

TRUSTEES' BIOGRAPHIES

PRESIDENT

Jonathan Peter Keating FRS, Sedleian Professor of Natural Philosophy, University of Oxford

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PhD: University of Bristol, 1989

Previous appointments: Royal Society Research Assistant, University of Bristol, 1989–1991; Lecturer in Applied Mathematics, University of Manchester, 1991-1995; Reader in Applied Mathematics, University of Bristol, 1995-1997; BRIMS Research Fellow, Hewlett-Packard Laboratories, Bristol, 1995-2001; Professor of Mathematical Physics, University of Bristol, 1997-2012; Head of Department of Mathematics, University of Bristol, 2001-2004; EPSRC Senior Research Fellow, 2004-2009; Dean of Science, University of Bristol, 2009-2013; Henry Overton Wills Professor of Mathematics, University of Bristol, 2012-2019; Chair of the Heilbronn Institute for Mathematical Research, 2015-2020.

Research interests: Mathematical Physics – in particular Random Matrix Theory, Quantum Chaos, and Semiclassical Asymptotics – and connections with Number Theory.

LMS service: South West and South Wales Regional Organiser 1996–1999; Member of Prizes Committee 2016, 2017, 2018; President 2019-present.

Additional information: Frölich Prize, 2010.

VICE-PRESIDENTS

Iain Grant Gordon, Professor of Mathematics, University of Edinburgh

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PhD: University of Glasgow, 1998

Previous appointments: Seggie Brown Fellow, University of Edinburgh 1998-1999; EU Research Fellow, University of Bielefeld and University of Antwerp 1999-2000; Lecturer then Reader, University of Glasgow 2000-2006; Professor of Mathematics, University of Edinburgh 2006-present; EPSRC Leadership Fellow 2008-2013; Head of School of Mathematics, University of Edinburgh 2014-present

Research interests: Representation theory and noncommutative algebra, and their connections with combinatorics and algebraic geometry.

LMS service: Member of Council (and in this respect member of Programme Committee and Publications Committee) 2005-2009; Member of Research Meetings Committee 2010-2012; Editor, Proceedings of the London Mathematical Society 2012-2015; Member of Prizes Committee 2017-2020; Vice-President 2019-; Member of Women in Mathematics Committee 2019-

Additional information: Member of ICMS Management Committee and Board 2006-present; Member of EPSRC Mathematics Programme SAT 2011-2014; Member of REF2014 Mathematical Sciences subpanel; Member of INI Steering Committee 2016-2019

Personal statement: Last year I wrote “I think it is critical for the long-term health of the mathematical sciences community to advocate effectively for itself, both in its own terms and in terms of its place in culture and its utility in the modern economy. Given the increasing role the mathematical sciences play in a more quantitative society and some of the large investments that are being made in STEM research in the UK, there are opportunities and there are threats. It is always crucial that the theoretical parts of the discipline remain strong and vibrant, taking advantage of opportunities whenever possible, working broadly and openly so that the whole of the discipline flourishes. In the current environment, it is important to continue to support intellectual and geographic diversity, but also benefit from the large-scale funding.” I have tried to act on this: helping to coordinate the LMS response to covid-19, particularly for Early Career Researcher; helping to organise a community-wide “Big Ideas” workshop at ICMS; participating in discussions around major issues including an Academy and government’s Additional Funding for Mathematical Sciences. I do this as an advocate for the community coming together, in its diversity, and I hope to continue.

Catherine Hobbs, Associate Dean Research and Enterprise, Faculty of Environment and Technology, University of the West of England, Bristol.

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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. 2010–2018 Head of Department of Engineering Design and Mathematics, University of the West of England, Bristol. 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 2013–2017 Member at Large, LMS Council; 1998–2001 Chair LMS Women in Mathematics Committee; 2003–2007 and 2013–2018, member LMS Women in Mathematics Committee; 2003–2005, 2008–2010, 2013–14 Member of LMS Nominating Committee; 2008–2013 LMS representative on BMC Scientific Committee; 2015–present Member of LMS Publications Committee; 2017–present LMS Vice President; 2017–present Member of LMS Education Committee; 2017–present Chair of LMS Personnel Committee; 2019–present Member of the LMS Newsletter Editorial Board.

