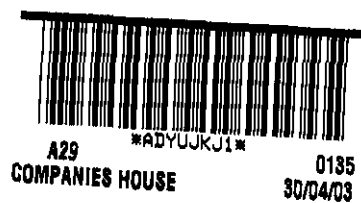


**UNITED KINGDOM
MATHEMATICS TRUST**

**REPORT AND FINANCIAL
STATEMENTS**

FOR THE YEAR ENDED

31 JULY 2002



Company no 3271283
Charity no 1059125

UNITED KINGDOM MATHEMATICS TRUST

REPORT AND FINANCIAL STATEMENTS

For the year ended 31 July 2002

Company registration number: 3271283

Registered Charity number: 1059125

Registered office: 21 Albemarle Street
London
W1S 4BS

Trustees:

Dr R W Bray
Professor J Brindley
Mr H Groves
Mr T J Heard
Miss S G Jameson
Dr A K Jobbings
Mrs P M King
Mr N J Lord
Professor A C McBride
Dr P M Neumann
Mr W P Richardson
Professor J C Robson
Dr A B Slomson
Dr G C Smith
Dr W B Stewart

Secretary: Dr R W Bray

Bankers:

Lloyds TSB Bank plc
4 West Street
Havant
Hampshire
PO9 1PE

Lloyds TSB Bank plc
6/7 Park Row
Leeds
LS1 1NX

Auditors:

Grant Thornton
Registered Auditors
Chartered Accountants
1 Westminster Way
Oxford
OX2 0PZ

UNITED KINGDOM MATHEMATICS TRUST

REPORT AND FINANCIAL STATEMENTS

For the year ended 31 July 2002

INDEX	PAGE
Report of the Trustees	1 - 11
Report of the independent auditors	12 - 13
Principal accounting policies	14
Statement of financial activities	15
Balance sheet	16
Notes to the financial statements	17 - 20
Detailed statement of financial activities	21 - 22

UNITED KINGDOM MATHEMATICS TRUST

REPORT OF THE TRUSTEES

CONSTITUTION OF THE TRUST

The Trust was incorporated on 30 October 1996. It is a company limited by guarantee, registration number 3271283, and is registered with the Charity Commission with Charity Number 1059125. It was founded under the patronage of The Royal Institution of Great Britain and its registered address is that of The Royal Institution, 21 Albemarle Street, London W1S 4BS. The governing document is the Memorandum and Articles of Association.

The Trustees of the Trust are also the Directors of the Charity for Companies Act purposes.

The governing body of the Trust is its Council, and its Trustees are precisely the members of the Council.

Under Article 1.1 of the constitution, The Royal Institution of Great Britain and The Mathematical Association are Participating Bodies, and the Association of Teachers of Mathematics, the Edinburgh Mathematical Society, The Institute of Mathematics and Its Applications, the London Mathematical Society and The Royal Society are Supporting Bodies. The Royal Institution is also the Patron of the Trust.

MAIN OBJECTS

The Trust is established to advance the education of children and young people in mathematics, in particular by organising and running mathematics competitions.

MEMBERSHIP

The Trustees during the period covered by this Report were:

Dr P M Neumann (*Chairman*)
Dr R W Bray (*Secretary*)
Dr W B Stewart (*Treasurer*)
Professor J Brindley
Mr H Groves
Mr T J Heard
Miss S G Jameson
Dr A K Jobbings (*Vice-Chairman*)
Mrs P M King (*nee Smart*)
Dr I B Leader (resigned 15 November 2001)
Mr N J Lord (appointed 27 March 2002)
Professor A C McBride (*Vice-Chairman*)
Mr W P Richardson
Professor J C Robson
Dr A B Slomson
Dr G C Smith (appointed 15 November 2001)

The members of the Trust comprise present and former Trustees, namely those listed above plus Mrs M T Fyfe, Dr A D Gardiner, Mr D J Orton, Mr R C Smart and Mr P A J Thomas, together with The Royal Institution, The Mathematical Association and Ms H J Macklin.

UNITED KINGDOM MATHEMATICS TRUST

REPORT OF THE TRUSTEES

MEETINGS

The sixteenth meeting of Council was held at The Queen's College, Oxford on 31 August 2001 and the seventeenth and eighteenth meetings were held at The Royal Institution on 15 November 2001 and 27 March 2002. Under the provision of Article 56 two resolutions, dated 14 and 26 February 2002, were agreed by Council outside a meeting.

The fifth Annual General Meeting of the Trust was held at The Royal Institution on 27 March 2002.

STRUCTURE OF THE UKMT

The Trust has four 'subtrusts' (termed 'Represented Branches' in the Articles). Each of these subtrusts is in charge of one of the spheres of UKMT activity; each has its own membership and its own financial arrangements subordinate to those of the main trust. These subtrusts are as follows:

- The Junior and Intermediate Challenges Subtrust (JICS), whose major responsibility is the running of the mass entry mathematics challenges for school pupils aged between 12 and 16 approximately
- The Junior Olympiad Subtrust (JOS) which runs the more advanced, more specialised competitions for school pupils aged between 12 and 16 approximately
- The Senior Challenge Subtrust (SCS) which runs the mass entry challenge aimed mainly at school pupils aged 16 or over
- The British Mathematical Olympiad Subtrust (BMOS) which runs the selective olympiad activities for school pupils aged 16 or over, and selective training for pupils under 16.

The results of these subtrusts are included within these accounts.

STAFF

The Trust has one employee, Ms A Gould its Executive Director. The bulk of the administrative support for the work of the Trust is provided by the Maths Challenges Office, based in the University of Leeds. The Office has two administrators, Ms R Airey and Ms J Foggin, who are able to call on a team of part-time employees for assistance.

