The Joint Mathematical Council of the United Kingdom

Trustees' Annual Report for the period from 20 January 2017 to 31 July 2017

Who is the JMC?

- Governance The Joint Mathematical Council of the United Kingdom (also known as 'The JMC') is a Charitable Incorporated Organisation registered with the Charity Commission for England and Wales, Registered Charity Number: 1171223. The JMC's governing document is its Constitution.
- Address The JMC's principal office is in England at De Morgan House, 57-58 Russell Square, London, WC1B 4HS but all correspondence should be addressed to the Secretary (currently: Mr Peter Thomas, Secretary, The Joint Mathematical Council of the United Kingdom, Hills Road Sixth Form College, Cambridge, CB2 8PE). The JMC's website can be found at www.jmc.org.uk.
- Membership The membership of the JMC consists of its Officers, Participating Bodies, Co-opted Members and Observing Bodies; during the period from 20 January 2017 to 31 July 2017 these were:

Officers

Chair Paul Glaister Secretary Peter Thomas Treasurer Paul Harris

Participating Bodies

Body Authorised Representative

Adults Learning Mathematics Jeff Evans Association of Mathematics Education Teachers Helen Farmery Association of Teachers of Mathematics Sue Pope

British Society for Research into Learning Mathematics Sue Gifford 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 Jennie Golding Mathematics in Education and Industry Charlie Stripp Sally Barton

National Association for Numeracy and Mathematics in Colleges National Association of Mathematics Advisers Matt Lewis

National Numeracy

National STEM Centre subsequently STEM Learning NRICH representing the Millennium Mathematics Project

Operational Research Society Royal Academy of Engineering Royal Statistical Society

Neil Sheldon **United Kingdom Mathematics Trust** Bill Richardson Wales Institute of Mathematical and Computational Sciences Sofya Lyakhova

Co-opted Members (from 28 February 2017)

UK Representative to the International Commission on Mathematics Instruction Chris Budd British Congresses of Mathematics Education Committee Chair David Martin

Observing Bodies (from 28 February 2017)

Authorised Representative

Advisory Committee on Mathematics Education Jeremy Hodgen

Department for Education [England] Clare Fowler Department of Education [Northern Ireland] Julie Harris

Education Scotland Stuart Cathro

Derek Huby

Ems Lord

Stephen Lyon

Rhys Morgan

Charlene Timewell

The Higher Education Academy

National Centre for Excellence in the Teaching of Mathematics

National College for Teaching and Leadership

Office for Standards in Education

The Office of Qualifications and Examinations Regulation

The Royal Society

Catherine Hack Jane Imrie Paul Steele Jane Jones Janet Holloway Rebecca Veitch

4. Trustees The initial trustees at incorporation on 20 January 2017 were named in The JMC's Constitution (see Article 12.4). The Officers are the Chair, Secretary and Treasurer; each serves for three years following election at an Annual General Meeting (see Articles 12.5, 12.7 and 12.8). There are also two Elected Trustees; each serves for three years following election at an Annual General Meeting (see Articles 12.6, 12.7 and 12.9). There can also be up to two Co-opted Trustees at any time, the period of co-option is until the next Annual General Meeting (see Article 12.10). Elected Trustees and Co-opted Trustees must be Authorised Representatives of Participating Bodies at the time of appointment.

Trustees for the period from 20 January 2017 to 31 July 2017:

Sally Barton Elected Trustee

Paul Glaister Chair Paul Harris Treasurer

Ros Hyde Co-opted Trustee (resigned 21 January 2017)
Matt Lewis Co-opted Trustee (co-opted 9 June 2017)

Sue Pope Elected Trustee

Hilary Povey Co-opted Trustee (resigned 22 January 2017)
David Pritchard Co-opted Trustee (co-opted 9 June 2017)

Peter Thomas Secretary

The JMC has no corporate trustees. No trustee holds title to property belonging to the JMC. The JMC does not act as a Custodian Trustee for any other charity.

In the coming year, the Trustees will develop a policy on the training of trustees.

What does the JMC do?

- 5. Objects The JMC's Constitution states that 'The objects of the Council are, for the public benefit, to advance the knowledge, understanding, study and education of the public in the subject of mathematics, including by:
 - sharing knowledge, best practice and teaching methods amongst individuals and organisations teaching mathematics; and
 - liaising with mathematical bodies, national education policy makers and government in furthering the objects.'
- 6. Incorporation The JMC was incorporated on 20 January 2017 as a Charitable Incorporated Organisation. It is the successor to the unincorporated Joint Mathematical Council of the United Kingdom which was founded in 1962 and first met in 1963. After a period of transition during which activities and assets were transferred to the new body, the old body was dissolved on 17 August 2017. Much activity during the period from incorporation until 31 July 2017 has been to effect the transfer.
- **Meetings** For the furtherance of its objects, the JMC holds General Meetings three times a year to promote communication between mathematical bodies in the United Kingdom. General Meetings were held on 28 February 2017 and 9 June 2017. On these days were also held meetings of the Trustees (and meetings of the Executive Committee and Council of the unincorporated JMC and, on 9 June, a Special General Meeting of that body to agree provisions for its dissolution). The initial General Meetings have been atypical as they have been mainly concerned with internal business to get the new JMC ready to take over activity fully by 1 August 2017. Future meetings will receive reports from Participating Bodies and Observing Bodies as well as from JMC representatives on external bodies, and discuss issues of concern raised; they will also continue the practice of the unincorporated JMC in devoting the afternoon session to the discussion of one topic, or sometimes two topics, concerning mathematics education. (The afternoon discussion sessions during the period were held as part of the Council meetings of the unincorporated JMC and were on Mathematics in the Early Years (28 February) and GCSE Mathematics and the Chartered College of Teaching (9 June).) At the General Meeting on 9 June, the JMC endorsed a JMC enabled community approval process for Teacher Subject Specialism Training (TSST) mathematics programmes which had been developed with the National College for Teaching and Leadership.