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 2016–present. Principal fellow of the HEA. National Teaching Fellow 2019.

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 membership 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, including women in maths, publications and education committees. During my tenure as Vice President thus far I have taken on chairing Personnel Committee and become a member of the LMS Newsletter Editorial Board alongside my continuing membership of various other LMS Committees. I have represented the Society nationally and internationally. I am currently involved in implementing a review of LMS communications. I would be honoured to be able to continue to work for the Society as Vice President.

TREASURER

Simon Salamon, Professor of Geometry, King's College London

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DPhil: University of Oxford, 1980

Previous appointments: Visiting Assistant Professor, University of Maryland, 1979–81; Postdoctoral fellow, SNS Pisa, 1981–83; Member, IAS Princeton, 1983–84; Lecturer and Reader, University of Oxford, 1984–2001; Reader, Imperial College London, 2003–04; Professore ordinario, Politecnico di Torino, 2000–11.

Research interests: Differential geometry, Lie groups. Special holonomy, Einstein metrics, nilmanifolds. Applications to string theory and quantum information. Complex and quaternionic geometry, twistor spaces.

LMS service: Editorial Board of the LMS, 1995–98; Co-Managing Editor, Proceedings of the LMS, 1998–2000.

Additional information: Head of Department of Mathematics, King's College London, 2013–17. Co-Editor-in-Chief, EMS Surveys in Mathematical Sciences, 2014–17.

Personal statement: Managing LMS finances in the post-Covid era presents new challenges, in which special care will be needed to safeguard the Society's assets and balance the use of its funds with social and environmental responsibility. There will inevitably be a review of traditional funding and investment models. At the same time, there will be opportunities for enhancing recent LMS initiatives and taking new ones, for example in support of online activity. The area of communication is one that particularly interests me.

My experience as head of a large department will be of value for the post of Treasurer and to serve on Council. A top priority of the former job was to support staff at all levels. I understood pressures faced by both early-career researchers and more senior staff, and issues of equality and diversity were high on the agenda. I shall make a special effort to attract the interest of younger researchers carrying out mathematical work in the UK, and manage an effective network of departmental representatives. Thinking wider afield, my experience of working in Italy is likely to be of value in helping the LMS maintain and enhance its relationships with bodies throughout Europe.

GENERAL SECRETARY

Robb McDonald, Professor of Mathematics, University College London

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PhD: 1991 University of Western Australia

Previous appointments: 1991–93 Royal Society Endeavour Fellow, University of Oxford; 1993–94 Australian Research Council Research Fellow, Monash University; 1994–present Lecturer, Reader and Professor, UCL.

Research interests: fluid mechanics, vortex dynamics and applied complex analysis. Application of mathematics to geoscience.

Additional information: 2011-18 Head of Department of Mathematics UCL; Fellow of the IMA

Personal statement: Having benefited personally from LMS support through its research funding schemes and Good Practice workshops, and witnessed the positive impact of the society's activities (e.g. the undergraduate research bursary scheme), I am keen to help the society realise its ambitions. While HoD at UCL I enjoyed working with departmental and university colleagues, as well as those from other London and UK universities, in supporting mathematical science, and addressing the challenges of equality and diversity of our discipline. I hope these experiences will be useful in the LMS General Secretary role. This is an exciting time to be mathematician with the proposed new Academy of Mathematical Science, increased funding opportunities and the public and policy makers increasingly aware of the important role science and mathematics does and can play in society. If elected General Secretary, I look forward to working with LMS colleagues and the mathematical community in ensuring LMS is well-placed to create and take advantage of opportunities, and that it has a strong voice in education, research and promotion of all areas of mathematical science. Finally, partly owing to my UCL association, I am aware of the remarkable history of the LMS—a history deserving of recognition and celebration.

