

London Mathematical Society Elections 2017

Brief Biographies of Candidates

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Candidate for election as President (1 vacancy)

Caroline Series FRS, Professor of Mathematics (Emeritus), University of Warwick

Email address: c.m.series@warwick.ac.uk

Home page: <http://www.maths.warwick.ac.uk/~cms/>

PhD: Harvard University 1976.

Previous appointments: Warwick University (Lecturer/Reader/Professor) 1978-2014; EPSRC Senior Research Fellow 1999-2004; Research Fellow, Newnham College, Cambridge 1977-8; Lecturer, Berkeley 1976-77.

Research interests: Hyperbolic Geometry, Kleinian Groups, Dynamical Systems, Ergodic Theory.

LMS service: Council 1989-91; Nominations Committee 1999-2001, 2007-9, Chair 2009-12; LMS Student Texts Chief Editor 1990-2002; LMS representative to various other bodies; LMS Popular Lecturer 1999; Mary Cartwright Lecture 2000; Forder Lecturer 2003.

Additional information: FIMA, FAMS, Hon. Fellow Somerville College, Oxford; Junior Whitehead Prize 1987; Senior Anne Bennett Prize 2014; British Science Association President 2011; Maths subpanel member RAE 2008, REF 2014; EPSRC Mathematics College 1998 - 2010 and various EPSRC panels; IMU Committee for Women in Mathematics Vice Chair 2015-18.

Candidates for election as Vice-Presidents (2 vacancies)

John Greenlees, School of Mathematics and Statistics, University of Sheffield.

Email: J.Greenlees@sheffield.ac.uk

Home page: <http://greenlees.staff.shef.ac.uk/>

PhD: University of Cambridge 1986.

Previous appointments: Lecturer, National University of Singapore 1986-89; Visiting Assistant Professor, University of Chicago 1989-90; Nuffield Foundation Science Research Fellowship 1995-96; Visiting Associate Professor, University of Chicago 1994; INI Programme Organizer, Cambridge 2002; Head of School 2010-13; Research Professor MSRI, 2014.

Research interests: Algebraic topology (stable homotopy theory, equivariant cohomology theories); commutative algebra, representation theory.

LMS service: Editorial Board 1994-2004, Publications Committee 2004-2009; BMC Scientific Committee 1999-2004; Prizes Committee 2009-10; Research Policy Committee 2010 - Date; Vice-President 2009-Date.

Additional information: Junior Berwick Prize 1995; EPSRC Mathematics Strategic Advisory Team 2004-06; Member, RAE 2008 Pure Maths Subpanel. Editorial Boards: Algebraic and Geometric Topology 2000-; Homology, Homotopy and Applications 2007-; Topology and its Applications 1998-. Member of REF2014 Mathematical Sciences Subpanel.

Personal statement: The factual information should make plain the value I place on mathematical research and the traditional ways the LMS supports it; that is my top priority, but the LMS has other important roles. There is a shift of emphasis, and a shift of funding underway. If mathematics is to flourish, it is important for us to explain what we do at all levels and what mathematics can contribute, and we need to do so in language suitable for a variety of different audiences. Since I have joined Council we have introduced or supported a variety of further initiatives to improve communication, internally and with the rest of the world. I hope to play a continuing part in a measured but bold and outgoing LMS supporting mathematical research and explaining its importance, working with other organisations to add weight to the case whenever appropriate.

Dr Catherine Hobbs, Head of Department of Engineering Design and Mathematics, University of the West of England, Bristol.

Email address: catherine.hobbs@uwe.ac.uk

Home page: <http://fet.uwe.ac.uk/staff/staffDetails.asp?Catherine.Hobbs>

PhD: University of Liverpool, 1993.

Previous appointments: 1992-94 Teaching Fellow, University of Nottingham; 1994-2010 Lecturer/Senior Lecturer/Head of Department/Associate Dean, Oxford Brookes University; 2001 Visiting Research Fellow University of Auckland; 2005-6 Visiting Fellow, Heilbronn Institute for Mathematical Research, University of Bristol.

Research interests: Singularity Theory and its applications, particularly to physical sciences.

LMS service: 1997-2000 and 2013-present Member at Large, LMS Council; 1998-2001 Chair LMS Women in Mathematics Committee; 2003-2007 and 2013-present Member, LMS Women in Mathematics Committee; 2003-2005 and 2008-2010 Member of LMS Nominating Committee; 2008-2013 LMS representative on BMC Scientific Committee; Member of LMS Publications Committee 2015-present.

Additional information: Chair of Heads of Departments of Mathematical Sciences Committee 2014-2017; Member of EMS Women in Mathematics Committee 2004-2010; Member of Standing Committee of European Women in Mathematics, 2001-2007; Fellow of the IMA; Member of IMA Council. Principal fellow of the HEA.

Personal statement: I have had a long association with the LMS and a firm belief in the importance of the Society to UK mathematics, as a representative organisation as well as a publisher and supporter of research mathematics across the broad range of mathematical activity in the UK. I have been involved in a number of aspects of LMS business over the last 20 years which I believe will put me in a good position to undertake the Vice President role.

Candidate for election as Treasurer (1 vacancy)

Robert Turner Curtis, Professor of Combinatorial Algebra, University of Birmingham.

Email: rt.curtis@bham.ac.uk

Home page: www.mat.bham.ac.uk/staff/curtisrt.shtml

PhD: University of Cambridge 1972.

Previous appointments: SRC Research Fellow, Cambridge, 1972—76; Visiting Professor, Bowdoin College, 1977—80; Lecturer, Senior Lecturer, Reader and Professor, University of Birmingham, 1980—2010.

Research interests: Presentations and representations of finite groups; sporadic simple groups; symmetric generation of groups; the geometric and combinatorial structures on which groups act: graphs, codes, lattices, block designs.

LMS service: Council member at large 2001—07; Prizes Committee 2004—5; Programmes Committee 2001—4; Librarian 2003—07; Regional co-ordinator (5 years); Treasurer 2011 - Date.

Additional information: Head of School of Mathematics 1997-2002; Council of the University of Birmingham (5 years); Chairman of 55th BMC 2003; Scientific Committee of BMC 2002 – 2004.

