

LMS ELECTIONS TO COUNCIL AND NOMINATING COMMITTEE 2022: CANDIDATE BIOGRAPHIES

Candidate for election as President (1 vacancy)

Jens Marklof

Candidates for election as Vice-President (2 vacancies)

Iain Gordon

Catherine Hobbs

Candidate for election as Treasurer (1 vacancy)

Simon Salamon

Candidate for election as General Secretary (1 vacancy)

Robb McDonald

Candidate for election as Publications Secretary (1 vacancy)

Niall MacKay*

Candidate for election as Programme Secretary (1 vacancy)

Chris Parker

Candidates for election as Education Secretary (1 vacancy)

Kevin Houston

Candidates for election as Member-at-Large of Council (5 x 2-year terms and 1 x 1-year term)

Peter Ashwin

Rachel N Bearon

Anne-Christine Davis

Jonathan Dawes

Tamara Grava

Minhyong Kim

Jason D Lotay

Anne Taormina

Amanda Turner

Sarah Whitehouse

Candidates for election to Nominating Committee (2 x 3-year terms vacant)

Laura Ciobanu

Diane Maclagan

Alastair Rucklidge

Helen Wilson

CANDIDATE FOR ELECTION AS PRESIDENT (1 VACANCY)

Jens Marklof FRS, Professor of Mathematical Physics, School of Mathematics, University of Bristol, and Dean of the Faculty of Science, University of Bristol (until 31 July 2023)

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PhD: University of Ulm, 1997

Previous appointments: Consultant, BRIMS, Hewlett-Packard Laboratories, Bristol 1997; EPSRC Senior Visiting Fellow, Isaac Newton Institute, Cambridge 1997; Fellow of the European Post-Doctoral Institute for the Mathematical Sciences and Marie Curie Fellow, IHES and LPTMS Orsay 1997-99; Lecturer/Reader/Professor, University of Bristol, since 1999; EPSRC Advanced Research Fellow 2001-06; Head of the School of Mathematics, University of Bristol 2016-18; Dean of the Faculty of Science, University of Bristol 2018-23.

Research interests: Dynamical systems and ergodic theory, quantum chaos, automorphic forms.

LMS service: Meetings Committee 2002-07; Regional Organiser for the South-West and South Wales 2004-07; Prizes Committee since 2022.

Additional information: LMS Whitehead Prize recipient 2010.

CANDIDATES FOR ELECTION AS VICE-PRESIDENTS (2 VACANCIES)

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 2014-2022; Vice-Principal and Head of College of Science and Engineering, University of Edinburgh 2022-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 2006-2022; Member of EPSRC Mathematics Programme SAT 2011-2014; Member of REF2014 Mathematical Sciences subpanel; Member of INI Steering Committee 2016-2019

Personal statement: I previously 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 always try to act on this: helping coordinate the LMS responses to covid-19 and the Russian invasion of Ukraine, supporting Early Career Researchers and those who faced increased pressures during the pandemic; participating in discussions around major issues including Additional Funding for Mathematical Sciences; and starting discussions within LMS on environmental sustainability. I do this as an advocate for the community coming together, in its diversity.

Catherine Hobbs, Academic Dean, Faculty of Engineering, Environment and Computing, Coventry University.

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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, 2018–2022 Associate Dean Research and Enterprise, Faculty of Environment and Technology, 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 2016–2022. Principal fellow of the HEA. National Teaching Fellow 2019.

Personal statement: I have had a long association with the LMS and have 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 25 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 the role of overseeing LMS Communications as part of my portfolio. I have represented the Society nationally and internationally. I would be honoured to be able to continue to work for the Society as Vice President.

CANDIDATE FOR ELECTION AS TREASURER (1 VACANCY)

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; Postdoc, SNS Pisa; Member, IAS Princeton; Lecturer and Reader, University of Oxford, 1984–01; Reader, Imperial College 2004–05; Professore ordinario, Politecnico di Torino, 2000–11.

Research interests: Differential geometry, complex and quaternionic structures, twistor theory, Einstein metrics, special holonomy, Lie groups and topology.

LMS service: Editorial Board, 1995–98; Co-Managing Editor, PLMS, 1998–00; Treasurer 2020–22.

Additional information: Head of Department, KCL, 2013–17. Co-Editor-in-Chief, EMS Surveys in Mathematical Sciences, 2014–17.

