Dear Colleagues

This is the last time I am addressing you with this regular report, as my 4-year presidential term comes to an end at the upcoming General Assembly of the International Cartographic Association (ICA) in Rio de Janeiro in August 2015. The preparations for both, the General Assembly and the International Cartographic Conference, took quite some efforts and extensive considerations involving all members of the Executive Committee, but especially Professor László Zentai, Secretary General of the ICA. I would like to thank him and all involved for their hard work.

In the context of the General Assembly, I am most happy to see that the spirit of ICA will keep on going with nominations of excellent candidates for the Executive Committee and Commission chair positions! While we might see a slight reduction in the number of Commissions, the overall ‘bottom-up’ philosophy of the ICA will continue to be visible in the Commissions’ structure. Preparations for adapting operational guidelines, by-laws and statutes to ensure a smoother and more efficient operation of the Association have been undertaken, with a considerable input from members of the Statutes Committee, namely Bengt Rystedt, Ferjan Ormeling and David Fairbairn.

16th general assembly of ica
rio de janeiro · brazil

The 16th General Assembly (GA) of the International Cartographic Association will be held in conjunction with the 28th International Cartographic Conference (ICC) on 23rd and 28th August 2015 in Rio de Janeiro, Brazil. The Agenda of the GA is now finalised (see page 4).

An important part of the proceedings is to define the number of countries eligible to vote at the General Assembly. Some countries were not eligible to vote at the GA in Paris in 2011, but have since paid their membership, hence their eligibility to vote will be reinstated. Membership of some other countries will be recommended to be withdrawn, unless their membership dues are paid in full prior to the GA in Rio de Janeiro. There is also a number of new national and affiliate members to be ratified by the GA.

After adopting the Minutes of the 15th General Assembly, the next items of the Agenda are the reports from the President, the Secretary General and the Treasurer. The adoption of the 2011-2015 accounts will follow, together with a report from the honorary Auditors (appointed by the previous GA). The proposed budget for the 2015-2019 term will be presented next. The new budget includes extra expenditure associated with the office and travel costs that are expected of an international organisation such as ours. Website management costs, ICA membership fees of the international organizations (e.g. ICSU) and the financial support of the International Map Year will be presented, although the suggested budget is balanced.

The report of the Publications Committee will summarise the publication activities of the ICA. The first volume of the International Journal of Cartography (IJC) will hopefully be published in time for the ICC 2015. According to our Statutes “each national member organisation agrees to send a report to each General Assembly on the cartographic and GI science activities in the country during the previous four years”. These reports will be progressively uploaded to icaci.org/national-reports/.

The reports from the ICA Commissions are an important item of the Agenda. In the current term there are 28 Commissions, each will present a full report of their activities for the 2011-2015 term, and a poster summarising their achievements and displayed prominently to all ICC participants. The Statutes of the International Cartographic Association is the most important document of the ICA. Several motions concerning changes to the Statutes have been received and will require an absolute majority vote from member nations to be accepted. Full details of these proposals, together
Not so long ago I was asked to prepare a set of maps highlighting vineyards in the context of the surrounding country. Conveniently I was able to use the national 1:50,000 topographic database for the task. The idea was to design a topographic map that emphasises vineyards applying a different colour scheme and symbolisation to the ones used on the national series. I was pleased with the first map and simply had to duplicate the same design specifications to complete the set. At that point I realised that I have not documented any of my design parameters and needed a few extra hours to do so!

The issue of proper documentation becomes increasingly important in cartography. Whether it is a design specification, a production workflow, a map series publication schedule, or simply a register of time spent on a cartographic project, good records are a key. The benefits are clear; they allow us to replicate map design and processes, achieve the completeness of a map series and assess production costs and market requirements. Good documentation is also indispensable in cartographic heritage research and quality assessment.