PUBLICATIONS SECRETARY

John Robert Hunton, Professor of Pure Mathematics and Deputy Head of Department, Durham University.

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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. Council member, member Finance and General Purposes Committee, 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 mathematical Learned Societies at the Burgess inquiry on RCUK Open Access policy 2014/15; representative of the mathematical Learned Societies at the UKRI Open Access policy review 2019/20; 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 19 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.

PROGRAMME SECRETARY

Chris Parker, Professor of Pure Mathematics, University of Birmingham.

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PhD: University of Manchester, 1988.

Research interests: Group theory, representation theory and related areas.

LMS service: Regional organizer Midlands Region (2006-2019), chair Early Career Research Committee 2017-, chair Research Meetings Committee 2016, Programme Secretary 2018-2020, Member of the LMS Covid Response working party.

Additional information: Editor in Chief of Journal of Group Theory. Organizer of Groups St Andrews in Birmingham 2017, organized numerous other workshops and conferences.

Personal statement: The breadth, health and vibrancy of the mathematical community in the UK is in no small part due to the backing provided by the LMS. Through my involvement with the Early Career Research Committee, I have witnessed the impact of the support offered to our undergraduate and postgraduate students, postdoctoral researchers and new lecturers. As a researcher, I have often benefited from LMS schemes for collaborative research and conferences. All these activities together form a portfolio of support which encourages the development mathematics and mathematicians across the country as well as promotes it internationally. If elected as Programme Secretary, I will be a strong advocate in support of these activities and will seek to advertise the support available as widely as possible. I will also emphasise the importance of continued and targeted support for Early Career Researchers in what is sure to be a difficult post-Covid environment. I will continue to speak in support of mathematics as a research activity that can be practised at a world class level in institutions across the country.

EDUCATION SECRETARY

Dr Kevin Houston, Senior Lecturer, University of Leeds.

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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: Education Secretary, involves chairing Education Committee, membership of LMS Council, Finances and General Purposes Committee, and the Joint Mathematical Council; Member of Education Committee 2012–present; Chair of Education subcommittee on Public Engagement 2012–2018 which involved being LMS representative on the Joint Promotion of Mathematics committee; LMS representative on 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, JMC, 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 an organiser of conferences 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 published a second book Complex Analysis: An Introduction. I am a presenter at the Induction Course for New Lecturers in the Mathematical Sciences, participating in 2018 and 2019.

From 2014–2018 I was 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.

I have been Education Secretary for three years and in the last two years, amongst other activities, have participated in ACME Contact Group for A Levels, have been involved in extending the LMS CPD grant scheme to HE institutions, negotiated increases to Education Committee grants budgets, introduced a training scheme for mathematics outreach, and created an LMS website for a website connected to the recent accessibility legislation.

Personal statement: I have a strong interest in teaching with 30 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.

The Covid-19 crisis has affected mathematics and mathematicians at all levels. My experience of deepening links with other learned societies has helped in the response to this. For example, at the start of the crisis, with others I produced a survey and helped disseminate good practice in take away open book assessment in mathematics. More significantly, I founded, along with representatives of the IMA and RSS, a highly successful project on Teaching and Learning Mathematics Online that has had more than 1000 participants.

We will face a diverse set of problems resulting from the pandemic, for example, national examinations and student recruitment. Furthermore, other problems have not gone away, eg, the effects of Brexit and mathematics teacher recruitment and retention. The LMS is a vital body in addressing all these problems and I believe I have a good track record in responding to them in a robust and practical manner.

I am keen to continue serving the LMS and its members as the Education Secretary.

LIBRARIAN (MEMBER-AT-LARGE)

Mark McCartney, Senior Lecturer in Mathematics, University of Ulster

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PhD: Queen's University, Belfast, 1993.