Personal statement: There will be a lot of pressure on the Society's budgets in the current economic climate, with increasing costs on top of falling publication income and market volatility. On the positive side, there is likely to be a surge in demand for LMS support, following a protracted period of lower activity, and I would be keen to exploit opportunities to use funds responsibly.

CANDIDATE FOR ELECTION AS GENERAL SECRETARY (1 VACANCY)

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.

LMS service: General Secretary from November 2020

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.

CANDIDATE FOR ELECTION AS PUBLICATIONS SECRETARY (1 VACANCY)

Niall MacKay, Professor of Mathematics, 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 2015-2021.

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; Council Member-at-Large from November 2020; Publications Committee and Personnel Committee from February 2021; LMS Newsletter Editorial Board from April 2021.

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. Editorial Board member, *Teaching Mathematics and its Applications*, 2014-2021. Currently Chair of Correspondents for the INI and ICMS (2019-date).

Personal Statement: I stepped down as Head of Department at York in 2021, and am now enjoying my renewed involvement with the LMS. Publications Secretary is a difficult job, both strategically and operationally, during an era of great change in academic publishing. As we navigate the transition to Open Access, I hope to preserve our income as far as possible, so that it can continue to be used to support the mathematics community, and to preserve and enhance the quality and standing of the

LMS journals within world mathematics and thereby their value to UK mathematicians, both as authors and as readers. These two goals are in an ever-shifting state of tension.

CANDIDATE FOR ELECTION AS PROGRAMME SECRETARY (1 VACANCY)

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-, Member Publications Committee, Member of the LMS Covid Response working party, and Ukraine 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 and support added by the LMS. Through my leadership of 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. The activities of the Early Career Committee encourage the development of mathematicians nationwide. If re-elected as Programme Secretary, I will continue to 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 support for Early Career Researchers in the difficult post-Covid environment. Feedback from our new “[Early Career Researcher Professional Development](#)” series demonstrates that PhD students and postdoctoral researchers are eager to take advantage of advice and networking opportunities. Providing support for this kind of career development will be one of my priorities this coming year and is something that the LMS is well-placed to provide. I will also 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.

CANDIDATE FOR ELECTION AS EDUCATION SECRETARY (1 VACANCY)

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, the LMS and Gresham Lecture and working with other bodies such as IMA, Gresham College, RSS, JMC (of which I am a trustee), 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 regular presenter at the Induction Course for New Lecturers in the Mathematical Sciences. 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 five years and in the last three 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, introduced a training scheme for mathematics outreach, and created an LMS website for helping mathematicians with recent accessibility legislation.

Personal statement: I have a strong interest in teaching with over 30 years' experience of teaching in HE institutions and an institutional 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 our response. For example, 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 (TALMO) with more than 1200 participants.

We face a diverse set of problems resulting from the pandemic, for example, national examinations and in particular the lack, over the last decade, of an increase in student recruitment in HE. Furthermore, other problems have not gone away, e.g., the consequences of Brexit and mathematics teacher recruitment and retention. The LMS is vital in addressing these 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.

CANDIDATES FOR ELECTION AS MEMBER-AT-LARGE OF COUNCIL (5 X 2-YEAR TERMS AND 1 X 1-YEAR TERM)

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: Member of London Mathematical Society since 1991, member of LMS Council 2020-2022.

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 academic management roles, including, at various times, Head of Department and Director of Education. I am currently the Director of Research and Impact.

Personal statement: I believe a lot of the strength of mathematics comes from the interaction of pure and applied branches. Although interactions may occur quite slowly in some areas, for others (such as dynamical systems) rapid communication between theory, experiment and simulation has resulted in some remarkable new mathematics. Through my experience in the Department of Mathematics at Exeter and through mentoring many PhDs and early career researchers, I have gained a good understanding of many of the challenges, opportunities and trade-offs that are facing

departments and individual members of the LMS. Throughout its existence, the LMS has helped ensure that the mathematical community of the UK benefits from intellectual exchange at the highest international level (via exchanges of people, ideas and funding). I am keen for the LMS to work to ensure that these benefits remain with us over the longer term. On the one hand, we need to benefit from traditional modes for sharing mathematics. On the other hand, we can benefit from many recent developments in the technology of how sharing mathematics can take place.

Rachel N Bearon, Professor of Mathematical Biology and Head of the Department of Mathematical Sciences, University of Liverpool

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PhD: The University of Cambridge 2001

Research Interests: I apply and develop mathematics to study the spatial and temporal dynamics of a wide range of biological systems across multiple scales, ranging from bacterial chemotaxis, cancer cell motility and phytoplankton in turbulence, to modelling cell-signalling pathways, intracellular protein dynamics and drug transport.