But how good are we really with records keeping? Is it still possible for a local council, or even a national mapping organisation, to provide a topographic dataset from five, ten or fifteen years ago? Are we not on the path of creating an information ‘black hole’? It often feels that we produce far more maps and geospatial information than we are able to properly document. And lack of documentation might lead to non-existence…

The issue of ICA News. Rio de Janeiro invites us to celebrate cartography at ICC 2015. This time, the Conference is coupled with the General Assembly of ICA and its Agenda is described in detail. The International Map Year is in full swing in a number of countries, while children’s world maps are the subject of another Esri Press publication. Thank you for your continuous support.

Igor Drecki | Editor ICA News | ICA

The ICA News is published by the International Cartographic Association (ICA).

President: Georg Gartner | Technische Universität Wien | Austria
Secretary General & Treasurer: László Zentai | Eötvös Loránd University | Hungary
Editor ICA News: Igor Drecki | The University of Auckland | New Zealand

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© International Cartographic Association (ICA) 2015

In the context of the International Cartographic Conference 2015 (ICC 2015), the final preparations are underway. The Conference Programme promises a huge variety of topics relating to contemporary cartography. You will be able to listen to the top researchers, developers, cartographers and GI scientists, and learn about their approaches, methods and results. You will get inspired by forums and discussions, where various perspectives are presented and argued. Exciting keynote presentations will provide details of a particular cartographic problem on the one hand, and try to answer why cartography is so important in the realm of global challenges facing our planet on the other. You will be able to follow the activities of various Commissions, the ‘power-house’ of the ICA, and use this unique opportunity for networking and getting involved. You will have the chance to reflect on why the United Nations Committee of Experts on Global Geospatial Information Management (UNGGIM) have endorsed the International Map Year (IMY) and how you can contribute to make the relevance and importance of maps more visible in your context. You will be able to admire maps submitted to the International Cartographic Exhibition, giving a vote to the one you think is best, and visit the Technical Exhibition to learn about the latest products, solutions and technologies. You will be able to test your skills in reading maps (and running) in the traditional ICA orienteering event and socialise with colleagues, friends and other participants at a number of amazing accompanying events. And most importantly, you will have a chance to share your ideas, perspectives, thoughts, products, solutions, questions, methods or maps with the global community of cartographers attending the ICC 2015!

All those exciting opportunities are set in a breath-taking city and country. Brazil is a huge country with rich history, incredible potential and variety of challenges, something all of us can witness during our stay in Brazil in August 2015. It is not without reason, that Rio de Janeiro is frequently mentioned as one of the most exciting places in the world. It is great to see that ICC 2015 is a major event for Rio de Janeiro this year, positioned right between the last year’s Soccer World Cup and the 2016 Olympic Games! This incredible result, being achieved in a unique Brazilian way, is a testimony to the tireless efforts of the Local Organising Committee, something we are all very thankful for!

ICA is very proud to report that the UN-GGIM endorsement of the International Map Year 2015-2016 has lead to a number of significant activities. The UN-GGIM resolution reads:

The Committee endorses the International Map Year 2015-2016 as proposed by the International Cartographic Association as a valuable means to promote the importance of maps and Geoinformation.

The Committeeners the International Map Year 2015-2016 cont...
The first contact with Esri Press editors regarding this book was made in August 2013, a starting point of a very rewarding collaboration that continued for several months. ICA and the ICA Commission on Cartography and Children wish to express their gratitude to Esri Press representatives and editors for their hard and very valuable work, as well as for their efforts to have the book published in the first half of 2015.


José Jesús Reyes Nuñez | Chair | ICA Commission on Cartography and Children | Hungary
The election of a new Executive Committee is the next item of the Agenda. The following valid nominations for the Executive were received: Menno-Jan Kraak (The Netherlands) for President, László Zentai (Hungary) for Secretary General & Treasurer, and nine nominations for Vice President positions (in the order of nomination date): Sara Fabrikant (Switzerland), Lynn Usery (USA), Vít Voženílek (Czech Republic), David Forrest (United Kingdom), Monika Sester (Germany), Masatoshi Arikawa (Japan), Pilar Sánchez-Ortiz (Spain), Yaolin Liu (China) and Igor Drecki (New Zealand).

