick d'Arcy** (1725-1779) was born 27 September in Kiltulla Castle, Galway, and was educated privately in Paris, following which he had a successful career in the French army. He is remembered for his contributions to dynamics, especially angular momentum.



**Annie McElderry** (later Megaw, 1874-1968) was born 4 September in Ballymoney, Antrim, and was educated to master's level at Victoria College and Queen's, Belfast. She was principal of Rutland School in Dublin. Her daughter Helen Megaw became a distinguished crystallographer.



Astronomer **Carl Murray** was born 25 September in Belfast, and was educated at Queen Mary College, London, where he has spent most of his career. He studies the dynamics of planetary systems, and in particular the rings of Saturn. He co-authored the text *Solar System Dynamics*.



**Neil O'Connell** was born 20 September in Cheshire, England, and brought up in Shannon, Clare. He was educated at TCD and Berkeley. His career has included stints in Hewlett-Packard, Warwick and UCC, and he now teaches at UCD. He works in probability, in particular random matrices.



# SEPTEMBER



# 2020

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	1 Mary Mulvihill (1959-2015)	2 Joseph Spelman (1932-2016)	3	4 Annie McElderry (1874-1968)	5	6
7	8 Matrix 2020, Paris	9 Matrix 2020, Paris	10 Edward Stringer (1919-1956)	11 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 Neil O'Connell
21 Tom Carroll	22 AUTUMN EQUINOX 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)				



**Martin Bridgeman** was born 26 October in Dublin. He was educated at TCD and Princeton and has spent most of his career so far at Boston College. He works in hyperbolic geometry and low-dimensional topology. He founded and for many years ran the annual William Rowan Hamilton Geometry and Topology Workshop at TCD.



**Graham Ellis** was born 10 October in Chirk, south of Wrexham, Wales, and grew up in nearby Whitehurst. He was educated entirely at Bangor, and most of his career has been spent at UCG/NUIG. His current interests are in algorithmic aspects of algebraic topology and how it relates to low dimensional topology and group theory, and he recently published the book *An Invitation to Computational Homotopy*.

Physicist and philosopher **Ernan McMullan** (1924-2011) was born 13 October in Ballybofey, Donegal. He was educated at Maynooth and (after a year at DIAS) at Louvain. He then spent 4 decades at Notre Dame, where in time he served as head of the department of philosophy and authored several books.



Theoretical physicist **Alfred O'Rahilly** (1884-1969) was born 1 October in Listowel, Kerry, and was educated at UCD and the Pontifical Gregorian University. He served on the staff at UCC for 40 years, including stints as registrar and president. He authored the book *Electromagnetics* (1938).



Theoretical physicist **Peter Taylor** was born 29 October in Bray, Wicklow. He was educated at UCD and Cambridge (and UCD again). He has held posts at TCD and Cornell and is now based at DCU. His interests are mainly in classical and quantum aspects of black holes.



Physicist **Ernest Walton** (1903-1995) was born 6 Oct 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 1930's led to the two men later sharing a Nobel prize. He lectured at TCD for 4 decades.



# OCTOBER



# 2020

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
			1  Alfred O'Rahilly (1884-1969) Stefan Hutzler	2  Arthur Conway (1875-1950) Jerry Dwyer	3  Maurice O'Reilly	4  Mark Walsh Joe Travers
5  Julian Mac Airt (1938-2012)	6  Ernest Walton (1903-1995)	7	8  Patrick Wayman (1927-1998) Dane Flannery T. Brendan Murphy	9	10  Graham Ellis	11
					Maths in the City Maths Week	Munster Maths and Science Fair Maths Week
12	13  John G. Smith (1881-1968) Pádraig de Brún (1889-1960) Ernan McMullin (1924-2011)	14  Éamon de Valera (1882-1975) Eabhnat Ní Fhloinn	15  Frank Hodnett (1939-2011)	16  Philip Maini	17  Denis Weaire	18
Maths Week	Maths Week	Maths Week	Maths Week	Hamilton Walk RIA Hamilton Lecture Maths Week	Maths Week	Maths Week
19  Olivia Fitzmaurice	20  Paddy Barry	21  Martin Gardner (1914-2010)	22	23  Percy McCormack (1929-2015)	24  Owen McGrath	25  Brian Greer
26  OCTOBER BANK HOLIDAY (ROI)  Martin Bridgeman	27	28  Derek McNally	29  Garfield Woods (1906-1973) Peter Taylor	30	31  Martyn Stynes	



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 daughter Alice also made contributions to mathematics.

