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# LMS – EPSRC Durham Symposium

Anthony Byrne  
Grants and Membership  
Administrator

12th July 2016, Durham

# The work of the LMS for mathematics



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## The charitable aims of the Society:

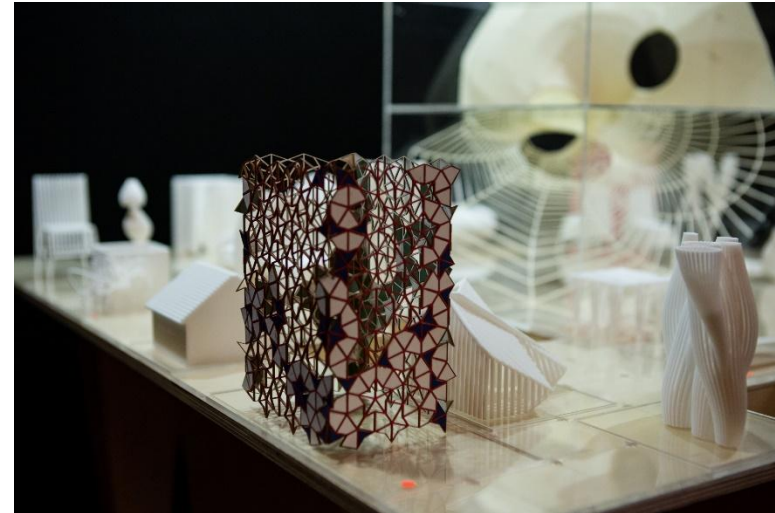
**Funding** the advancement of mathematical knowledge

**Encouraging** mathematical research and collaboration

**Celebrating** mathematical achievements

**Publishing** and disseminating mathematical knowledge

**Advancing** and **promoting** mathematics



*30 Pieces', George Legendre*



*The attendees of the Young Researchers in Mathematics Conference 2015, held at Oxford*

