

Fellows' Evening 2004

The 8th Annual BCS Fellows' Evening took place at the Royal Geographical Society (with IBG), on Tuesday 10th February. Over thirty Fellows and guests enjoyed a drinks reception where many old acquaintances were renewed. The evening's talk by our guest speaker Robin Waters BA, MSc FRICS, MBCS was given in the former RGS Map Room, which is now after extensive renovations, the RGS Education Centre. Robin, a long standing member of the Society, describes himself as a cartophile. His early career was as a surveyor with the Directorate of Overseas Survey (DOS). In the late '70s, he was posted to the Ordnance Survey (OS) Development Branch to pioneer digital map production. In the early '80s he resigned from DOS and he has worked in the private sector since then.

After his introduction by Mick Ashworth, BCS President, Robin outlined his research for the RICS which resulted in the report *Getting it together - the geography jigsaw*. Drawing on examples from his vast experience, he outlined what he hoped would be the outcome of the report – the development of sustainable partnerships for mapping and spatial data infrastructure (SDI).

Twenty years ago large bi-lateral aid packages were churning out maps for the developing world. Today we have dramatic improvements in the quantity of raw data available as well as sophisticated methods for handling data and interpretation. But today if you ask for an up to date map of a Caribbean island you may get a tourist map, or an aerial photo mosaic. Ask for a map with settlement names, road numbers and administrative boundaries and you will most likely get, at best, a photocopy of a 20 year old map with no updates. Many organisations buy aerial and satellite imagery, use it once and throw it away. Often local civil administrations cannot afford this imagery.

The research took as its starting point that many countries lack basic up to date mapping.



Robin and Mick

Many governments and multilateral agencies provide development funds, but basic mapping infrastructure has not attracted an adequate level of funding. Requirements are not always simple; solutions must always address the sustainability of the mapping or spatial data infrastructure. Maps and map-based services are recognised as fundamental building blocks of the sustainability agenda promoted by the UN, the World Bank and others.

What were the report's main recommendations? The need to increase awareness of the cross-disciplinary benefits of mapping/SDI to governments and funding agencies. The need effectively to present mapping/SDI benefits to other disciplines. The need to identify gaps in support offerings – particularly with regard to the specification of useful cross disciplinary programmes and products. The demand for 'coaching' (not just training) of local professionals and departments in cost effective methodologies and procurement processes. The need to spread best practice – particularly from similar scenarios.

Robin finished his talk by illustrating some of the problems of 'getting it together' by

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Editorial

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edition is
Tuesday 8th June

Our second issue already! How time flies. We would like to thank everyone who has helped us get these first two issues together. If you have any comments or suggestions or would like to write a letter please get in touch. Our contact details are in the margin.

Thank you too to everyone who entered the quiz from the December issue. We were pleased to see so many entries and most 100% correct too. There is chance for you to get your atlases out again for the new quiz so make sure that you send your entry in.

We are very pleased to have in this issue, a report from Mike Shand on his research to locate the grave of the Scottish cartographer Keith Johnston Jr. If, once you have read about Mike's research you would like to know more more about Keith Johnston Jr, try the newly published book *Journey into Africa: The Life and Death of Keith Johnston, Scottish Cartographer and Explorer (1844-79)* by James McCarthy, published by Whittles

The comments in Maplines are those of the Editors and Contributors and not necessarily those of the BCS.

Administrative Consultancy

Tenders are invited for the contract of Administrative Consultant to the British Cartographic Society, due for renewal on the 12th September 2004.

Brief job specification:

To give advice and assistance to the Society with its day-to-day administration, including:

- Contact for all enquiries to the Society.
- Society accounts and monitoring against budget.
- Society membership matters.
- Answering e-mail and other correspondence.
- Distribution of Society publications.
- Services to Members including merchandising.
- General secretarial and administrative support to Committees and Groups.
- General advice and assistance in any matter relating to Society affairs.

Publishing ISBN 1-904445-01-2 at £35.00

Please look out for your Durham Symposium information pack when it arrives in May and make sure you book early, sounds like it is going to be very interesting. Meanwhile *IMTA Tours* was very successful, find out all the details in Susie's report on pages 6 and 7. We also have an update on the December 1998 front page article on the World War II photographs stored at Keele University. We are pleased to be able to report significant progress has been made since then.

Finally a request, do you know details of maps on interesting materials such as silk, or that were hidden, like those in pencils or under the boards of Monopoly games? If you do the Editors would like to hear from you.

Enjoy your summer, we will be back again in August.

Lynda, Sheena and Martin

This is a fixed price one-year contract for £10,000 plus expenses. The successful candidate is expected to be UK based and accessible to the Society for at least half of the working day. The workload varies and there are periods in the year when long hours are necessary. Deadlines must be met and all other work completed within a reasonable time.

For further details and a tender form please apply to:

Hon. Secretary,
Miss Cathy Tunks,
29 Gillards,
Bishops Hull,
Taunton,
Somerset,
TA1 5HH.

Closing date for tenders:
Saturday, 4th September 2004.

Visit the BCS website at www.cartography.org.uk

Message from Mick

I think true cooperation in any field or activity is an art. Although all our instincts may tell us that we should cooperate with this individual, or with that organisation, we can often find it very difficult to achieve. I'm not sure why it is so hard sometimes to recognise the unique skills, qualifications or resources of others and then even more difficult to accept the need to work together, pooling skills, resources or whatever, to achieve the best results. Although the world of cartography is not one of the main culprits in this, it is certainly not immune from this 'syndrome'. This much was clear from the talk given by Robin Waters, a prominent geoinformation consultant, at the recent BCS Fellows' Evening held at the Royal Geographical Society.



Robin is one of the authors of a significant report compiled recently on behalf of the Geomatics Faculty of the Royal Institution of Chartered Surveyors (RICS): *Getting it together – the geography jigsaw*. His talk focussed on this report, but also brought a very personal view to the issues facing the world of geographic information. That organisations have failed, and continue to fail to cooperate is beyond doubt, and the report is hopefully a significant first step in establishing sustainable partnerships for the mutual benefit of many. Robin is well placed to speak on such a subject, and his experience in many countries, including work for the former Directorate of Overseas Surveys (DOS) provides him with many examples of failures of organisations to 'get it together'. It has often struck me as very sad that the most recent topographic maps of many African countries, for example, are those produced 20 or more years ago by DOS – that the fantastic work done in mapping such countries and establishing a mapping base for economic development, has not been sustained. Robin's research found this to be a common occurrence.