JUNIOR AND INTERMEDIATE CHALLENGES SUBTRUST

The membership of the JICS is:

Professor J Brindley (University of Leeds, *Chair*)
Dr A B Slomson (University of Leeds, *Secretary and Treasurer*)
Mr H Groves (Royal Grammar School, Worcester)
Dr A K Jobbings (Bradford Grammar School)
Professor J C Robson (University of Leeds)

The Intermediate Mathematical Challenge (IMC) was held on Thursday, 7 February 2002. The number of entries rose by 17.0% to 199,930 and the number of participating schools by 19.6% to 2,681 compared to the previous year. The certificate thresholds were adjusted upwards to 72, 62 and 53 for gold, silver and bronze respectively, compared to 57, 43 and 32 in 2001.

The Junior Mathematical Challenge (JMC) was held on Tuesday, 30 April 2002. The number of entries rose by 16.2% to 239,060 and the number of participating schools by 17.6% to 3,247. Certificate thresholds were lowered to 73, 57 and 45 for gold, silver and bronze respectively, compared to 88, 73 and 58 in 2001.

UNITED KINGDOM MATHEMATICS TRUST

REPORT OF THE TRUSTEES

Both challenges went smoothly. All the target dates for delivering results to schools were met despite the increase of around 16% in the number of entries that were processed. The purchase of a second Optical Mark Reader was critical in this achievement.

The Trust is extremely fortunate in having two administrators, Rachel Airey and Jenny Foggin, in the Maths Challenges Office in Leeds who continue to run a very efficient core service. As well as administering the IMC and JMC, the Office undertakes a considerable and growing amount of work for the other Subtrusts. Thus it provides administrative support for the Senior Mathematical Challenge and for the IIMC 11, IIMC 10, the (much expanded) Kangaroo and the JMO follow-up competitions. The Office handles a huge volume of paper and works to tight deadlines with the greatest efficiency and with an insignificant number of errors. We are enormously grateful to Rachel and Jenny, and to their committed team of packers, for the tremendous contribution which they make to the central function of the UKMT.

JUNIOR OLYMPIAD SUBTRUST

The membership of the JOS is:

Professor J C Robson (University of Leeds, *Chair*)
Ms K Chisholm (Hutchesons' Grammar School, Glasgow) (co-opted)
Mr H Groves (Royal Grammar School, Worcester) (co-opted)
Dr A K Jobbings (Bradford Grammar School)
Miss J Ramsden (DfES, *Secretary*)
Mr W P Richardson (Mathematical Association)
Mr A Voice (St Christopher's School, Hove, *Treasurer*)

The three competitions organised by the subtrust during the year were completed successfully. The numbers involved in each competition were as follows:

	Invitations	Participants	Distinctions	Prize winners
European Kangaroo	5209	4162	1078	100
IIMC: Year 10	735	613	147	51
Year 11	661	537	122	49
Junior Mathematical Olympiad	1156	980	9 gold, 27 silver, 43 bronze, 51 prizes	

On the whole, this was a year of consolidation for the subtrust following the change in membership and in responsibilities during the preceding year. Andrew Jobbings and Bill Richardson continued to take responsibility, respectively, for the IIMC and the JMO. Katy Chisholm has taken over responsibility for the European Kangaroo, with backing from Andrew Jobbings; Jenny Ramsden is a back-up for the IIMC; and Alex Voice is back-up for the JMO. Howard Groves continued to play a major role through the Problems Group whose positive efforts are indispensable to this subtrust.

As its contribution to the "outreach" from the IMO, JOS greatly increased the numbers invited to take part in the European Kangaroo competition. This was a major extra burden on the Leeds office. As usual, it coped completely successfully with this. JOS is grateful to Rachel Airey and Jenny Foggin for their considerable commitment and friendly help.

The process of attempting to harmonise the presentation of documentation and of ensuring that it is helpful and accurate is continuing. As last year, each school and each competitor received a solutions booklet which is intended to help give an idea of what is sought. Arrangements for the competitions and the marking went smoothly.

UNITED KINGDOM MATHEMATICS TRUST

REPORT OF THE TRUSTEES

There is to be a major change next year which has been exercising the subtrust: the source of the IIMC in Canada will be stopped and so JOS is undertaking the production of a replacement competition. This will additionally involve an expansion of the UKMT involvement with the Kangourou des Mathématiques organisation.

The European Kangaroo

As noted above, the numbers invited to participate in the European Kangaroo competition was greatly increased. This proved to be successful. All competitors were given a special ruler and the prize winners received a copy of "Mathematical Challenges IV". Contact with the Kangourou des Mathématiques organisation remains healthy. Internationally, the Kangourou competitions continue to expand both in terms of the number of countries involved and in terms of the number of pupils taking part. There are a growing number of Kangourou related activities around Europe. One of our members, Andrew Jobbings, attended a Kangourou meeting in Sinaia, Romania in November 2001.

The IIMC

Once again the Canadian papers (with only minor modifications) provided a good challenge for our candidates. The marks were very encouraging, with many candidates succeeding completely on at least one question. There were few who failed to reach double figures. There was a good spread of marks over the whole spectrum with a healthy number of candidates scoring 30 and above. Only the very best, however, managed to break the 40 barrier.

The team leaders and the marking teams did a very professional job at the marking weekend. The Maths Challenges Office provided effective administrative support by collating scripts, making arrangements for the marking weekend, handling enquiries, arranging printing of the solutions booklet and certificates, purchasing prizes, duplicating materials and posting scripts, prizes and results to schools. All scripts were returned to schools promptly and the summer school organisers were provided with a list of high scorers in the week following the marking weekend. The books used for prizes were "The Dictionary of Curious and Interesting Numbers" and "The Language of Mathematics".

