

Joint Mathematical Council of the United Kingdom

Annual Report for 2016 and Final Report for 2017

This is the annual report of the unincorporated Joint Mathematical Council of the United Kingdom for the calendar year 2016 and the final report for the period from 1 January 2017 until the dissolution of the unincorporated JMC on 17 August 2017. The dissolution followed the transfer of the activities and assets of the unincorporated JMC to The Joint Mathematical Council of the United Kingdom which was incorporated as a Charitable Incorporated Organisation (Registered Charity Number 1171223) by the Charity Commission for England and Wales on 20 January 2017.

Membership in 2016 and 2017

Those asterisked were members of the Executive Committee.

Officers	
Chair	Paul Glaister*
Honorary Secretary	Peter Thomas*
Honorary Treasurer	Paul Harris*
Participating Societies	Representative
Adults Learning Mathematics	Jeff Evans
Association of Mathematics Education Teachers	Ros Hyde* (to 20 Oct 2016) Helen Farmery (from 20 Oct 2016)
Association of Teachers of Mathematics	Sue Pope*
British Society for Research into Learning Mathematics	Hilary Povey (to 31 Dec 2016, * to 8 Nov 2016) Sue Gifford (from 1 Jan 2017)
British Society for the History of Mathematics	June Barrow-Green
Conference of Heads of Departments of Mathematical Sciences	Catherine Hobbs (to 15 May 2017) Jan van den Heuvel (from 15 May 2017)
Edinburgh Mathematical Society	David Pritchard
Institute of Mathematics and its Applications	Chris Chipperton
London Mathematical Society	Alice Rogers
The Mathematical Association	Peter Ransom (to 15 Jun 2016) Jennie Golding (from 15 Jun 2016)
Mathematics in Education and Industry	Charlie Stripp
National Association for Numeracy and Mathematics in Colleges	Sally Barton*
National Association of Mathematics Advisers	Matt Lewis
National Numeracy	Mike Ellicock (to 21 Oct 2016) Derek Huby (from 21 Oct 2016)
National STEM Centre <i>subsequently</i> STEM Learning	Stephen Lyon
NRICH representing the Millennium Mathematics Project	Ems Lord
Operational Research Society	Charlene Timewell (to 16 Aug 2017) Sophie Parker (from 16 Aug 2017)
Royal Academy of Engineering	Rhys Morgan
Royal Statistical Society	Neil Sheldon
United Kingdom Mathematics Trust	Bill Richardson
Wales Institute of Mathematical and Computational Sciences	Sofya Lyakhova
Co-opted Members	
UK Representative to the International Commission on Mathematics Instruction	Chris Budd
BCME Committee Chair	David Martin
Immediate Past Chair	Tim Rowland (to 8 Nov 2016)
Observing Societies	Representative
Advisory Committee on Mathematics Education	Robert Barbour (to 12 Jun 2016) Jeremy Hodgen (from 12 Jun 2016)
Department for Education [England]	Clare Fowler
Department of Education [Northern Ireland]	Julie Harris
Education Scotland	Lorna Harvey (to 20 Jan 2017) Stuart Cathro (from 20 Jan 2017)

The Higher Education Academy	Roger Brooks (to 22 Feb 2016) Sean Ryan (from 23 Feb to 13 Jun 2016) Catherine Hack (from 14 Jun 2016)
National Centre for Excellence in the Teaching of Mathematics	Jane Imrie
National College for Teaching and Leadership	Matt Bulmer (to 9 Jan 2017) Paul Steele (from 9 Jan 2017)
Office for Standards in Education	Jane Jones
The Office of Qualifications and Examinations Regulation	Janet Holloway
The Royal Society	David Montagu (to 26 Jan 2017) Rebecca Veitch (from 26 Jan 2017)

Dylan Jones of the Department for Education and Skills [Wales] is invited to meetings and receives papers.

Meetings

2016 The Council met on 23 February 2016, 14 June 2016 and 8 November 2016; meetings of the Executive Committee preceded the Council Meeting. All meetings were held at the Royal Statistical Society in London.