Whilst this could be taken as very discouraging, I came away from the talk enormously encouraged. After all, the *World*

Summit on Sustainable Development in Johannesburg in 2002 clearly recognised mapping and the idea of a 'Spatial Data Infrastructure (SDI)' – that is, everything necessary to promote the sharing of geospatial data through all sectors and at all levels – as significant elements in making the world more sustainable. It was also clearly evident to me that cartography does have a unique role to play in this. Whatever geographical information is used for we can make sure it is used and presented in the best possible way. So often it is the end-result, the map output, the visualisation, call it what you will, which is the crucial element in getting a message across or in getting a project off the

ground. If we can bring our unique skills to such situations and learn to fully cooperate with other areas of the business then we will continue to play a crucial, and long lasting role.

On a smaller scale, the area of cooperation is inherent in the current BCS strategy. We need to work with others to promote our business and we are constantly looking for new areas of common interest with such organisations as AGI, SoC, RGS, etc. The implementation of our key strategic aims is a great challenge. We are always so dependent upon volunteers to carry out the work of the Society, but there is a limit to what voluntary work can accomplish and I believe it is important to commit resources where possible, in areas we feel are a priority. I am pleased that our Council recently approved a proposal to use some of the surplus funds we have generated over the last two years to employ somebody to assist in carrying our strategy forward. I am hoping that by the time this issue of Maplines is published we will have appointed somebody into this role and I look forward to the development and achievement of many of our objectives. You will hear more about this in due course, but in the meantime I repeat my appeal for you too to get involved – if there is anything you want to see happening, or that you see yourself doing for the Society, please don't hesitate to contact me.

Mick Ashworth
BCS President

So often it is the end-result, the map output, the visualisation, call it what you will, which is the crucial element in getting a message across or in getting a project off the ground.

BCS Annual Awards

Those of you with good memories will realise that The Godfrey Award was held over from last year so please get your nominations in.

Now is the time to submit your best maps and atlases to one of the awards presented annually by the BCS. Each of the five awards has different criteria and any product must have been produced during 2003.

The BCS Design Award – for the most outstanding map produced by a member of the society. Deadline 11th May 2004.

John Bartholomew Award – For originality and excellence in the field of small-scale thematic (non-topographic, 1:1,000,000 or smaller scale) cartography. Open to non-members of the society. Deadline 11th May 2004.

Ordinance Survey Award – For innovation in design and presentation of spatial information with an emphasis on creativity in any form of cartography. Open to all map makers. Deadline 11th May 2004.

There are two awards to acclaim outstanding work by students.

Reader's Digest Award – the details for this are still to be finalised, please check the website for details.

National Geographic Society Award – Awarded to a student who has demonstrated an outstanding achievement in cartography and its applications. Deadline 28th July 2004

The Henry Johns Award – Awarded to the author of the most outstanding article published in the Cartographic Journal.

The Godfrey Award – Awarded to a librarian who has furthered the use, appreciation and understanding of maps in an exceptional way. Details of how to nominate a librarian are on the society website.

All details and submission forms can be found at www.cartography.org.uk. The rules for some of the awards have changed recently so do remember to read carefully. The website also includes details of past winners.

Letters

The Editors have found it necessary to cut the length of these letters due to space considerations. Please contact us if you wish to read the originals.

I recently took a moment to reflect on the cartography award that the National Geographic Society sponsors through the British Cartographic Society and realized that ten years had passed since we introduced this award. It has been a wonderful time for me, making friendships across the big pond while providing money and recognition to students studying cartography – the future of the discipline. Barbara Bond, Christopher Board, and others provided encouragement and helpful insight in the initial year of this award.

Cartography has certainly changed over the last ten years, but students still need the recognition that honours their achievements and helps them with their future. I am pleased that our two societies have worked together so successfully to provide this award. I would take this opportunity to encourage all cartography students, to apply for this award. The most recent winner, Esme Farewell, along with her mapping project, can be found at www.nationalgeographic.com/maps/caward/ (this links to the BCS website). My appreciation for British cartography grows each year, and I look forward to seeing many more student entries.

David Miller
National Geographic Maps

I know from previous conversations and discussions with some of my fellow members of BCS and SoC, there are some who feel that both societies should join together and form a new cartographic society. The theory being forwarded by those in favour seems to me to be that "bigger is better" more influential, perhaps. Yet if we look at both societies, each society is special, meeting the interests and needs of its members. I speak as one of some experience of both societies, having been a founder member of BCS in 1963 and a founder member of SoC in 1964. I have been an active member of both Societies ever since serving on BCS Council and as Chairman of SoC.

I have spent a lifetime working in cartography; my interest has never waned. There is diversity and a degree of overlap in each society, which I certainly feel may be lost in the event that small societies for the promotion and study of maps should somehow be amalgamated to form one larger all embracing society. So let us consider carefully the proposals for a joint SoC and BCS as was suggested at our joint meeting at Reading University in September 2003. Remember bigger is not always better!

Carson Clark

Visit the BCS website at www.cartography.org.uk

Mary Spence and Peter Jolly

As many of you will already know Mary Spence was awarded the MBE in the 2004 New Year's Honours list for Services to Cartographic Design. Mary was included in the Independent on Sunday list of



Mary Spence

the top ten cartographers in Britain in 2003 and currently works as Project Manager of Global Mapping (Brackley) as well as holding a number of consultancy positions. Mary is, amongst other things, a Fellow and Council member of BCS.

Peter Jolly has been appointed to the position of International President for the International Map Trade Association (IMTA). He is the first person from outside the United States to have

held the role. Peter, who is employed by ESRI Inc, but is based at ESRI (UK)'s headquarters in Aylesbury, Bucks, joined the IMTA in 1995. In 2000, he became a board member for the Europe, Africa and the Middle East region (EAME) and in 2002 he took on the role of EAME Region President.



Peter Jolly

In his new role he will chair the International Board meeting that takes place twice a year and plans to continue the IMTA's strategy of recruiting members with a wide range of business interests in the global mapping industry map technology.

Congratulations to two BCS members who have recently been recognised for their cartographic work.

Durham Symposium 2004



All are welcome to the historic city of Durham, a World Heritage Site and home to Britain's

favourite building, the awe-inspiring Cathedral ('half church of God, half castle 'gainst the Scot' – Sir Walter Scott; 'the best Cathedral on the planet Earth' – Bill Bryson).



Durham Cathedral and Castle

We meet in Collingwood College, a modern part of the University of Durham, for our usual long weekend of social, excursion and lecture-room based activities. The Department of Geography is our host and the Programme Committee has put together a stimulating, educational and lively long weekend covering a wide range of cartographic interests.