Additional Information: Elected member of IMA Council 2017- 2023; President of the Maths Section of the British Science Association, 2022; Trustee of the University of Liverpool Maths School, 2021-present; EPSRC college member 2016-present; Associate Editor, Royal Society Open Science 2021-present.

Personal statement I am delighted to be nominated to stand for LMS Council, with its mission to advance, disseminate & promote mathematical knowledge. Its mission directly aligns with my purpose as an academic – to undertake and support research, and to enthuse and educate others. As head of a large & varied department, I advocate for a wide range of research, from theoretical physics, through traditional pure & applied maths, to applications in finance & medicine. I am also passionate about developing an empowering culture built upon equality, diversity & inclusion. I have a strong track record of securing external research funding, which combined with my experience of serving on EPSRC panels, enables me to provide leadership in this area. On the education side, I was head of teaching in my department during a time when we established the Maths Centre for Enhancement in Education and underwent a deep curriculum review. I am also a passionate ambassador of mathematics, keen to explain the importance of mathematics to a wide audience, from school children to university senior leaders; from clinicians to musicians.

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: 2013—2018 Chair of Mathematical Physics 1967, 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, at ICMS and via zoom. 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. One of my papers won a Buchalter Cosmology Prize. 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, being on LMS committees, leading the Athena SWAN submission for Cambridge University. I am a supporter of Black Lives Matter, have supported climate change initiatives for years and host a Ukrainian refugee. If elected to Council I would continue to work towards a more equal society and help LMS in their role fighting climate change.

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 a member of LMS for many years and Fellow of the Institute of Physics.

Jonathan Dawes, Professor of Applied Mathematics, University of Bath

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Ph.D.: University of Cambridge 2001

Research Interests: Applied dynamical systems, mathematical biology.

LMS Service: LMS Member since 2001. Reviewer for the LMS Undergraduate Research Bursaries Scheme since 2008. Lead organiser for the LMS South West & South Wales Regional Meeting, 19-21 December 2016.

Additional Information: Member of EPSRC's Strategic Advisory Network 2021-24; Chair of EPSRC's Strategic Advisory Team (SAT) for the Mathematical Sciences 2020-21 and a SAT member 2018-19; Co-founder of Bath's Institute for Mathematical Innovation (IMI), and Director of IMI 2015-2020; Royal Society University Research Fellow 2007-2015; Editor, SIAM Journal on Applied Mathematics since 2021, and Editor, Physica D: Nonlinear Phenomena 2011-21; Chair of the 2019 British Applied Mathematics Colloquium; Fellow of the Institute of Mathematics and its Applications 2019. Current research funding from EPSRC and BBSRC.

Personal Statement: The LMS owes much of its continuing success to its people, journals, and highly effective financial support for UK mathematical activities. I have seen directly the effectiveness of LMS activities from the support of Joint Research Groups (from which I benefitted for many years early in my career) to the more recent Emmy Noether Fellowship Grants, and I strongly support these and the many similar strands of the LMS's work.

I have served for the last nine years as a trustee for the Bath Royal Literary and Scientific Institution (charity number 304477, www.brlsi.org) and through that have gained significant experience in charity governance and finance which I hope might prove useful in this role.

In the current moment there are great opportunities for LMS to shape the conversation around a National Academy, to expand its support for early career researchers, and to engage yet further with the government's policy agenda. If elected, I would be delighted to try to contribute to these activities and in doing so to ensure that the views of the LMS are communicated in a clear and timely fashion.

Tamara Grava, Professor and Co-Director of the Institute of Mathematical Physics, University of Bristol

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PhD: SISSA, Trieste, Italy 1998

Research Interests: integrable systems with applications to nonlinear waves, random matrices, statistical mechanics and special functions.

Previous appointments: 2002-2006 researcher at SISSA, 2006- associate professor at SISSA. 2013-2019 Senior lecturer, University of Bristol.

Additional Information: I have managed two European research networks and I have co-organized several conferences, schools and workshops in France (CIRM as a Chair Morlet), Italy (SISSA and ICTP), UK (University of Bristol) and US (MSRI and SIAM event) including events promoting women in science.

I am a member of the editorial board of Nonlinearity, 2012-, Siam Journal of mathematical analysis, 2022-, Random matrices, Theory and Application, 2012-, Physica D, 2019-2021.