Historical Moments of the London  
Mathematical Society

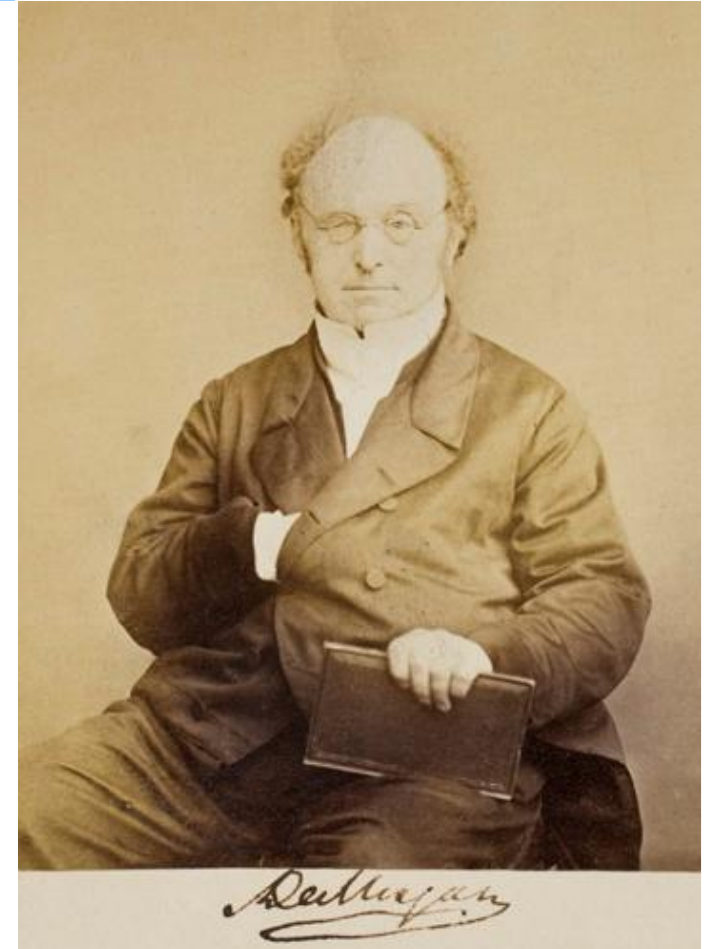
1865



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*G. C. De Morgan*



*De Morgan*

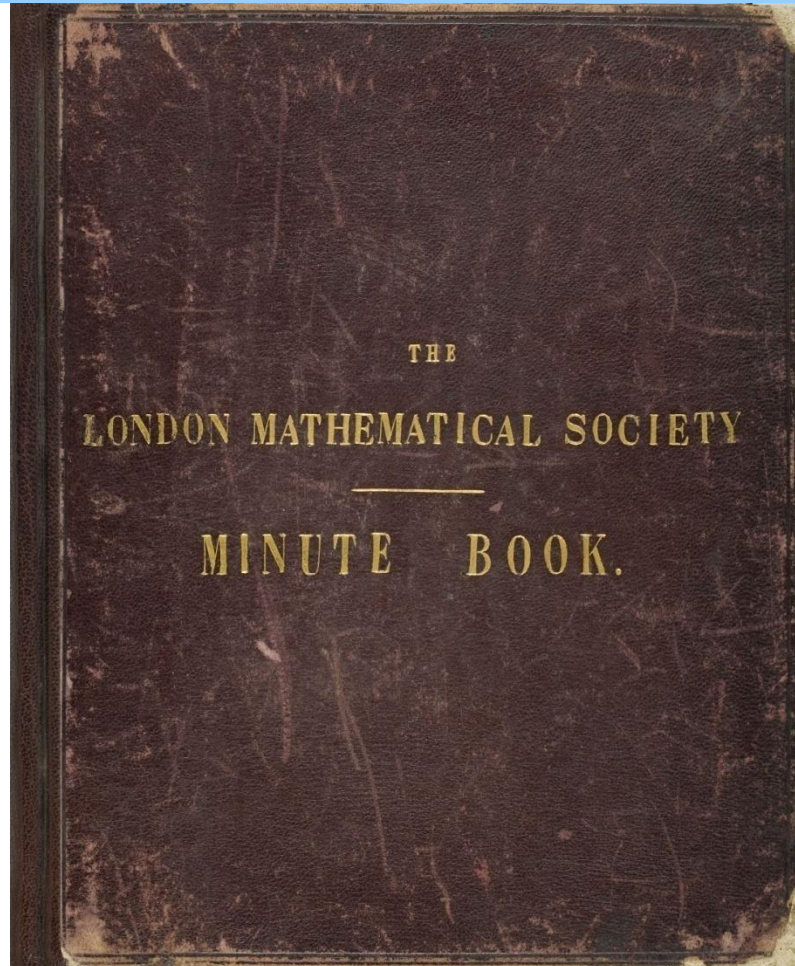
Foundation of LMS at University College London

George Campbell De Morgan organised the first meeting, and his father, Augustus De Morgan became the 1<sup>st</sup> President

# 1865



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THE  
LONDON MATHEMATICAL SOCIETY  
MINUTE BOOK.

Members of the Society at its Formation.

Prof. De Morgan F.R.S.	-	91 Adelaide Road N.W.
Dr. Hirst F.R.S. Ph.D.	-	113 Waverley Place St John's Wood N.W.
Professor Newth M.A.	-	25 Clifton Road N.W.
Mr. W. Watson B.A.	-	60 Oakley Sq. N.W.
" H. M. Bompas M.A. LL.B.	-	9 Kings' Bench Walk E.C.
" A. C. Ranjard	-	Exeter Coll. + 13 Hunter St. E. 24 St Andrew's St Cambridge
" D. L. Alexander B.A.	-	50 Wimpole St. W.
" G. C. De Morgan M.A.	-	91 Adelaide Road N.W.
" P. Magnus B.A., B.Sc.	-	23 Brunswick Sq. W.C.
" H. H. Coxen Hardy LL.B.	-	2 New Sq. Lincoln's Inn. Dunstable, Beds.
" W. Jardine M.A.	-	2 Circus Place, Finsbury Circus. E.C.
" B. Nisich M.A., B.Sc.	-	16 Finsbury Square E.C.
" M. Adler M.A.	-	
" J. Bridge M.A.	-	
" N. E. Hartog B.A.	-	300 Camden Road N.W.
" J. F. Norris (Nov. 1865)	-	
" F. R. Dasai	-	Univ. Coll.
" J. N. Bruce	-	48 Kensington Gardens Square W.
" F. Topley	-	22 Euston Square
" E. H. Bask M.A.	-	5 Holly Terrace Highgate
" E. Waterhouse B.A.	-	Old Jewry Chambers E.C.
" E. Dessé	-	Univ. Coll. 43 Kensington Gardens Square W.