The content of the formal lecture sessions will

cover areas such as Children and Cartography, Mapping Boundaries, Map Generalisation, Education in Cartography, Historical Military Mapping, Contemporary Military Mapping, BCS Strategy.

The Map Curators Group will offer its usual workshop format concentrating on the theme of Acquisition, and with two possible excursions. The workshop will take place on Thursday 9th and Friday 10th September, with the Symposium starting on Friday 10th until Sunday 12th September. The Exhibition, Annual Dinner, Quiz and Ceilidh will, I am sure, contribute to the vibrant and enjoyable mixture of events.

BCS members will receive a brochure and booking form in the post in early May. Non-members are welcome to attend also; up-to-date information can be found on the Society's web pages at www.cartography.org.uk/Pages/Latest/SympDurh

We look forward to welcoming you to North East England in September at the 41st Annual Symposium, University of Durham 9-12 September 2004

David Fairbairn

*'half church of God, half castle 'gainst the Scot' – Sir Walter Scott
'the best Cathedral on the planet Earth'
– Bill Bryson*

IMTA EAME Annual Conference

BCS teamed up with the AGI to share a stand and this partnership proved to be very beneficial for both organisations

...a civic reception at the Hotel D'Ville, where we were welcomed to Tours on behalf of the Mayor...

...cafe area, with the most stunning views. This year also saw the best ever exhibition staff uniforms, which included pashminas for the ladies.



The 2004 IMTA (International Map Traders Association) EAME (Europe, Africa and the Middle East) Annual Conference and Trade Show was held at the Centre International de Congrès, in Tours, France. The venue offered a contemporary setting for the Exhibition, and all of those in attendance were impressed by the organisation and planning of the trade show. As with previous years there were a large number of BCS Corporate Members exhibiting and it was delightful to see the high quality and range of displays within the Exhibition. This year the BCS teamed up with the AGI to share a stand, a partnership which proved to be very beneficial for both organisations. We look forward to similar co-ventures at future events.

For those arriving prior to the start of the conference there was a tour of the local Châteaux on the Wednesday afternoon. Thursday, 26th February saw the beginning of the official programme with the Opening Address by the IMTA International President, Peter Jolly, followed by the Keynote Address: *Cartography is Forever!* by Dr Mike Wood. The remainder of the programme involved a wide range of speakers, from presentations on using spatial information in the Emergency Services to new developments at the Institut Géographique National, France. Outside of the auditorium, in the main exhibition space, delegates were involved in the setting up of the exhibition stands (with a few loose ends tidied up the following morning). Thursday evening began with a civic reception at the Hotel D'Ville, where we were welcomed to Tours on behalf of the Mayor as everyone enjoyed a drink or two in the very grand surroundings of the Town Hall.

Friday 27th saw the first of a steady stream of visitors to the exhibition. They, along with the exhibitors and guests, maximised the available opportunities to discuss their map related business, both within the exhibition and also in the 'flight-deck' or cafe area, with the most stunning views. This year also saw the best ever exhibition staff uniforms, which included pashminas for the ladies. At the AGM on Friday afternoon Mike and Sue Cranidge were presented with gifts of appreciation for their work with IMTA. This is the last year that Mike will hold the post of EAME Executive Director and many thanks go to both himself

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and Trade Show February 2004

and Sue for all of their efforts over the years.

Over the three days a number of presentations, seminars and workshops were given as part of the conference programme. These were well received by those attending and covered a diverse range of subjects:

- *Map Distribution: a French Perspective*, Marc Levy – Cartothèque, France;
- *Fire Mapping: Protecting Lives and Property using Spatial Information*, Greg Baker and Lynnette Terrett – RapidMap, Australia;
- *Map Machine: A New Retail and Distribution Solution*, Dan Ortiz – National Geographic Maps, USA;
- *A Journey of a Thousand Miles Begins with a Single Ste*, Ray Wilkinson – MapIT, South Africa;
- *Want More Customers? Try the Library!*, April Carlucci – British Library, UK;
- *Government Agencies Forum*, Moderator: Karen McGrath – Ordnance Survey, UK;
- *ESRI Workshop – ArcGIS*, Tutor: Jamie Parrish – ESRI Inc., USA;
- *Copyright Forum*, Moderator: Lisa Boyd – Legal Advisor, Ordnance Survey, UK;
- *CPS NG – The Solution for Production of Geographic/Cartographic Information* Fredrik Davidsson – T-Kartor, Sweden;
- *Avenza Systems Workshop – MAPublisher*, Tutor: Dr Tim Rideout – XYZ Digital Map Co.;
- *Retailers Forum*, Moderator: Andrew Stead – Stanfords, London, UK.

The conference was not only a commercial success, but as with such occasions involving a gathering of cartographically related people, a social one as well. From the initiation of the *Extreme Trousers Society* to the beautiful old town of Tours, with its myriad of restaurants and cafés, a very enjoyable time was had by all, including Bob.

On Friday evening everyone gathered together at the exhibition venue for a *Welcome to Touraine* evening and EAME Awards Ceremony, hosted by Cartothèque. Here, the conference Best Map Competition awards were presented. Amongst the winners were a number of BCS corporate members including Cosmographics, who won the first prize in the Folded Map category for their London map and Lovell Johns/Maps International, who won first prize in the Best Atlas category,

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and the CHK Cup and Best Map Winner for their *Millennium Atlas*.

The Saturday evening involved a coach trip to La Cave Paincte, beneath the Chinon Château. After an entertaining welcome to the location and an introduction to the evening's proceedings we took our seats for the main attraction. Ten IMTA delegates were to be initiated into the Brotherhood of *Les Bon Etonneurs Rabelaisiens*. The Brotherhood was founded in 1961 to perpetuate the teaching of its spiritual Master, François Rabelais ('the thirst for knowledge and the thirst for good wine') and also to celebrate the virtues of the wine of Chinon.

This was a most enjoyable evening for all involved and for those spectating. The initiation ceremony was followed by a superb dinner, good conversation, ample bottles of good wine and the obligatory dancing and laughter. This was, as many stated, possibly the best conference dinner ever attended.

The BCS would like to thank IMTA for their continued support and their kind invitation to exhibit at the trade show. We would also like to thank corporate members Victoria Litho Ltd, Hayes Middlesex, who sponsored my attendance at the conference, and future corporate members Global Mapping, Northamptonshire, who sponsored Mary Spence, who along with myself and Dave Watt managed the BCS stand which promoted the society so successfully to the delegates.

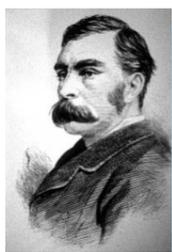
Susie Hart
BCS Publicity Officer



Ten IMTA delegates were to be initiated into the Brotherhood of *Les Bon Etonneurs Rabelaisiens*

The initiation ceremony was followed by a superb dinner, good conversation, ample bottles of good wine and the obligatory dancing and laughter

Death of a Cartographer...