Personal statement: the LMS plays a key role in promoting the importance of mathematics to the society, especially to the young generations, in the communications with the research councils and the government. Further, the LMS is a reference point to the mathematical community in the UK and abroad. I would be honored to give my contribution to some of the various LMS roles via my experience in research coordination and in promoting the equality and diversity agenda.

Minhyong Kim, Director of the International Centre for Mathematical Sciences; Whittaker Professor of Mathematical Sciences, Maxwell Institute; 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, Ewha Womans University, University of Oxford

Research Interests: Arithmetic Geometry, Topology, Mathematical Physics

LMS Service: Member-at-Large of Council (2020-22), Michael Atiyah Fellowship Committee (2021-), 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 Katrin Wendland) for the Springer Monographs in Mathematics. I am on the Scientific Steering Committee of the Isaac Newton Institute and a member of the External Advisory Board of the Bath Institute for Mathematical Innovation.

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 six 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 9 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.

Jason D Lotay, Professor of Pure Mathematics and Fellow at Balliol College, University of Oxford

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PhD: University of Oxford 2006.

Previous appointments: 2005-07/08-09 Junior Research Fellow in Science, University College, Oxford; 2007-08 NSF Mathematical Sciences Postdoctoral Research Fellow (held at MSRI, Berkeley, USA); 2009-14 EPSRC Career Acceleration Fellow (2009-11 held at Imperial College, London; 2011-14 held at UCL); 2011-18 Lecturer, Reader/Professor, UCL.

Research Interests: Special geometries, particularly related to special holonomy, minimal submanifolds, gauge theory, geometric flows and theoretical physics, mainly via differential geometry and geometric analysis techniques.

LMS service: I was the LMS Representative for UCL from 2012 to 2018. I was a speaker at the LMS Popular Lectures in 2017. I co-organized an LMS-CMI Research School in 2014.

Additional Information: Member of EPSRC Mathematical Sciences Strategic Advisory Team since 2021. Member of EPSRC Peer Review College since 2009 and twice received thanks for significant contribution (2020 & 2021). Awarded 6 LMS Scheme 1 and 3 grants as PI to co-organize workshops and research groups, including Brussels-London Geometry seminar. Devised policy briefing “Maths Matters” with Head of Public Policy at UCL and presented briefing to Head of Research Funding at Department for Business, Innovation and Skills and their team at a meeting which I co-organised in 2014. Took part in the Royal Society Pairing Scheme 2015: a very selective scheme providing an opportunity for researchers to spend a week in Westminster paired with an MP or civil servant, allowing insight into the workings of parliament. Written feature article on research for Physics World (2017), article on research for El País (2018), and contributed to Daily Mail and Telegraph articles on social distancing (2020). Twice interviewed on radio about research and public engagement: BBC Science Café and BBC Radio 4 Word of Mouth. Co-organized and delivered Art and Maths workshops for general public and teachers (2013-2017) with artist Lilah Fowler. Supervised several undergraduate summer research project students funded by LMS and EPSRC.

Personal statement: I am passionate about public engagement and outreach, as well as engaging with research funders and policy makers. My aim is always to truly communicate the excitement and importance of mathematics at all levels from elementary school mathematics to current research. I am dedicated to promoting all areas of mathematics, with a particular emphasis on pure mathematics, which I feel requires additional support given the current focus on practical applications and economic impact. I therefore believe that, with these qualities and my experience in communication and engagement, I can make an important contribution to the valuable work the LMS does for mathematics in the UK.

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, 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 (2014-2020); Member at large of Council since 2019; Member of Personnel Committee since 2021.

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 2014 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, Professor, University of Leeds

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PhD: University of Cambridge, 2007

Previous appointments: Lecturer and then Senior Lecturer, Lancaster University (2007-2022); Visiting Professor, University of Geneva (2018-2020); College Teaching Fellow, Selwyn College, University of Cambridge (2006-2007).

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

LMS service: Member of Council since 2020, Research Grants Committee since 2017 and Publications Committee since 2018; Editorial Adviser 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) (2018-2022).

Personal statement: My first term as a Council member coincided with the Covid crisis, which imposed profound changes on the mathematical community. I see the LMS as a centre of the mathematical community within the UK, and as a natural body within which to share good practice and resources, and to address the challenges faced by PhD students, early career researchers and minority groups. I therefore used my position over the last two years to push for changes which support the community in becoming more diverse and sustainable. As a member of Council, the LMS Covid Working Group, the Research Grants Committee and the Publications Committee, I have worked hard to ensure that the LMS resources are deployed in a way which benefits all members of the community. However, I believe that still 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. As a member of Council, I will continue to ensure that groups across all career stages and all branches of mathematics are consulted and listened to as we face new challenges and opportunities.