23 February 2016 At the Council meeting there was consideration of a revised draft of a constitution for the JMC as a Charitable Incorporated Organisation. So that members might be better informed of the work of the Executive Committee, the Council agreed that summary agenda and minutes for meetings of the Executive Committee would be circulated with the agenda and minutes of Council meetings; it was also agreed that this practice would be reviewed after one year. In order that the Council did not inadvertently fail to fulfil safeguarding requirements it was agreed that the JMC would not work directly with children or vulnerable adults unless the Council has specifically authorised that work and all checks required by law had been carried out. In the afternoon there was a discussion on developments regarding GCSE Mathematics in England led by Sue Pope, Debbie Barker and Lynn Churchman.

14 June 2016 A Special General Meeting was held immediately before the Council meeting to approve a draft constitution and other provisions for the Charitable Incorporated Organisation that the JMC was to become and for which application was subsequently made to Charity Commission for England and Wales in August 2016.

The Council's discussions included initial teacher education (and the inadequacy of data on the teaching workforce) in England, recent changes to the curriculum in Scotland and the JMC's relationship with the National Maths Hubs Forum. Peter Thomas was elected unopposed to serve for a further term as Honorary Secretary from after the AGM in 2016 to that in 2019. In the afternoon there was a discussion on Pedagogy for Secondary Mathematics Teaching led by Ros Hyde.

8 November 2016 At the Annual General Meeting, the Annual Report and Annual Accounts were approved, as were the membership list and the subscription rates. Sally Barton (NANAMIC) and Sue Pope (ATM) were re-elected to serve on the Executive Committee for the following year.

At the Council meeting which followed discussion included Subject Knowledge Enhancement courses, the future of NCETM, Core Maths and curriculum reform in Wales. In the afternoon there was a discussion of 'Key Issues for mathematics education and what this means for ACME's priorities in the years ahead' which was led by Rosalind Mist of The Royal Society and Jeremy Hodgen of ACME.

2017 The Council met on 28 February 2017 and 9 June 2017; meetings of the Executive Committee preceded the Council Meeting. All meetings were held at the Royal Statistical Society in London.

28 February 2017 The Council discussed, among other things, the Mathematics Teacher Training Scholarship Scheme, university admissions tests and ACME's use of 'Expert Panels' [subsequently renamed 'Contact Groups']. In the afternoon, Sue Gifford made a presentation and led a discussion on Mathematics in the Early Years.

9 June 2017 A Special General Meeting was held which agreed the dissolution of the unincorporated JMC and the transfer of its activities and assets to The Joint Mathematical Council of the United Kingdom which was incorporated as a Charitable Incorporated Organisation (Registered Charity Number 1171223) by the Charity Commission for England and Wales on 20 January 2017. All liabilities having been discharged and all bank accounts having been closed (and their balances transferred to the new body), the dissolution took place on 17 August 2017.)

Later on 9 June 2017 a Council meeting was held; discussions included how ACME would now address issues from across the UK rather than just England and teacher education. Jennie Golding was elected to serve as Honorary Treasurer from after the AGM in 2017 to that in 2020 (if the unincorporated JMC was still in existence at that time). In the afternoon there were presentations and discussions on the reform of GCSE Mathematics led by Janet Holloway of Ofqual and the Chartered College of Teaching led by Julia Flutter of the Chartered College of Teaching.

Committees

At the first meeting of the trustees of the incorporated JMC on 28 February 2017, committees were established for the new body corresponding to those below to continue their work.

BCME Committee

The ninth British Congress of Mathematics Education (BCME9) is an integrated programme of practitioner and research sessions celebrating mathematics education planned to be held on Tuesday 3rd to Friday 6th April 2018 at the University of Warwick for 500 delegates. The BCME committee of the JMC have organised this event with a Memorandum of Understanding between the JMC, ATM and the MA. The BCME Committee has been chaired by David Martin with Peter Ransom as Secretary and Paul Metcalf as Treasurer and has met Wednesday 9 March 2016 and Tuesday 27 September 2016. This committee is supported in its work by a Communications Committee chaired by Natthapoj Vincent Trakulphadetkrai, a Programme Committee chaired by Sue Pope, and a Venue Committee chaired by Karen Gladwin. The JMC is very grateful for the work of these committees and for the JMC Reference Group members who have acted as a key point of contact with JMC Participating Societies for BCME9 planning. The contract with the venue has been finalised, the website launched, the conference programme shaped including plans to develop the integration of practitioner and research components. The conference will be opened by the JMC chair Professor Paul Glaister. Plenary speakers include Professor Sir David Spiegelhalter FRS (Opening Plenary), Professor Paul Ernest (Closing Plenary), Professor Ruth Merttens, Dr Vicky Neale, Dr Hannah Fry (After Dinner Speaker) and Tom Roper (The MA Presidential Address).