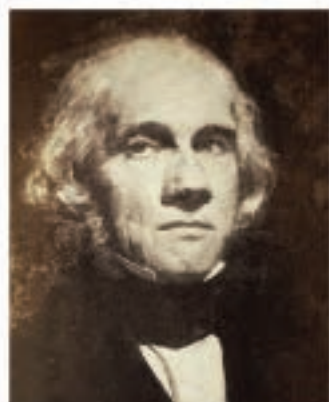


**Stanley Lyon** (1882-1975) was born 16 November in Dublin and grew up there and in Louth. He obtained his BA from NUI while working for over a decade in the civil service in London. He was director of the Central Statistics Office (1931-1947).

**Jim O'Reilly** (1916-1978) was born 11 November in Galway city, and grew up in Ballymote, Sligo. He was educated at Maynooth and Caltech. He spent two decades teaching maths and theology at Mount St Mary's College in Los Angeles, and for the rest of his career he taught theology at St John's (Camarillo).



**Henry Smith** (1826-1883) was born 2 November in Dublin, and was brought up in England, being educated at both the Sorbonne and Oxford. His career was spent at Oxford, but he also did administrative work in London. He's best remembered for the fact that each integer is a sum of five squares, and for the Smith normal form of a matrix. He also worked in integration theory.



**James Thomson** (1786-1849) was born 13 November in Annaghdown, near Ballynahinch, Down. He was educated at the University of Glasgow and was professor there following two decades at the Belfast Academical Institution. His son William (later known as Lord Kelvin) grew up in Belfast and Glasgow and gained fame as a brilliant scientist, mathematician, and engineer.



**Aisling Twohill** was born 19 November in Carlow town, and was educated at St Pat's Drumcondra and DCU. Her career has seen her work in the actuarial field, in primary teaching, and more recently at SPD/DCU, where she is interested in algebraic thinking in mathematics education.



# NOVEMBER



# 2020

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
						1
2  George Boole (1815-1864) Henry Smith (1826-1883) Anthony Traill (1838-1914)	3	4	5  Alan Newell David Jackson John Sheekey	6  Charles Graves (1812-1899)	7  John Fraser (1868-1950)	8  Bram Stoker (1847-1912) Bob Critchley (1948-2007) Science Week (Rol)
9  Fred Klotz (1943-1988) Gordon Lessells	10	11  Charles MacGarry (1877-1936) Jim O'Reilly (1916-1978)	12  Gerard Murphy (1948-2006)	13  James Thomson (1786-1849)	14	15
Science Week (Rol)	Science Week (Rol)	Science Week (Rol)	Science Week (Rol)	Science Week (Rol)	Science Week (Rol)	Science Week (Rol)
16  Stanley Lyon (1882-1975) 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	25  IAMTA (Irish Applied Maths Assocaition) formed (2006)	26	27	28	29  Joseph Galbraith (1818-1890) Colm Barry (1906-1976) Brendan Steen (1921-2015)
30						



**Sonia Balagopalan** was born 25 December in Kuwait and grew up in Thrissur, Kerala, India. She was educated at the Indian Statistical Institute in Bangalore and at Maynooth. She did a postdoc at Hebrew University of Jerusalem, and since then has taught at Maynooth and DCU. Her interests are in combinatorics, geometry and finite groups.



Mechanical engineer **Chris Brennen** was born 3 December in Belfast. He was educated entirely at Oxford, and has spent over 4 decades at Caltech. His work is quite mathematical, and his books include volumes on cavitation and bubble dynamics, the hydrodynamics of pumps, and the fundamentals of multiphase flow.



Statistician **Claire Gormley** was born 30 December in Desertmartin, Derry, near Magherafelt. She was educated at TCD and has spent her career so far at UCD. She works on statistical methods for the analysis of high dimensional data, often of mixed type.

**Peter McPolin** was born 7 December in Ardrin, Down. He was educated entirely at QUB and his career has been spent at St Mary's University College in Belfast. His interests include college and school level mathematics teaching and learning.



**Tom Sherry** was born 25 December in Dublin, and was educated at UCD and DIAS. Most of his career was spent at UCG/NUIG where he also served as dean before retiring a few years ago. His interests are in quantum field theory, renormalization of QFT models, renormalization scheme dependence effects and phenomenology, and supersymmetry.



**Nina Snigireva** was born in December in Moscow, and grew up in Galway city. She was educated at NUIG and the University of St Andrews. After some overseas postdocs, she has taught at NUIG and UCD. She works in fractal geometry and functional analysis.



# DECEMBER



# 2020

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	1 Raymond Flood	2 Ollie Mason	3 John Donaghey (1878-1949) Jim Flavin (1936-2012) Chris Brennan	4 John Graves (1806-1870)	5 Tom Laffey Declan P. Quinn Maura Clancy	6
7 Paddy Quinlan (1919-2001) Benno Moiseiwitsch (1927-2016) Peter McPolin 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 Maurice Kennedy (1924-1994)	18 Eleanor Moss (1864-1946?)	19	20 W. Snow Burnside (1839-1920) Dave Redmond
21 WINTER SOLSTICE 10:02 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			

# The Hamiltonian game

Here is a game modelled after one that William R. Hamilton himself invented over a decade after he came up with quaternions, and it's a great exploration of a key concept which he was the first to investigate.