Personal Statement: I see the role of the LMS as being more important now than it has ever been. As Government seeks ways to cut back on its expenditure it is imperative that a well-informed and articulate voice makes the case for Mathematics and, in particular, for the continued funding of mathematical research. Through the CMS, its own Education Committee and other bodies, the Society is hugely influential in defending the interests of the mathematical community. Moreover, as financial support for research becomes increasingly difficult to obtain, the role of the LMS in providing grants becomes correspondingly invaluable.

As Treasurer I am taking measures to ensure the continued financial security of the Society, so that it can support these essential activities now and in the future. Besides finance, the other main responsibility of the Treasurer is the membership of the Society. I am keen to improve communications between our elected Council and our members, and for this reason I have re-established a network of departmental representatives. There is evidence that this structure is already bearing fruit.

Candidate for election as General Secretary (1 vacancy)

Stephen Huggett, Professor, University of Plymouth.

Email: s.huggett@plymouth.ac.uk

Home page: <http://stephenhuggett.com/index.html>

DPhil: University of Oxford 1981.

Research interests: Twistor theory; Graph theory.

LMS service: General Secretary, 2012– ; Chair, International Affairs Committee 2004–2011; Programme Secretary 2001–2011; Member of Education Committee 1992–2001.

Additional Information: Secretary of the European Mathematical Society 2007–2014.

Candidate for election as Publications Secretary (1 vacancy)

John Robert Hunton, Professor of Pure Mathematics, Durham University.

Email: john.hunton@durham.ac.uk

Home page: <http://www.dur.ac.uk/john.hunton>

PhD: University of Cambridge 1990.

Previous appointments: 1989-91 SERC Postdoctoral Research Fellow (held at the University of Manchester and at MIT); 1991-95 Research Fellow, Trinity College, Cambridge; 1994/5 William Gordon Seggie Brown Fellow, University of Edinburgh and honorary Research Fellow, University of St Andrews; 1995-2003 Lecturer/Reader, University of Leicester; 2001-2002 Leverhulme Research Fellow; 2003-2013 Professor of Geometry, University of Leicester.

Research interests: Algebraic Topology, K-theory and Dynamics, Aperiodic Patterns, and especially the interaction of these topics.

LMS service: Publications Secretary since 2013; International Affairs Committee, Library Committee and Personnel Committee 2013 - present; Council, Member-at-Large 2011-2013; Editorial advisor for LMS publications on K-theory and Algebraic Topology, 2006-2013; Publications Committee 2012-2013; LMS representative on Scientific Steering Committee of the British Mathematical Colloquia 2011-2017; LMS Council representative, Nominating Committee 2012; LMS Council representative on Cecil King Mathematics Travelling scholarship interview panel 2013.

Additional information: Chair of British Mathematical Colloquium 2011; member of EPSRC College since 1999 and of Strategic Advisory Team for Mathematical Sciences 2009-2013; Member, academic subcommittee contributing to Deloitte report on 'Assessing the Economic impact of Mathematical Science Research' 2012/3; representative of the Learned Societies at the Burgess inquiry on RCUK Open Access policy 2014/15; chair of panel session at Berlin ECM discussing publishing for early career researchers 2016; Selected Exhibitor at Royal Society Summer Science Exhibition 2009 presenting contemporary pure and applied mathematical research on aperiodic geometry to Government, Policy Makers and the General Public; co-organiser 1996-2011 of LMS scheme 3 collaborative seminar Transpennine Topology Triangle; co-organiser over last 18 years of multiple workshops on various algebra-topology-geometry interactions

Personal statement: Concerning publications, the LMS has a dual role to play: it is a recognised body supporting and representing the publication related interests of the mathematical community, and it is also an internationally respected academic publisher itself. Moreover, this latter role provides the vast majority of the Society's income, and so directly supports mathematicians via the many LMS grant schemes and activities. In the current, rapidly changing climate, the Society needs to keep a constant eye on the potential - and real - threats Mathematics faces in this area, working to mitigate them where possible, understanding what is happening at members' institutions, providing mathematicians with good quality information, maintaining the quality, recognition and viability of its publications, and clearly articulating - positively and constructively - the needs of mathematics to the national and international debates. If re-elected, I would endeavour to continue to use my experience and links with the mathematical and wider public communities to aid the LMS in addressing this spectrum of important activities, in particular continuing to lead the development of the Society's Publishing Strategic Plan which, in collaboration with representatives of our editors, authors, advisors, etc, is current work in progress.

Candidate for election as Programme Secretary (1 vacancy)

Professor Iain A. Stewart, Professor of Computer Science, School of Engineering and Computing Sciences, Durham University

Email: i.a.stewart@durham.ac.uk

Home page: <http://www.durham.ac.uk/i.a.stewart>

PhD: Mathematics ('Locally Supersolvable Skew-Linear Groups', supervisor B.A.F. Wehrfritz, Queen Mary College, University of London, 1986).

Previous appointments: Lecturer, Computing Laboratory, University of Newcastle upon Tyne, 1986-92; Lecturer, Senior Lecturer, Reader: Department of Computer Science, University of Wales Swansea, 1992-1996; Professor of Computer Science, School of Mathematics and Computer Science, University of Leicester, 1996-2002.

Research interests: Theoretical computer science including: computational complexity; finite model theory and descriptive complexity; interconnection networks for parallel and distributed computing; graph theory and algorithms; theoretical aspects of artificial intelligence; algorithmic and complexity aspects of group theory.

LMS service: Member of LMS Council 1997-99 and 2014-current; Chair of LMS Programme Committee 2015-current; Member of LMS Computer Science Committee 1996-1999 and 2015-current and Chair 1999-2002; Member of LMS Publications Committee 1997-99; Editorial Advisor of LMS Journal of Computation and Mathematics from its inauguration until 2012; Coordinator of the joint LMS/EPSRC Mathematics for IT (MathFIT) initiative 2000-02.

Additional information: Member of Computer Science and Informatics REF Panel; Member of British Computer Society Academy of Computing Research Committee; Member of UK Computing Research Committee and its Executive Committee.

