

SUMMER 2019

Maplines

THE MAGAZINE OF THE BRITISH CARTOGRAPHIC SOCIETY

BCS-SOC
Conference
11-12 Sept
update



Warm welcome to fellow conference attendees. We have some news from travels to different conferences from the UK and Europe in this edition of *Maplines*. If you have been to a good conference, remember to take photos and let us know. Don't forget to make a note in your diary about this year's BCS / SoC Conference in Southampton. If you haven't entered this year's awards, then come along to find out who did win! It would be good to meet you

there and discuss future article submissions.

We are looking to update the design of the magazine for the Winter Edition, so you'll notice some changes. Come and have a chat with me at the BCS / SoC Conference and let me know what you want from our Membership magazine. See you there! :)

Caroline Robinson, Senior Maplines Editor

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www.cartography.org.uk/product/maplines/

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Contents

The Magazine of the British Cartographic Society (Registered Charity No. 240034)
Volume 35, 2nd Issue – Summer 2019

Maplines Regulars

p.04 Admin Report
p.04 UKCC Report

Also in this issue. . .

p.08 Mapidea
p.11 Bodleian Library
p.21 Geo Business 2019
p.22 ESRI Conference
p.23 Longitude



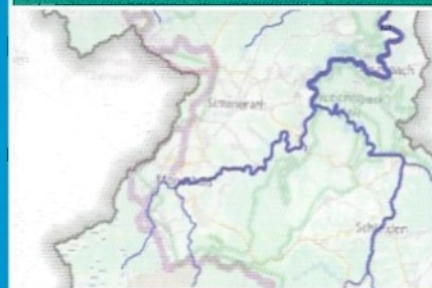
D-Day Museum Maps

5 Nicholas Hutchings and John Peaty describe a trip commemorating D-Day.

Circular Economy

9

Dr Hans van der Kwast informs us on the state of mapmaking in education.



A Message from the President

In the run-up to the European Parliament elections, I was intrigued to find the various ways the news outlets coped with difficulties not usually encountered in depicting the outcomes of British elections – multi-member constituencies, and a vote often split fairly evenly across three or four, sometimes even five, parties. It was also interesting to note how often the UK was shown floating, if you like, in free space with no indication at all of the countries around us. It led me think of what might constitute the opposite of that – something emphasising our connectedness. Looking back to my university days, a geological map does that perfectly – especially one that shows bedrock across land and sea. Here is a small section of the International Geological Map of Europe (<https://geoviewer.bgr.de/-Ed/>) that represents geological unity, if not a political one.

As you may know, much of the day to day administration of the society is handled through an external



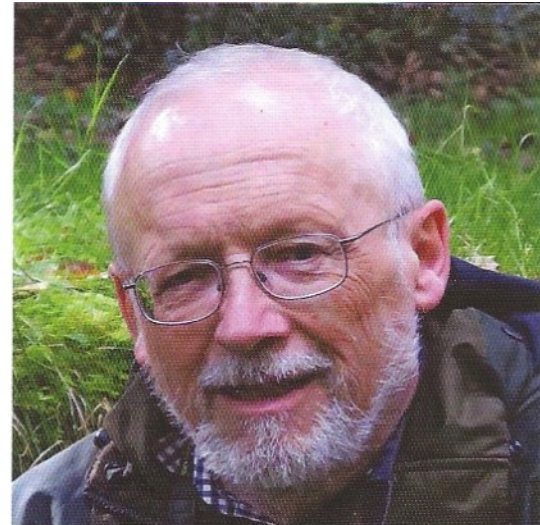
Asch, K. (2005): *IGME 5000: 1:5 Million International Geological Map of Europe and Adjacent Areas*. BGR (Hannover).

support contract. Every four years, we go to tender and we are up for renewal currently. We are also in the process of finding a successor to Jim Nicol as Hon. Treasurer of the Society. If you would be interested in serving the Society in this way (or know of someone who might be) then, find more information here: www.cartography.org.uk/careers/.

On a wider perspective, as I hope you're aware, BCS is the UK's National Member of the International Cartographic Association (ICA). The next ICA's International Cartographic Conference is in Tokyo, 15-20 July 2019, which is a bit short notice if you're not already thinking of attending. Next year, however, the ICA will be in Florence for 19-23 July 2021, so put that in your diaries! Keep an eye on ICA's regular newsletters (<https://icaci.org/ica-news/>) to get an idea of the state of cartography in all its forms around the world and, perhaps, see opportunities where you could contribute or learn from others.

Finally, can I remind you of what's coming up in our conference in September. This year we're being hosted by the Ordnance Survey in Southampton on Wednesday 11 September and Thursday 12 September 2019. On Wednesday we'll have workshops and the second day is the conference with awards ceremony.

We have two major workshops on the Wednesday. There is the Map Curators' Workshop running under



the overall theme of "Dispersal, disposal and digital transition: Map collection development" and also a Better Mapping event. The Map Curators' meeting starts at 9:30am and includes sessions on the digitising of collections and a description of Bodleian map storage through the ages.

As ever, Better Mapping will feature a wide range of speakers covering topics such as the effective use of colour, terrain visualisation and even 'challenging the conventions of modern map making'. There's also a talk (by video link) from Jon Roberts of Fantastic Maps, who'll be speaking about 'From Winterfell to the Narrow Sea: What I Learned from Creating the Lands of Ice and Fire'. You'll have to get here early as the event starts at 9:15am.

For all of the events, you should have received an email giving the discount codes to obtain the reduced rates for members. If you can attend both days it would be great to see you.

Richard Carpenter, BCS President



BCS SoC Conference 2019

12

Everything you need to know about the event including a schedule.

Talking Maps Exhibition

15

Details of the Talking Maps Exhibition at the Bodleian Library, Oxford.



Geospatial World Forum

18

A review of the Geospatial World Forum event by Caroline Robinson.

Admin Report

Membership

Thank you to all our members who have renewed their membership for 2019. Your continued support for the Society is greatly appreciated. We are also very pleased to welcome our new members.

Full

Sebastian Sippy, Faye Chant, Simon Wrigley, Alun Rogers, John Brushett, Jaqueline Langford, Jennifer Johnston, Alex Clayden, Mark Baker, Digby Milnes, Charles Krolik-Root, Eileen Kerhouant, Miguel Marques, Kelvin Oldfield, Nicholas Duggan, Damien Saunder.

Affiliate

Joshua James, Claire Astbury, Vimalkumar Vaghani, James Millington, Alan Lovell,

James Gilbert, Christopher Bradshaw.

Student

Andrew Taylor, Roisin McDermott.

Educational

McAuley Catholic High School.

Small Corporate

AccuCities.

Corporate

Edward Stanford Ltd, Geomni.

Our subscription year runs from 1 January to 31 December. New members will receive all issues of *The Cartographic Journal* and *Maplines* for the year of joining.

Current Membership Fees

Full members: £40 (Overseas £55),

Fellows: £60 (Overseas £75), Affiliate: £20 (Overseas £35), Student £20 (Overseas £35), Educational £72 inc VAT, Small Corporate £120 inc VAT, Corporate £240 inc VAT. For more details see www.cartography.org.uk

To join or renew your subscription, please use the following methods:

Website application at

www.cartography.org.uk.

Bank transfer to Account Number: 06753868, Sort code: 55-50-23.

Cheque made payable to The British Cartographic Society – please write your membership number on the back when renewing.

BCS Administration are happy to help any members with issues or queries they may have related to the Society.

Email: admin@cartography.org.uk

Mailing address: 112 High Street, Balsham, Cambridge CB21 4EP.

UKCC Report

As I write this, preparations are well in hand for ICC2019 in Tokyo, which will have taken place by the time you read it. An early report from the organisers indicate that there are 14 early registrants from the UK, putting us 12th on the list. Far from the heady days earlier in the millennium when we would have over 30 at an ICC, this is probably a reflection of the status of cartography in UK universities

and compares poorly with the likes of France, Poland and Switzerland who all have over 20 registrants at this stage.

An important element of an ICC is the international cartographic exhibition. In the main exhibition the UK will be well represented with the maps and atlases submitted for consideration exceeding the space available, so a selection had to be made.

Coverage of our exhibition entry will be included in the UK National Report to ICA which will be published as a special issue of *The Cartographic Journal*.

Another element of the

Age category 9-12:
Kelsie Hallam, Niamh Domleo & Charlotte Chaplin-Hooley



exhibition is the Petchenik Children's Map Competition. Entries for the UK national competition vary greatly in numbers, from none on one occasion, to well over 600 on another. Some of this variation seems to relate to the theme of the competition fitting in with a topic in the curriculum at the right moment. This year was at the low end of entries, so only two maps were chosen to forward to the international competition.

David Forrest

Chair, UK Cartography Committee



Age category 6-8: Ethan Pegg

D-Day Landings

This year there have been many events held in the UK and especially on the continent to commemorate the 75th anniversary of D-Day (Operation Overlord). On 6 June 1944, the assault from the sea and the air by Allied forces based in Great Britain on Normandy in France began the liberation of western Europe from Nazi tyranny.