Keith Johnson
1844-79



The village of Beho Beho



The grave of Keith Johnson

Searching for the grave of Keith Johnson

Little did I know in June 2000 that an innocent map enquiry would lead me on a quest to find a grave in one of the most remote and often inaccessible parts of East Africa.

The enquiry from Jim McCarthy was a simple enough request, did I have a map which showed the location of the village of Beho Beho in Tanzania? Jim had been a forester in Tanganyika, East Africa in the 1960's and was currently involved in research into Scottish cartographer/explorer/geographer Alexander Keith Johnston Jnr. who tragically died at the age of 34 in the remote village of Beho Beho in what is now the Selous Game Reserve, the largest in Africa.

Since 1985 I had developed a passion for Tanzania and its mapping. Naturally Jim's request hit the right buttons – Africa; Tanzania; mapping; Scottish cartographer – I was immediately struck by the image of a fellow Scot meeting his maker while mapping in darkest Africa. Then the questions came to me. Who was Keith Johnson? How did he die? Where was Beho Beho his last resting place?

Born in 1844, Alexander Keith Johnson was the eldest son of Alexander Keith Johnson Snr. a prominent cartographer and owner of the Edinburgh firm of cartographers W & A K Johnston. Johnston 'secundus', as family friend and explorer David Livingstone described Keith, was introduced to maps and cartography at an early age. While still only 24 years old he was elected a Fellow of the Royal Geographical Society (RGS) in recognition of his cartographic acumen. Later as their Map



1900 German Atlas map showing the gravesite

Curator he was responsible for the verification, interpretation and drawing of maps from the exploration surveys of famous African explorers of the day such as Livingstone, Stanley, Burton, Speke and Grant, in particular the mapping of the Source of the Nile. By 1878 Keith decided he had had his fill of sedentary African cartography and accepted an appointment as leader of the RGS East Africa Expedition.

At the youthful ages of just 34 and 20 respectively, Keith Johnston and fellow Scot Joseph Thomson left Zanzibar for Dar es Salaam on the 18th May 1879. Constantly up to their knees, waist and sometimes necks in water, they suffered from intermittent fevers caused by malaria and other tropical ailments and their health deteriorated as they moved from the coast to the interior of 'darkest Africa'. On the 30th May, Keith Johnston complained of pains from bad rheumatism in his back. On the 10th June he was suffering from severe dysentery and had to be carried in acute pain on a improvised hammock. By the 28th June he was dead.

Keith Johnston was buried by Joseph Thomson who carved his initials and date of death on the bark of an adjacent tree. A number of years later a gravestone comprising of a large slab of engraved Swedish granite was placed on the site. The last known recorded sighting of the grave was made in 1897 by German geologist Bergassor Bornhardt who also noted its latitude and longitude.

Here was a Scottish cartographer who gave his life to the mapping of Africa. Today, Keith Johnston is almost unknown within the fields of geography and cartography and his grave has been lost in the mists of time.

So where is Beho Beho, Keith Johnston's last resting place? First stop was the University of Glasgow Map Library. Preliminary searches of the collection of East Africa maps did not reveal the location of Beho Beho. Finding Beho Beho on a map was not to prove an easy task. Fortunately Map Librarian John Moore pointed me in the direction of the atlas collection which contained a 1914 atlas, *Deutsch-Ost-Afrika*. This proved to be the key to locating the long deserted villages of Beho Beho.

Not only did the German atlas show the

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...in Darkest Africa

villages of Beho Beho, it also included the expedition route taken by Johnston and Thomson. Having found the village of Beho Beho, this should have been the end of my task. However after casually admiring the beautifully crafted atlas sheets over a two week period, a curved piece of German text and small black cross discreetly hidden in a congested portion of the map caught my eye 'Grabdenkst. Von K. Johnston' – the grave memorial of Mr Keith Johnston! This small cross on a map was to become an obsession to me over the next four years as I would attempt to locate the 'lost' gravestone of Keith Johnston in its remote resting place in the Africa bush.

I was also fortunate to locate the original 1879 exploration route maps in the RGS Map Room courtesy of Map Curator Francis Herbert. These were to be the last maps drawn by Keith Johnston. Armed with small scale maps and some dubious co-ordinates the search was on.

The first expedition to Beho Beho in July 2001 with Jim McCarthy and armed safari guide John Corse lasted only 3 days. It was undertaken with limited resources and established the general location of Beho Beho. A second attempt in April 2002 was aborted due to the rains and resulted in me being stranded for a week on the northern shores of Lake Nyasa. The next expedition in October 2002, lasting 4 days, was supported by the Tanzania Wildlife Division and Doctors Rolf Baldus and Ludwig Siege of GTZ International (Germany). It involved 16 persons including armed park rangers. These two expeditions have added valuable knowledge to the historical archive and cartography of the Selous Game Reserve and narrowed the search area to around 2 sq.kms

Thanks in part to financial support from the Research Fund of the British Cartographic Society and the Carnegie Trust for the Universities of Scotland I was able to mount a third expedition in October 2003 for a 2 week period with 14 locally hired villagers and armed guides. This was the most comprehensive and successful to date. Several of the former villages were located in the thick overgrown forests along the Beho Beho river including the village of Chief Mbago where Keith Johnston died. Important new information about the gravestone and its location was also acquired

locally from an old man who is probably the only person still alive to have actually seen the grave of Keith Johnston. The search area has now been reduced to approximately half a square kilometre which includes the river bed of the seasonal Beho Beho sand river.

In the past four years this 'obsession' with Keith Johnston has led me to teach myself how to use a sextant and a GPS; learn the history of W & A K Johnston, the former Directorate of Overseas Survey; appreciate the history of World War I in East Africa; delight in some exquisite historical maps of East Africa; and struggle with Swahili. While camping in the Selous Game Reserve I also contributed to the well being of the wildlife by providing a home for 300 bush ticks; a meal for fiery red ants and tsetse flies; entertainment for a swarm of bees; a target for a buffalo; and a hint of a meal for a lion. However I have also been privileged to observe at close range the full gambit of East African flora and fauna, from aromatic acacia blossom to shirt tugging 'wait-a-bit' thorns; graceful gazelle and giraffe; kudu with real kudos; carnivorous crocodiles, lion, leopard and hyena; wallowing warthogs, hippo and elephant; zebras crossing and snakes slithering – all this and as yet, no sight of the grave of Keith Johnston.