Personal statement: In these times of austerity, impact and collaboration, it is more important than ever that Mathematics is valued by governments, research councils, scientists at large and the general public as intrinsic to the social, technological and intellectual fabric and well-being of the UK; and, in consequence, that Mathematics is properly supported in all ways possible. I have spent my academic life working at the interface of Mathematics and Computer Science, both in terms of my own personal research and the professional service activities I have engaged in (in tandem with learned societies and research councils). I feel that I have the vision, expertise and general mathematical appreciation to help (mainstream) Mathematics engage in a wider sphere; for example, with potential impact-related opportunities in Computer Science and Engineering. At present I feel that Mathematics is being unfairly treated and I am keen to try and help reverse this trend, working through the LMS to create a healthier and more positive environment. I believe that it is in the best interests of Mathematics to engage with, for example, the current funding mechanisms and constructively work towards a more enlightened governmental attitude, and I feel that I can positively contribute to this movement.

Candidate for election as Education Secretary (1 vacancy)

Anthony (Tony) David Gardiner

Email: Anthony.D.Gardiner@gmail.com

PhD: University of Warwick 1973.

Previous appointments: Assistant lecturer, University of East Africa (Dar-es-Salaam) 1968-69; DAAD Fellow, Universität Bielefeld 1970-72, Tübingen 1973; SERC Post Doc, Royal Holloway College 1972-74; University of Birmingham: Lecturer 1974-89; Reader in Mathematics and Mathematics Education (1989-2012).

Research interests: Permutation groups; Algebraic graph theory; History of mathematics; Mathematics education.

LMS service: Council 1992-97 and 2015-present; Education Committee 1996-2000 and 2011-present; Major role in the committee that produced the influential report "Tackling the mathematics problem" 1995; Helped set up the Cecil King Travel Scholarship 2000; Education Secretary 2011-2012; Link for Undergraduate Summer Schools 2015-17; Holgate lecturer 2015-18.

Additional information: Texas A&M University "International Award for Excellence in Mathematics Education" 2016. 10th International Congress on Mathematics Education (Copenhagen), Invited Lecture 2004. European Mathematical Society, Chair of Education Committee 2000-04. President, Mathematical Association 1997-98; member of Council (various periods 1988-2013). Set up UK Mathematics Trust 1996 (now involving 700K pupils per year in 30+ events). Paul Erdős Award (World Federation of National Mathematics Competitions) 1995 and Senior Vice President 2006-08. UK IMO Team Leader

1990-95. My work with undergraduates and teachers began in East Africa (1968) and with schoolchildren in Birmingham (1975). I have published more than 15 books of serious mathematics aimed at schools and teachers (with two more in the pipeline). Most recently I have made major contributions to the UK versions of Singapore primary mathematics textbooks, and published a wide-ranging critique - "Teaching mathematics at secondary level". Since 1995 I have worked consistently behind the scenes, pressing Ministers and officials to improve standard provision in schools. (The LMS has a role to play here, but needs to work with others.)

Personal statement: The sustainability of academic mathematics in the UK depends on a reliable supply of good home-grown students (part of "the people pipeline"). In this we face serious challenges. The recent welcome increase in A-level entries faces significant and immediate structural threats (from negative reactions to the new GCSE, from the new funding regime at age 16-19, and from the shortage of suitable teachers and teacher-support). If elected, pressing issues would include:

- undergraduate teaching (e.g. TEF)
- negative pressures on the uptake of A level Mathematics and Further Mathematics
- the supply, preparation and development of mathematics teachers
- the development of an improved core school curriculum
- the provision of quality universal textbooks.

Dr Kevin Houston, Senior Lecturer, University of Leeds.

Email: k.houston@leeds.ac.uk

Home page: <https://www.l.maths.leeds.ac.uk/~khouston/>

PhD: University of Warwick, 1995.

Previous appointments: 1994-1996 Postdoctoral Research Assistant, University of Liverpool; 1996-2000 Lecturer/Senior Lecturer Middlesex University; 2000-2006 Lecturer University of Leeds; 2006-present Senior Lecturer University of Leeds.

Research interests: Singularity Theory, Discrete Differential Geometry and the applications of geometry.

LMS service: Member of Education Committee 2012–present; Chair of Education subcommittee on Public Engagement which involves being LMS representative on the Joint Promotion of Mathematics committee and British Science Festival Mathematics Section Committee.

Additional information: My education committee work has involved organising the LMS Popular Lectures, LMS and Gresham Lecture and working with other bodies such as IMA, Gresham College, RSS, and the British Science Association.

I have been heavily involved in outreach activities for many years. I have visited many schools talking to many teachers and thousands of students. Also, I have presented at high profile events such as the British Science Festival. I am organiser of conference for maths communicators MATRIX2016 and Talking Maths in Public.

My best-selling textbook for undergraduates How to Think Like a Mathematician has been translated into four other languages and I have just published a second book, Complex Analysis: An Introduction.

I am on the Steering Committee and Management Committee of MAGIC, one of the Taught Course Centres for postgraduate teaching via video conferencing. This project, initially funded by EPSRC, broadens the education of PhD students in the UK.

Personal statement: I have a strong interest in teaching with 27 years experience of teaching in HE institutions and an award for teaching excellence. My education interests are broad, from face-to-face teaching, publications, digital and innovative exhibitions.

We face a diverse set of problems in mathematics education in the coming years. The effects of Brexit regarding the Erasmus scheme, student recruitment, and lecturer employment are all still unclear. To name just a few other important issues: TEF; changes to GCSE and A Level Mathematics; mathematics teacher recruitment, retention and training. The LMS is a vital body in addressing these problems. It represents the mathematics community and can therefore ensure that the deficit in mathematical skills in the UK is closed in a robust and practical manner.

The key to success in approaching these issues is liaising with like minded organisations which I am well placed to do due to my relations with bodies such as IMA and RSS. The current times present us with real opportunities for change. An exciting positive example is the founding of a maths museum, something I am involved in. I am keen to be able to serve the LMS and its members as the Education Secretary.