Travelling in early September last year, we had the opportunity to find out for ourselves what it was like at the Operation Overlord sites, where the most intense fighting took place in 1944. Our sea route was from Portsmouth to Ouistreham following in route and distance - if not in danger or terror - the route taken by the Allied fleets. We did not expect to repeat the notoriously unreliable "D-Day weather" of June 1944, which was the worst Summer of the century. We sailed in variable weather by day in sunshine and rain, and we spent four nights at Bayeux.

Before D-Day, France was mapped by the Allied forces at a multitude of scales. Normandy was mapped at 25k and an overprint showing enemy defences was added derived from air photographs from RAF Benson: series GSGS 4347. A large scale version (1:12,500) classified Top Secret was produced just of the beaches: GSGS 4490. Of modern maps, the 100k commemorative map produced by Institut national de l'information géographique et forestière (French IGN) is excellent.

The Start of the Trip

Our trip began at the Pegasus Bridge which crosses the canal that joins Caen to the sea. This was captured by British troops who landed by Horsa gliders just after midnight of 5-6 June. The



Map of landings on the Normandy beaches, at the American Cemetery. South is at the top.

original bridge was moved in 1994 to the grounds of the military museum; being replaced by a bridge of near identical design, but wider and longer. We had a coffee in the Café Gondrée next to the bridge, still run by the first family to be liberated.

We drove east to the German battery complex at Merville. The guns in their bunkers were assumed to be capable of firing at the Allied forces on Sword Beach. A British parachute force landed and managed to disable the battery during the crucial period of the seaborne landing. However, fighting over it continued until August 1944. We drove next to Riva Bella. At the end of Sword Beach, this was the easternmost point of the D-Day landings.

Inland a few kilometres through Colleville-Montgomery (renamed after the war) to a German bunker complex codenamed Hillman by the Allies. This part of Normandy near the coast is mostly low lying with undulating hills that formed locally significant observation points. The bunkers of Hillman are well-preserved and stocked with memorabilia of the German forces.

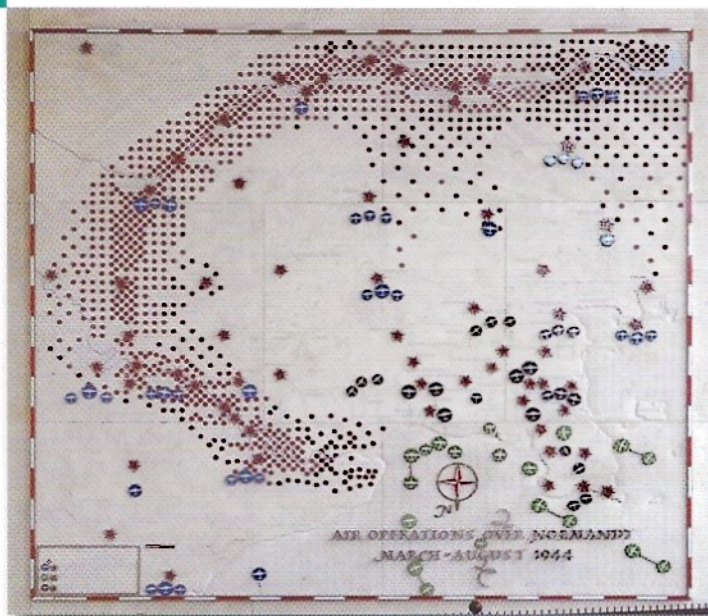
Our last stop was at Courseulles-sur-Mer on Juno Beach. Many

vestiges of the conflict remain: a German bunker lies slumped into the sands. There is a tank by the dunes and nearby a memorial to the Poles. A little to the east is the museum dedicated primarily to the Canadian forces. The names of the fallen appear on a series of columns, but the arrangement was not clear and Nicholas searched in vain for the name of his father's Canadian cousin, who came ashore here with the Royal Winnipeg Rifles and was killed in September 1944. John's uncle also came ashore at Juno after D-Day but survived the war to tell the tale, reluctantly, of the Normandy campaign to his inquisitive nephew.

We returned to Bayeux for the first of three evenings exploring this pretty town. It was captured on 7 June, suffering little of the damage inflicted on the much larger Caen.

Not Just Beaches

The next day we drove to Arromanches, where we parked at the top of the cliff facing east. It was overcast all day, but there is a good view of the remnants of the Mulberry harbour, one of two artificial harbours constructed in June 1944. This eastern harbour, nicknamed Port Winston, covered



Map of Air Operations over Normandy, at the American Cemetery. South is at the top.

an area twice the size of Dover harbour.

We walked down the steep road. The museum includes some models of the artificial harbour, including the caissons. Nicholas gave his lecture here, on Operation Overlord logistics; a big subject for ten minutes so he concentrated on oil, boots, chocolate and maps.

Up until now, we had only seen the beaches (Sword, Juno and Gold) along the coast but Normandy is not all beach. Far from it. Our next three stands were all near the tops of the cliffs separate Gold and Omaha, and Omaha from Utah. The second

stop was at Longues Battery; a group of immensely strong German bunkers with guns facing north. Then west to the American cemetery near Colleville-sur-Mer. There is a repetition in Normandy village names which was confusing to

Allied soldiers and travellers today. Here, there are over 9,000 individual gravestones, plus a list of over 1,500 missing in action. The principal monument has a series of giant maps engraved on the walls which explain Operation Overlord. The projection is such that the maps do not appear distorted when viewed from below. By this time it was drizzling, providing a suitably miserable background to the solemn surrounds.

We drove west to the headland of Pointe du Hoc (misspelt Hoe on some WW2 maps). Here was a German gun battery, which was assaulted by US Rangers who scaled the hundred-foot high cliffs

on the morning of 6 June only to find that the guns had been removed. The whole area is pockmarked by craters as it was bombed before the Rangers assaulted. The nearby Maisy battery was forgotten until an annotated map was discovered in 2004 and the battery was excavated.

We went west again to Vierville, the west end of Omaha Beach and the site of the other Mulberry harbour destroyed in the violent storm of 19 June 1944. Little remains except a concrete landing stage. "Bloody Omaha" saw heavy American casualties on D-Day. The opening scenes of 'Saving Private Ryan' take place here and a new statue replicates a scene from the movie.

Our final stop at Sainte Mère Eglise 45km drive from Vierville. The village was assaulted by US paratroopers on 6 June. One of these was caught on the church steeple and hung there for two hours before being captured. A mannikin of him and his parachute remains to enthral visitors. This was officially the first village in France liberated by American forces. The new Airborne Museum there deserved the extra drive.

Moving Inland

The final day was very different. Moving inland from the beaches and forward in time by six weeks, we followed the route of Operation Goodwood on 18-21 July 1944. This was an Allied attempt to break out of the bridgehead and advance south through the open, flat country east of Caen. This was preceded by Operation Epsom, an attempt to break out south-west of Caen. We went first to Hill 112, the highest point in the area. It is not much of a peak and had no French toponym. Its wartime name is simply its altitude in metres, a military nomenclature used from Gallipoli to Vietnam for hills that had no name (or whose names were in some strange language). John gave a lecture on



Map of the Break-out from Normandy, as far as the "Battle of the Bulge" in Dec 1944. At the American Cemetery.

the campaign here, emphasising the significance of Hill 112 with its commanding views and the heavy infantry losses sustained in attempts to take it.

The day showed the value of having contemporary maps to show how the countryside appeared at the time. Much of rural France in the early 20th century was like England: criss-crossed by numerous railways which were closed and demolished in the 1950s or 1960s. The embankments of one of these lines were an obstacle for the tanks in 1944. They hardly exist now. However, the modern visitor can be confused by the post-War suburban sprawl of Caen and new motorways. The Bourguébus ridge, a much more significant military obstacle than its low height would suggest, now has twenty wind turbines which dominate the view to the south.

We stopped at six locations

scattered across the plain. The "vast fields" of France here were bare and exposed to a cold wind, and we could see that this would have been good tank country. It was not good enough: the plain was too narrow for the number of tanks committed, and the advance south made less progress than hoped.

We returned to Bayeux. It is of course the home of the Tapestry commemorating an earlier invasion in the opposite direction, the battle of Hastings and the conquest of England in 1066 and we made a visit to its museum.

The emotional climax of the tour was our visit to the Commonwealth cemetery in Bayeux, where we laid a wreath. The main memorial has the inscription *Nos a Gulielmo victi victoris patriam liberavimus*: "We, conquered by William, freed the homeland of the Conqueror". It is



Map of Amphibious Assault Landings at the American Cemetery. South is at the top.

a fitting epitaph for those brave soldiers, sailors and airmen from the British Empire and its Commonwealth who, joining with those from many nations, gave their lives liberating France. We salute them.

By Nicholas Hutchings and Dr John Peaty

Photographs, © 2019 Nicholas Hutchings

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In our delight and wonder at beautiful maps, we may perhaps be forgiven that maps need to work for people. Sometimes maps need to be used by people we don't normally interact with, like the Marketing Department.