I have not given up the search for Keith Johnston's grave, I am now considering the use of ground-penetrating radar during the 2004 dry season. It does however concern me somewhat when friends wish me all the best before my travels in Tanzania and 'hope that I find my grave in Africa'.

A full scientific report on the search for the grave of Keith Johnston will be published in due course. Jim McCarthy has recently written the biography of Keith Johnston which was published by Whittles Publishing in February 2004, for further details on the book and the continuing search for the grave of Keith Johnston see website at: www.geog.gla.ac.uk/~mshand/kjohnston/kjhome.htm

Mike Shand, Cartographer,
Department of Geography & Geomatics,
University of Glasgow



Beho Beho river



Battling through the bush



GPS and elephants

Corporate Members Report

Improved benefits
for corporate
members

The British Cartographic Society – promoting UK Cartography

In cooperation with the International Map Trade Association and the Association for Geographic Information, the British Cartographic Society will be granted exhibition space at each of the trade shows hosted by IMTA and AGI. As part of a new initiative to improve benefits for corporate members of the BCS it is proposed that we use these venues as a window for UK cartography.

The first such event was at IMTA Tours in February where BCS shared a stand with AGI displaying samples of maps submitted by corporate members as well as distributing flyers and other promotional material on their behalf. We shall next be exhibiting at the *30th World Conference of the International Geographic Union* to be held at the University of Strathclyde in August 2004, by which time we should have collected a substantial amount of information about our corporate members for public dissemination.

AGI2004

Conference
and exhibition
combined

The Association for Geographic Information (AGI) is delighted to announce *AGI2004*. This will be the premier event for anyone wishing to unlock the power of geographic and spatial information in their business. The event is designed for GI users *by* GI users and is the first of its kind in the UK.

AGI2004 will take place at Chelsea Village in London, from Monday 18th to Wednesday 20th October 2004. The event will incorporate the renowned AGI Conference and a new look Exhibition and solutions Hall featuring all the major GI software vendors, data suppliers, policy makers and expert services.

The conference will open on Monday and the exhibition will officially open in the afternoon with a Champagne Reception. The Exhibition runs over two and a half days with the conference running for three days.

The industry is excited with this opportunity and AGI are pleased to announce that many

Apart from promotion at trade shows and conferences, additional corporate member benefits are being proposed. For example, we are in the process of negotiating a variable scale of corporate membership fees, graded according to the number of employees within a company or organisation. It is hoped that by reducing the fees substantially for small companies we can increase the membership to include more of those actively engaged in the cartographic and GIS industry.

Other initiatives under discussion include expanding the scope of the BCS website to incorporate company profiles and show samples of members' work. A directory of members' products and services can be compiled as a quick reference for visitors to the site. But the main purpose of any such ideas is to improve benefits for you, the corporate members. Please contact me on maryspence@mac.com with any suggestions you may have to help us achieve this aim.

Mary Spence MBE
Corporate Liaison

companies have already signed up for exhibition space at *AGI2004* and others have indicated their interest in this prestigious event. Further services include the GI Consultancy Stand and the GI Solutions Centre.

Nick Chapallaz, AGI Conference Chair '2003 was a very successful and important year for the AGI Conference. But by combining the AGI's leadership of the conference and exhibition now provides an even greater opportunity for anyone with an interest in the value of GI to ensure the continued and future success of its application in all sectors of the UK economy. I look forward to seeing you there.'

For further information
Visit www.agi2004.org.uk or if you are interested in exhibition space please email AGI2004@agi.org.uk or telephone Angela on 0207 017 8497, Sallie on 0207 017 8492.

Visit the BCS website at www.cartography.org.uk

New Journal of Maps to launch

We are pleased to announce a 'call for papers' for the newly created *Journal of Maps* (JoM). The establishment of JoM has come out of the realisation that academic map publication is in gradual decline. JoM will provide a channel for researchers to publish map based material not normally accepted by traditional journals that can then be referred to and viewed by others.

JoM has been established as a UK charity, aiming to publish original, bespoke, maps from any discipline. The editorial panel has been specifically put together to provide a broad range of knowledge, expertise and experience. As a journal, we suspect that initial emphasis will be upon traditional geo-subjects, however other subject areas will be strongly encouraged to submit original work.

JoM is an entirely electronic, online journal. All published material will be given away freely and therefore JoM has opted to follow a reverse publishing model. The author will pay a nominal fee to cover the review and distribution process. The journal's website www.journalofmaps.com will provide a fully searchable front-end to JoM's published materials. We accept that not everyone will

want to view maps electronically and therefore all materials will be of press publishable quality. In order to use the online facilities of JoM, a user needs to register. Basic registration allows access to published materials. Personal details need to be provided in order to submit a map for publication and the principal author will need to supply a press-quality map and a short article ready for review. The article should describe the data presented in the map and any pertinent techniques used during the collection/mapping process. We will not accept long articles incorporating data analysis and interpretation, as these would be better published in traditional subject-based journals. The principal author should also supply the details of two people who may act as external referees; these persons should not have recently published with the author(s) or work at the same institution. When submitted, an article will be reviewed by two members of the Editorial panel, in addition to the two external referees.

Mike J Smith,
School of Earth Sciences and Geography,
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Kingston-upon-Thames, Surrey, KT1 2EE
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Evidence in Camera

In 1998 after the BCS symposium at Keele University, Maplines reported on the aerial photo archive and the concerns over its future. Earlier this year however, Keele launched a web site where the aerial reconnaissance photos are now available online. *Evidence in Camera* was created by The Aerial Reconnaissance Archives (TARA) at Keele University. The aim is to make the photographs deposited by the UK Ministry of Defence at TARA accessible via the Web.

In 2001 using finance from a University Development Fund, TARA began digitising the finding-aids for the main collection of aerial photographs taken by the Allies during WW2. At the same time all the aerial photography archives were physically re-housed in more suitable storage conditions and conservation work began on the most badly deteriorating photographic images. The work will continue on the other aerial photography holdings on

deposit at Keele from The National Archives.

The 5.5 million photos, housed at Keele since 1962, are used mainly for bomb-disposal though they have been used elsewhere such as for the Steven Spielberg production of *Band of Brothers*. You can now buy online, with low resolution scans available for a modest price. Digitally enhanced scans and digitally enhanced photographic prints are also available, including 3D photographs.

Fortunately a search will now only take minutes compared to hours as previously. If you want to know more visit www.evidenceincamera.co.uk. Remember that many pilots never returned from reconnaissance sorties so their loss should never be forgotten. The Aerial Reconnaissance Archives are a practical and living memorial.