Sarah Whitehouse, Professor of Pure Mathematics, University of Sheffield

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PhD: University of Warwick 1994

Research Interests: Algebraic Topology, Homotopical Algebra

Previous appointments: 1994-1996 Lecturer (fixed term), University of Warwick; 1996-1998 Marie-Curie Postdoctoral Researcher, Université Paris 13; 1998-2002 Maître de Conférences (Lecturer), Université d'Artois; 2002-2014 Lecturer/Senior Lecturer/Reader, University of Sheffield

LMS service: Research Meetings Committee 2015-2017, Early Career Research Committee 2017-2021

Additional Information: Co-organiser since 2010 of the Transpennine Topology Triangle, one of the longest-running LMS scheme 3 networks; longstanding commitment to Women in Topology, as a team leader, co-organiser and member of the steering group; commitment to supporting early career stages, including involvement in LMS Prospects in Mathematics, Young Researchers in Mathematics and LMS Undergraduate Summer Schools.

Personal statement: Over the last few exceptionally challenging years, it has been heartening to see the excellent work of the LMS in many areas, including its pandemic response, its support for early career stages and for under-represented groups and its work in supporting mathematicians seeking refuge in the UK. I view service work for the LMS as a key way in which I can make an effective and positive contribution to the mathematical community.

The LMS has a crucial role in representing mathematics, explaining its importance in addressing huge challenges such as climate change, and making the case for a broad base of mathematical research, including foundational aspects whose potential applications may not emerge for decades.

I would bring experience of research coordination, commitment to supporting early career stages and women in mathematics, as well as a willingness to engage with the problems facing the mathematical community and the HE sector in the UK. Experience as deputy head of my department over the last four years has led to insight into some of the challenges faced by colleagues at all career stages and with a wide variety of personal circumstances.

CANDIDATES FOR ELECTION TO NOMINATING COMMITTEE (2 X 3-YEAR TERMS VACANT)

Laura Ciobanu, Professor, Heriot-Watt University, Edinburgh

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PhD: Rutgers University, USA, 2005

Previous appointments : Marie Curie Fellow, CRM Barcelona (2005-2007), Postdoctoral Fellow, University of Auckland, New Zealand (2005-2006), Lecturer, University of Fribourg, Switzerland (2007-2012), Swiss National Science Foundation Professor, University of Neuchâtel, Switzerland (2012-2016), Assistant and Associate Professor Heriot-Watt (2016-2021)

Research interests: Computational, combinatorial and geometric group theory, discrete mathematics, theoretical computer science; General theme: the connections between algebra and computation.

Additional information: *Co-director* of the Maxwell Institute, the centre of mathematics consisting of the School of Mathematics at the University of Edinburgh and the Departments of Mathematics and Actuarial Mathematics and Statistics at Heriot-Watt University.

Co-lead of the LMS Scheme 3 network NBGGT (North British Geometric Group Theory).

Editor: Proceedings of the Edinburgh Mathematics Society & Journal of Groups, Complexity, Cryptology.

Personal statement: I moved to the UK and became member of the LMS in 2016, after having studied and worked in several countries (Romania, USA, Spain, New Zealand, Switzerland). I look forward to playing a more active role in the LMS, such an impactful organisation for UK mathematics and beyond. The LMS has supported my research, travel, collaborators and PhD students, and I would love to give back to the very welcoming community I've gotten to know during the last 6 years.

I am anchored in the Scottish mathematical landscape through my role as co-director of the Maxwell Institute, which consists of over 180 mathematicians based in Edinburgh, as well as through my interactions with the ICMS, where I've organised many small and large events. Additionally, I have a

wide international network of collaborators and first-hand experience with mathematics departments and learned societies from around the world. My involvement with diverse local and global communities of mathematicians and theoretical computer scientists, as well as my goal to support junior scientists on the very challenging path to academia and research, will guide my activity in the Nominating Committee.

Diane Maclagan, Professor of Mathematics, University of Warwick

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PhD: UC Berkeley 2000

Previous appointments: Institute for Advanced Study 2000-2001; Szegő Assistant Professor, Stanford University 2001-2004; Assistant Professor, Rutgers University 2004-2007 (tenured 2007); Associate Professor, Reader, University of Warwick.

Research Interests: Combinatorial and computational algebraic geometry. Tropical geometry.