Candidate for election as Librarian (Member-at-Large) (1 vacancy)

June Barrow-Green, Professor of History of Mathematics, The Open University.

Email: june.barrow-green@open.ac.uk

Home page: <http://www9.open.ac.uk/mct/people/june.barrow-green>

PhD: The Open University 1993.

Research interests: The development of dynamical systems theory, particularly the work of Henri Poincaré and George D. Birkhoff; British mathematics in the 19th and 20th centuries; The use of history in mathematics education.

LMS service: Member of Council and the Society's Librarian since 2007; Currently chair of Library Committee and a member of the Standing Orders Review Group; Prizes Committee (2015-2017); Personnel Committee (2012-2016); 2015 Celebration Committee (2012-2015).

Additional information: I am a past President of the British Society for the History of Mathematics (BSHM), a member of the BSHM Council and the BSHM representative on JMC; I was elected Chair of the Executive Committee of the International Commission on the History of Mathematics in 2017; and I am a member of several Editorial Boards including *Historia Mathematica*, *Révue d'Histoire des Mathématiques*, *Philosophia Scientiæ*, AMS History of Mathematics Series, and Birkhäuser Science Networks Historical Studies Series.

Personal statement: The Society's Librarian has responsibility for the LMS book and journal collections as well as its archives. As a historian of mathematics, I am particularly aware of the Society's distinguished history and of the significance of its collections, and I contributed substantially to the organisation of the Society's centenary celebrations in 2015. In the interest of both preserving and making accessible the collections, I have been working with the Archivist on a programme of digitisation of the Society's most important archives for display on the Society's website. I have also been working with the Science Museum arranging a loan of mathematical models for display at De Morgan House.

As a member of staff of the Open University, I am able to represent the position of the part-time and distance-teaching sectors. I am also able to speak for history of mathematics in appropriate curriculum and research discussions. I have an interest in women's issues and I actively support initiatives encouraging women to enter and to stay in mathematics.

Candidates for election as Members-at-Large of Council (6x 2-year terms vacant)

Mark Andrew Joseph Chaplain, Gregory Chair of Applied Mathematics, University of St Andrews

Email: majc@st-andrews.ac.uk

Home page: <http://www.mcs.st-andrews.ac.uk/~majc/>

PhD: Applied Mathematics, 1990, University of Dundee.

Previous appointments: 1990 - 1996: lecturer, School of Mathematical Sciences, University of Bath; 1996 - 1998: Senior Lecturer, Department of Mathematics, University of Dundee; 1998 - 2000: Reader, Department of Mathematics, University of Dundee; 2000 - 2013: Personal Chair in Mathematical Biology, Department of Mathematics, University of Dundee; 2013 - 2015: Ivory Chair of Applied Mathematics, Department of Mathematics, University of Dundee.

Research interests: Mathematical biology, in particular mathematical modelling of cancer growth and treatment.

LMS service: None so far.

Personal statement: My main area of research is in the mathematical modelling of cancer growth and treatment and I have worked in interdisciplinary and multidisciplinary environments throughout my academic career, and have fostered links between mathematics and biology, life sciences (experimentalists) and medicine (clinicians).

In addition to teaching and research, I have a personal interest in the history of mathematics and in wider outreach activities, especially in raising the profile of applied mathematics. I believe that there is a lot of scope for making stronger connections with industry (e.g. the financial sector, the defence industry, "big pharma", the computer games industry etc.).

Stephen J. Cowley, Senior Lecturer in the Department of Applied Mathematics and Theoretical Physics, Faculty of Mathematics, University of Cambridge.

Email: S.J.Cowley@maths.cam.ac.uk

Home page: www.damtp.cam.ac.uk/user/sjc1/

PhD: University of Cambridge, 1981.

Previous appointments: Lecturer at Imperial College (1985-90) and UCL (1983-85); research fellow at Fitzwilliam College (1982-83) and Northwestern University (1981-82); long-term visitor to Cornell University, Caltech and NASA.

Research interests: Fluid mechanics, particularly hydrodynamic stability and separation of high-Reynolds-number flows as applied to aeronautical flows, biological flows, etc.

LMS service: Member since 1987.

Additional information: Past member of the EPSRC College including the Mathematics Evaluation Committee and Panels; Treasurer of the Joint BMC & BAMC in 2015 (a role I agreed to motivated by a desire for academic cross-fertilisation); Chair of the Faculty of Mathematics at Cambridge (2011-14), during which period I initiated and supported the Faculty's Athena SWAN process; elected staff-member of Cambridge's University Council (2007-2014 and from 2017), from which I have experience of academic administration/bureaucracy, and how to make it work (at least sometimes).

Personal Statement: If elected, I aim to contribute to all aspects of the Society. However, in any wide-ranging body, individuals have particular interests; I give two illustrations of mine.

I am keen for the LMS to continue to make a positive impact nationally in education. There is an acute need to ensure that the most talented mathematicians, irrespective of ethnicity, social-class and gender, study our subject at all levels. That there is a problem is illustrated by the significant skew towards independently-educated males amongst UK winners of Fields Medals; surely, we are not making the most of our talent. In the immediate future, the LMS should continue to support vigorously the recommendations in Adrian Smith's post-16 review of mathematics. I also have concerns about the attractiveness of academia as a career: From research funding, through security of tenure, remuneration and teaching loads, to Brexit, the appeal of a UK academic career is waning. The LMS can play a role here by lobbying, both by itself and in concert with fellow travellers. The LMS, the IMA, the Royal Statistical Society and other interested parties need a common hymn-sheet, so that the government, etc. hear a consistent and forceful voice.

Andrew Dancer, Oxford University

Email: dancer@maths.ox.ac.uk

Home page: <https://www.maths.ox.ac.uk/people/andrew.dancer>

PhD: Oxford University 1992.

Previous appointments: 1990-3 Junior Research Fellow at Peterhouse, Cambridge, 1993-94; Research Fellow at MPI Bonn, 1994-5; Research Fellow at IHES, 1995-9; Assistant, then Associate Professor at McMaster University, Canada.

Research interests: Differential and symplectic geometry and related areas of mathematical physics.