Journal of Maps:
a new
multi-disciplinary,
international
journal
<http://www.journalofmaps.com>
Launch:
4th May 2004

*Living memorial
to lost WW2 pilots.*

*5.5 million
aerial photos now
accessible via
the Web*

The Old Cartographer

*We were offered
rock-bottom prices
from paper-
hungry new
machines
worldwide*

Our firm made all sorts of maps: road maps, wall maps for schools, atlases – school and general, globes, star charts, marine charts; even relief models. We traded worldwide. All products were costed from drawings. All departments were involved, and various formulas applied to see if the products would fly – a phrase not used then – a ‘goer’ would be the thumbs up. An editorial committee, the board of directors and sales departments would discuss the product and costings.

Printing and binding were very important parts of the estimating process. Initially road maps would have their own special colours with atlases printing in at least six colours. Coastlines might use a navy blue and hill shading a grey/brown with roads a deep red called vermilion. Switching to four colours could involve substantial increases in studio costs, not always balanced by the saving in platemaking and printing. Four-colour machines were not widely used until the 1970s and 80s. Our two-colour machines could print sixteen pages demi-quarto, approximately A4, to view. From about 1980 external printing was considered. We were offered rock-bottom prices from paper-hungry new machines worldwide. With Asian time-zone differences an estimate could be requested one evening, and a faxed answer would be sent the following day. You could also produce a small print-run, which would not be economic in Europe. We eventually had a print-placing company operating in Hong Kong, which made sense as we did good business in the Pacific Rim countries.

An atlas could be difficult to plan and cost. This is the biggest difference between the first- and second-halves of my career. In the first, drastic cost-cutting in the preparatory areas aimed to make the retail price low and attractive. In the second, large sums could be spent designing the atlas to fit the market requirement with less regard to the final price and the initial cost. Other factors could come into play. We had jobs that were kept on the ‘back-burner’. The Print Shop might have a lean few weeks in a month’s time, so we could plan to reprint x-thousand of a school atlas from standing plates with the minimum of preparation. New colour schemes were worked upon, especially conversion to four-colour-printing. In the Drawing Office there would be

*The maps would
be drafted larger
than the final
size; drawn in
ink, the style of
lettering selected
and hand-lettered*

improvements that were sanctioned financially for use at the earliest possible occasion. We had a period converting all spot-heights to metres which coincided with a policy of using national spellings on our largest-scaled and more advanced maps. These two tasks, ‘Int. and Met.’, provided work to fall back on in all of the preparatory departments.

To understand the expense of cartography and thus the difficulty of the estimating, I thought I would describe the process of making an atlas page. It might be decided that we needed better scales for some areas such as China and Japan, Russia and Eastern Europe, western America (as opposed to the eastern sea-board). We had good coverage of some of the old Empire territories such as India or South Africa and therefore an imbalance would begin to show. A new atlas for a country would involve larger-scale mapping of that country and its region; a large-scale reference map would form a good starting point. We updated this, making it physically coloured perhaps, revising it and getting the original material into the modern stable bases, type lettering replacing the old hand-lettering.

New work involving map projections could give problems – which new projection to use? Remember, this was well before the computer generated nets. Having decided which, we then had to draw it. We had abandoned Mercator long before Peters began his campaign. We had a good bank of projections, particularly conic with a selection of standard parallels. A colleague, famous as our projection-genius, was known to help A. R. Hinks with some projection problems. He’s mentioned in Steers’ book. He left us a hand-written book in the Library of some of his projection calculations and notes. Most maps were ‘keys’, such as the 1 million key of Europe, from which we ‘dropped out’ the map page ‘originals’. The keys could be used to make regional reference maps of large areas or different page-layouts.

The maps would be drafted larger than the final size, drawn in ink, the style of lettering selected and hand-lettered. Preparatory work – selection of source maps, updated roads and railways, census material for selection and sizing of town and city types, decisions on transcriptional systems, would be made in the editorial department. This passed into the Drawing Office, originally called the

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In the beginning...

Geographical Department, where the draft was prepared by a handful of experienced draftsmen. The draft linework and lettering was hand drawn onto one composite sheet; some of the hand-lettering was almost to reproduction quality. There is a possibly apocryphal story concerning two draftsmen who had a brief partnership in a small drawing firm. They fell out catastrophically, in full view of their staff. One left, slamming the door, only to reappear moments later and shout at his erstwhile colleague – ‘And what’s more, I think your hand-lettering stinks.’

The prepared draft would be checked in the Editorial Department, and corrected in the Geographical. The Studio laid the draft onto a base for type-patching and, in later days, onto scribing material for the various plates that were needed. The originals would be prepared in Geographical and checked in Editorial. Page layouts were finalised, then duplicates made in the Studio for the preparation of page originals; again checked in the Editorial. The Cartographic Editor (CE), who only in later days was a Director of the company, saw every new set of page-originals – he loved to find a mistake! One editor used to arrange his jobs for the CE to see so he would nit-pick the first, in which the editor was not particularly interested, then rushing through the rest on which he did not want the CE’s sticky paws!

A ‘colour-copy’ would be made to guide the Tinters, to draw or peel the colour masks. There were many types of proof over the years. On a large job we might decide to go straight to a paper proof. We had two flat-bed proofing machines operated by a man whose hobby was steam railways – what else! These machines I think were called Mailander, one of many wonderful names, – Martini-Muller, Mann-Master, Roland, Crabtree. Paper-proofs were made from plates, which in turn had been made from PDPs, (Printing Down Positives). The correction process would be repeated, finally producing the definitive PDPs, which were kept for the printings. They were in later times sent all over the World, wherever we printed.

When I joined in the 50s, type was set into lead and pulls made into a glossy paper, which were cut out and pasted in position onto a sheet of paper. The paper was made reasonably stable by being laminated onto a thin

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aluminium foil. Some wall-maps continued to be hand-lettered. The individual matrices were white letters on a black background, which were hand-assembled on a stick and photographed as lines. These were developed onto strip film, and then hand waxed on our home-invented waxing machine. The names were scalped out onto the maps. Remember, we were only a short generation away from copper-engraving.

This valuable material was kept in large fire-proof strong-rooms, with two or three staff. One, a Welshman, had been a traditional milkman in the area. He gave many years of dedicated service to the proper recording and storage of this material; his encyclopedic knowledge would enlighten many a wet-behind-the-ears editor. I was married to a Welsh lady. When the Eisteddfod came to her home town, I would talk to him of this. There is the rousing shout in Welsh, ‘Is there peace’. We got into the habit, whenever we passed one another, in the factory, on entering the external strong-room, or ascending the iron staircase, we would greet each other with the shout and its response, Peace – Heddwch. I last saw him at his retirement home near Aberystwyth. I was on my way from Cardiff to Bangor for the launch of our school atlas in Welsh; we had red-salmon sandwiches for tea.