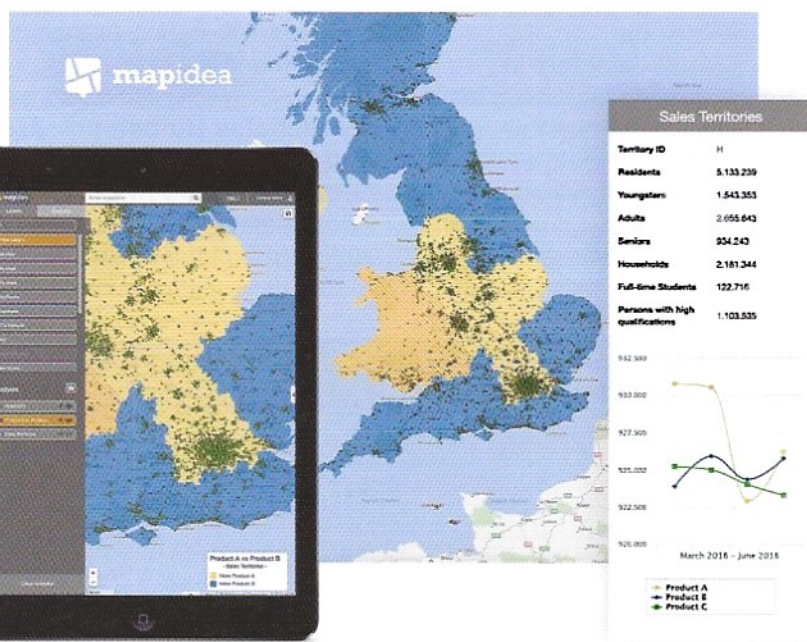
granted that maps are easy. The reality is that for other areas of activity, extracting proper value from geographic information can be challenging. That's why we have created Mapidea: to enable organisations to use the power

of maps and location analytics in their business decisions in a simplified way." says Miguel Marques, Executive Director.

Mapidea aims to be the world's most user-friendly software to visualise and analyse spatial data, providing location analytics for businesses. By targeting Retail & FMCG, Telecommunications & Utilities, Healthcare & Pharmaceutical and Banking & Insurance sectors, Miguel aims to make life easier for those who just want to know the answer to a spatial enquiry and whose technical expertise specialises in planning sales strategies in Excel. By being able to access information quickly, this speeds up the competitive advantage required in these growth industries.

If you would like to request a demo, then contact them for more information:

<https://mapidea.com/demo/>

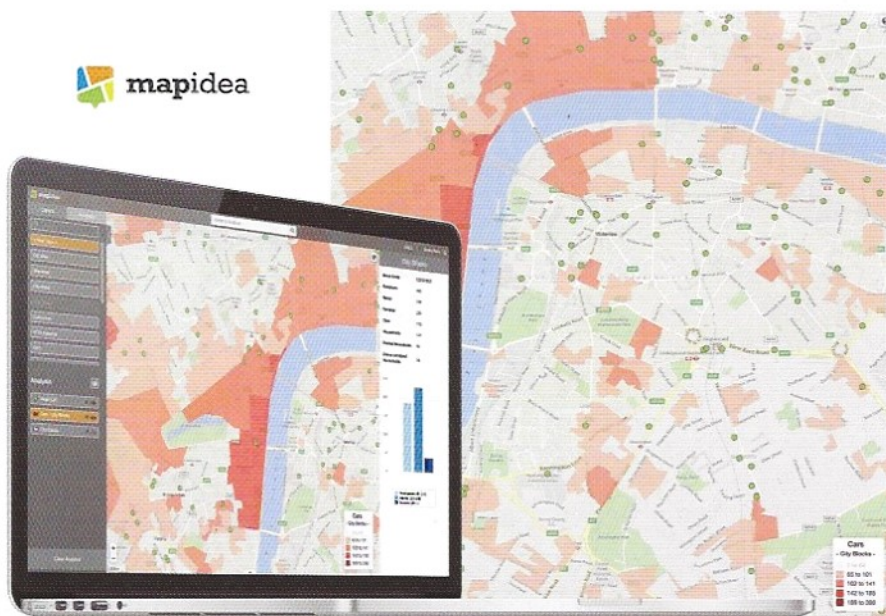


© 2019 Mapidea

Mapidea is a new solution to provide logistic and strategic data to marketers, who want to see their data represented spatially, but don't have the time or inclination to learn GIS. Based in Portugal, Miguel Marques, the CEO of Mapidea has been perfecting the online-based tool to make spatial data and statistics as accessible as possible for four years, after teaching GIS at University of Lisbon for many years.

"GIS community takes for

© 2019 Mapidea



Circular Economy

Within Higher Education

Dr Hans van der Kwast has worked in Higher Education for many years and is currently working as Senior Lecturer Ecohydrological Modelling at IHE Delft Institute for Water Education, in the Netherlands. The university is recognised as the largest international graduate water education facility in the world and is related with the United Nations. We got to meet during a MissingMaps Mapathon being held at IHE Delft and discussed how he became involved with the organisation. An insight into the life of a GIS lecturer came about and these are the notes from this conversation: He started his didactic career as a junior lecturer in GIS at the department of Physical Geography at Utrecht University, where he created education materials for ESRI ArcGIS. During his PhD and his work as a researcher at the

Flemish Institute for Technological Research (VITO) his focus moved to free and open source software and developing Python code for environmental modelling, GIS spatial models, land-management and urban heat islands.

On his return to the Netherlands in 2012, when Dr Van der Kwast

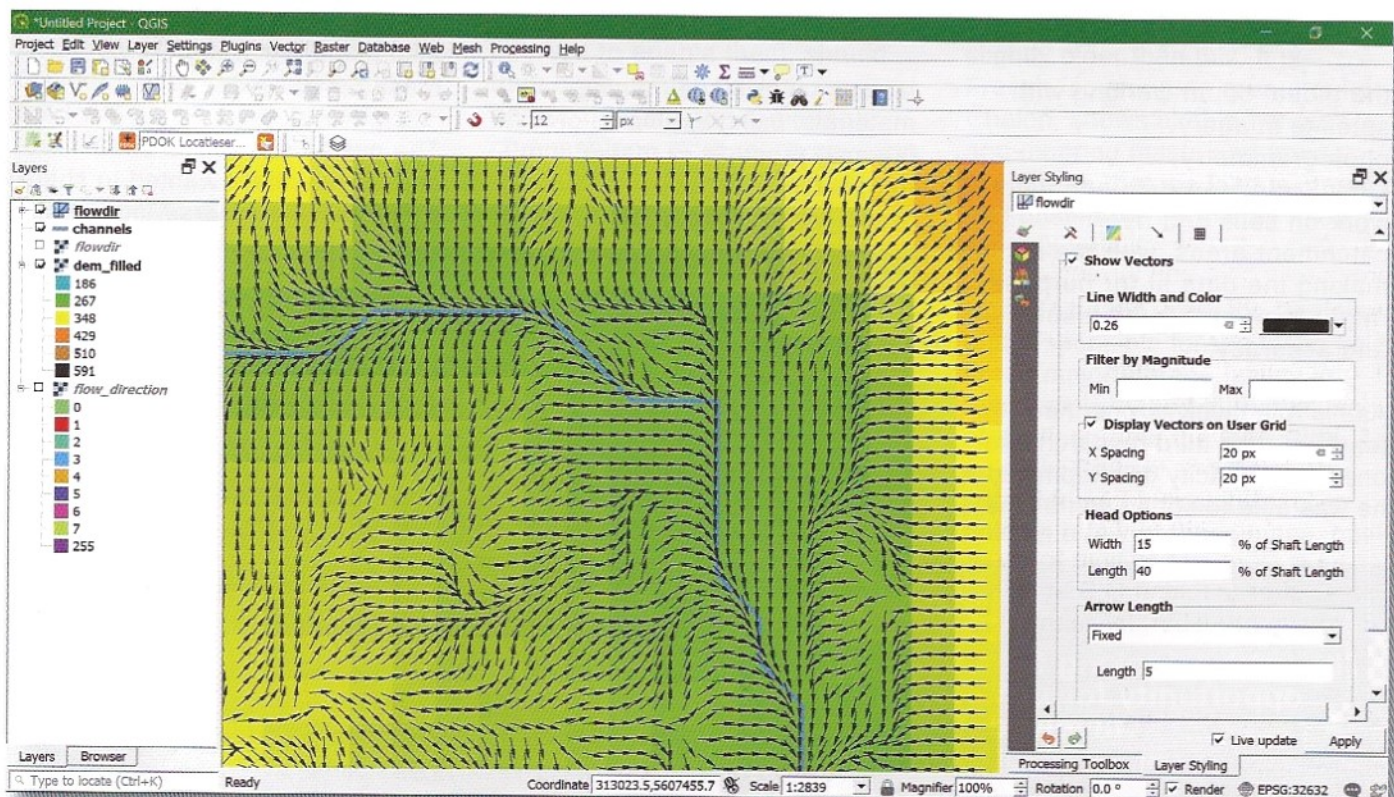
the opportunity to take their practical knowledge back home with them. As many students come from all of the world, students are not restricted in their thinking or application of their GIS studies. As well as this, Dr Van der Kwast was keen that students experience the real-world economy, working on real case-studies and using open

“By using Open Source software as default to teach the concepts of GIS, you enable students to make their own choice of software and tools for the future.” Dr Hans van der Kwast, Senior Lecturer Ecohydrological Modelling at IHE Delft Institute.

started at IHE Delft, he wanted to shake it up a bit in lecturing GIS, as most students were still only having classes in ArcGIS. By switching to QGIS, students have

datasets such as those from ESA and NASA.