First minute book  
list of the 27 original members

1866



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J.J. Sylvester,  
2<sup>nd</sup> President  
of the Society.

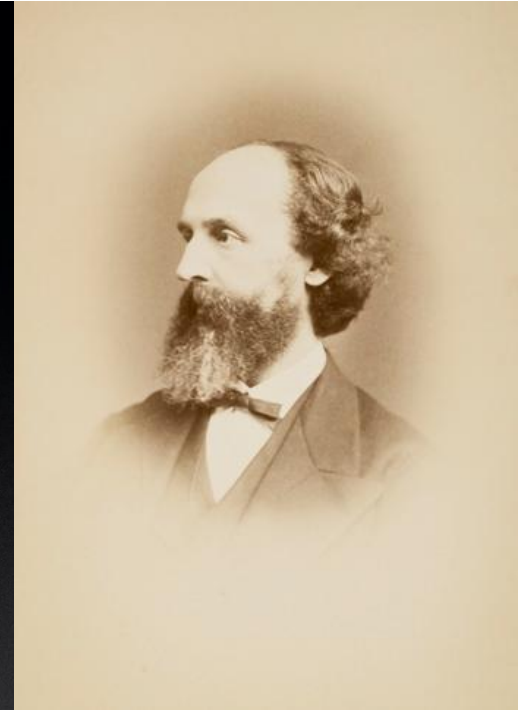


LMS moves to Old Burlington  
House, Piccadilly

1866



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Julius Plücker

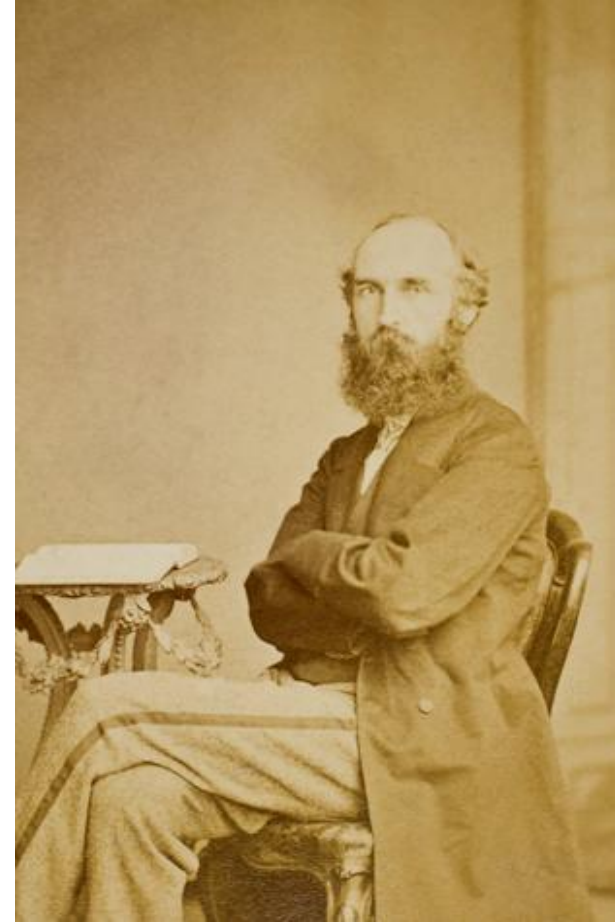
Thomas Hirst

Plücker Collection of boxwood models of quartic surfaces given to Thomas Archer Hirst, Vice-President of LMS, and donated to the Society

1870



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Move to Asiatic Society, 22 Albemarle Street  
William Spottiswoode, President

1874



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Donation of £1,000  
from John William  
Strutt (Lord Rayleigh)

Generous donation  
enabled the Society to  
publish volumes of the  
*Proceedings of the  
London Mathematical  
Society.*



J.W. Strutt  
(Lord Rayleigh),  
LMS President 1876-78



1881



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First women members  
Charlotte Angas Scott and Christine Ladd

1884



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First De Morgan medal  
awarded to  
Arthur Cayley

1885



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Sophie Bryant  
First woman to have  
a paper published in  
*LMS Proceedings*