Supplement 1 January 2017 – 31 July 2017

The BCME Committee of the Joint Mathematical Council of the United Kingdom has been reformed, with the same membership, as a Committee of The Joint Mathematical Council of the United Kingdom. A new bank account has been opened for this new committee and all monies have been transferred to this from the old bank accounts.

David Martin (Chair, BCME Committee)

GCSE Working Group

JMC convened the GCSE Mathematics Working Group amid growing concern about the impact of the significant changes to GCSE for first teaching in September 2015. The 'big fat' GCSE represented a step change in expectations with additional material at both higher and foundation tier and an increased emphasis on the assessment of problem solving. Government advised that additional time be made available for KS4 mathematics, but the extent to which this happened varied enormously. The working group compiled a list of risks and concerns that was shared with DfE and Ofqual. Representatives met with Ofqual in 2016 to discuss these concerns and Ofqual has produced a number of communications to reassure teachers about the processes that will be used to maintain standards and ensure comparable outcomes in summer 2017. There has been ongoing social media concerns about the new GCSE, particularly around tier of entry and likely student outcomes. In March 2017, Ofqual convened a meeting of some of the more active voices from social media and invited a representative from the working group. The entry pattern for the new GCSEs in mathematics in England saw a substantial shift away from the Higher Tier among sixteen year olds (76% to 53%). There has also been concern (Nuffield's [REVAMP](#)) expressed about progression to A level, with many centres reporting a drop in interest. The group is eagerly awaiting the summer 2017 exam results.

Sue Pope (Convenor, GCSE Working Group)

ICME Bursaries Committee

The membership of the Committee comprised:

- Chris Budd, Chair, London Mathematical Society (LMS)
- Hilary Povey, Joint Mathematical Council, (JMC)
- Tony Cotton, Association of Teachers of Mathematics, (ATM)
- Janet Ainley, British Society for Research in Mathematics Education (BSRLM)
- Nigel Steele, Institute of Mathematics and its Applications (IMA)
- Peter Ransom, Mathematical Association (MA)

The criteria for the award were as previously agreed by JMC:

1. That the candidate will benefit academically and professionally from attending ICME-13 and needs bursary funds to attend ICME
2. That the candidate will contribute to UK presence at ICME-13 by attending and presenting
3. That the candidate will feed back into policy, practice or research in mathematics education in the UK

Bursaries of up to £600 were offered competitively for outstanding mathematics educators, attending and presenting at ICME-13 which took place in 2016. Applications were encouraged from the full range of those working in all areas of mathematics and mathematics education in the UK, including teachers, researchers

and postgraduate students who were able to demonstrate a benefit from attending. Application was made by completing a form and supplying a supporting statement from a referee.

The LMS and the IMA generously provided £4800. There were 12 applicants. The Committee decided to award £400 to each applicant. These were Irene Biza, Jeff Evans, Rosie Everley, Jennie Golding, Racheal Horsman, Barbara Jaworski, Keith Jones, David Kaye, Mary Stevenson, Vivien Townsend, Michael Umameh and Lotta Viika.

The start of the work of the Committee was somewhat delayed which meant that requests to provide financial support were made too late for some potential funders. It is suggested that the Committee for ICME-14, which will take place in 2020, might usefully be formed early in 2018.

Hilary Povey (JMC representative, ICME-13 Bursaries Committee until 8 November 2016)

ACME

The JMC continued to work with the Advisory Committee on Mathematics Education, to mutual benefit.

In 2016, each meeting of the Council received an update from ACME on its work and issues of concern; also, JMC was represented formally by its Chair, or his deputy, at the termly ACME meeting where it was customary for the DfE to be present. The Executive Committee was joined for part of its June meeting in 2016 by representatives of ACME to discuss ACME's Annual Report. During 2016 The Royal Society reviewed the governance arrangements for ACME in discussion with JMC and the Council for the Mathematical Sciences.