The JMO

The event went smoothly. There were few requests for pupils to take part on a different date; all were refused. There was no evidence of clashes with the Common Entrance Exams. The marking weekend went well, with a good supply of markers. Overall, the paper was found to be a little harder than that of 2001, with scores on Section A still disappointing. The numbers of medals awarded was increased slightly this year. The book "Mathematical Puzzling" was sent to about fifty candidates.

SENIOR CHALLENGE SUBTRUST

The membership of the SCS is:

Mr W P Richardson (Mathematical Association, *Chair*)
Mrs P M King (*nee Smart*, Benenden School, Kent, *Secretary & Treasurer*)
Mr D F Archer (Bedales School, Petersfield)
Mr C Dixon (Royal Grammar School, Newcastle)

UNITED KINGDOM MATHEMATICS TRUST

REPORT OF THE TRUSTEES

The Senior Mathematical Challenge was held on Tuesday, 6 November 2001 and went well with no difficulties except for one reported case of pupils texting information between two schools which sat the paper at different times of the day. Some certificates were consequently withheld. Steps are being taken to minimise the chances of this happening again.

Once again, there was an increase in the entries and participation. Entry statistics are as follows (2000 figures in brackets):

Entries	53,810	(50,120)
Schools	1,393	(1,273)
Scripts received	38,487	(35,698)
Centres returning scripts	1,317	(1,194)

The Challenge was easier than in 2000 but still provided a worthwhile exercise. It is hoped that this standard will be maintained. Certificate boundaries for gold, silver and bronze were adjusted slightly to 81, 67, 56 (76, 63, 51) respectively.

As in 2000, there were very few requests to hold the event other than on the stipulated day. These were all refused. Moving the event forward so that BMO1 could be held before Christmas caused some problems as some schools were just returning from half term. This will be rectified in 2002.

The smooth running of the challenge is a tribute to the hard work of those involved – in particular to Howard Groves (Chair of the Problems Group) and to Rachel Airey and Jenny Foggin in the Maths Challenges Office.

BRITISH MATHEMATICAL OLYMPIAD SUBTRUST (BMOS)

The membership of the BMOS is:

Professor A C McBride (University of Strathclyde, *Chair*)
Mrs P M King (*nee Smart*, Benenden School, Kent, *Secretary*)
Dr A R Pears (formerly King's College, London, *Treasurer*)
Dr G C Smith (University of Bath)
Dr B J Wilson (Royal Holloway, University of London)

Geoff Smith replaced Dr I B Leader (Trinity College, Cambridge) on taking over as Leader of the UK IMO team.

The Royal Society generously hosted the celebration to honour the 2001 UK IMO team on 24 September 2001. Dr John Silvester (King's College, London) gave the 24th Annual IMO lecture entitled "Geometry – Ancient and Modern". The lecture and the tea which precedes it are attended by students and teachers from many schools and the event is intended to be an inspiration to younger students as well as to honour the achievements of members of the IMO team.

Round 1 of the British Mathematical Olympiad (BMO) took place on 5 December 2001 and was organised by Dr Alan West (formerly of the University of Leeds). Scripts were received from 879 students and these were marked over a weekend by a team of volunteers. The weekend was organised by Brian Wilson, assisted by Dr Christine Farmer (Royal Holloway, University of London). The paper proved to be of an acceptable standard with a number of high scores and most students making significant progress in at least one problem. As usual, 100 prizes were awarded.

UNITED KINGDOM MATHEMATICS TRUST

REPORT OF THE TRUSTEES

BMO Round 2 was held on 26 February 2002 and was organised by Brian Wilson. Roughly 100 students were invited to take part and scripts were marked by Geoff Smith and Mr Richard Atkins (Oundle School), the Deputy Leader of the UK IMO team, assisted by Ms Ceri Fiddes (University of Bath). A group of 20 students received an invitation to the Training Session held at Trinity College, Cambridge, from 4 to 7 April 2002, organised by Geoff Smith (academic) and Mr Adrian Sanders (domestic). The BMOS is again most grateful to Trinity College for their generosity in hosting the event.

In previous years, the selection of the students for the Trinity Training Session represented the first significant step in the process of forming a squad from which the UK IMO team would emerge. However, on taking over as Team Leader, Geoff Smith instituted a much more intensive training programme. This started with a camp for 15 students at the University of Bath in September 2001. Over the New Year period, a second camp was held in Budapest, at which the UK students trained alongside their Hungarian counterparts. All the while, there was a correspondence course in which the students had a regular diet of tough problems, often in the form of mock IMO papers. Geoff Smith did the lion's share of the work, assisted by Richard Atkins. At the camps, valuable support was provided by Ceri Fiddes.

Following the Trinity Training Session, the squad was reduced to 9 students who embarked on more correspondence work. Further camps were held at Oundle School (end of May), Birmingham (in parallel with the Summer School) and Trinity College, Cambridge (immediately after Birmingham).

The 2002 UK IMO team consisted of

Timothy Austin	(Colchester Royal Grammar School)
Nathan Bowler	(Knutsford High School)
Tom Coker	(King's School, Chester)
Jenny Gardner	(Tiffin Girls' School, Kingston-upon-Thames)
Paul Jefferys	(Berkhamsted Collegiate School)
Gavin Johnstone	(Dame Alice Owen's School, Potters Bar).