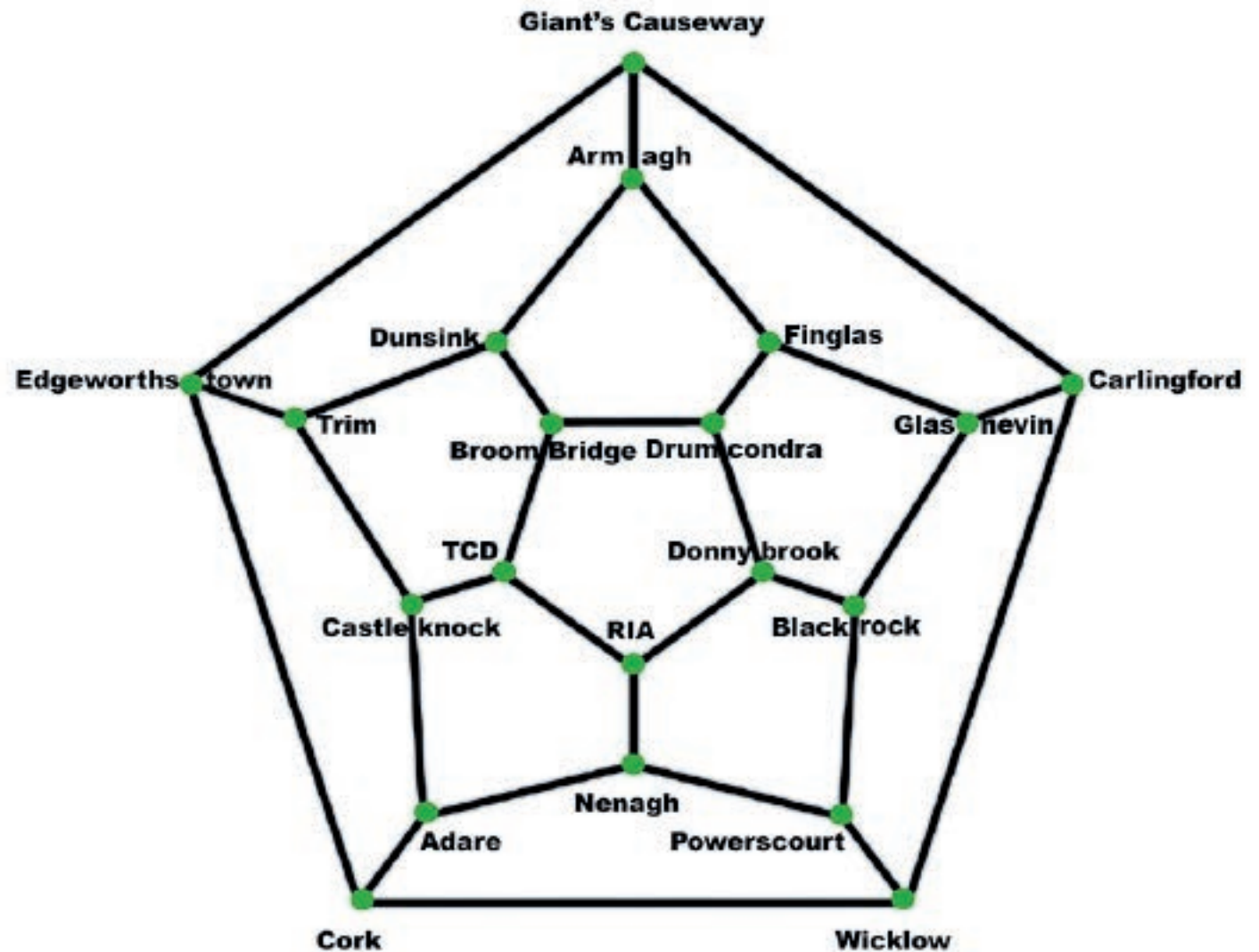
Consider the "map" to the right, featuring numerous places in Ireland associated with Hamilton.

For instance, let's start at Dunsink (the observatory and Hamilton's home). Proceed to Broom Bridge, TCD and RIA (Royal Irish Academy) in that order, just as we believe Hamilton himself did on 16 October 1843, the day he came up with the defining equations for quaternions.

Can you keep going, visiting everywhere else exactly once, before returning once more to Dunsink?

Some roads might not be used at all, what is most important is to visit each location exactly once.

A second question is: Can it be done if you go to Nenagh immediately after RIA?





# JANUARY



# 2021

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



# Irish Mathematics Calendar 2020



Significant anniversaries of the births of some notable figures in Irish maths occur in 2020: **John Casey** and **John Tyndall** were both born 200 years ago in 1820.

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 4000 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**.

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

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