The last item of the Agenda will be the selection of the place of the 17th General Assembly and the ICC 2019. Two bids were received – Tokyo (Japan) and Florence (Italy). Both countries will present their bids on the first day of the GA, while the voting will take place on the second day.

The official nomination of national delegates is an important formal requirement from all member countries to take part and vote at the GA. Please make sure the nominations are with the Secretary General of ICA prior to the General Assembly.

László Zentai | Secretary General & Treasurer | ICA
It’s International Map Year all systems go!

The International Map Year (IMY) has started well and anticipates further success with the organisation, by national IMY committees, of national and local Map Days. More and more countries are registered as taking part, including several who are not yet ICA members; many conferences are also including IMY in their programmes; cartographic journals and national cartographic societies are including news on IMY in their outreach. There are moves to establish links with important national and political bodies (for example, the US Department of Education) which may be able to implement changed agendas using IMY ideas and concepts in broader societal activities. The progress can be followed at the IMY homepage, an excellent resource for IMY advice and information. This site is managed by Manuela Schmidt at the Research Group Cartography of the TU Wien, Austria, who is also webmaster of the ICA homepage. ICA is thankful to her for taking on this task in her usual efficient manner, and also recognises the important groundwork laid in the previous year, by two PhD students, Domonkos Hillier and Ádám Bérces, from the Eötvös Lorand University in Budapest, Hungary. We are grateful for their assistance in developing ideas initially agreed by the IMY Working Group which met in March 2014.

The book The World of Maps has been translated to French and Spanish, and can be freely downloaded from the IMY homepage. The French version has also been printed as a special issue of the journal of the Comité Français de Cartographie (CFC) Cartes & Géomatique no. 221, available from the CFC website (www.lecfc.fr/index.php?page=publication). Recently, work has also been started for translation of the book into Arabic, Chinese and Indonesian.

IMY will be officially inaugurated at the Opening Ceremony of the International Cartographic Conference (ICC) in Rio de Janeiro in August 2015. The activities taking place since the start of 2015, will be reported to the ICA General Assembly being held at that event. Further, all attendees at the ICC and the General Assembly will have the opportunity to learn more about what IMY can involve in terms of activities at a national and local level, by visiting the dedicated IMY information desk in the ICC exhibit area. As IMY is scheduled to last into 2016, there is considerable scope to engage in activities such as Map Days, and also map exhibitions, visits to official or commercial mapping establishments, lecture programmes on cartography, all organised in possible collaboration with national mapping organizations, universities that offer cartography courses, and libraries with map collections. Suggestions for such activities are given on the IMY website, along with the downloadable logos, leaflets and on-line book.

It is important to note that IMY is directed towards four main audiences – school children, politicians and government decision makers, professionals in related fields, and the general public. This is a significant opportunity for ICA, and the individual cartographers, cartographic institutions and enterprises it unites, to reach out from internal business to show the power of maps and geographic information to the rest of society.

Bengt Rystedt | Chair | ICA Working Group on International Map Year | Sweden

Number of entries in the Map of the Year contest 1998-2014

Czech Map of the Year ♥ International Map Year

This year, the 17th annual Map of the Year contest organised by the Cartographic Society of the Czech Republic meets the International Map Year (IMY) 2015-2016!

In 1998, the Society decided to celebrate high-quality maps produced by Czech cartographers by introducing an annual professional competition for the best cartographic products in two categories – paper maps and digital products. The response from cartographic companies, government offices and academic institutions surpassed expectations of the organisers; soon after they had to increase the number of categories and… judges. Sixteen years later, the Map of the Year matured and became a popular professional competition, with annual attendance by more than 20 publishers and 100 products. The selection of entries from 17th edition of the Map of the Year will be displayed at the International Cartographic Exhibition in Rio de Janeiro in no less than five categories. Czech Republic promotes IMY through the Map of the Year competition. This year’s winner, the company Geodesy On-Line Ltd, placed the IMY logo directly on their maps. Other participants of the competition also actively promote and support IMY. Information about the International Map Year and associated activities was distributed together with the notification and rules of the 2015 Map of the Year contest, with certificates bearing the IMY logo.