From 1 January 2017, the Advisory Committee on Mathematics Education was fully integrated into the committee structure of The Royal Society and the previous arrangements for the joint governance of ACME were abrogated. Under the new arrangements, the Chair of the JMC is a member of ACME and the Council receives an update on ACME's work through the report of The Royal Society; also the remit of ACME has been extended from mathematics education in England to mathematics education in the United Kingdom.

Representation

Following the meetings of the Executive Committee of the unincorporated JMC and of the trustees of the incorporated JMC on 28 February 2017, the representations were transferred to the new body.

Council for Subject Associations The JMC is represented by Alison Clark-Wilson.

National Maths Hubs Forum The JMC is represented by Tony Cotton

Numeracy Forum The JMC is represented by Sally Barton.

OCR Mathematics Consultative Forum The JMC was represented by David Martin until 31 December 2016.

Websites

The JMC's electronic document archives are hosted by the Open University; the JMC is very grateful to the OU and its staff for this support. The website and email server for the JMC (www.jmc.org.uk) and those for BCME (www.bcme.org.uk) are hosted commercially by 1&1. The content of the website has gradually been changed to reflect the changed from the unincorporated JMC to the incorporated JMC.

Annual and Final Accounts for 2016 – 2017
(including the accounts of the CIO from 20 January 2017 to 31 July 2017)

Unincorporated JMC Accounts 1/10/16 to 17/7/17

JMC Accounts

Income		Expenditure	
Subscriptions	10,375.00	Officer Expenses	1,524.34
Late Subscriptions	0.00	Meetings	2,908.53
Interest	3.15	Exec Meetings	0.00
ICME	0.00	JMC Rep Exp	240.15
Miscellaneous	0.00	Working Groups	0.00
Transfer From Dep. (excluding interest)	19,060.16	Insurance	732.00
		Website	0.00
		CfSA Subscription	200.00
		ICME	0.00
		Legal Expenses	1,140.00
		Transfer to Deposit	5,000.00
		Transfer to Co-Op	18,753.31
		Miscellaneous	0.00
TOTAL	29,438.31	TOTAL	30,498.33

Total Assets

	17/07/17	01/10/16
Current Account	0.00	1060.02
Savings Account	0.00	14,058.58
TOTAL	0.00	15,118.60

These accounts were closed on 17 July 2017 to allow the dissolution of the Unincorporated JMC.

All the assets have been transferred to the bank accounts for the new CIO JMC.

These accounts have been checked and certified as a true record by

Print Name: ROSA ARCHER

Signed: R Archer

Date: 24.10.17

CIO JMC Accounts

Income	2016-17		Expenditure	2016-17
Transfer from uJMC	18,753.31		Officer Expenses	761.13
Subscriptions	0.00		Meetings	1,456.64
Late Subscriptions	0.00		Exec Meetings	0.00
Interest	0.00		JMC Rep Exp	0.00
Refund of uJMC			Working Groups	0.00
Insurance	366.00		Insurance	0.00
			Website	158.26
			CfSA Subscription	0.00
			Legal Expenses	0.00
TOTAL	19,119.31		TOTAL	2,376.03

The current balances of the bank accounts are:

Current Account	£1,743.28
Deposit Account	£15,000.00

These accounts have been checked and certified as a true record by

Print Name: ROSA ARCHER

Signed: 

Date: 24.10.17

BCME Accounts (Supplied by the BCME Treasurer)

	2018 Budget	Latest	2018 Remaining
Expenditure			
Venue costs	154130.00	0.00	154130.00
Pre conference expenses	12000.00	3455.17	8544.83
Conference expenses (inc VAT)	7500.00	102.00	7398.00
AVA expenses (inc VAT)	2400.00	0.00	2400.00
Plenary Speakers	2400.00	0.00	2400.00
Website (inc VAT)	14230.00	11250.00	2980.00
Photography (inc VAT)	1500.00	0.00	1500.00
Administration overheads (inc VAT)	50000.00	0.00	50000.00
CC costs	8600.00	0.00	8600.00
Liability insurance	250.00	0.00	250.00
Contingency	10000.00	0.00	10000.00
TOTAL	263010.00	14807.17	248202.83
Income			
Publisher	20000.00	90.00	19910.00
Sponsorship	15000.00		15000.00
Delegate income			0.00
Interest on balances	15.00	13.53	1.47
TOTAL	35015.00	103.53	34911.47
Total surplus/loss	-227995.00	-14703.64	-213291.36
Money in Bank			
Money in HSBC Current A/C		0.00	
Money in HSBC Deposit A/C		0.00	
Money in CoOp A/C		9517.29	
Total Money		9517.29	