Previous appointments: Lecturer in Mathematics, University of Abertay (1994–98). Research Officer, University of Ulster (1998–99).

Research interests: Mathematical modelling, chaotic systems in discrete time. The history of applied mathematics and natural philosophy in Britain in the 19th and early 20th centuries.

LMS service: Librarian and member of Council at large. Member of the Editorial Board (Reviews Editor) of the LMS Newsletter (2017-2020).

Additional information: President of the British Society for the History of Mathematics (BSHM) (2018-2020), having served previously on the Council of the BSHM as both Publicity Officer and Education Officer. Associate Editor of the International Journal of Mathematical Education in Science and Technology.

Personal statement: I am in research an applied mathematician and historian, and in teaching someone who has taught a wide range of mathematics. This teaching has been to students who have been both mathematics 'specialists' and science and engineering undergraduates. I see mathematics as *the* natural language of science and as such it is a vital part of education and culture. It follows from this that I see the LMS as playing a key role in the promotion and support of mathematics within the UK and beyond.

MEMBERS-AT-LARGE OF COUNCIL

Peter Ashwin, Professor of Mathematics, University of Exeter

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PhD: University of Warwick 1991.

Previous appointments: 1991-92 Postdoctoral Researcher, University of Marburg (Germany); 1992-95 Postdoctoral Researcher, University of Warwick; 1995-96 Postdoctoral Researcher, INLN Nice (France); 1996-2000 Lecturer in Mathematics, University of Surrey

Research interests: My research interests are in dynamical systems theory and applications, including low dimensional systems, theory of attractors, bifurcation theory, coupled and nonautonomous systems, computational modelling and applications, mostly in life and environmental sciences.

LMS service: I have been a member of London Mathematical Society since 1991.

Additional information: I have been active in the UK mathematical community as part of the MAGIC Taught Course Centre, and have been serving as Director since 2016. I was co-founder of the UK Mathematics for Climate research network "CliMathNet", which has been promoting scientific interchange between climate science, mathematics and statistics since 2013. My research has been supported by a range of sources including EPSRC, BBSRC, Leverhulme and EU Horizon 2020. At the University of Exeter I have served in various administrative roles, including Head of Department (2010-2014).

Personal statement: I believe a lot of the strength of mathematics comes from the interaction of pure and applied branches. Although interactions occur quite slowly with some areas, for others (such as dynamical systems) rapid communication between theory, experiment and simulation has been possible and this has resulted in some remarkable new mathematics.

Through my experience at the Department of Mathematics at Exeter and through training and mentoring many PhDs and early career researchers, I have gained a good understanding of some of the challenges, opportunities and trade-offs that are facing departments and individual members of the LMS. One current challenge for UK mathematics is the process of political separation of the UK from the EU. I believe that the mathematical community of the UK has benefitted greatly from intellectual exchange with other EU member states (via exchanges of people, ideas and funding) during the period of EU membership. I am keen to ensure that these benefits remain with us in the longer term.

Elaine Crooks, Professor, Department of Mathematics, Swansea University

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PhD: University of Bath, 1996

Previous appointments: Lecturer/Associate Professor Swansea, 2007-2019; Darby Fellow, Lincoln College, Oxford, 2002-2007; Junior Research Fellow, Balliol College, Oxford, 1999-2002; EPSRC postdoc 1996-1999; short term postdoc positions in Lausanne, Paris, Rome.

Research interests: Nonlinear partial differential equations; singular limits of elliptic and parabolic systems; reaction-diffusion-convection systems and travelling waves; applications of PDE to biology; geometric methods for image processing.

LMS service: Editorial Advisory Board 2009-2018.

Additional information: EPSRC Peer Review College, from 2018; Participation in various panels for EPSRC, including as chair, and for UKRI Future Leaders Fellowships; Deputy Head of Department for Research and Engagement, from 2019; Co-director of Swansea Centre for Biomathematics, from 2016.