Everyone who worked on maps completed a time-sheet. Their an hourly-rate recovered their labour costs and their portion of overheads. We could then accurately see that a job or its part, were going to plan; a valuable guide to future estimating. Map and atlas preparation was very costly – as if you didn’t know! We constantly searched for cheaper methods. But if the in-house staff were fully occupied, editorial and drawing work was put out to individuals and companies. Some of the draftsmen were highly talented, providing many new, easier techniques, allowing us to make cartography that otherwise we could not have made.

We were very proud of our company and its history. We tried hard to make our maps as good as possible, taking pride in our success. Success based on the skill and dedication of its draughtsmen (sorry, few women), technicians and printers, on the wisdom of the managers and hardworking salesmen. We made no distinctions; we were all cartographers.

The Old Cartographer

*‘And what’s
more, I think
your hand-
lettering stinks.’*

*...in the 50s, type
was set into lead
and pulls made
into a glossy paper*

*We were still
only a short
generation
away from
copper-engraving*

BCS Administration Report

At this time last year I encouraged you to visit our new-look website at www.cartography.org.uk. Our Webmaster, Frank Blakeway, has been at it again, completely redesigning the site to make it more attractive and much easier to navigate. Items for inclusion, comments, suggestions and praise can be forwarded to Frank care of the BCS Administration Office.

Subscriptions for 2004, which became due on 1 January 2004, remain unchanged from last year.

Corporate Member	£165.00
Fellow	£35.00
Ordinary Member	£25.00
Associate Member	£10.00
Optional air-mail supplement for Overseas members	£10.00

Members have a choice of three methods of payment:

- Personal cheque payable to The British Cartographic Society. (Or for overseas members a Sterling Draft payable in London.)
- Visa/Access credit card
- Standing Order

I am pleased to report that over half the membership has paid their subscriptions but if you are one of the 278 members who have not yet renewed please do so **this month**. Renewal forms were enclosed with the December 2003 edition of *Maplines* and are available from the Administration Office. Credit card and Standing Order payment forms are also available, just ask. In May reminder letters will be sent to all those members whose subscription is still outstanding. Receipts will be sent out as usual but please note that your current membership card is permanent and will not normally be replaced unless it has been lost or damaged

Membership: Members will be interested to know that at the end of 2003 our paid-up membership figures stood at:

Corporate Members	39
Honorary Fellows	10
Fellows	96
UK Members	421
Overseas Members	68
Associate Members	44
Making a total of	678

Although this is an overall increase of 23 over the 2002 total, Council is concerned that our Corporate membership is falling and is actively considering ways to attract new Corporate members.

New members: The Society has pleasure in welcoming the following new members who have joined since publication of the December

2003 edition of *Maplines*.

UK Members:

Mrs C A Burgess, Mr H S Burns, Mr I W Byrne, Mr R G Cocksedge, Miss C Coulson, Mr A R Darby, Mr C J Edwards, Ms D Hall, Mr P T Fretwell, Mrs D Stapleford.

Overseas Members:

Mr A C Green (USA), Mr J W Jackson (The Netherlands), Prof. M Shoshany (Israel), Mr P J Tomlinson (Australia), The Librarian, University of British Columbia (Canada).

UK Associate Members:

Mr N M Beedie, Miss S E Bulmer, Mr T J Burslem, Mr R Coyles, Mrs S J Maltby, Mr A F Tullett.

Fellows:

As reported elsewhere, a very successful Fellows' Evening was held at the Royal Geographical Society on Tuesday 10 February. Thirty-two Fellows and guests enjoyed convivial company, a superb supper and an excellent presentation by Robin Waters. Have you considered applying to become a Fellow of the British Cartographic Society? Contact the BCS Administrative Office for further information.

Gift Aid

A big 'Thank You' to all those members who ticked the Gift Aid box on the Membership Renewal Form or subscription receipt. Gift Aid brings added income to the Society at no cost to the individual member. For every pound of your subscription the Society can claim 28p in Gift Aid tax relief. Last year we were able to claim back over £2,250 and we hope to claim a similar amount this year. If you are a UK taxpayer and have not completed a Gift Aid declaration write or e-mail me at the BCS Administration Office using the words: 'I am a UK taxpayer. I would like the Society to treat all membership subscriptions I have made from 6 April 2000 as Gift Aid donations until I notify you otherwise.' If you are unsure whether your subscriptions qualify for Gift Aid tax relief call the BCS Administration Office.

Are you on the move? Please inform the Administration Office.

Ken Atherton

BCS Administration, 12 Elworthy Drive, Wellington, Somerset, TA21 9AT, England, Tel/Fax: 01823 665775, Mobile: 07785 747120, Email: admin@cartography.org.uk

Visit the BCS website at www.cartography.org.uk

Calendar

1st – 2nd April 2004

RSPSoc Annual Student Meeting, University of Edinburgh
For more info contact edw@geo.ed.ac.uk

6th May 2004

TOSCA field trip, visit to History of Science Museum, Oxford. Part of the *Oxford Seminars in Cartography* series
For more info contact Nick Millea nam@bodley.ox.ac.uk

11th May 2004

Deadline for BCS Awards submissions, see article on page 4. All details and submission forms can be found at: www.cartography.org.uk.

5th June 2004

Combined Operations Symposium, Joint symposium between BCS Historical Military Mapping SIG and Defence Surveyors Association to commemorate the 60th anniversary of D-Day. Held at the National Maritime Museum, Greenwich, London, UK.
For more info contact Peter Chasseaud: peter@parvenupress.freereserve.co.uk

17th June 2004

Mercator: the first modern scientific cartographer, Nick Crane (Writer and broadcaster). Part of the *Oxford Seminars in Cartography* series
For more info contact Nick Millea nam@bodley.ox.ac.uk

18-20th July 2004

Meeting/Workshop on the Exploitation of data which is sparsely and irregularly samples with emphasis on Antarctica, Cambridge, UK
For more info visit: www.antarctica.ac.uk/meetings/2004/AEGIS/index.html

15th – 20th August 2004

International Geographical Union 30th Congress, Glasgow
For more info see www.meetingmakers.co.uk/IGC-UK2004

22-27th August 2004 2004

World Library and Information Congress: 70th IFLA General Conference and Council, Buenos Aires, Argentina
For more info visit: www.ifla.org/IV/ifla70/index.htm