These accounts have been checked and certified as a true record by

Print Name:

ROSA ARCHER

Signed:

R. Archer

Date:

24.10.17

JMC TREASURER'S REPORT FOR THE 2017 AGM

The accounts for the JMC are slightly more complicated this year as they are split over two organisations, the unincorporated JMC (which I will refer to as the Old JMC in this report) and the CIO JMC (which I will refer to as the CIO JMC in this report). Because of the change-over the total income and expenditure reported here is not for a complete year, but the period 01/10/16 to 31/08/17 as this is from the start of the financial year for the Old JMC and end of the financial year for the CIO JMC. Over this period both organisations had a total income of £10,744.15 and expenditure of £9,121.05 giving a modest surplus of £1,623.10. The total amount of money held in the JMC bank accounts on 01/10/16 was £15,118.60 and on 31/08/17 was £16,743.28.

The total income and expenditure for the reporting period is summarised below, with no distinction made between the two organisations.

Income		Expenditure	
Subscriptions	10375.00	Officer Expenses	2285.47
Late Subscriptions	0.00	Meetings	4365.17
Interest	3.15	Exec Meetings	0.00
Insurance Refund	366.00	JMC Rep Exp	240.15
Miscellaneous	0.00	Working Groups	0.00
		Insurance	732.00
		Website	158.26
		CfSA Subscription	200.00
		Legal Expenses	1140.00
TOTAL	10744.15	TOTAL	9121.05

The insurance refund is for the premium paid for policy for the Old JMC which was cancelled after the final meeting of the Old JMC in June.

As part of the change-over from the Old JMC to the CIO JMC the old bank all the funds held in the bank accounts of the Old JMC were transferred to those belonging to the CIO JMC. The accounts for the Old JMC, held at HSBC, have been closed. The accounts for the CIO JMC are held at the Co-Operative Bank, and the CIO JMC has a current account containing £1,6743.28 on 31/8/17 and a deposit account containing £15,000.00 on 31/8/17. Similarly, the funds in the BCME accounts have been moved to new accounts at the Co-Operative Bank.

Budget for 2017/18

Income

The subscription rates for the last few years are shown below, with the proposed rates for 2017/18. This allows for an increase at the current rate of inflation (2.8%).

	14/15	15/16	16/17	17/18
Large	670	690	700	720
Medium	330	340	350	360
Small	255	160	165	170
Observer	131	164	175	180

The table below shows the proposed subscriptions for the 2.8% increase and a 9% increase in subscription rates. The 9% increase would be needed to generate an increase of about £1,000 in income. The total row shows the total income expected for each subscription option.

	Number	Current	2.80%	9%
Large	10	700	720	760
Medium	5	350	360	380
Small	5	165	170	180
Observer	9	175	180	190
Special	1	100	100	110
	Total	11250	11570	12220
	Increase	0	320	970

Expenditure

The table below shows the estimated expenditure for 2017-18, based in the 2016-17 figures and a 10% increase (rounded to a convenient figure)

	Actual for 2016-17	Expected for 17-18
Officer Expenses	2285.47	2,500.00
Meetings	4365.17	4,800.00
Exec Meetings	0.00	0.00
JMC Rep Exp	240.15	270.00
Working Groups	0.00	0.00
Insurance	732.00	400.00
Website	158.26	180.00
CfSA Subscription	200.00	220.00
Legal Expenses	1140.00	0.00
TOTAL	9121.05	8370.00

The costs of the meetings can be reduced if the hot buffet is replaced by a cold sandwich lunch. The saving for each meeting (based on 35 attendees) is show in the table below. By going for the bronze option the JMC could save around £1,000 per year whilst the gold option gives a saving of around £400 per year. The expenditure presented in the table above assumes that the current hot buffet lunch continues.

	Unit Cost	Cost of 35	VAT	Total	Saving
Hot Buffet	16.25	568.75	113.75	682.50	0.00
Bronze	8.25	288.75	57.75	346.50	336.00
Silver	12.40	434.00	86.80	520.80	161.70
Gold	12.95	453.25	90.65	543.90	138.60

The expected income and expenditure is showing an estimated surplus of £3,200 for the year 17-18.