Additional information: Director of the Bath-Bristol-Imperial-Oxford-Warwick Taught Course Centre 2007-2013; Director of Graduate Studies at the Mathematical Institute, Oxford 2014-2017; Managing Editor (with R. Heath-Brown) of Quarterly Journal of Mathematics 2007-2017.

Personal statement: I have a strong interest in graduate education and have served as graduate studies director in my department and also as director of a taught course network. A top priority for the UK must be to attract the best doctoral students from around the world and to give them a training that will enable them to compete with the graduates of other leading doctoral programmes worldwide.

At a time when the political environment poses unprecedented challenges for UK science, it is more vital than ever that the UK maintain its links with European institutions and funding networks. The LMS has a vital role to play here in representing the interests of the mathematical community to government.

Anthony (Tony) David Gardiner

Email: Anthony.D.Gardiner@gmail.com

PhD: University of Warwick 1973.

Previous appointments: Assistant lecturer, University of East Africa (Dar-es-Salaam) 1968-69; DAAD Fellow, Universität Bielefeld 1970-72, Tübingen 1973; SERC Post Doc, Royal Holloway College 1972-74; University of Birmingham: Lecturer 1974-89; Reader in Mathematics and Mathematics Education (1989-2012).

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Personal statement: The sustainability of academic mathematics in the UK depends on a reliable supply of good home-grown students (part of "the people pipeline"). In this we face serious challenges. The recent welcome increase in A-level entries faces significant and immediate structural threats (from negative reactions to the new GCSE, from the new funding regime at age 16-19, and from the shortage of suitable teachers and teacher-support). If elected, pressing issues would include:

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- negative pressures on the uptake of A level Mathematics and Further Mathematics
- the supply, preparation and development of mathematics teachers
- the development of an improved core school curriculum
- the provision of quality universal textbooks.

Evgenios Kakariadis, School of Mathematics, Statistics and Physics, Newcastle University.

Email: evgenios.kakariadis@ncl.ac.uk

Home page: <http://www.mas.ncl.ac.uk/~nek29/>

PhD: 2011, National and Kapodistrian University of Athens, Greece.

Previous appointments: 2014/today: Lecturer, School of Mathematics and Statistics, Newcastle University, UK; 2013/14: Postdoctoral Fellow, Department of Mathematics, Ben-Gurion University, Israel; 2011/13: Postdoctoral Fellow, Department of Pure Mathematics, University of Waterloo, Canada.

Research interests: Operator Theory, Operator Algebras (e.g. Dilation Theory, Rigidity Problems, Reflexivity, KMS-states with applications in Dynamical Systems of Operator Algebras and Symbolic Dynamics).

Other: 2016/18: (Selected) Member the EPSRC Mathematical Sciences Early Career Forum; 2016/today: Registered as a charter mark panelist for Equality Challenge Unit; 2017: Decision Panel for the Maths and Stats Directed Call by the Institute for Sustainability, Newcastle University, UK. (Budget: GBP 100k.)

Personal statement: In the last two years there have been massive changes in the UK and its academic partners; in particular in Europe and North America. A new political reality is forming and sets new challenges for academia that has to depend mainly on national resources to preserve stability. However there is a risk that the narrative for resilience and productivity (as echoed by councils and universities) may lead just to the exploitation of the present rather than investing in a balanced and prosperous future.

It is now important to increase the visibility and audacity of the UK local groups worldwide as the de facto places to carry out leading international research. We need to reinforce current networks and support novel international collaborations that can potentially import resources and increase the funding balance. At the same time special care should be given to the Equality, Equity and Diversity agenda, where we can update gender, disabilities and ethnicity as areas that boost the multicultural aspects of universities. LMS has a long history in creating and leading in versatile pathways for the multifactorial development of academia and I am hoping to contribute in a collective and resourceful way.

Katrin Leschke, Reader, University of Leicester

Email: kleschke@leicester.ac.uk

Home page: <http://www.tinyurl.com/leschke>, <http://www.le.ac.uk/miv>

PhD: Technische Universität Berlin, 1997.

Habilitation: Universität Augsburg, 2007.

Research interests: My research expertise is in surface theory, integrable systems and visualisation. As well as leading an international network team working on minimal surfaces, I currently also work on applications of surface theory in engineering and chemistry.

Previous appointments: 1997-2002 Research Fellow, TU Berlin; 2002-2005 Visiting Assistant Professor, University of Massachusetts (Amherst); 2005-2007 Research Associate/temp. Associate Professor, Universität Augsburg; 2007-2016 New Blood Lecturer, University of Leicester.

Additional information: Member of the Standing Committee and webmaster of the European Women in Mathematics, organiser of various national and international workshops/conferences in surface theory and visualisation, Investigator in a Knowledge Transfer Partnership, Co-Director of Visual Intelligence lab.

Personal statement: I believe that my experience in research and administration at Universities in the UK, Germany and USA, as well as my links to industry, will help me to bring in fresh ideas on how to communicate the importance of mathematics to the government, the research councils, and the general public.

Brita Nucinkis, Professor of Mathematics, Royal Holloway, University of London

Email: Brita.Nucinkis@rhul.ac.uk

Home page:

[https://pure.royalholloway.ac.uk/portal/en/persons/brita-nucinkis\(1256195e-d48e-4e83-bc02-c50d77ab01a9\).html](https://pure.royalholloway.ac.uk/portal/en/persons/brita-nucinkis(1256195e-d48e-4e83-bc02-c50d77ab01a9).html)

PhD: 1997, Queen Mary and Westfield College, University of London.

Previous appointments: 1997-1999 Research assistant/fellow University of Southampton; 1999-2004 Assistant Professor, ETH Zuerich, Switzerland; 2004-2012 Lecturer/Senior Lecturer/Professor, University of Southampton; 2013- Professor, RHUL.

Research interests: Group Theory; homological algebra; cohomology of groups; algebraic topology.

LMS service: I have (co)-organised several LMS-funded meetings: an LMS/EPSRC summer school on homological algebra, and LMS regional meeting and workshop, and a LMS Durham Symposium. In 2013, for one year, I took over the organisation of the LMS 3 network on profinite groups, and am currently part of the group of people managing the successor network "Functor categories for groups".