August 25th – 28th 2004

Euroscience Open Forum 2004, Stockholm.
For more info: www.esf.org/generic/598/esof.pdf and www.esof2004.org

7th – 10th September 2004

RSPSoc Annual Conference: Mapping and Resource Management Show, Aberdeen Exhibition and Conference Centre
For more info contact a.p.cracknell@dundee.ac.uk

9th – 12th September 2004

BCS 41st Annual Symposium and Map Curators meeting, hosted by the Geography Department, University of Durham
For more info visit: www.cartography.org.uk/Pages/Latest/SympDurh.html

18-20 October 2004

AGI2004 Conference and Exhibition, at Chelsea Village, London, UK
For more info contact Angela McMahon: angela@agi.org.uk

20-22 October 2004

Cartographic Cutting-Edge Technology for National Hazard Management Conference and Exhibition, Dresden, Germany
CALL FOR PAPERS by 15th April 2004
For more info visit: www.tu-dresden.de/kartographie

9th – 16th July 2005

XXII International Cartographic Conference, A Coruña, Spain
For more info contact secretary@icc2005.org

Continued from page 1...

quoting from his company's recent research, including their current project with the Planning Portal in Bristol which is implementing a multipurpose web-based information system for all types of planning related enquiries.

The talk was followed, as is traditional on these occasions, by an excellent supper served in the grand surroundings of the Main Hall of the RGS. This all made for a very informative and enjoyable evening. For more details on Robin's talk see: www.cartography.org.uk

If you are organising an event or know of an event that you would like to see advertised on this page contact the Editors, using the details on page 2.

If you have attended one of the events listed on the Calendar then why not write and tell us what you thought of it.

Name these World Lakes

Send your entries

to: Lynda Bailey

Maplines Puzzle

E213, FCO,

King Charles St

London

SW1A 2AH

or by email to

lynda.bailey@

fco.gov.uk

Closing date for

entries is

4th June 2004

As the last quiz was

obviously far too

easy, this one is a

little more challeng-

ing. We are looking

for the entry that

names most of these

large world lakes. If

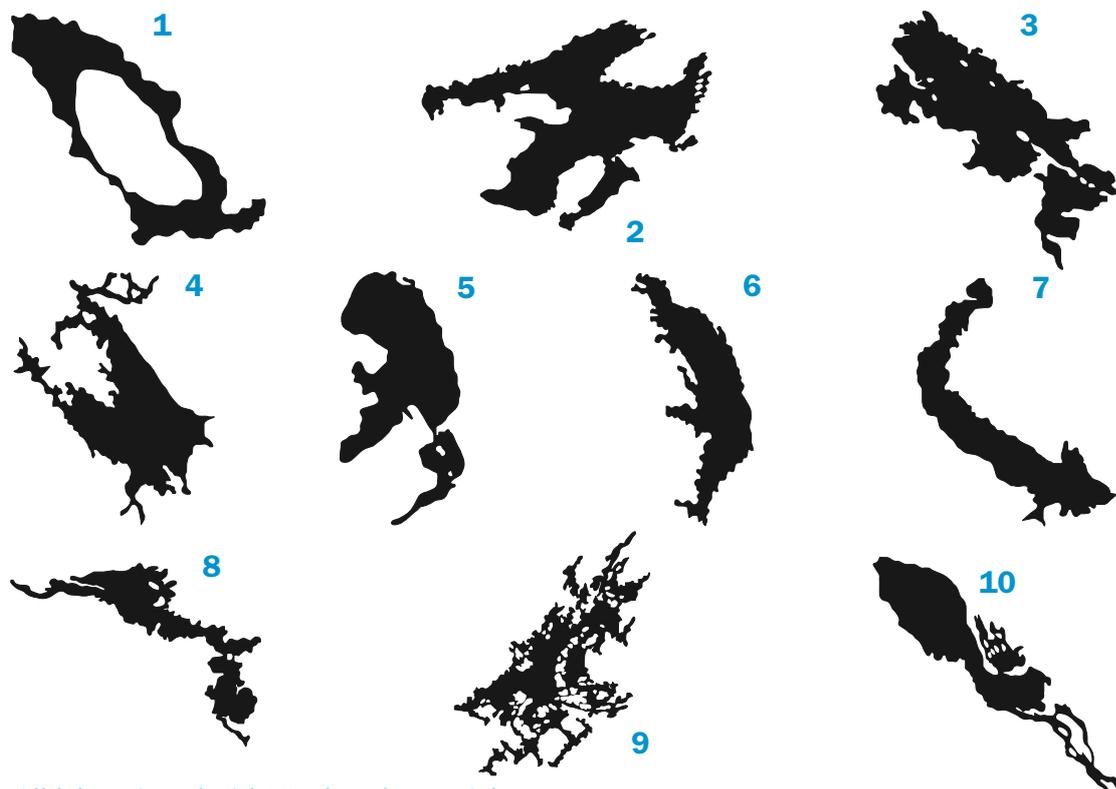
more than one entry

gets them all right

the winner will be

decided by a draw,

as usual.



All lakes oriented with North to the top of the page.

The prize for this issue is a *SkyView* poster of the winner's choice (visit www.globalmapping.uk.com to see the full range of titles) and a Huge World Political wall map at 1:20M (this is the largest single

sheet world map available and measure 1990mm x 1350mm /78.3" x 53.1"). Donated by Global Mapping Ltd, these are worth £20 and £10 respectively. Well worth having, so make sure your entry is in on time.

Global Mapping Ltd

Established in 2001, Global Mapping Ltd is an alliance of map orientated companies, each offering particular skills and expertise in all aspects of cartography, GIS, aerial photography, satellite imagery, data capture, bespoke mapping, desktop publishing, printing, finishing and distribution. Global Mapping undertake projects ranging from small location maps to large world atlases and also have their own range of publications.

SkyView Posters is a series of over 100 unique aerial views covering major towns, cities and tourist areas of the UK. The range is constantly being extended to include more UK places as well as major cities of the World and a selection of historic images is in production. World maps in political colouring are published at four different sizes from huge classroom at 1:20M, through large at 1:30M and medium at 1:40M

to individual desktop size at 1:60M. The most recent addition is an attractive physical version at 1:30M which accurately depicts relief and terrain detail. Pacific centred versions of both political and physical are also available at 1:30M. These world maps can be presented in different projections and customised to individual requirements or made into a variety of products from pin-boards to desk mats.

Following on from the success of the world maps a new continental series is being launched in 2004, starting with Europe at 1:4,600,000. These continent maps will perfectly compliment the World maps and can also be used as an ideal base in the preparation of world atlases.

To find out more about Global Mapping, its products and services, visit the website at www.globalmapping.uk.com.