8. **British Congresses of Mathematics Education Committee** (Chair: David Martin) This committee was established on 28 February 2017 to take on the work previously undertaken by the British Congresses of Mathematics Education Committee of the unincorporated JMC.

The ninth British Congress of Mathematics Education (BCME9) is an integrated programme of practitioner and research sessions celebrating mathematics education to be held on Tuesday 3rd to Friday 6th April 2018 at the University of Warwick for 500 delegates. The BCME committee of The Joint Mathematical Council of the United Kingdom (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 met on Thursday 27 April 2017. This committee is supported in its work by a Communications Committee chaired by Natthapoi 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 Bodies for BCME9 planning. The contract to hold the event at the University of Warwick has been signed. The BCME website (www.bcme.org.uk) continues to have new pages added as we progress towards the conference. Exhibitors have begun to book their stands. Presenters have responded to a call for session leaders adding substantially to the programme which will be opened by JMC chair Professor Paul Glaister. In addition to plenary speakers advertised in the promotional flyer for the event of Professor Sir David Speigelhalter 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), negotiations have taken place to secure OUP as a headline sponsor which will include sponsorship of an additional plenary speaker, Professor Berinderjeet Kaur. OCR and UKMT will again sponsor our event and discussions are taking place with other potential sponsors. A new BCME bank account has been opened and all BCME monies have been transferred from the old BCME bank accounts.

9. **GCSE Working Group** (Convenor: Sue Pope) This working group was established on 28 February 2017 to take on the work previously undertaken by the GCSE Working Group of the unincorporated JMC.

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.

10. **International Congresses of Mathematics Education Bursaries Committee** (Chair: Chris Budd) This committee was established on 28 February 2017 to take on the work previously undertaken by the International Congresses of Mathematics Education Bursaries Committee of the unincorporated JMC.

International Congresses of Mathematics Education are held every four years and the next will be in Shanghai in 2020. The ICME Bursaries Committee will become active in 2018 to raise funds for bursaries for those attending and to publicise the bursaries widely, prior to their award in 2019.

11. **Meeting of Mathematics Subject Associations Special Interest Group** (Honorary Secretary: Sue Pope) This group was established as a special interest group of the JMC on 9 June 2017.

The Meeting of Mathematics Subject Associations (Association of Mathematics Education Teachers, Association of Teachers of Mathematics, The Mathematical Association, National Association for Numeracy and Mathematics in Colleges and National Association of Mathematics Advisers; the National Centre for Excellence in the Teaching of Mathematics and The Royal Society also attend meetings) met three times during 2016-17. Each subject association covers the costs of attendance and meetings are hosted by ATM, the MA and the Royal Society. The meetings are a valuable opportunity to update one another and discuss issues of common concern e.g. BCME, the Chartered College of Teaching, CMathTeach, engaging with Maths Hubs. In September 2017, Mick Blaylock and Paul Glaister from the

Core Maths Support Programme led a discussion about the first round of examinations and general progress with Core Maths. In January 2017, Vanessa Pittard from DfE provided an update on mathematics education policy and shared data used to inform the eagerly awaited Smith review. In May 2017, MMSA accepted JMC's invitation to become a Special Interest Group of JMC and agreed priorities for the future:

- quality of SKEs and TSSTs as an essential means of recruiting sufficient teachers
- use of technology for learning as well as for teaching
- professional development for all teachers of mathematics as an entitlement and expectation
- quality of education for all learners of mathematics
- retention of teachers
- 12. Relationships with other bodies The JMC has the following relationships with other bodies.

The JMC is a member of the Council for Subject Associations (JMC representative: Alison Clark-Wilson, appointed 28 February 2017).

The JMC works with the Association of Teachers of Mathematics and The Mathematical Association in organising the British Congress of Mathematics Education every four years (the next is to be held in 2018); any surplus or deficit on a congress is shared between the JMC, ATM and MA in the ratio 4:3:3.

The Royal Statistical Society generously gives the JMC a 20% discount on the cost of room hire.

The JMC also has the following relationships with other bodies as part of which the JMC neither makes payment nor receives payment:

The London Mathematical Society generously allows the JMC to use its address as the address of the JMC's principal office.

The National Centre for Excellence in the Teaching of Mathematics invites the JMC to nominate a representative (Tony Cotton, appointed 28 February 2017) to the National Maths Hubs Forum.