The non-travelling reserves were

Bryn Garrod	(King Edward VI Camp Hill School for Boys, Birmingham)
Martin Orr	(Methodist College, Belfast).

Paul Jefferys and Tim Austin won Silver Medals, while Tom Coker and Jenny Gardner won Bronze Medals. Although the IMO is an individual event rather than a team competition, the total of the scores of the six members put the UK team in 27th place out of 84 countries.

IMO 2002 was rather unusual in that it was held in the UK for only the second time ever, being based in Glasgow. Past and present members of the British Mathematical Olympiad Committee were in charge of all aspects of the academic organisation. Adam McBride was the Academic Director and Chairman of the Jury, while Imre Leader was Convener of the Problem Selection Committee as well as the Chief Co-ordinator. The team of 48 Co-ordinators contained many members of recent UK IMO teams. Thanks to teamwork of the very highest standard, the academic side of IMO 2002 was a triumphant success.

Dr Ben Meisner (Oundle School) again edited the annual booklet of BMO problems and solutions. The booklet is much appreciated, not least by colleagues from other countries to whom copies are presented at the IMO.

Once again, the BMOS was responsible for running the National Mathematics Summer School at Queen's College, Birmingham, during the period 1-5 July 2002. A team of 10 staff provided a varied programme of masterclasses, small-group sessions, competitions and social events.

UNITED KINGDOM MATHEMATICS TRUST

REPORT OF THE TRUSTEES

The Advanced and Senior mentoring schemes introduced last year continued to operate with Mr Alex Barnard (Princeton University) and Dr Gerry Leversha (St Paul's School) as the respective co-ordinators.

The BMOS remains concerned about the small number of girls progressing through BMO events. Consideration is being given to ways of assisting female students and of providing support and encouragement to students in state maintained schools. It is hoped that the mentoring schemes mentioned above will prove successful in this respect.

EXECUTIVE DIRECTOR'S REPORT

In the year ended July 2002 the numbers of pupils and schools participating in the Maths Challenges rose again to a total of almost 493,000 entries from 3,629 schools. This represents a 16% increase in the number of entries, with 391 schools taking part in the Challenges for the first time. It is one of the Trust's goals to have all UK secondary schools taking part in the competitions and, although we have still far to go, progress so far has been satisfactory, particularly given the distraction of the IMO in the year under review.

The Trust also ran three teacher meetings during the year, in London, Belfast and Nottingham. Entitled "Enriching Mathematical Thinking", the meetings attracted over 400 attendees in total and feedback from the participants was very positive. The UKMT is very grateful to Legal & General for its support of these events.

THE CHAIRMAN'S REPORT ON THE INTERNATIONAL MATHEMATICAL OLYMPIAD 2002

Towards the end of the 43rd IMO, held in Glasgow from 19 to 30 July 2002, two of the overseas team leaders independently said to me "This has been the best IMO I can remember". Ever since it was begun in 1959 in Romania the IMO has been growing and ours was the largest ever with 484 registered contestants (of whom 479 sat the examinations) from 84 countries.

An IMO is an extraordinary event. In one sense it is an academic conference. But it is far from being just another academic conference. For one thing, the majority of members are young people, and the whole focus of the event must be those young people. For another, they come with their leaders and deputy leaders from countries all over the world, a cross-section of the United Nations. Then again, it begins not as one conference but as two. It is customary to minimise the risk of breaches of security—the leaders have full knowledge of the content of the examination papers several days before the examination—by keeping leaders and teams apart. The leaders therefore began their UK visit in "Brigadoon", a carefully selected secret location (Dunblane, as can now be revealed) and it was not until the contest was well under way on its second day that the leaders were permitted to move to the main site in Glasgow.

In order that the benefits of IMO 2002 should not be restricted to the few, UKMT Council had decided that there should be an outreach programme associated with it. This took the form of "Enterprising Maths in the UK", a team competition for younger schoolchildren (Years 8 & 9 in England and Wales, and their equivalents in Scotland and Northern Ireland), sponsored jointly by Standard Life and the UKMT. Over 900 schools entered round one, which was held within the schools. This was followed by a series of 18 Regional finals held across the UK. The national final took place at the IMO in Glasgow on 29 July in the presence of HRH The Princess Royal. As is described in my Chairman's report (page 9), we owe warm thanks and congratulations to Angela Gould, to Mary Teresa Fyfe, and to all their associates who made a great success of this project.

How can one measure success of such an event as the IMO? First and foremost must be that objectives were met. The IMO took place, the contestants were offered high quality papers, and their scripts were marked in the time available. Furthermore, the students enjoyed a great variety of excursions to various parts of the country and other social occasions at which they could meet and mingle and learn at least something of each others' cultures and of the culture of the UK.

UNITED KINGDOM MATHEMATICS TRUST

REPORT OF THE TRUSTEES

Imre Leader was chairman of the Problems group which selected a short-list of 27 from the problems that had been offered by competing nations. Adam McBride, indefatigably assisted by Bill Richardson, was Chairman of the Jury, a UN-like body consisting of all the team leaders, one from each of the 84 countries, charged with choosing six problems from the short-list to appear on the two 4½-hour examination papers (each with three questions), and having ultimate authority over the whole contest. The scripts are marked by the leaders and deputy leaders who, however, have to agree the marks with the so-called “coordinators”. Imre Leader, as Chief Coordinator, had put together a star-studded team, and, not surprisingly, coordination went as smoothly as such an operation can be expected to. There has been nothing but praise for the work of the Problems Committee, the Jury and the coordinators, and we congratulate Adam McBride, Bill Richardson, Imre Leader and all their colleagues, too numerous to be named here, on the academic success of the IMO.