1916

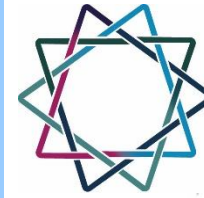


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Return to Burlington House the  
home of LMS until 1998

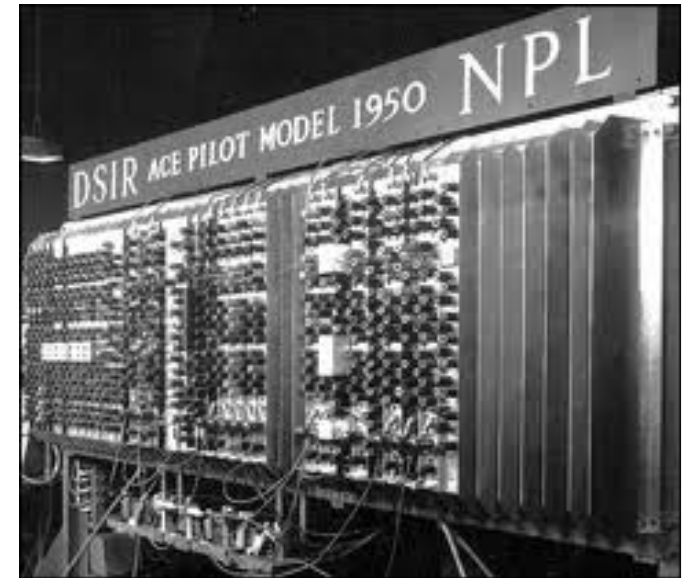
1937



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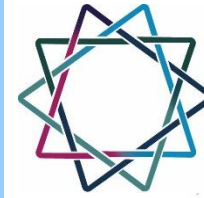


*LMS Proceedings, 1937*  
published Alan Turing's first paper  
*On Computable Numbers*



ACE  
Turing's Automatic  
Computing Engine,  
1950

1947



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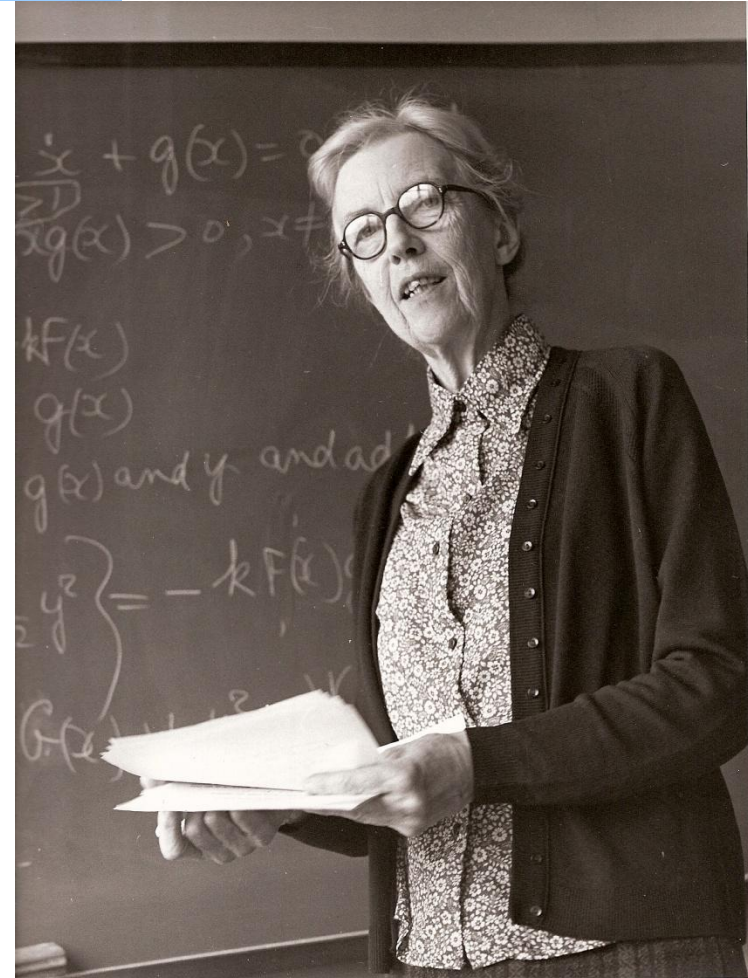