National Numeracy invites the JMC to nominate a representative (Sally Barton, appointed 28 February 2017) to the National Numeracy Forum.

OCR invites the JMC to nominate a representative (Sue Pope, appointed 14 July 2017) to its Mathematics Consultative Forum.

The Open University generously provides electronic document archives for the JMC.

The Royal Society includes the Chair of the JMC among the members of its Advisory Committee on Mathematics Education.

The JMC is also represented at other meetings from time to time.

The JMC has no employed staff or paid consultants.

13. **Public Benefit** The Trustees have had due regard to the public benefit guidance of the Charity Commission of England and Wales when exercising any powers or duties to which the guidance is relevant.

The JMC's finances

14. Context This initial period following the foundation of the charity, but before it became fully active, does not display the expected pattern of transactions across the JMC's year. The expenses for the meetings on 28 February 2017 were borne by the unincorporated JMC whilst those for the meeting on 9 June 2017 were met by the charity, so the expenses for only one of the three annual meeting days show in the accounts of the charity for this period. Also, most annual expenditure for the year was met by the unincorporated JMC. As annual subscriptions fall due after the Annual General Meeting, there is no subscription income during the period; income instead came from transfers by the unincorporated JMC.

Historically, most of the subscription income has been used to meet the cost of the three meetings each year, so, once other costs have been met, there has been little left to finance initiatives which restricted the range of activities that the unincorporated JMC was able to undertake. In the coming year the Trustees will examine if meetings can be held more cost-effectively and how the JMC might become better placed to finance initiatives to further its objects.

British Congresses of Mathematics Education (BCME) are held every four years, the next is in 2018; the target attendance is around 500 teachers and other mathematics educators. The turnover on this activity far exceeds the rest of the JMC's turnover (the last BCME was held in 2014; income was £237 700.91 and expenditure was £215 145.50; in the year 2013-14, the JMC's income and expenditure apart from BCME were £14314.01 and £14512.19, respectively). The accumulated surplus from BCMEs is

carried forward to act as working capital for future BCMEs and is not available for general expenditure. In years when BCMEs are held, the Association of Teachers of Mathematics (ATM) and The Mathematical Association (MA) do not hold their annual conferences but share with the JMC in organising the BCME; in recognition, any surplus or deficit on a BCME is shared between the JMC, ATM and MA in the ratio 4:3:3; this serves to mitigate the financial risk to JMC that BCME presents whilst enabling a much larger event to be organised than could be organised with the JMC's resources alone.

15. **Financial Position** The JMC's total general income in the reporting period was £19 119.31 of which £18 753.31 was the transfer of assets from the unincorporated JMC, the remainder was one-off income of the refund of an insurance premium for cover for the unincorporated JMC. The JMC's total general expenditure in the reporting period was £2376.03 of which £1456.64 related to the Trustees' Meeting and General Meeting on 9 June 2017, the remainder being officers' expenses of £761.13 and the annual charges payable for the JMC's website of £158.26. At the end of the reporting period the JMC had a cash balance of £16743.28 in its general funds, that is £1743.28 in its current account and £15 000.00 in its deposit account. The cash balance of the unincorporated JMC on 30 September 2016 (the end of its 2015 – 2016 reporting period) was £15118.60 (after income of £14940.75 and expenditure of £14288.41 during 2015 – 2016), so the JMC (taking the old and new JMC's together) has had a financially stable year with a slight growth in the general funds held.

There is also one restricted fund which holds funds related to BCME which is administered by the BCME Committee. This fund stood at £9517.29 at the end of the reporting period. Historically, this point represents the financial low point in the four-yearly BCME cycle with significant expenditure having occurred but little or no income having been received in advance of the Congress being held in the following year (on 31 July 2013 the funds held by the BCME Committee of the old JMC stood at £751.98).

Further details of the JMC's finances are set out in the Annual Accounts.

In the coming year, the Trustees will develop a policy on risk assessment.

16. **Reserves** The present level of reserves has been carried forward from the unincorporated JMC and was adequate for that body.

In the coming year, the Trustees will develop a policy on reserves.

- 17. **Grant Making** Apart from its involvement in organising bursaries for those attending the International Congresses of Mathematics Education which are held every four years (the next is in 2020), the JMC does not make grants.
- 18. Social Investment The JMC does not make social investments.

Declaration

19. Approval The trustees declare that they have approved the trustees report above.

Signed on behalf of the charity's trustees

Peter Thomas

Peter Thomas

Secretary

22 October 2017

Annual Accounts from 20 January 2017 to 31 July 2017

(including the Annual and Final Accounts of the unincorporated JMC for 2016 – 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.	19,060.16	Insurance	732.00	
(excluding interest)		Website	0.00	
		CfSA Subscription	200.00	
		ICME	0.00	
	1	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: Rarder

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
			-
		-	
		1	
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)

	1		
3	2018 Budget	Latest	2018 Remaining
Expenditure		-1	
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	1	J	1
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 ARCILE	2		
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Signed:	1 32 10 00.	Date:	C4.11) 0 11

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.