He has spent some time addressing the requirements in



QGIS for Hydrological Applications

Recipes for Catchment Hydrology and Water Management

Hans van der Kwast
Kurt Menke

locat-e
PRESS

take place at IHE Delft and where you can learn GIS in an international environment. This includes support, the official QGIS certificate and participation in a mapathon.

- 4 MSc in different water related disciplines, where you develop in-depth GIS skills over 18 months.

Dr Van der Kwast is also writing a book on QGIS for hydrological applications, with Kurt Menke. The book will be used in the MSc and short courses. This provides several levels of engagement with the university and provides different income streams which can be used to develop more diversity in the QGIS community.

The money from the paid-for courses goes to the university (win) and the profits from the book goes to funding MissingMaps Mapathon pizza and drinks (win). The book also funds certain students' trips to QGIS and FOSS4G conferences and hackathons (win). While at the Mapathon, everyone is asked to contribute to MissingMaps and the money goes straight to the local Red Cross (Nederlandse Rode Kruis) – a double-win. And the data from the Mapathon is also useful for water management (win).

The overall strategy is so impressive, that I wanted to share it with other teachers / lecturers working in GIS, who may want to do something similar in their own institution.

By Caroline Robinson, Senior Editor

Photo copyright: © 2019 Dr Hans van der Kwast.

the global south working with satellite imagery, photogrammetry, OpenStreetMap data and field work on soils and river catchment areas, with the aim of making the data fit for purpose rather than high-level resolution and accuracy.

As his role involves one third teaching, one third research and one third capacity development, he was able to spend some time

making tailor-made training materials, using examples of bringing products to market into the course work.

There are four levels of engagement with GIS at the university now:

- 1 Open CourseWare, which includes free online tutorials and a YouTube channel.
- 2 Paid for online GIS courses, where you get support and the official QGIS certificate.
- 3 Paid for short courses, which

BCS - TREASURER

The BCS is looking for a new Treasurer. This is a voluntary position and is an ideal opportunity for someone with the right skills to support the Society and get involved. Full details can be found on our website on www.cartography.org.uk/careers

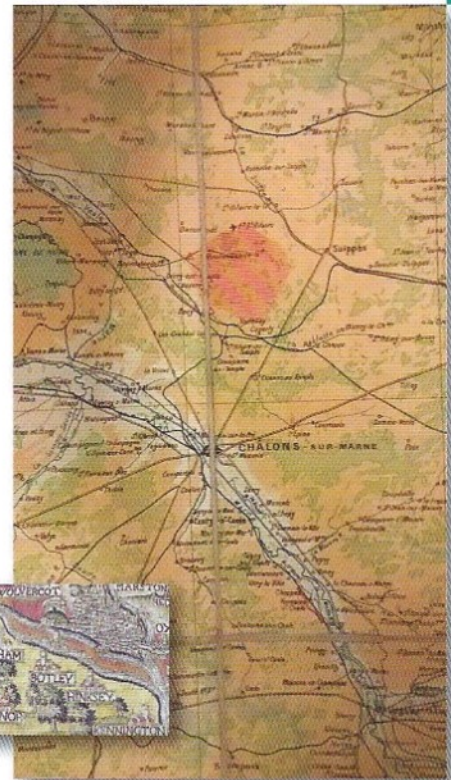
Flying Visit to the Bodleian Library

Hunting for Maps for the Royal Air Force Club Library

When I was asked to arrange a BCS Fellows' Lunch at the RAF Club, I wondered what else we could do other than chat, eat and drink. I thought how about a visit to the Club's Library and see the maps they hold – alas there aren't any! The RAF Club Library does have books on military history and is building up a collection of books on more recent conflicts, but no maps.

I volunteer in the Bodleian Library Map Room, Oxford, which looks after nearly two million maps. Our

Bodleian Library holds a number of duplicate maps which RAF Club Library may want to stock up on. The librarians also discussed how best to catalogue their holdings. In return, Debbie Hall, a Library Assistant and expert 'cataloguer', and I paid a visit to the RAF Club. We met Gaynor and Peter Elliot from RAF Club Library. I had been in contact with Peter in his previous job at the RAF Museum about the story behind the 'Q' Type sailing dinghies



Map of Chalons in 1910.

“The RAF Club Library does have books on military history and is building up a collection of books on more recent conflicts, but no maps.”

RAF Map Librarian at the Bodleian, Nick Millea, invited Gaynor Cooper, a volunteer in the RAF Club Library to come and visit us in Oxford. The

given to Coastal Command crews in WWII to enable them, should they ditch, to sail back to dry land across the Atlantic! A magnetic compass and cloth maps covering

an area from Northern Norway to North West Africa were included in the dinghy pack. The other issue we spoke about was 'Y' Maps which were used in WWII for radar/target identification with H2S radar.

Our oldest aeronautical chart at the Bodleian library is stamped and dated 1910 so it may be slightly older than this. It is French, covering an area around Chalons, shows airship hangars and mooring masts and at one site a note that the land is marshy and unsuitable for use by fixed wing aircraft.

Stuart Ackland, from the Bodleian and responsible for the maps held in our major storage facility in Swindon, provided a brief listing of duplicates for the RAF Club. As a result, Gaynor and Peter are considering the possibility of holding a few of these maps, but space is limited. We hope that members of the RAF Club will continue their research at the Bodleian Map Room, in the meantime.

By Peter Jolly
www.rafclub.org.uk/library

RAF Club Library in the background.



BSC-SoC Conference | Southampton 2019

The 2019 BCS and Society of Cartographers Annual Conference will be held on the 11-12th September at Great Britain's National Mapping Agency - Ordnance Survey. This enlightening

two-day event attracts specialists from commercial, academic, and governmental organisations whose common interest lies in using and promoting maps as a valuable communication device. It provides

both a valuable and enjoyable opportunity to learn and share information about recent projects, join focused discussion groups and network with colleagues and experts sharing the same interest.

Day One - Better Mapping

BSC-SoC Conference, with RGS & IBG | OS HQ Southampton, 11 September 2019

However you use, share or visualise geographic information, whether through traditional cartography or any form of geographic information system, the need to understand how to create better maps is paramount. With use of geospatial data at an all-time high, never before has the importance of understanding the fundamentals of good map design been greater. A poorly designed map can at least diminish effective communication of information to users and at worst result in misled and even dangerous decision making.

Better Mapping promotes good cartographic practice to the mapping industry and beyond. Our day of seminars features a number of expert presenters, covering a range of topics and techniques that are designed to help you improve the quality, accuracy and effectiveness of your maps and presentation of geospatial data.

Welcome

09:30 Registration & Refreshments

10:00 Welcome & Introduction: BCS and Making Maps Better - *Richard Carpenter, UK Hydrographic Office*

Getting Started

When creating a map, one must first gain true insight into user requirements but also source and prepare data – with an understanding of different data types and formats – as well as plan and then manage the project.

10:15 He's Got the Whole Round World in his Hands: Map Scales and Projection - *Giles Darkes, Freelance*

10:40 Tools of the Trade - Project Management in Cartography - *Clare Seldon, Steer*

11:05 Return of the OS Road Map - Renaissance or Rehash? - *Mark Wolstenholme, Ordnance Survey*

11:30 Refreshments

What Makes a Good Map

There are no hard and fast rules with cartography, however experience teaches us some tried and tested techniques that will promote better mapping.

11:50 Principles and Generalisation in 2019 - *Christopher Wesson, ESRI Global*

12:10 What's Below the Cartographer's Desert? - *Liam Mason, Marine Scotland*

12:35 Map Critiquing - *Group Exercise Led by Charley Glynn, Ordnance Survey*

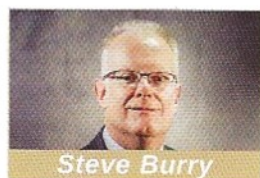
13:00 Lunch

14:00 Laying the Foundations for a Better Map: A Follow-up Exercise to the Critique

- *Group Exercise Led by Christopher Wesson, ESRI Global*

Improved Understanding Through Appearance

Good cartography depends upon the successful communication of a map's information. There are a number of specialist techniques we can share beyond principles, in particular for certain types of map.



Steve Burry



Richard Carpenter



Clive Cartwright



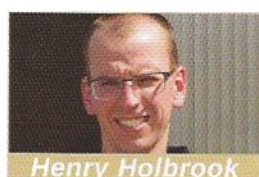
Ken Field



Vivian Godfrey



Elliot Hartley



Henry Holbrook



Jennifer Johnston



Liam Mason



Helen McKenzie



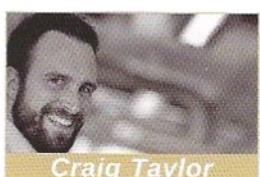
Simon Miles



Clare Seldon



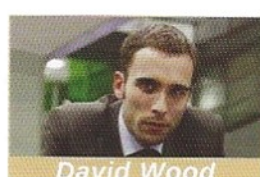
Mary Spence



Craig Taylor



Chris Wesson



David Wood

Speakers

- 14:15 Colourful Language - Effective Use of Colour in Maps - Warren Vick, Europa Technologies
 14:40 Thematic Mapping: Decisions Decisions! - Ken Field, ESRI
 15:05 Challenging the Conventions of Modern Map Making - Jennifer Johnston, Inspirit Cartographics
 15:30 Refreshments
 16:00 Terrain Visualization - Charley Glynn, Ordnance Survey
 16:25 From Winterfell to the Narrow Sea: What I Learned From Creating The Lands of Ice and Fire
 - Dr Jon Roberts, Fantastic Maps (via video link from NYC)

Closing

- 16:50 Mary's Top 10 of What Not To Do - Mary Spence MBE, Cartographic Design Consultant
 17:15 Close

Day One - Map Curators' Group Event

BSC-SoC Conference | OS HQ Southampton, 11 September 2019 | Dispersal, Disposal and Digital Transition: Map Collection Development

Talks

- From the Toilet to Swindon: Bodleian Map Storage Through the Ages
 - Stuart Ackland, Bodleian Library, University of Oxford

Curating the Common Room Collection

- Jennifer Hillyard, The North of England Institute of Mining and Mechanical Engineers

Map Collection Development: Dispersal, Disposal & Digital Transition at the University of Portsmouth

- David Sherran, University of Portsmouth

Digitising a Small Map Collection (On a Shoestring Budget)

- Craig Statham, National Library of Scotland and Museum of the Scottish Shale Oil Industry

Other speakers to be confirmed...