That the IMO took place at all is a huge measure of success. After the original host country pulled out in 1999 it was organised with a significantly shorter lead-time than most countries require. Moreover, it was created on a significantly smaller (perhaps, one might argue, more realistic) budget than recent Olympiads—indeed, at approximately three-quarters of a million pounds, it cost hardly more than one-third of what its predecessor in the USA cost. Early in April 2001 the venue had been decided, but little progress had been made with fund-raising. At that point UKMT Council re-organised the committee that had responsibility for making IMO 2002 happen. Robert Smart kindly agreed to join and lead the team charged with fund-raising and with the logistical side of what was needed for the event. Angela Gould was seconded (part-time at first, full-time for the last three months) by UKMT. Robert Smart recruited Andrew Chandler to be Finance Director. In October 2001, at the request of UKMT Council, a separate company called IMO 2002 Limited was formed. Until December 2001 it was not known whether or not IMO 2002 could take place. At that point a generous Government grant was announced, adequate funding was in place, and the decision to go ahead could be taken. Moreover, it was learned that the Princess Royal had kindly agreed to award the gold medals at the closing ceremony. This is not the place to list the huge amount of work that then had to be done to make the IMO happen and give it a chance to succeed. Domestic arrangements had to be finalised, guides and invigilators had to be recruited and trained, excursions and other events had to be organised, the opening and closing ceremonies had to be minutely planned, legal and insurance problems had to be solved—in short, IMO 2002 had to be organised.

We owe the existence and the success of IMO 2002 (“the best IMO I can remember”) to very many people. We owe it to the generosity of the sponsors who paid for it. We owe it to the generosity of the very many people who offered their time and expertise freely. We owe it to the academic team mentioned above: Adam McBride, Bill Richardson, Imre Leader and all their colleagues. But above all we owe it to Angela Gould, Andrew Chandler, and especially to Robert Smart. It is a great pleasure to be able to record very warm thanks and congratulations to all who contributed, and especially to those three.

UNITED KINGDOM MATHEMATICS TRUST

REPORT OF THE TRUSTEES

CHAIRMAN'S REPORT

The major item in the year's activities was the 43rd International Mathematical Olympiad, held in Glasgow in July 2002. It is covered in a separate section of this report and I shall not dwell on it here.

Although the work of the Trust in the year August 2001 to July 2002 has been overshadowed and distorted by the demands of IMO 2002, progress has been made. Our aim remains to reach one million entries a year for the Junior, Intermediate and Senior Challenges together. Growth of over 20% in the preceding year has been followed by growth of almost 17% this year. That is lower than we had hoped for, but creditable when measured against the distractions due to the IMO. The two years together show growth of 40% and numbers have now risen to almost 500,000 entries. I wrote last year of the challenges that the Trust faces in managing growth and change. Those remain. There is still a long way to go, but I am confident that the Trust can develop and progress much further.

For many years the International Intermediate Invitational Mathematical Challenge has been imported from Canada to serve as the olympiad-style follow-on competition at the intermediate level. We learned early in the year from our colleagues there that this year's IIIMC was to be the last. As a response the Junior Olympiad Subtrust has taken the decision to create a new olympiad-style paper. It will be used alongside an appropriate European Kangaroo paper and offered to those children who do outstandingly well in our UK Intermediate Challenge. Andrew Jobbings has kindly agreed to lead the Problems Group for this venture and we look forward to the challenge of introducing a successful Intermediate Mathematical Olympiad paper next year.

The one-day teacher meetings which Angela Gould piloted in Greenwich and Leeds last year have been repeated this year in three venues and will become a regular feature of the Trust's work. At its meeting in August 2001 Council took a decision to develop another new initiative, namely school competitions. This was implemented on behalf of UKMT by IMO 2002 Limited as the outreach component of the 43rd IMO. It took the form of "Enterprising Maths in the UK", a school competition based on a model that has already been used in Scotland for well over a decade. Angela Gould set the project up and made most of the arrangements. Mary Teresa Fyfe was the academic genius who prepared the material and was a charismatic mistress of ceremonies at a number of the regional finals and at the national final. We warmly thank and congratulate them and all the members of their team who made this such an enjoyable and successful enterprise.

This report gives me a much-appreciated public opportunity to thank retiring contributors to the work of the Trust and to welcome new ones. First and foremost is the Royal Institution, which has not retired in the usual sense, but has ceased to be our Parent Body and has accepted an invitation to become instead Patron and Participating Body of UKMT. The Trust was founded in 1996 under its benevolent and much appreciated auspices—our foundation Articles specified the Ri as "Parent Body" of the UKMT with the right to appoint the Chairman and two other members of Council. This relationship was of great benefit to us in our early years. Council felt, however, that the Trust is now sufficiently mature, and has a sufficiently wide range of expertise and of advisers on which it can call, that it should take responsibility for electing its own Chairman in future. The Ri agreed, and thus the new arrangement was made. In the autumn of 2001 Imre Leader stepped down as BMO Subtrust representative on council. He had been the UK IMO team leader for three years and had taken his teams to Romania, the Republic of Korea and the USA. We offer our very warm thanks to him both for his work with the Olympians and for his contributions to Council. In his place we welcome Geoff Smith who was appointed by BMOS to be Imre's successor as UK IMO team leader and as representative on Council. We also welcome Nick Lord of Tonbridge School as a new member of Council, co-opted following his nomination as a candidate by the Mathematical Association. A different case is Patricia Smart, who has not left Council but, having been married in July, returns as Patricia King. We congratulate her and her husband warmly.