LMS service: Council 2015-2017, Programme Committee 2016-17, Research Grants Committee 2017-18, Early Career Research Committee 2017-21, Women and Diversity in Mathematics Committee 2016-2021.

Additional Information: Convenor of the European Women in Mathematics association 2022-24.

Personal statement: I have been involved with the LMS since 2015, having served on Council and multiple committees. I thus have a good idea of the strengths of the LMS as an institution, and also of its blindspots. If elected to the Nominating Committee I will seek to nominate people who would uphold the strengths, and mitigate the weaknesses.

I am committed to improving the diversity of the UK mathematics community, and making it more inclusive. I will make it a priority to ensure that the nominating slates are diverse in all senses.

Alastair Rucklidge, Professor of Applied Mathematics, University of Leeds

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PhD: University of Cambridge, 1992

Research interests: Regular patterns are ubiquitous in nature, and their formation and stability is governed by the intricate interactions of symmetry, dynamics and nonlinearity. My research aims to understand how the nonlinear interaction of waves in different directions leads to the formation of (for example) quasipatterns in Faraday waves and quasicrystals in soft matter, and of spatio-temporal chaos in reaction-diffusion systems. I am interested in spirals, found for example in models of cyclic competition (Rock-Paper-Scissors), and their stability. My work ranges from quantitative explanations of fluid dynamics experiments, through developing new models for understanding mode interactions and localised patterns, to new ideas on heteroclinic bifurcations and networks.

LMS service: None to date.

Additional information: Before moving to Leeds in 2000, I held a research fellowship at Peterhouse, Cambridge, the Sir Norman Lockyer Fellowship of the Royal Astronomical Society and an EPSRC Advanced Research Fellowship in Mathematics. I have been a member of the LMS since 2001, and I co-organised the Scheme Three PANDA (Patterns, Nonlinear Dynamics and Applications) network for about ten years from that date. In 2005, I co-directed a 5-month programme on 'Pattern Formation in Large Domains' at the Isaac Newton Institute, and I held a Leverhulme Research Fellowship in 2018-19 on 'Complex and disordered patterns'. I joined the EPSRC-funded MAGIC taught course centre Steering, Programme and Management Committees from their inception until 2014. I served on the EPSRC Mathematics Strategic Advisory Team from 2006-10, and as Head of the School of Mathematics in Leeds from 2013-18. I was a Trustee of the UK Mathematics Trust from 2012-22, and Chair of the UKMT Nominations and Remuneration Committee from 2019.

Personal statement: I have great respect for the LMS and the work that the Society does representing mathematics and mathematicians in the UK, and for the way that the LMS has championed diversity and inclusion in mathematics. If elected to the LMS Nominating Committee, I would actively promote the key role that the Nominating Committee has in supporting the diversity of the LMS Council and Committees. While I have not served the LMS before, I do have experience

with other national roles within the UK mathematics community, and I am keen to serve the LMS and the community through joining the Nominating Committee.

Helen Wilson, Professor of Applied Mathematics, University College London

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PhD: University of Cambridge, 1998

Research interests: Mechanics of complex fluids, in particular viscoelastic fluids and suspensions, instabilities in these fluids, and the creation of constitutive models.

LMS service: Member since 2004; co-organised IMA-LMS Meetings on “The Dynamics of Planet Earth” (2019) and “Topological Methods in Data Science” (2020); member of award committee for the IMA-LMS David Crighton Medal (2017).

Additional information: Chair of Scientific Steering Committee, Isaac Newton Institute; Chair of Nominating Committee, ICMS; Head of Department of Mathematics, UCL. Previously Vice-President (Learned Society) of IMA (2019-20); President of British Society of Rheology (2015-17); Member of A-Level Content Advisory Board for Mathematics (2014).

Personal statement: The role of Nominating Committee is to ensure that a good set of candidates is proposed for each vacancy. In my view, this means sensible, principled people who care about the Mathematics community and want to ensure we engage constructively with the outside world. It also means a diversity of experience, of viewpoints, and of career stage.

As an applied mathematician who regularly works with physicists and engineers, I have a network of contacts which is slightly different to most LMS members; in addition, through my work at the Isaac Newton Institute, ICMS and as Head of Department, I am well linked across the breadth of the mathematical spectrum. My eyes are fully open to the lack of representation of those who have historically been excluded (which goes far beyond gender), having co-chaired my department’s Equality, Diversity and Inclusion committee for four years. I believe I am well placed to serve Nominating Committee by suggesting new names, to keep the LMS working to its best capacity.