16:00 - 17:00 MCG Business Meeting

Day Two - Main Conference

BSC-SoC Conference, with RGS & IBG | OS HQ Southampton, 12 September 2019

09:00 Registration & Refreshments

09:30 Welcome - David Henderson, Managing Director, Ordnance Survey GB

Opening of Conference - Richard Carpenter, BCS President

Keynote

Evolution of Demand for Maps by the General Public - Vivien Godfrey, Stanfords

10:00 Meet the Corporates - Steve Burry, Dennis Maps / Laura Caton, UKHO / Geomni, More to follow...

10:30 Refreshments

Talk Session 1

11:00 - 12:00

Growing the Geography Profession in Government & the Public Sector - David Wood, Head of Geography

What Could a Future Data Capture and Analytics Paradigm Look Like for a National Mapping Agency - Paul Cruddace, Ordnance Survey

Why QGIS? - Simon Miles, Loose Goat

Talk Session 2

12:00 - 13:00

Maps, Apps & Minding the (Data) Gap: A Week in the Life of a Transport Cartographer - Helen McKenzie, Steer

Stop, Look, Listen, Think! - The Use of Cartography in Data Communication - Clive Cartwright & Henry Holbrook, BGS

Make You Mark: An Alternative Mapping Project - Kate Maple, Solent University

13:00 Lunch

13:45 SoC AGM

14:15 Award Ceremony

14:45 Panel: Visualisation and Cartography Are Different - This exciting debate will be chaired by Steve Chilton and includes Rob Hawkes, Giles Darkes, James Cheshire and Craig Taylor on the panel.

15:45 Refreshments

Talk Session 3

16:15 - 17:15

Rediscovering Cartography - Elliot Hartley, Garsdale Design

Another New Design for an Old Map - Ken Field, ESRI

Bringing Location Data to Life Through Spatial Animation - Craig Taylor, Ito World

17:15 Close

Ticket Prices

- **Non-Members** full price is £96 (incl VAT), early bird £84 (incl VAT)
- **Self-Funding Members** full price £60 (incl VAT), early bird £50 (incl VAT)
- **Employer funded Members** full price £72 (incl VAT), early bird £60 (incl VAT)

For more details and to book your place please use the following links:

- MCG - <https://bit.ly/2LXw9cC>
- Better Mapping - <https://bit.ly/2HmKfA4>
- BCS/SoC Conference - <https://bit.ly/2Hugg8l>

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Talking Maps

Celebration of Maps and Those Who Make Them

Talking Maps

5 July 2019 – 8 March 2020

The Weston Library, Bodleian Libraries, Oxford

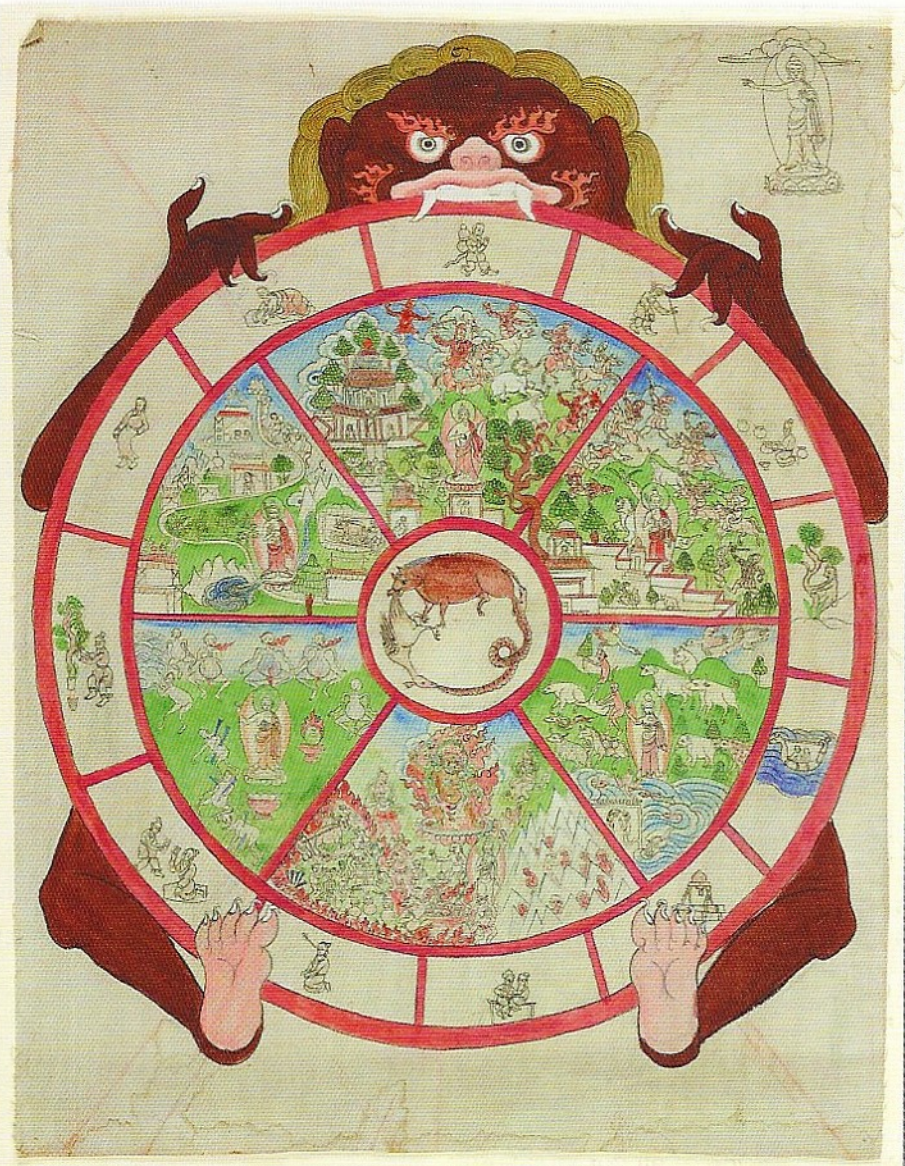
Free admission, no booking required

The Gough Map of Great Britain, © 2019 Bodleian Libraries, University of Oxford.

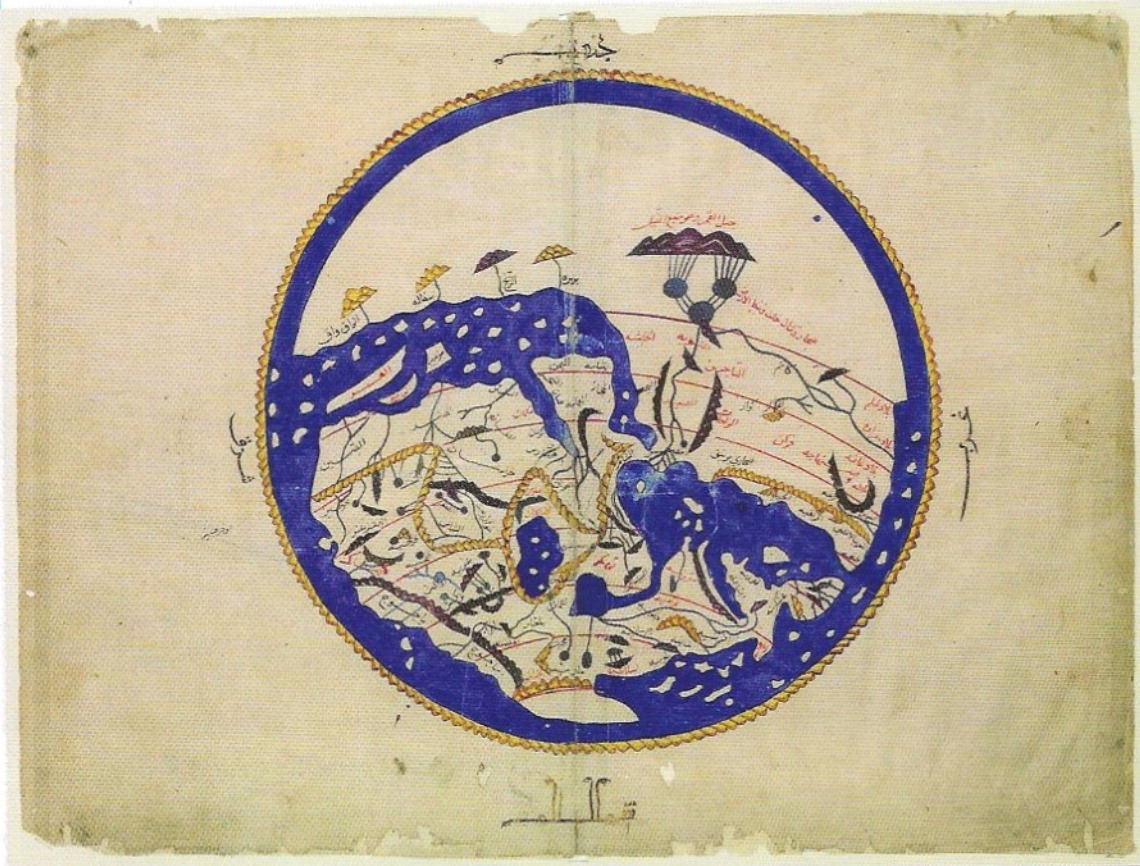
Talking Maps, a new exhibition at the Bodleian Libraries, celebrates maps, the stories they tell about the places they show, and the people that make & use them. The exhibition showcases iconic treasures from the Bodleian's world-renowned collection of more than 1.5 million maps, together with exciting new works on loan and specially commissioned 3D installations. Featuring 'imaginary maps' such as Grayson Perry's Red Carpet and Map of Nowhere and JRR Tolkien's maps of Middle-earth, the exhibition offers a new perspective on the enduring power of maps.