Additional information: I am a research active pure mathematician with experience in quite varying environments. All through my time at UK institutions I have benefited tremendously from the opportunities offered by the LMS, be it from attending meetings as a Ph.D student, Women in Mathematics meetings as a new postdoc, to later un-bureaucratically obtaining funding for various research projects and the meetings mentioned above. In light of current funding trends becoming more utilitarian, it is very important for the mathematics community to have a unified voice in defending basic research. I am planning to contribute to this and to help preserve the uncomplicated and vital funding the LMS is currently providing.

Ronald Reid-Edwards, Fellow and Director of Studies in Mathematics Trinity Hall, University of Cambridge

Email: R.A.Reid-Edwards@damtp.cam.ac.uk

PhD: Queen Mary, University of London 2006.

Research interests: Mathematical aspects of String Theory and Quantum Field Theory.

Previous appointments: University of Hamburg, Postdoctoral researcher (2006-2008); City University London, University Postdoctoral Researcher (2008-2009); Mathematical Institute, University of Oxford, Postdoctoral Researcher then Stipendiary Lecturer (2009-2014); University of Hull, Lecturer in Mathematics (2014-2017).

LMS service: University of Hull LMS representative (2014-2017).

Personal statement: The LMS provides a important forum for mathematicians to work together and wield national influence as a coherent discipline, irrespective of institutional affiliations. Given the drive to increase competition between institutions and the concern about many changes in the sector over the past decade, the role today of the LMS as a unifying body amongst mathematicians and an advocate for mathematicians is tremendously important.

Having worked at a wide variety of different institutions, each facing different challenges and am sensitive to the wide spectrum of very different pressures and needs that colleagues face in different institutions.

As someone with research interests in applied mathematics and theoretical physics, I am a strong supporter of the links mathematics has forged with other disciplines and would be keen to explore collaborations with other learned societies, where beneficial.

Gwyneth Stallard, Professor of Pure Mathematics, The Open University

Email: Gwyneth.Stallard@open.ac.uk

Home page: <http://www.mathematics.open.ac.uk/People/gwyneth.stallard>

PhD: Imperial College, London, 1991.

Previous appointments: 1992 – 1994 temporary lecturing positions at the University of Southampton; 1994 – 1995 Research Fellow at the Open University; 1995 – 2002 Lecturer at the Open University; 2002 – 2009, Senior Lecturer at the Open University; 2009 – present, Professor at the Open University.

Research interests: Complex dynamics – the iteration of transcendental meromorphic functions.

LMS service: Chair of the Women in Mathematics Committee (2006 – 2015), member of the committee (2003 – 2015); LMS representative on the Athena Forum (2008 – 2015); Member of Prizes Committee (2010 – 2011); Member of Nominating Committee (2007, 2014); Member of Good Practice Steering Committee since 2008; Member of Programme Committee since 2014; Member of Research Grants Committee since 2017; Member of Early Career Research Committee since 2017; Member of Personnel Committee since 2017; Member of Council since 2014.

Additional information: Awarded an OBE for services to higher education in the 2014 New Year's Honours List. Awarded a Suffrage Science Award in 2016. Member of LMS team awarded the inaugural Royal Society Athena Prize in 2016. Awarded an LMS Whitehead Prize in 2000 and featured in the Faces of Mathematics exhibition in 2001. Member of EPSRC panels. Invited by the Council of the IMA to become a Fellow in 2013. Co-organiser of various international workshops on complex dynamics and awarded EPSRC grants to fund my research.

Personal statement: I have played an active role in the LMS for a number of years, in particular as Chair of the LMS Women in Mathematics (WIM) Committee. I was delighted to be elected as a full member of Council in 2014 and have valued the ability this has given me to make a greater contribution to the Society's decision making process.

As Chair of the WIM committee, I liaised with a number of organisations including the EPSRC, Athena SWAN, the Royal Society and other professional bodies such as the IOP and the other CMS bodies. This has given me a good understanding of the organisations with which the LMS needs to interact and many useful contacts, which enhance the contribution I can make to Council.

The LMS has led the way in developing significant positive initiatives, such as the Good Practice Scheme, which aim to ensure that every professional mathematician (both male and female) is enabled to reach their true potential and I am delighted that this was recognised by the award of the inaugural Royal Society Athena Prize in 2016. I hope to be re-elected to Council so that I can continue to be fully involved in shaping future LMS initiatives and activities.

Dr Alina Vdovina, Lecturer, School of Mathematics and Statistics, Newcastle University

Email: Alina.Vdovina@newcastle.ac.uk

Home page: <http://www.staff.ncl.ac.uk/alina.vdovina/>

PhD: 2005 Habilitation, University of Bonn; 1996 PhD, Moscow State University.

Previous appointments: 2002-04 - Lise-Meitner Habilitation fellowship, University of Bonn; 2001-02 - Visiting assistant professor, SUNY Binghamton; 2000-01 - Visiting professor, Max-Planck-Institute für Mathematik, Bonn; 1999-00 - ATER at ENS of Lyon; 1998-99 - NATO fellowship at Institute Fourier, Grenoble.

Research interests: Geometry and analysis on groups acting on buildings; Fundamental groups of algebraic varieties; Geometry of Riemann surfaces; Knot theory; Geometric and combinatorial group theory; Constructing C^* -algebras and computing their K-theory; Noncommutative geometry and operator theory.

LMS service: 2005-2006 Member of the organizing committee of BMC2006; organizer of LMS funded conferences "Beauville surfaces and groups", 2012 and LMS Durham Symposium 2013.

Personal statement: I continue to believe, as I did two years ago when I was first elected, that maintaining high standards of research is the key purpose of the LMS as a learned society, and that one of the best ways to achieve this is active promotion of international collaboration. I believe that, as a LMS Council member, I have helped the LMS in fulfilling its principal obligation: advancement of mathematics. In both the Research Grant Committee and LMS Council, we expand and develop further research grant schemes and put lots of emphasis on collaboration; most of the travel and conference grants are awarded at short notice.