Personal statement: Having benefited from the LMS in many ways since my time as a PhD student, I would like to repay this, and contribute to the ongoing success of the LMS, by becoming a Member-at-Large of Council. I bring a perspective of someone who does research with the flavour of both pure and applied mathematics, and think that less distinction should be made between the two. I believe that research of the highest quality is, and should be, undertaken at institutions all over the UK, and LMS grants and research schools should continue to enable as many mathematicians as possible, including early career researchers, to grow and fulfil their potential as researchers and academics. I also feel that a crucial role needs to be played by learned societies such as the LMS in advocating the nature and needs of their discipline to funders and government.

Andrew Dancer, Professor of Mathematics, Oxford University

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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.

Anne-Christine Davis, Professor of Mathematical Physics 1967 (Emeritus) DAMTP, Centre for Mathematical Sciences, Cambridge University

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PhD: Bristol University, 1976

Previous appointments: 2002-2013 Professor of Theoretical Physics, DAMTP, Cambridge University; 1996-2002 Reader, Cambridge University; 1995-1996 Assistant Director of Research, Cambridge University; 1988 -1996 College Teaching Officer, Kings College, Cambridge University; 1983-1988 Research Council Advanced Fellow; 1982-1983 Member, Institute for Advanced Study, Princeton, USA; 1980-1982 Fellow, CERN, Geneva, Switzerland; 1978-1980 Postdoc, Imperial College; 1976-1987 Postdoc, Durham University
Other positions: 1996 CNRS Visiting Research Professor, Paris, France; 1989 Visiting Research Professor, Brown University, USA

Research Interests: I am a Mathematical Physicist interested in theoretical cosmology, modified gravity theories, General Relativity, Quantum Theory and in particular particle cosmology. In recent years my research has focussed on modified gravity theories which could point to deviations from Einstein gravity. I was heavily involved in the development of the Chameleon Mechanism of modified gravity and have shown ways such theories can be tested.

LMS service: 2014—Member LMS Women in Mathematics Committee; 2014—2018 Member LMS Good Practice Scheme Committee; 2018—Chair, LMS Good Practice Scheme Committee.

In my role as Chair of the GPS I have organised workshops for the Mathematical Community, both at De Morgan House and at ICMS. Over many years I have organised LMS Women in Mathematics Days and workshops in Mathematics for school children, including LMS workshops at the Isaac Newton Institute.

Additional information: I was on the 2014 REF Panel B10 (Mathematics). I have been on review panels to review mathematics and sciences departments for many Universities including Kings College, London, Leiden University and Utrecht University in recent years. I have served on Royal Society Fellowship committees. I was Cambridge University Gender Equality Champion. I was awarded the IoP Richard Glazebrook Gold Medal for Leadership in Physics. I co-founded the UK Cosmology workshops which have been running for about 30 years and UK cosmology is now a thriving community with around 70 attending our workshops.

Personal statement: I am strongly in favour of Equality and Diversity in Mathematics and society more generally, being on LMS committees and leading the Athena SWAN submission for Cambridge, both Mathematics and University. I was a supporter of the recent academic strike for Black Lives Matter. If elected to Council I would continue to work towards a more equal society.

At a time when Universities are under threat LMS can take the lead in showing the importance of mathematics and mathematical research. Mathematics is at the heart of all the exact sciences e.g. Gromov-Witten Invariants and string theory; Topology and defects in physics, material science and engineering. A thriving mathematics community is essential for the strength of all scientific research and the health of our Universities. As such we now need to stand as one and support all in mathematics and academia more widely. If elected to Council I would provide a bridge between pure mathematics and mathematical physics and would strive to unify the mathematical community. I am in an ideal position to do this; as well as being a member of LMS for many years I am a Fellow of the Institute of Physics.

Anthony (Tony) David Gardiner

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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 2015-19.