In 2017 Grayson Perry designed this map of the United Kingdom, partly in response to the country's 'Brexit' vote to leave the European Union in June 2016. This was hardly the welcoming 'red carpet' of a nation at ease with itself. Perry described it as 'a map of British society' reflecting 'the density of population rather than the lie of the land'. Scotland is tiny in contrast to London. The

The Tibetan Wheel of Life, EA1956.185 Thangka painting on cotton cloth: Wheel of Time. Image © Ashmolean Museum, University of Oxford.



about the world that help people to understand who they are by describing where they are. It shows how cities are administered using maps, and how they can also be used to deceive its attackers; how maps are used in war, and drawing national boundaries; and how artists can use them to reflect on the state of our nation in light of Brexit. Others provide routes to religious



Al Idrisi's world map, Bodleian Libraries, © 2019 University of Oxford.

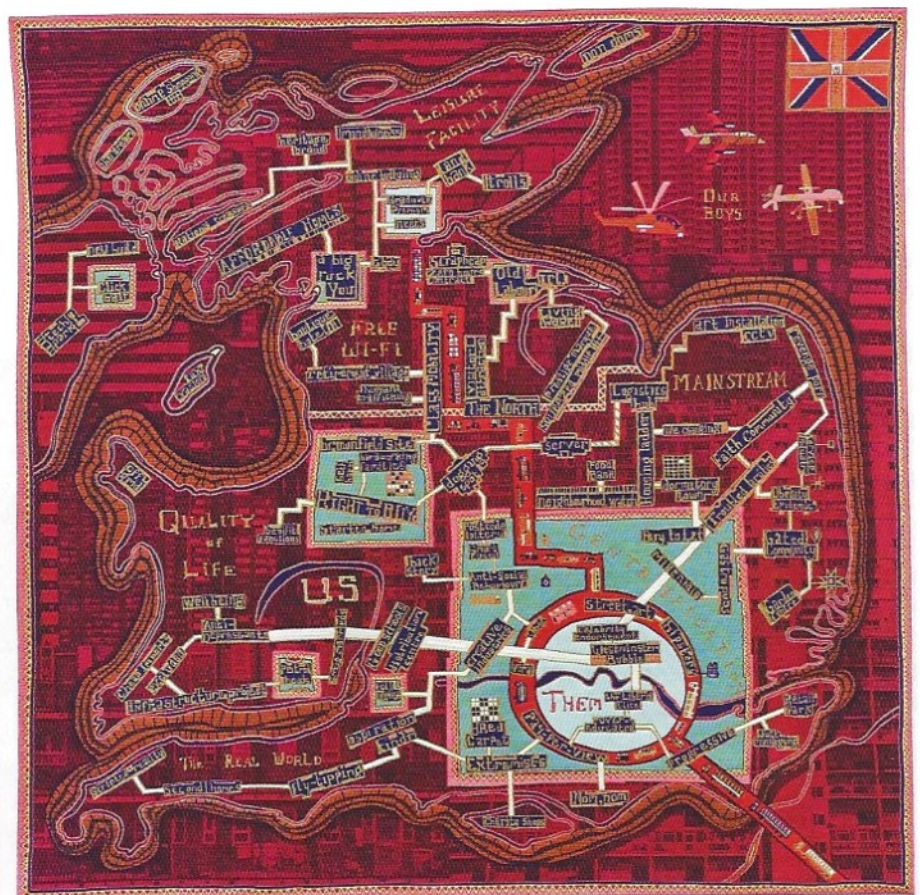
salvation, while online interactive

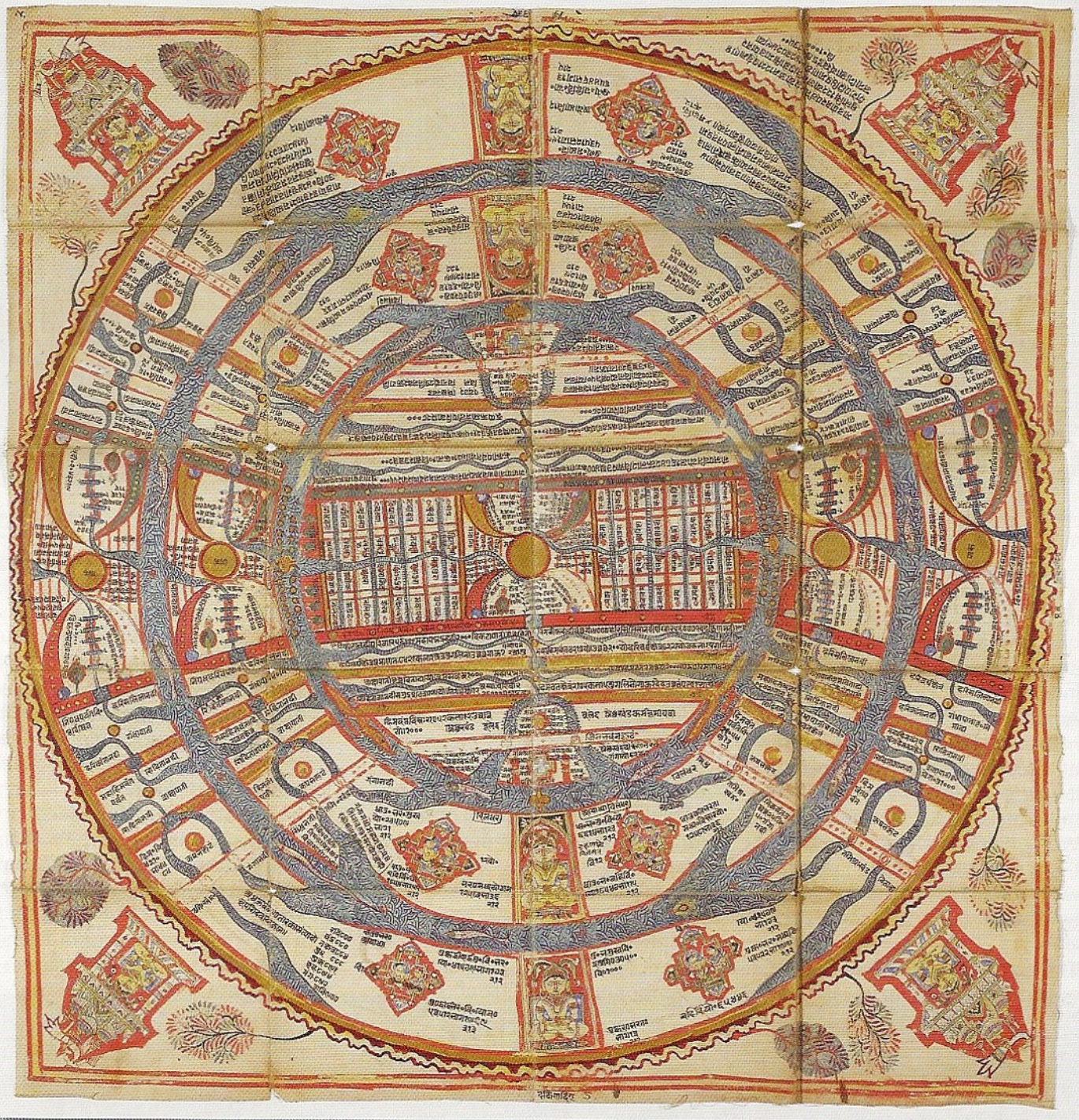
country is covered in 'buzzphrases' that Perry believed captured the national mood: 'Millenials' [sic], 'Gentrification' and 'Zero Hours Contract'.

Red Carpet by Grayson Perry, 2017, © Grayson Perry Courtesy the artist, Paragon | Contemporary Editions Ltd and Victoria Miro, London/Venice.