The Cartographic Society of the Czech Republic believes that quality and activity of Czech cartography will continue to grow and strengthen world cartography.

Vít Voženílek | Cartographic Society of the Czech Republic | Czech Republic

Recipients of the 2013 Map of the Year awards with organizers and the ICA Executive Committee members | Photography CARTOCON 2014

The International Map Year (IMY) 2015-2016!
One of the first items in the Virtual Globes Museum:
a 1645 Blaeu terrestrial globe from the Cistercian
Abbey located in the small Transdanubian town
of Zirc. The 68cm globe was made by mounting
paper prints of 18 pairs of the spherical segments
onto a supporting globe. Each segment is 20°
wide and runs from the Equator to the pole. The
virtual globe was made by taking a series of high
resolution photographs of the actual globe and then
georeferencing them into a seamless image. For
more information, please visit:
terkeptar.elte.hu/
vgm/2/?lang=en&show=globe&id=1.

Mike Smith  Editor-in-Chief  |  Journal of Maps  |  United Kingdom

short, JoM is strong evidence for a desire in
spatial disciplines to produce maps. With the
proliferation of digital data, and the ability to
manipulate them within a GIS, spatial
communication has seen increased significance
and resurgence.

Mike Smith  Editor-in-Chief  |  Journal of Maps  |  United Kingdom

Being an obsessed hiker and nature-lover
since my early childhood (infected
by my parents; many
thanks for it), I grew
up as a serious map
user. Later my elder
brother introduced
me the world of
computer programming, and finally I’ve
found the world where these two principles
meet. I count myself really lucky as I
haven’t left the Department of Cartography and
Geoinformatics at Eötvös Loránd
University in Budapest since I enrolled as a
student: after graduating I proceeded
straight to PhD and as soon as I’ve finished it
I was offered a job there.

My main field of interest is “anything that
connects maps and surveying to maths and
programming” so I soon found myself in
various projects from web map games
through globe digitising to visualization of
cave surveys. As a teacher, I’m also trying
to pass on the knowledge I’ve gathered to
my students.

The subjects I teach at our Department
are mostly programming and IT related (like
SQL, webcartography, etc.), but I am also
responsible for Map Projections classes and
– which is always a relief after the hard
semester work – I’m deeply involved in the
summer map correcting field courses held
in the mild forests of the northern Hungar-
ian mountains.

Among the many projects I was involved
in, maybe the most important is the Virtual
Globes Museum – an online exhibition of
3D models of old globes. The background
work of this project integrated many of my
favourite fields: old maps, mathematical
methods, programming. This project, apart
from being the main subject of my PhD,
inspired several bachelor and master theses
and spin-off projects, such as digital globe
restoration and the compilation of planetary
globes.

Mátyás Gede  |  Department of Cartography and
Geoinformatics  |  Eötvös Loránd University, Budapest
|  Hungary  |  saman@map.elte.hu

One of the first items in the Virtual Globes Museum:

profiles  journal of maps

The Journal of Maps (JoM) was founded in
2003 out of the realisation that there were few
peer-reviewed outlets for maps that were
produced principally as outcomes of academic
research. Map production is often seen as the
drafting of figures to support academic
manuscripts and so have to fit within the A4
publishing paradigm. Yet there are many
academic subjects that have a close affinity to
the “spatial domain”, such as geology,
geodemographics, geomorphology, archaeology,
transportation to name but a few.

The JoM supports the publication of
bespoke, research based maps. As an
inter-disciplinary journal, JoM is split in to
Science and Social Science sections in order to
cater for the diverse range of maps we publish.
A subject specialist Associate Editor assigns
two external peer reviewers (operating an open
review system) with an additional review by a
professional cartographer (who is also an
Associate Editor). As many of the maps
submitted to JoM are designed by the authors
their quality can be variable – the cartographic
review often results in changes to the design of
the map, significantly enhancing the quality of
the final product.