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 20 books of serious mathematics aimed at schools, teachers and undergraduates – most recently “The essence of mathematics through elementary problems”. 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 increases in A-level entries and undergraduate application numbers may be followed by a significant and immediate downturn (from negative reactions to the new GCSE and A level, 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.

Minhyong Kim, Christopher Zeeman Professor of Algebra, Geometry, and Public Understanding of Mathematics, University of Warwick; Distinguished Professor, Korea Institute for Advanced Study

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Ph.D.: Yale University (1990)

Previous Appointments: Massachusetts Institute of Technology, Columbia University, University of Arizona, Purdue University, University College London, Pohang University of Science and Technology, University of Oxford

Research Interests: Arithmetic Geometry, Topology, Mathematical Physics

LMS Service: Editorial Board of LMS publications (2013-14), Editorial Board of *Mathematika* (2008-17), LMS representative on ICMS Board (2014-19)

Additional Information: As general service to the profession, I have been an organiser for numerous workshops and conferences, including a 5 month programme at the Newton Institute (2009), a Durham Symposium (2011), an AMS Summer Institute (2015), the Asian-French Summer School on Algebraic Geometry and Number Theory (2006), and several years of the Arizona Winter School on Arithmetic Geometry. I have also been on the organising committee for the ICM 2014. I have been on the scientific committee of the Korean Mathematical Society (2011-2016) and the prize committee of the American Mathematical Society (2019-2021). I am a co-editor-in-chief (with I. Gallagher) for the Springer Monographs in Mathematics.

Personal Statement: I have substantial experience working in the mathematical communities of three continents, Asia, North America, and Europe. I am also on the editorial board of the *Tunisian Journal of Mathematics*, which is perhaps one of the premier scholarly outlets available in Africa. Mathematics among the other academic disciplines has always greatly benefitted from the coherence and openness of the global community, in which the UK plays a prominent role. I hope to bring to the council an international perspective and the ability to communicate easily with people from different regions of the world. I have substantial experience with mathematical outreach. In addition to quite a bit of direct engagement, I have written five books for the general public. 'The Moment You Need Mathematics' (2018) was on the list of top 20 bestsellers in Korea for eight weeks. My experience with public communication is something I hope might benefit the LMS. Finally, I have held professorships at 7 different universities, leading to a broad perspective of the strengths and weaknesses of different environments for research and teaching. I hope this kind of knowledge is useful to the diverse constituency that the LMS is expected to serve.

Niall MacKay, Professor of Mathematics and Head of Department, Department of Mathematics, University of York

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PhD: University of Durham, 1992

Previous appointments: 1992-93: JSPS fellow, RIMS, Kyoto University; 1993-95: PPARC Research Fellow and fellow of Queens' College, Cambridge; 1995-98: Stokes Fellow, Pembroke College, Cambridge; 1998-99: Lecturer, University of Sheffield; 2000-date: University of York: Lecturer (2000), Senior Lecturer (2005) Reader (2009), professor (2014); Head of Department since 2015.

Research interests: Integrable systems and quantum groups; operations research and history.

LMS service: LMS Education Committee 2004-09 and 2011-14; Editorial Adviser 2005-14

Additional Information: Member of QAA MSOR benchmark statement review group 2005-08, Advisory Committee on Mathematics Education (ACME) 2011-14, MEI "Critical Mathematics" advisory group 2013-15, IoP Curriculum Committee 2013-15, and various other committees and working groups for the ILTHE, HEA, QCDA etc. Member of EPSRC Peer Review College 2003-10. External examiner, Mathematical Tripos, University of Cambridge 2014-17. Currently Chair of Correspondents for the INI and ICMS (2019-date).

Personal Statement: I became Head of Department at York in 2015, when I ceased most of my external commitments. I step down as HoD in 2021, and would love to renew my involvement with the LMS, with whom I enjoyed a long spell on the Education Committee culminating in my term on ACME, and a similar term as Editorial Adviser for Mathematical Physics. I hope to spend a year on Council shadowing the Publications Secretary, and to stand for this role when John Hunton steps down in 2021.