Although the LMS does support mathematicians at vulnerable stages of their career (for example, through the recently formed Early Career Researchers Committee), advancement of mathematics is becoming increasingly hard in the current environment; therefore, the LMS should provide more support for those who are between jobs, retired and minorities. I would continue to emphasise that real help is much more important than formal tick boxes.

Candidates for election to Nominating Committee (2 vacancies)

H. Dugald Macpherson, Professor, School of Mathematics, University of Leeds

Email: h.d.macpherson@leeds.ac.uk

Home page: <https://www.maths.leeds.ac.uk/index.php?id=263&uid=1045>

DPhil: University of Oxford 1983.

Previous appointments: Postdoctoral Fellow Simon Fraser University 1983-1985; Junior Research Fellow, New Hall Cambridge 1985—1987; SERC Advanced Fellow 1987—1992 (Oxford then QMUL); Lecturer QMUL 1992—1994; Lecturer University of Leeds 1994-1996; Reader University of Leeds 1996—2001.

Research interests: Model theory (mathematical logic), and adjacent areas of combinatorics and algebra.

LMS service: None.

Additional information: President, British Logic Colloquium 2014-2016; Editorial Adviser for LMS since 2015; Managing Editor Mathematical Logic Quarterly since 2014.

Martin Mathieu, MRIA, Reader in Mathematics, Queen's University Belfast

Email: m.m@qub.ac.uk

Home page: <http://maths.martinmathieu.net/>

PhD: Dr. rer. nat., Eberhard-Karls-Universität Tübingen (Germany), 1987.

Habilitation: Eberhard-Karls-Universität Tübingen (Germany), 1991.

Previous appointments: Scientific Assistant (CI), University of Tübingen, Germany, 1988-1994; Visiting Associate Professor, University of Iowa, Iowa City, USA, 1993; Visiting Full Professor, University of the Saarland, Saarbrücken, Germany, 1994-1996; Visiting Professor, National University of Ireland, Maynooth, Ireland, 1996-1998; Lecturer, Queen's University Belfast, Belfast, UK, 1998-2000. Reader, Queen's University Belfast, Belfast, UK, 2000-present; Head of Pure Mathematics Research Division, QUB, 2001-2005.

Research interests: Functional Analysis, Operator Theory; C^* -Algebras; Noncommutative Ring Theory; Noncommutative Topology.

LMS service: Since 1996 member of the London Mathematical Society; 2001-2003 LMS Council member; 2001-2003 LMS Programme Committee member.

Additional information: Chair of British Mathematical Colloquium 2004 (at QUB); since 1994 member of the American Mathematical Society and the German Mathematical Society; since 1998 member of the Irish Mathematical Society; since 2012 member of the European Mathematical Society; 2012-2015 EMS Council member; since 2015 EMS Meetings Committee member; 2011-2012 Vice-President of the Irish Mathematical Society; 2013-2014 President of the Irish Mathematical Society; since 2010 elected Member of the Royal Irish Academy; 2000-2010 Editor of the Bulletin of the Irish Mathematical Society; since 2008 Editor-in-chief of the Mathematical Proceedings of the Royal Irish Academy; since 2006 Associate Editor of Journal of Mathematical Analysis and Applications; since 2009 Editorial Board Member of Extracta Mathematica; since 2016 Editorial Board Member of Advances in Operator Theory.

Personal Statement: The UK is a rather inhomogeneous political and scientific entity. The LMS, therefore, has to cater for a large variety of mathematical traditions, ambitions and educational systems. It has done this well in the past; certainly a good mix of LMS members from the various "corners" of the UK on the Council is helpful in this endeavour. Having taught and carried out research in four different university systems (in Germany; the US; the Republic of Ireland; and in Northern Ireland) and having always been in contact with many foreign mathematicians, especially through the almost 30 conferences I organised over my career, I feel well-equipped to add experience and knowledge that can help to manifest the important role that Mathematics plays in UK society; at the same time to keep well-connected with international developments, especially during a time when the UK's position may be less well-defined.

Andrew Treglown, Senior Birmingham Fellow, University of Birmingham

Email: a.c.treglown@bham.ac.uk

Home page: <http://web.mat.bham.ac.uk/~treglowa/>

PhD: University of Birmingham, 2011.

Previous appointments: 2010-11 Postdoctoral researcher, University of Birmingham; 2011-12 Postdoctoral researcher, Charles University, Prague; 2012-13 Research Fellow, Queen Mary, University of London; 2013-2016 Birmingham Fellow, University of Birmingham.

Research interests: Graph theory; Ramsey theory; Probabilistic and Extremal Combinatorics; Combinatorial Number theory.

Additional information: Since 2015 I have been a member of the British Combinatorial Committee. I also currently hold an EPSRC Fellowship. In recent years I have been involved in co-organising workshops and conferences including the LMS-EMS mathematical weekend in Birmingham which celebrated the 150th year of the London Mathematical Society and the 25th year of the European Mathematical Society.

Personal statement: If elected to the Nominating Committee I will seek to ensure that the Committee draws up slates of candidates that are diverse, representing all parts of our academic community. In particular, my research interests differ from the returning members of the Nominating Committee; my background is mainly in Combinatorics. I hope that my experience as a member of the British Combinatorial Committee will be of benefit to the Nominating Committee, and that, being at a relatively early stage of my career, I can provide an alternative perspective.

NOMINATION INFORMATION

Officer Roles

The following nominations for **Officers** of Council have been made in accordance with the Society's By-Laws.

Role	Nominee	Nominator
President	Caroline Series	Nominating Committee
Vice-Presidents (2 vacancies)	John Greenlees Catherine Hobbs	Nominating Committee
Treasurer	Robert Curtis	Nominating Committee
General Secretary	Stephen Huggett	Nominating Committee
Publications Secretary	John Hunton	Nominating Committee
Programme Secretary	Iain A. Stewart	Nominating Committee
Education Secretary (1 vacancy)	Tony Gardiner	Nominator: Timothy Gowers Seconders: Kevin Buzzard, Ben Green, A. P. Veselov
	Kevin Houston	Nominating Committee

Members-at-Large of Council

The following nominations for **Members-at-Large** of Council have been made in accordance with the Society's By-Laws. Six two-year terms are contested in the election. The list is alphabetical.