Talking Maps explores how maps are neither transparent objects of scientific communication, nor ideological tools, but proposals

Map of Nowhere by Grayson Perry, 2008.





A Jain map of the universe, © 2019 Bodleian Libraries, University of Oxford.

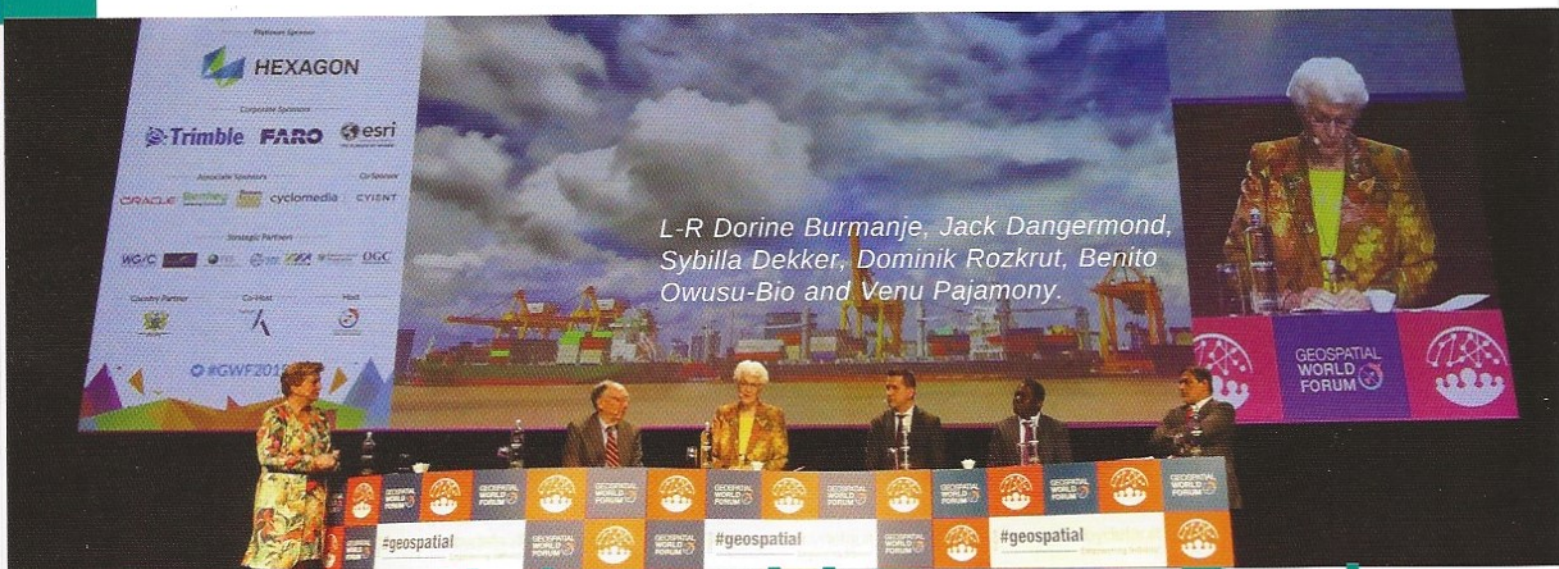


Sharp Plan Christ Church Meadow.

maps show us the global and environmental challenges we face in the 21st century.

The exhibition is curated by Jerry Brotton, Professor of Renaissance Studies at Queen Mary University of London and author of *A History of the World in Twelve Maps*, and Nick Millea, Map Librarian at the Bodleian Libraries.

Go and see these glorious maps in the flesh!



Geospatial World Forum Review

Amsterdam, April 2019

Well, this is a new conference to me and as I stepped of the coach somewhere in the middle of an industrial district, just outside of Amsterdam, I did wonder what I had got myself into. It was raining at the Taets Art & Event Park, so it was good to get indoors and meet some fellow WomenInGeospatial (more about them in a future edition) and then went through to the first Plenary session.

The stars of the international geospatial community were up on-

stage from diplomats to heads of governmental departments to Jack Dangermond, the President of ESRI. These top-level executives from industry, public and political administrations discussed the conference theme of Empowering Billions! To provide insights into how to make geographic information a common language for 7 billion people around the world.

And I was smitten. This conference is a true reflection of the global geospatial sector. Dangermond was talking about going digital (!), whereas Rozkrut was describing how to

make data open, open source, open metadata with open algorithms. When national governments spend huge amounts of money on infrastructure, they want to make it as efficient as possible says Dekker. Pajamony wants businesses to invest in infrastructure in India, asking geospatial businesses to "come and work with us!". Owusu-Bio described the difficulty in good governance in a country where there is incredibly old data from colonial times and inconsistent current data collection.

The next plenary was all about



Jack Dangermond, President of ESRI, discussing smart city development.





Carola Vershoor, Chief Digital Officer at Royal Haskoning DHV.

big data, working in the cloud and Artificial Intelligence (AI). I was most impressed by Carola Vershoor, Chief Digital Officer at Royal Haskoning DHV, who went on to describe several different strategies for enhancing society. By harnessing governmental, postcode and weather prediction models, for example, to help mitigate heavy rainfall on assets for insurance companies. She stressed the difficulty of trying to balance these advances in

technology while trying to engineer transparency into the process and providing legitimisation of the output. She explained that they were bringing in techniques from the gaming world to make the quality of geospatial closer to reality. There were break-out sessions and workshops explored these themes and more in greater detail.

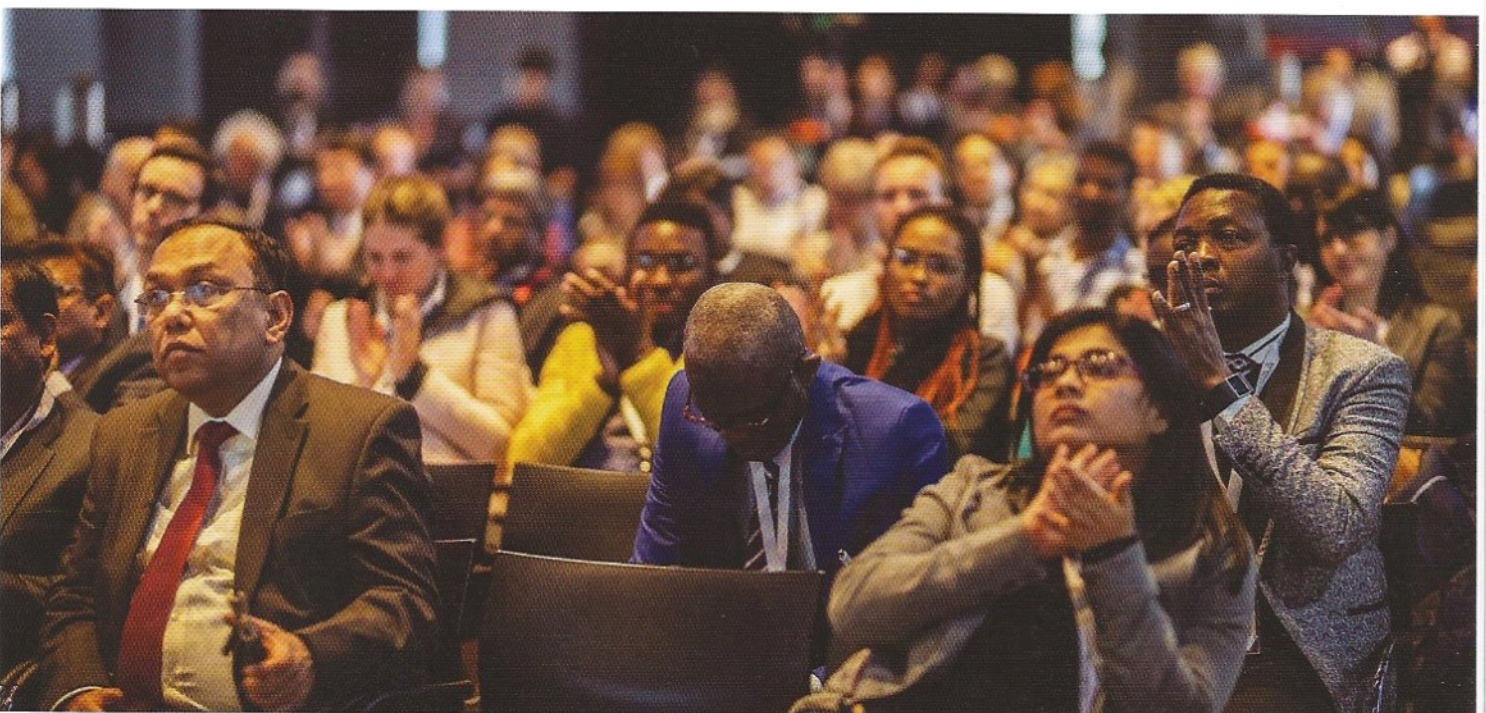
After attending many different geospatial events around the UK,

why did I think this event was different? Sanjay Kumar, the Founder & CEO of the Forum explained why he established 'another' geospatial conference. His background is in political science particularly in how developing countries can exchange trade & technology between each other. In doing this study he found that many developing countries in the 1990s were reliant on old Russian technology and were looking to upgrade. Kumar then went on the help people benefit local people create micro-jobs, with teaching and training in GIS.