Frank Neumann, Associate Professor in Pure Mathematics, School of Mathematics and Actuarial Science, University of Leicester

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PhD: Georg-August-Universität Göttingen, Göttingen, Germany (1996)

Previous appointments: 1996-2000 Research Assistant (CI), Georg-August-Universität Göttingen; 2000-2002 Postdoctoral Research Fellow, (Marie Curie Programme), CRM Barcelona; 2002- Lecturer/Senior Lecturer/Associate Professor, University of Leicester

Research interests: Algebraic Topology, Algebraic Geometry and its interactions. Recently, especially homotopy theory and cohomology of algebraic stacks.

LMS service: Chair, board member and mentor of the LMS MARM (Mentoring African Research in Mathematics) initiative, LMS representative for the University of Leicester, Local organiser for the LMS funded joint research groups TTT (Transpennine Topology Triangle Sheffield-Leicester-Liverpool-Manchester) and EMSG (East Midlands Seminar on Geometry Nottingham-Loughborough-Leicester-Sheffield), Co-Organiser of LMS Midlands Regional Meeting 2006 & 2018, Co-organiser of LMS-CMI Research School on Homotopy Theory and Arithmetic Geometry 2018

Additional information: Member of the EMS Committee for European Solidarity (2013-2018); Correspondent for the Isaac Newton Institute Cambridge; Co-organiser of British Topology Meeting BTM 2002 & 2009 & 2017; Co-organiser of workshop on 'Number Theory and Algebraic Geometry' at the British Mathematics Colloquium BMC 2011; Scientific Organiser of CRM research programme 'Homotopy Theory and Higher Categories', CRM, Barcelona 2009, Co-organiser of XVI Spanish Topology Meeting Almeria 2009, Member of the scientific organisation committee for the 'International Mediterranean Congress of Mathematics (CIMMA 2005)', Almeria, 2005

Personal statement: I am the chair of the MARM board of the LMS and since several years engaged with supporting and mentoring research activities in the developing world and in particular Sub-Saharan Africa. The great success of the MARM initiative of the LMS has proved that even small resources and the engagement with small research groups can make a real difference. I do believe these initiatives are extremely important for the global involvement of the LMS and I would like to bring into Council my ideas and experiences concerning these initiatives. It is also important for me to support the LMS in its general international activities and in particular with partner societies in Europe. In these uncertain times, I think it is crucial that the LMS strengthens its international engagement and I would like to support this strongly through Council. For several years I was a member of the EMS Committee for European Solidarity which supports mathematician from less developed regions in Europe to be able to attend or organise conferences or pursue research projects and I saw how important international solidarity for mathematicians is. I believe my experiences here would be very useful for the work of Council. I also strongly believe that the regional engagement of the LMS in the UK regions is very important. I have many experiences as a local organiser of several LMS Regional Meetings, involvement with joint research groups and as an LMS representative and I would be happy to assist Council in supporting and strengthening the regional engagement of the LMS. Finally, being responsible for outreach with schools and the public at Leicester and based on my experiences I would be happy to assist Council with strategies on outreach and public engagement.

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

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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: In November 2017 I was elected to Council as Member-at-Large, and have been the Council Diarist since then. I am now attending the Society Lectures and Meetings Committee for which I am the designated Chair to start in November 2019. I have (co)-organised several LMS-funded meetings: an LMS/EPSC summer school on homological algebra, and LMS regional meeting and workshop, and a LMS Durham Symposium, and I am currently part of the LMS 3 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.