Death of G.H. Hardy  
Most influential 20<sup>th</sup> century mathematician  
Twice LMS President in 1926 and 1939

1961



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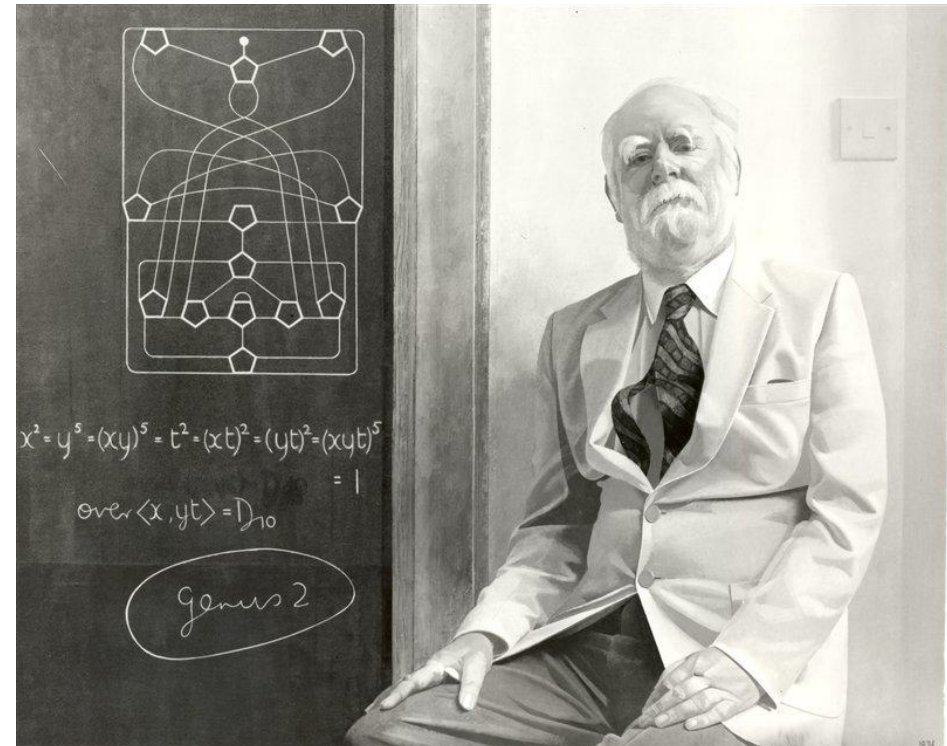


Mary Cartwright  
first woman President of LMS

1965



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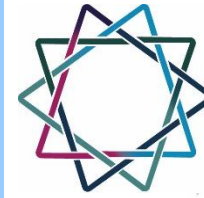
## Centenary of London Mathematical Society

Grant of Royal Charter

Graham Higman, President



# 1998



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Move to De Morgan House, opened by Sir Michael Atiyah with seven Fields medallists present.

# 2015 150<sup>th</sup> Anniversary



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**Celebrating** the contributions of UK mathematics over 150 years of achievements.

## Mathematics: Unlocking Worlds

- 150 Years of the LMS and Mathematics,
- Mathematics as Part of our Culture,
- New Ways of Communicating Mathematics.

### Key Messages

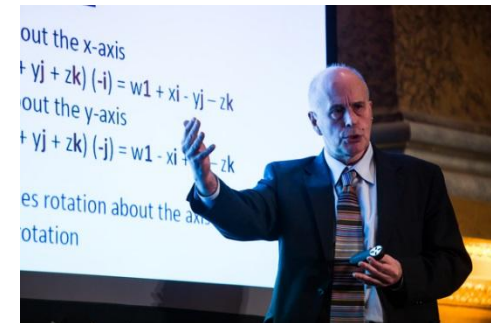
Mathematics transforms people's lives  
Mathematics is everywhere and for everyone  
Mathematics Research: Curiosity, Creativity, Discovery



*Nigel Hitchin, Oxford*

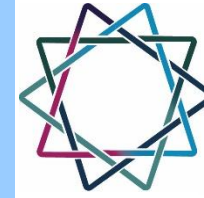


*Frances Kirwan, Oxford*



*Robert Calderbank, Duke University*

# 150<sup>th</sup> Anniversary



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Looking forward to exciting opportunities in mathematics for future generations.