UNITED KINGDOM MATHEMATICS TRUST

REPORT OF THE TRUSTEES

In spite of the stresses and strains imposed on all who work in the general area of mathematics enrichment by the hosting of IMO 2002 by the UK, the Trust and its work are still developing at a great rate. For next year it is my great hope that UKMT will be able to put those stresses and strains behind it and get back to a semblance of normality so as to focus on the development of our core business and the maintenance of its quality. The object of the Trust as it is formulated in our Articles and rehearsed on page 1 above, to advance the education of children and young people in mathematics, is, as ever, our guiding principle. As I wrote last year, it is however also our inspiration.

FINANCIAL REVIEW

The Balance Sheet on page 16 indicates that at 31 July 2002 the net assets of the Trust were £83,639.

During the year the Trust fully honoured its commitment to support the 43rd International Mathematical Olympiad, which was held in the UK. The Trust also paid over to IMO 2002 Limited (the company established to run this Olympiad) the donations raised by the Trust in support of the Olympiad. There was therefore a substantial fall in the assets of the Trust.

The core business of the Trust, the running of the Mathematical Challenges, has continued to grow and to provide an increasing flow of income from entry fees and sale of papers.

The direct charitable expenditure includes grants, the costs of running the Challenges, the training for the national Olympiad team, and extending the scope of the Trust's activities.

The costs of administering and managing the charity (approximately £10,000) are very moderate for a volunteer-based and geographically scattered organisation, with several very active subgroups.

RESERVES POLICY

It is the policy of the Trust to hold reserves in its unrestricted funds, some of which may be designated for particular purposes. Some of these are held to protect the operations of the Trust from the effects of unforeseen disruption of the Challenges business; some to allow future development of the Trust's work.

During the year under review, the large reserve held for the support of the 43rd International Olympiad was used. The trustees are now actively considering their future reserves policy.

RISKS

The trustees are actively reviewing the major risks which the Trust faces. In particular they are considering the level of reserves which are necessary to provide sufficient resources in the adverse conditions in the medium term; the level of reserve held at present is sufficient for the immediate future. The trustees are taking steps to mitigate the risks inevitably involved in work with children. The trustees are also examining other operational and business risks which the Trust faces and confirm that they will establish systems to mitigate any significant risks.

TRUSTEES' RESPONSIBILITIES

Company and charity law require the trustees to prepare financial statements for each year which give a true and fair view of the state of affairs of the charitable company's financial activities during the year and of its financial position at the end of the year. In preparing those financial statements the trustees are required to:

- select suitable accounting policies and then apply them consistently
- make judgements and estimates that are reasonable and prudent
- prepare the financial statements on the going-concern basis unless it is inappropriate to presume that the charity will continue in operation.

UNITED KINGDOM MATHEMATICS TRUST

REPORT OF THE TRUSTEES

The trustees are responsible for keeping proper accounting records which disclose with reasonable accuracy the financial position of the charitable company and which enable them to ascertain the financial position of the charitable company and to ensure that the financial statements comply with the Companies Act 1985 and relevant charities regulations. They are also responsible for safeguarding the assets of the charitable company and for taking reasonable steps for the prevention and detection of fraud and other irregularities.

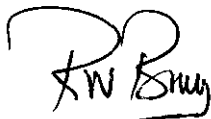
SMALL COMPANY EXEMPTION

Advantage has been taken of the exemption for smaller charities conferred by the Statement of Recommended Practice: Accounting by Charities (SORP 2000) to prepare this report in accordance with the special provisions of Part VII of the Companies Act 1985 relating to small companies.

AUDITORS

Grant Thornton offer themselves for reappointment as auditors in accordance with Section 385 of the Companies Act 1985.

BY ORDER OF THE BOARD



Dr R W Bray
Trustee
31 March 2003

REPORT OF THE AUDITORS TO THE MEMBERS OF UNITED KINGDOM MATHEMATICS TRUST

We have audited the financial statements of the United Kingdom Mathematics Trust for the year ended 31 July 2002 which comprise the principal accounting policies, the statement of financial activities, the balance sheet, and notes 1 to 13. These financial statements have been prepared in accordance with the FRSSE (Financial Reporting Standards for Smaller Entities) and under the aligning policies set out therein.

This report is made solely to the charity's members, as a body, in accordance with section 43 of the Charities Act 1993 and section 235 of the Companies Act 1985. Our audit work has been undertaken so that we might state to the charity's members those matters we are required to state to them in an auditor's report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the charity and the charity's members as a body, for our audit work, for this report, or for the opinions we have formed.

Respective responsibilities of trustees and auditors

As described on page 10 the trustees are responsible for preparing the Trustees' report and the financial statements in accordance with United Kingdom law and accounting standards.

We have been appointed as auditors under section 43 of the Charities Act 1993 and report in accordance with regulations made under section 44 of that Act. Our responsibility is to audit the financial statements in accordance with relevant legal and regulatory requirements and United Kingdom auditing standards.

We report to you our opinion as to whether the financial statements give a true and fair view and are properly prepared in accordance with the Companies Act 1985. We also report to you if, in our opinion, the Trustees' report is not consistent with the financial statements, if the charity has not kept proper accounting records, if we have not received all the information and explanations we require for our audit, or if information specified by law regarding trustees' remuneration and transactions with the charity is not disclosed.

We read other information contained in the Trustees' report, and consider whether it is consistent with the audited financial statements. We consider the implications for our report if we become aware of any apparent misstatements or material inconsistencies with the financial statements. Our responsibilities do not extend to any other information.