Role	Nominee	Nominator
Member-at-Large of Council	Mark A. J. Chaplain	Nominating Committee
Member-at-Large of Council	Stephen J. Cowley	Nominating Committee
Member-at-Large of Council	Andrew Dancer	Nominating Committee
Member-at-Large of Council	Tony Gardiner	Nominating Committee
Member-at-Large of Council	Evgenios Kakariadis	Nominator: Corneliu Hoffman; Seconders: Ivan Todorov, Nikos Katzourakis, Stephen Power
Member-at-Large of Council	Katrin Leschke	Nominating Committee
Member-at-Large of Council	Brita Nucinkis	Nominating Committee
Member-at-Large of Council	Ronald Reid-Edwards	Nominating Committee
Member-at-Large of Council	Gwyneth Stallard	Nominating Committee
Member-at-Large of Council	Alina Vdovina	Nominating Committee

Five Members-at-Large who were elected for two years in 2016 have a year of their terms left to serve; they are: Alexandre Borovik, Tara Brendle, Francis W. Clarke, David E. Evans and Sarah Zerbes.

In addition, the role of **Member-at-Large** (Librarian) will be open for election in 2017. The term of office is one year, to a maximum of ten years. The following nomination has been made in accordance with the Society's By-Laws:

Role	Nominee	Nominator
Member-at-Large (Librarian)	June Barrow-Green	Nominating Committee

Nominating Committee

The following nominations for the **Nominating Committee** have been made in accordance with the Society's By-Laws:

There are two vacancies, both at three-year terms.

The list is alphabetical.

Role	Nominee	Nominator
Nominating Committee	H. Dugald Macpherson	Nominating Committee
Nominating Committee	Martin Mathieu	Nominating Committee
Nominating Committee	Andrew Treglown	Nominating Committee

The continuing members of the Nominating Committee are John Toland (Chair), Roger Heath-Brown, Marta Mazzocco, Sarah Rees and Ulrike Tillmann. In addition, Council will appoint a representative to the Committee.

SPECIAL NOTE ON THE 2017 ELECTIONS:

Members will see on the ballot paper that one candidate is standing in two contests. The candidate's name appears in both the Member-at-Large contest, and also in the Education Secretary contest. The By-Laws allow for such a situation, and this note is to clarify for members how the election procedures apply in this instance.

As in previous years, the elections for each individual Officer position are separate contests; the Member-at-Large positions are counted together as one contest, as are the Nominating Committee positions.

Any candidate standing in two contests will be asked to indicate to the Scrutineers, in confidence, their preference with respect to the two positions for which they are standing; the Scrutineers will take any such indicated preference into appropriate account when instructing the ERS over the processing of votes.

Members are free to vote for such a candidate in both contests, in one contest and not the other, or in neither contest.

Please see over

SINGLE TRANSFERABLE VOTE

There are many different ways of conducting an STV election. The version to be used in the current LMS election is known as Meek's method. It has the approval of the Electoral Reform Society and is used by other reputable organisations such as the Royal Statistical Society. From an elector's point of view, the system is simple: numbers have to be placed against candidates' names on the ballot paper to indicate the voter's order of preference. Equal rankings are allowed, and not all candidates have to be given a rank.

Two basic principles govern the counting. First, if a candidate needs v votes to be elected but actually has $n > v$, then a fraction $(n - v) / n$ of each of these votes is passed on to candidates ranked lower on each relevant ballot paper. Naturally this means that some 'votes' have become fractional, but this causes no problems. Secondly if, after the above procedure has been iterated as far as possible, there are still vacant seats, all the votes of the candidate with the lowest total vote are redistributed in the same way. (If two candidates are tied at the lowest vote, one is chosen by a random process.) A precise description of the procedure follows.

1. Each candidate, at any stage of the election, is either *elected*, *hopeful* or *excluded*. Initially everyone is hopeful.
2. At each stage of the count, each candidate x has an associated weight w_x . At this stage the candidate keeps a proportion w_x of any vote or fraction of a vote received, and the remaining proportion $(1 - w_x)$ is passed on to another candidate (or in equal shares to a group of candidates if these have equal rankings). Excluded candidates have weight 0, so keep nothing. Hopeful candidates have weight 1 and keep everything which is passed to them. Elected candidates have weights between 0 and 1 determined as in §4.
3. If on a ballot paper a candidate a is ranked first, b second, c third and so on, then, at any stage a receives from that elector w_a of the vote, b receives $(1 - w_a) w_b$ of the vote, c receives $(1 - w_a) (1 - w_b) w_c$ of the vote, and so on. Notice that if any candidate listed is hopeful, all fractions transferred to later candidates are 0. If any part of the vote remains to be passed on after the whole list has been dealt with (which could happen easily if the ballot paper ranks only one candidate), that part is counted as excess. Initially there is no excess.
4. The *quota* – the vote a candidate must exceed at any stage in order to be elected – is defined to be $(\text{total votes} - \text{total excess}) / (\text{number of seats} + 1)$. The *weights* for elected candidates at each stage are determined (uniquely) by the requirement that the vote which remains with each of them is equal to the current quota; these weights are calculated by an iterative procedure.
5. At each stage the quota and weights are calculated according to §4, and then the procedures of §§2,3 are applied. Any candidate with more than the current quota of votes is declared elected and retains this status thereafter. If this means that at least one hopeful candidate changes to an elected candidate, the procedure is repeated.
6. If no hopeful candidate was elected in §5, the hopeful candidate with the lowest total vote at this stage (or one such chosen at random if there are many) is declared excluded, and the procedure is repeated with that candidate's weight changed to 0.
7. When the total number of elected candidates is equal to the number of seats the process stops.

NOTE: The description above is the same as in the May 1999 Newsletter and is essentially taken from the paper *Single transferable vote by Meek's method* by I.D. Hill, B.A. Wichmann and D.R. Woodall (*Computer J* **30** (1987) 277–281), where more details are presented.