Anne Taormina, Professor in the Department of Mathematical Sciences at Durham University

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PhD: University of Mons-Hainaut, Belgium, 1984

Previous appointments: 1984–86: Chargé de Recherches, Fonds National de la Recherche Scientifique (FNRS), University of Mons-Hainaut, Belgium; 1986–87: Chercheur Associé, Centre National de Recherche Scientifique (CNRS), Ecole Normale Supérieure, Paris, France; 1987–89: CERN Fellow, Theory Division, Geneva, Switzerland; 1989–91: Enrico Fermi Fellow, University of Chicago, USA; 1991–96: SERC Advanced Fellow, Department of Mathematical Sciences, Durham University, UK; 1996–97: Temporary Lecturer, Department of Mathematical Sciences, Durham University, UK; 1997–00: Leverhulme Fellow, Department of Mathematical Sciences, Durham University, UK; 2000–04: Lecturer, Department of Mathematical Sciences, Durham University, UK; 2004–06 : Reader, Department of Mathematical Sciences, Durham University, UK; 2006–present: Professor of Mathematics, Department of Mathematical Sciences, Durham University, UK; EPSRC Springboard Fellowship (Oct 2006–Sept 2007); Leverhulme Research Fellowship (Jan 2013–Dec 2013); Head of Department (Jan 2014–Dec 2018).

Research interests: Conformal Field Theory and String Theory. I use group theory, algebraic geometry and number theory in my research, which is mainly at the interface with theoretical particle physics. My most recent research interest is to understand the implications of newly observed Moonshine phenomena in the context of string theory and conformal field theory.

LMS service: member since 1999; Member of the LMS Women in Mathematics committee and of the LMS Good Practice Scheme committee since 2015.

Personal statement: As a member of Council seeking reappointment, I will use my experience as Head of the Mathematical Sciences Department at Durham for five years and as a member of the LMS Women in Mathematics committee since 2015 to continue to tackle the factors influencing the course of a career in Mathematics, especially for young women nowadays. For example, I will continue to explore possibilities for the LMS to be involved in initiatives targeting youngsters preparing for their GCSE exams, especially those from more challenging backgrounds and minorities. In particular, I will continue to promote the fun aspects of mathematics and help design activities to boost girls' confidence in their mathematical abilities. Although I believe that profound changes must happen already at primary school stage, a targeted effort at GCSE level to interest a higher proportion of talented girls in mathematics and its applications will help achieve a healthy gender balance and genuine diversity in mathematical studies at A-level and higher/further education. I am particularly keen that excellence in mathematics be recognised, whatever the gender of the researcher. Generally, I am interested in furthering the cause of any mathematician who has an innovative idea in mathematical education and needs support.

Amanda Turner, Senior Lecturer, Lancaster University

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PhD: University of Cambridge, 2007

Previous appointments: College Teaching Fellow, Selwyn College, University of Cambridge (2006-2007); Visiting Professor, University of Geneva (2018-2020).

Research interests: Probability, complex analysis and mathematical physics, with a specific interest in random growth models.

LMS service: Member of the Research Grants Committee since 2017 and the Publications Committee since 2018; Editorial Advisor for the LMS journals since 2016.

Additional information: Founding member of the Applied Probability Section of the Royal Statistical Society (RSS), Vice Chair (2012-2014) and Chair (2014-2016). Member of Nominations Committee of the Institute of Mathematical Statistics (IMS) since 2018.

Personal statement: The current COVID crisis is imposing profound changes on the mathematical community, with teaching, collaboration and dissemination all moving online. However, these changes also present opportunities for our community to become more diverse and to carry out our activities in a more sustainable way. As a member of Council, I would push for the LMS to capitalise on these opportunities. As a centre of the mathematics community within the UK, the LMS is a natural body within which to share good practice and resources relating to online teaching and assessment, conference and seminar organisation, and to address the challenges faced by PhD students, early career researchers and minority groups. In my roles on the LMS Research and Publications committees, I have worked hard to ensure that the LMS resources are deployed in a way which most benefits our community. However, I believe more can be done to engage directly with minority groups and early-career mathematicians to find out their opinions and how they can be best served by the LMS. Often when the community is surveyed, the main respondents are senior mathematicians. As a member of Council, I would ensure that all groups were consulted and listened to.