Basis of opinion

We conducted our audit in accordance with United Kingdom auditing standards issued by the Auditing Practices Board. An audit includes examination, on a test basis, of evidence relevant to the amounts and disclosures in the financial statements. It also includes an assessment of the significant estimates and judgements made by the trustees in the preparation of the financial statements, and of whether the accounting policies are appropriate to the charitable company's circumstances, consistently applied and adequately disclosed.

We planned and performed our audit so as to obtain all information and explanations which we considered necessary in order to provide us with sufficient evidence to give reasonable assurance that the financial statements are free from material misstatement, whether caused by fraud or other irregularity or error. In forming our opinion we also evaluated the overall adequacy of the presentation of information in the financial statements.

Opinion

In our opinion the financial statements give a true and fair view of the state of the charity's affairs as at 31 July 2002 and of its incoming resources and application of resources, including its income and expenditure, in the year then ended and have been properly prepared in accordance with special provisions of Part VII of the Companies Act 1985 relating to small companies and with the Financial Reporting Standard for Smaller Entities (effective June 2002).



**GRANT THORNTON
REGISTERED AUDITORS
CHARTERED ACCOUNTANTS**

OXFORD
31 March 2003

UNITED KINGDOM MATHEMATICS TRUST

PRINCIPAL ACCOUNTING POLICIES

BASIS OF PREPARATION

The financial statements have been prepared under the historical cost convention and in accordance with the Financial Reporting Standard for Smaller Entities (effective June 2002), and follow the recommendations in the Statement of Recommended Practice: Accounting by Charities (the SORP) issued in October 2000.

The principal accounting policies of the company have remained unchanged from the previous year and are set out below.

INCOME

Examination fees are accounted for on receipt. Income from sales of papers is accounted for when the charity becomes legally entitled to the income.

GRANTS RECEIVABLE/SPONSORING INCOME

Grants are credited as incoming resources when they are receivable provided conditions for receipt have been complied with, unless they relate to a specific future period, in which case they are deferred.

EXPENDITURE

Expenditure, which is charged on an accrual basis, is allocated between

- expenditure incurred to the fulfilment of the charity's objectives (charitable); and
- expenditure incurred which is not directly attributable to either of the above (management and administration).

FORMAT OF FINANCIAL STATEMENTS

The format of the financial statements has been adjusted from that prescribed by the Companies Act 1985 to include headings which are relevant to its activities in order to show a true and fair view.

DEPRECIATION

Depreciation is calculated to write down the cost or valuation less estimated residual value of all tangible fixed assets by equal annual instalments over their expected useful lives. The periods generally applicable are:

Furniture, fixtures and equipment	3 years
-----------------------------------	---------

All fixed asset purchases are used for direct charitable purposes.

UNITED KINGDOM MATHEMATICS TRUST

STATEMENT OF FINANCIAL ACTIVITIES

For the year ended 31 July 2002

	Note	Restricted Funds £	Unrestricted Funds £	2002 Total £	2001 £
Income and expenditure					
Incoming resources					
Grants and donations		24,095	21,425	45,520	26,502
Interest receivable	2	-	4,222	4,222	11,697
Examination entry fees and related income		-	295,892	295,892	266,742
Summer school fees		-	2,960	2,960	3,200
Sale of papers		-	16,689	16,689	-
Total incoming resources	1+9	<u>24,095</u>	<u>341,188</u>	<u>365,283</u>	<u>308,141</u>
Resources expended					
Direct charitable expenditure	3	28,195	432,198	460,393	328,876
Management and administration of the charity	4	-	9,885	9,885	13,540
Total resources expended		<u>28,195</u>	<u>442,083</u>	<u>470,278</u>	<u>342,416</u>
Net outgoing resources and net movement in funds for the year		(4,100)	(100,895)	(104,995)	(34,275)
Funds balances brought forward at 1 August 2001		<u>4,100</u>	<u>184,534</u>	<u>188,634</u>	<u>222,909</u>
Funds balances carried forward at 31 July 2002		<u>-</u>	<u>83,639</u>	<u>83,639</u>	<u>188,634</u>

All amounts relate to continuing activities.

All recognised gains and losses are included in the statement of financial activities.

There were no movements in funds other than the net outgoing resources for the year.

The accompanying accounting policies and notes form an integral part of these financial statements.

UNITED KINGDOM MATHEMATICS TRUST

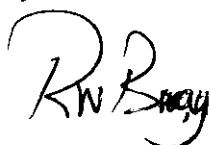
BALANCE SHEET AT 31 JULY 2002

	Note	£	2002 £	£	2001 £
Fixed assets					
Tangible assets	6		17,146		3,437
Current assets					
Debtors	7	20,941		12,054	
Cash at bank and in hand		<u>70,126</u>		<u>198,513</u>	
		91,067		210,567	
Creditors: amounts falling due within one year	8	<u>24,574</u>		<u>25,370</u>	
Net current assets			<u>66,493</u>		<u>185,197</u>
Total assets less current liabilities			<u>83,639</u>		<u>188,634</u>
Income funds					
Unrestricted funds			83,639		184,534
Restricted funds			<u>-</u>		<u>4,100</u>
			<u>83,639</u>		<u>188,634</u>

These financial statements have been prepared in accordance with the special provisions of Part VII of the Companies Act 1985 relating to small companies and with the Financial Reporting Standard for Smaller Entities (effective June 2002).

The financial statements were approved by the trustees on 31 March 2003.

Dr R W Bray Trustee



The accompanying accounting policies and notes form an integral part of these financial statements.

UNITED KINGDOM MATHEMATICS TRUST

NOTES TO THE REPORT AND FINANCIAL STATEMENTS

For the year ended 31 July 2002

1 INCOMING RESOURCES

Examination entry fees

This income arises from the entry fees paid by Schools for students participating in the challenges run by the Trust.