Kumar has developed his Forum to ensure that governments from around the world engage meaningfully with business and other stakeholders, making sure that knowledge is shared between the different user groups and help to remove the GIS silos. The Forum showcases different governmental solutions giving this conference a more international and collaborative feel. It brings together all stakeholders to show the true value of the GIS sector, to national government at the ministerial level.

For instance, when the heads of

Delegates in the crowd enjoying a session.





Sanjay Kumar, Founder & CEO of the Forum.

national surveying agencies came together, I asked how do they see the effect of climate change on data storage for the next 100+ years. One head said "Not concerned with protecting the archiveable geospatial dataset. And we trust the source of the dataset." Another head said "For developing countries, this may be an issue as there is still paper maps stored in one building, which makes it at risk and difficult to recover from fire or flood." Asked whether they found it risky to invest heavily in one platform such as Amazon Web Services (AWS) for governmental data

which dominates the cloud data sector and is there an issue of potential difficulty of future recovery from a commercial entity? "There is a monopoly in storage depositories. The custodian of the data is disappearing as well as the curator of the data. Amazon is definitely changing the marketplace. Regulators need to ensure that there is still competition in providers of cloud storage business solutions in this sector."

Sanjay Kumar is also the Secretary General of the World

Geospatial Industry Council (WGIC) working with institutions like the United Nations. For the next Forum, Kumar aims to bring more social leaders, from NGOs, organisations such as the Open Data Institute (ODi), a Nobel Laureate on child labour and the Gates Foundation to share their ideas. By opening-up and making sure the geospatial industry comes together for the collective good, Kumar hopes that it will create cross-industry partnerships for mutual gain, to help design better business models and ways of working together.

For me this is the best bit about the Forum, the mix of different disciplines within the geospatial industry coming together, top influencers from national governments, non-governmental organisations, open source and proprietary software firms from around the globe moving forwards to a better world for everyone.

Would I go again next year? You bet. When is it next on? 7-9 April 2020.

By Caroline Robinson, Senior Editor

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Geo Business Show Review London, May 2019

The Geo Business Show is a bit of strange beast in that it occupies The Business Design Centre in London for two days which overlaps with the ESRI User Conference (UK) with particularly similar audiences attending. The Show is very much aimed at architects, developers, land-surveyors, local authorities, planning consultants etc and the hardware on site can be very specific.

Sometimes it can be a bit overwhelming and underwhelming

at the same time. There is a constant palpable feeling of competition in the air, on which tool is the best, determined by how much more accurate can you make it. Which is fine if you're one of the 3000+ attendees who is looking to update their land-surveying kit, not so fascinating if you just like good maps.

Myself, however, enjoyed the talks on what is coming up next in the Geospatial industry and this talk called AI & Robotics Modelling Data on Mars by Dr

Mark Woods caught my eye.

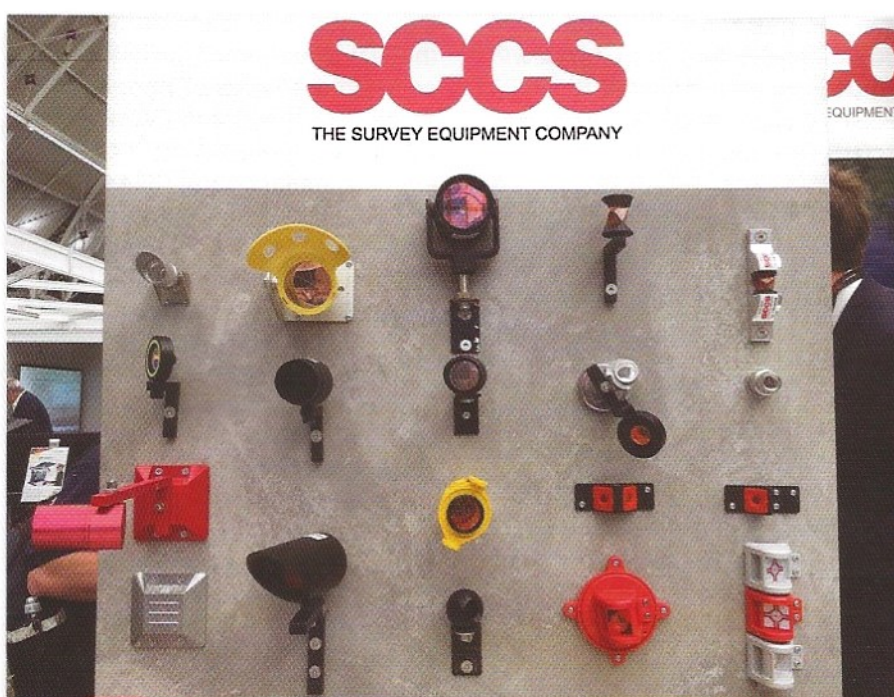
He went into detail about the challenges of manually inspecting construction works in hazardous and dangerous locations such as Mars, when speed, accuracy, consistency, totality and scale were key deliverables. By using Autonomous Vehicles (AVs), the data could be live-streamed back and analysis performed in real time. However, in remote locations like Mars, not only do you have to deal with a harsh environment, but have to deal with a delay in receiving the data. Also, as there is no GPS on Mars identifying where the AVs are going, which can be difficult to plot the best route.

Maybe we need SatNav on Mars and the Moon to make it easier to collect data?

What will be even better next year, is that Geo Business Show and ESRI are creating a week-long conference of all things geospatial. Put London Geospatial Week in your diary for 19 to 22 May 2020.

By Caroline Robinson, Senior Editor

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ESRI User Conference Review

London, May 2019



It's certainly very glitzy. It's certainly very glamorous. Hosting a national mapping event in central London, nay, just off Parliament Square must cost a pretty penny. Is this monolith of a software company keeping up with the times? Meeting new challenges, developing new products, keeping the customer engaged? Well, the ESRI User Conference is certainly the place to come and find out.

The Plenary started off really well with many heart-warming stories about projects that ESRI has been involved in. From Climate Change (surely, it's #ClimateCrisis or #ClimateBreakdown now?), with Tom Crowther, looking at ways

that we can as a species can achieve carbon neutrality around the globe. Big hint, it's has something to do with trees. Then, model railway with sensors that can detect where it was, which was very cute.

And then a rundown of the plethora of new software products available. Here is a short list: Track4ArcGIS, Storymaps, Hub Premium, Survey 123, Insights, ArcGISHub, ArcGISUrban, ArcGISIndoors & ArcPython Notebooks. If you thought that would be easy to navigate, then you must have forgotten the new five user types not limited to ArcGIS Online, ArcGIS Enterprise, ArcGIS Pro. More details here

(www.esri.com/arcgis-blog/products/arcgis-online/announcements/whats-coming-in-arcgis-online-introducing-user-types/). Some which incur Credits (i.e. PayAsYouGo) and some which are part of your annual license (i.e. Didn't we do this in the nineties?). This makes it incredibly difficult for any consultant to promote ESRI products to clients, even if it is the correct solution for them!

I enjoyed the talk by Brian Keenum from the American Red Cross and from Yichuan Shi at the UN Environment. However, I counted the types of people on stage. There were eight men, two women and one BAME. For an event in multicultural, diverse and inclusive London Town, this is quite an oversight on behalf of the organisers. I did find some hidden gems in the workshops afterwards, but otherwise it was quite disappointing to find out that behind the glamour, there is a GIS software company still hiding behind the curtain they bought in the 1990s.

By Caroline Robinson, Senior Editor

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Longitude organisers,
L-R: Chris, Ben and
Ken.

Longitude Review

London, May 2019

Longitude is designed to be a place for the map and data visualization community to converge, meet, and share. Its focus is on engaging a diverse and rich community who do similar work but who perhaps do not necessarily go to one another's events. It's for cartographers, data scientists, visual journalists, coders, students, artists and anyone who uses the visual medium to communicate something about data; to convert numbers and metrics into a message that others are able more easily digest and understand.

It's the brainchild of BCS members Ben Flanagan, Kenneth Field and Chris Wesson. Longitude is a series of informal events. It's not a society. It has no wares to peddle. It's an opportunity to hang out with people who share a passion to explore ways to map and visualize data. We liken it to a convergence. People coming from different walks of life to share what they do.

The idea is simple, invite a handful of speakers, provide some inspiration for discussion and the evening becomes a melting pot of convivial debate.

For the launch event at BrewDog, James Cheshire (UCL and successful author), Alice Gadney (Minimapmakers and wannabe pirate), Ed Parsons (Google and emeritus pilot) and John Nelson (Esri and Adventures In Mapping) provided the rapid talks.

Longitude felt fresh. Nearly 100 people joined us for the evening. We envisaged Longitude as an informal place for people to spend a couple of hours in the company of others who may work or study in seemingly different disciplines and it worked! We want the event to be as diverse and inclusive as possible so share with colleagues in other disciplines.

We all had a good evening and we're encouraged that a quick

show of hands told us it was a format that people enjoyed and would happily revisit. We're planning more events: two will be in London; we'll be in Edinburgh in September and Manchester in October. You can find out more at www.longitude.space. If you would like to speak at a future event, or help us with funding then please email us at longitude.space@gmail.com. The events are free to attend and we'll be providing the drinks!

Thanks for all those who supported and attended our launch in May.

By Ben, Ken and Chris

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