## Celebration Categories

Scientific Meetings and Lectures

Mathematics and Culture

Special Grants and Prizes

Publications

Promoting Mathematics



# Grants



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**Encouraging** mathematical research and collaboration

**Funding** the advancement of mathematical knowledge

Providing grants for discipline experts in both academia and industry, and to early career researchers, to support:

Mathematics research

Conferences

Overseas visitor grants

Networks

**Total awarded under Programme Committee in 2015/2016  
in support of mathematics research and other activities**

**£427,632**



# Publications



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**Publishing** and disseminating mathematical knowledge

## Publishing

- 13 international, peer-reviewed journals, including seven with other learned societies and institutions,
- 2 book series (lecture notes and student texts),
- Individual book titles including Algebraic Number Theory by Cassels and Fröhlich.



LMS Reps Event 2016



LMS Popular Lectures 2016

# Meetings, Events & International Affairs



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**Communicating** with LMS members and the community

**Connecting** with the international mathematical community

Sponsoring and organising UK-wide scientific lectures and meetings for research mathematicians, together with an annual lecture series specifically aimed at the wider public.

Participating in international mathematical initiatives and promoting the discipline more widely.

## Event Highlights from 2015 & 2016

**Women in Mathematics Day** (Two-day event at Cambridge and Edinburgh in April)

**Society meetings in the UK:** Bristol, St. Andrews, London, Manchester

**LMS Reps Event:** Meeting with LMS Reps from UK institutions to feedback how we can better serve the mathematical community

**LMS Prospects in Mathematics:** Held in Loughborough

**2016 Popular Lectures:** Held at the Institute of Education, London, audience of 400

**AMMSI:** Awarded £10,500 to support postgraduates attending conferences in Africa in 2015/16.



*Mathematical Modelling and Analysis of Complex Systems Conference 2015, Kenya*



*Women in Mathematics 2016 Q&A Panel*

# Prizes



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**Celebrating** mathematical achievements

Awarding a number of prestigious prizes in recognition of achievements in mathematics research and the promotion of mathematics

## LMS Prizes 2016

**De Morgan Medal**

**Professor Sir Timothy Gowers FRS**

**Fröhlich Prize**

**Professor Dominic Joyce FRS**

**Senior Berwick Prize**

**Dr Keisuke Hara and**

**Professor Masanori Hino**

**Whitehead Prizes**

**Dr Arend Bayer**

**Dr Gustav Holzegel**

**Dr Jason Miller**

**Dr Carola-Bibiane Schönlieb**

**Anne Bennett Prize**

**Dr Julia Wolf**

*Professor Edmund Roberston FRSE  
giving the 2016 Hirst Lecture*



# Government / Policy



**Advancing** and **promoting** mathematics

Representing mathematics research and education to government and other national policymakers and sponsors.

Nine responses to government and national agencies consultations

Two Data Reports published on the position of the mathematical sciences

SET for Britain in Parliament. The Mathematical Sciences is now an integral part.



*SET For Britain 2015 medal winners*





# Membership Benefits



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- Free online access to the *Bulletin*, *Journal* and/or *Proceedings of the London Mathematical Society*.
- Free online access to *Nonlinearity*
- Discounted subscriptions and publications
- Regular communication
- De Morgan House and UCL
- The LMS Community



# Subscription Rates (2015/16)



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- *Ordinary membership; £70.00*
- *Reciprocity membership; £35.00*
- *Associate membership; £17.50*



Apply online: <http://www.lms.ac.uk/membership/online-application>

# Becoming a Member of the Society

- Application form online:  
<http://www.lms.ac.uk/membership/online-application>
- Counter-signatures
- Election to membership
- Signing the Members' Book which dates back to 1865.



New members sign the Members' Book.



Simon Tavaré, LMS President, chairing a meeting of the Society.

# Contact Us



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Visit [www.lms.ac.uk](http://www.lms.ac.uk)

LMS Departmental Reps:

[www.lms.ac.uk/membership/lms-representatives](http://www.lms.ac.uk/membership/lms-representatives)

Email: [Membership@lms.ac.uk](mailto:Membership@lms.ac.uk)

[elizabeth.fisher@lms.ac.uk](mailto:elizabeth.fisher@lms.ac.uk)

[anthony.byrne@lms.ac.uk](mailto:anthony.byrne@lms.ac.uk)

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