Sales of papers

This income arises from the sale of past papers and other materials (including the Year Book) in connection with the challenges run by the Trust.

2 INVESTMENT INCOME

Investment income comprises income from:

	2002 £	2001 £
Bank deposits	4,222	11,697

3 DIRECT CHARITABLE EXPENSES

	Restricted Funds £	Unrestricted Funds £	2002 Total £	2001 Total £
Gross payable to institutions (see below)	-	1,700	1,700	700
IMO 2002	13,000	64,323	77,323	12,327
Printing and stationery	-	92,611	92,611	75,475
Postage and telephone	-	53,519	53,519	37,129
Administrator's salary and assistants' fees	-	65,789	65,789	61,116
Executive Director's salary	-	50,109	50,109	50,451
Social security	-	21,647	21,647	5,111
Pension	-	4,261	4,261	4,500
Markers' fees and prizes	-	6,861	6,861	6,487
Training weekends and regional circles	-	1,317	1,317	424
Travel and accommodation	15,195	19,230	34,425	26,076
Summer school costs	-	9,455	9,455	8,815
Rent	-	6,883	6,883	0
Depreciation	-	6,698	6,698	2,072
Other direct costs	-	27,795	27,795	38,193
	28,195	432,198	460,393	328,876

Grants paid in the year were £700 (2001: £700) to the World Federation of National Mathematics Contests and £1000 (2001: £nil) to the Scottish Mathematical Council and £90,000 (2001: £nil) to the IMO 2002 Limited in support of the 43rd International Mathematical Olympiad held in Glasgow in 2002.

UNITED KINGDOM MATHEMATICS TRUST

NOTES TO THE REPORT AND FINANCIAL STATEMENTS

For the year ended 31 July 2002

4 MANAGEMENT AND ADMINISTRATION OF THE CHARITY

	Restricted Funds £	Unrestricted Funds £	2002 Total £	2001 Total £
Legal	-	79	79	549
Audit costs	-	3,496	3,496	3,496
Accountancy fees	-	675	675	588
Cost of meetings	-	5,635	5,635	8,907
	-	9,885	9,885	13,540

5 STAFF COSTS

	2002 £	2001 £
Salaries	115,898	111,567
Social security costs	21,647	5,111
Pension contributions	4,261	4,500
	141,806	121,178

Administrators and clerical assistants of the Junior and Intermediate Challenges equate to approximately 3 full time employees (2001: 3) and are employed by the University of Leeds. Their costs are recharged to the Trust. The Trust does not operate its own pension fund.

During the year the executive director received £50,109 (2001: £50,451).

6 TANGIBLE FIXED ASSETS

	Fixtures Fittings & Equipment £
Cost	
At 1 August 2001	24,594
Additions	20,407
	<u>45,001</u>
At 31 July 2002	
Depreciation	
At 1 August 2001	21,157
Provided in the year	6,698
	<u>27,855</u>
At 31 July 2002	
Net book amount at 31 July 2002	<u>17,146</u>
Net book amount at 1 August 2001	<u>3,437</u>

UNITED KINGDOM MATHEMATICS TRUST

NOTES TO THE REPORT AND FINANCIAL STATEMENTS

For the year ended 31 July 2002

7 DEBTORS

	2002 £	2001 £
Prepayments and accrued income	190	854
Grant receivable	20,751	11,200
	<u>20,941</u>	<u>12,054</u>

8 CREDITORS: AMOUNTS FALLING DUE WITHIN ONE YEAR

	2002 £	2001 £
Accruals	24,574	20,643
Other creditors	-	4,727
	<u>24,574</u>	<u>25,370</u>

9 RESTRICTED FUNDS

The terms of certain grants and donations received during the year restricted the way in which the income could be used. The amounts involved were given to be used for the following purposes:

	2002 £	2001 £
Monies raised towards IMO 2002	8,900	4,100
School donations towards work of BMOC	9,195	9,000
Grant sponsorship for teachers meetings	-	6,000
IMO 2002 Limited towards BMOC	<u>6,000</u>	<u>-</u>

All restricted funds have been used during the period in line with the restriction imposed.

10 TAXATION

The charity is a registered charity and therefore entitled to exemption from United Kingdom Income and Corporation Tax in accordance with section 505 ICTA 1988.

11 TRUSTEES' EXPENSES

During the year, fifteen trustees (2001: seventeen) were reimbursed from charity funds for expenses incurred by them for work performed on behalf of the charity.

The total amount reimbursed was £14,124 (2001: £14,826), and related to travel, printing, postage, telephone expenses and marking costs.

UNITED KINGDOM MATHEMATICS TRUST

NOTES TO THE REPORT AND FINANCIAL STATEMENTS

For the year ended 31 July 2002

12 RIGHTS OF MEMBERS

The Trust is a company limited by guarantee. Each member undertakes to contribute such amounts as may be required (not exceeding £1) to the assets of the Trust if it is wound up while he is a member, or within one year after he ceases to be a member, for the payment of its debts and liabilities.

The income and property of the Trust must be solely towards the promotion of its objects and no amount can be paid to any member by way of dividend or other share of profit. In the event of the Trust being wound up with a surplus, that surplus must be transferred to another charitable body with similar objects.

Because of the restrictions on the distribution of surpluses, there are no equity interests in the Trust's reserves.

13 CAPITAL COMMITMENTS

The charity did not have any capital commitments at 31 July 2002. In the prior year the trustees agreed to contribute £100,000 towards the cost of the 43rd International Mathematics Olympiad held in the UK in 2002.