With the first issue published in 2005, we
have just celebrated our 10th volume - over
that time we have grown from a self-published
5 articles over 56 pages to (last year) 62
articles over 639 pages published by Taylor
and Francis. In 2009 it became citation listed
and currently has an Impact Factor of 0.9. In
SBC also maintains relationships with large companies providing mapping equipment, as well as national aerial photogrammetry companies and prominent private organizations engaged in cartography and mapping work.

At an international level, SBC is associated with and represents Brazil at the following international organizations:

- International Federation of Surveyors
- International Cartographic Association (ICA)
- International Society for Photogrammetry and Remote Sensing

The Brazilian Society of Cartography is administratively responsible for the organization of the International Cartographic Conference (ICC) in Rio de Janeiro in August 2015. The General Executive Board of the Conference is chaired by Prof Dr Paulo Márcio Leal de Menezes, Vice-President of the ICA.

SBC publishes the Brazilian Journal of Cartography, which is a recognised and highly respected journal amongst the cartographic community of Brazil and South America. There are four regular issues published annually and at least two thematic ones. The Journal receives contributions in English, Spanish and Portuguese.

The SBC’s ten Technical Commissions cover all subjects of cartography and related disciplines. There are Technical Commissions on Cartography, Geodesy, Photogrammetry, Remote Sensing, Education, Cartography and Children, Cadaster, Hydrography, GIS, among others.

Members of SBC Executive Board are elected by the cartographic community; these are voluntary positions and their mandate lasts three years. The current Executive Board was elected during the 49th Ordinary General Assembly of SBC held on 16 July 2014 in Rio de Janeiro.

Paulo Márcio Leal de Menezes | Sociedade Brasileira de Cartografia, Geodésia, Fotogrametria, e Sensoriamento Remoto | Brazil
It seems that even the passing of 25 years have not made the issue of inappropriate use of 'rectangular maps' go away...

Igor Drecki | Editor ICA News | ICA

ICA Newsletter, No 15, May 1990

MIS-USE OF RECTANGULAR MAPS

Rectangular world maps, such as the Mercator projection, should not be used for general purposes or artistic displays, according to a joint statement just released by six major professional organizations of geographers and cartographers. Although a globe is the only true representation of the round earth, and thus is the only way to show all shapes, relative sizes, and distances correctly, only half can be seen at once. The organizations point out that flat maps of the whole world "are more useful than globe maps, but flattening the globe surface necessarily greatly changes the appearance of the earth's features and coordinate system." However, "world maps have a powerful and lasting effect on people's impressions of the shapes and sizes of lands and seas, their arrangement, and the nature of coordinate system," and "frequently seeing a greatly distorted map tends to make it 'look right'."

"Therefore," the groups conclude, "we strongly urge book and map publishers, the media, and government agencies to cease using rectangular world maps for general purposes or artistic displays. Such maps promote serious, erroneous conceptions by severely distorting large sections of the world, by showing the round earth as having straight edges and sharp corners, by representing most distances and direct routes incorrectly, and by portraying the circular coordinate system as a square grid. The most widely displayed rectangular world map is the Mercator (in fact a navigational diagram devised for nautical charts), but other rectangular world maps proposed as replacements for the Mercator also display a greatly distorted image of the spherical earth."

The resolution originated with the Committee on Map Projections of the American Cartographic Association (ACA) and has the endorsement of the ACA, the Association of American Geographers, the Canadian Cartographic Association, the National Council for Geographic Education, the National Geographic Society, the American Geographical Society, and the Geography and Map Division of the Special Libraries Association.

[...]

ACSM Press Release | June 1989
Art and Cartography
artcarto.wordpress.com/

Commission Activities
The ICA Commission on Art and Cartography is organizing two events at the upcoming 27th International Cartographic Conference in Rio de Janeiro. The first one (co-organized with the ICA Commission on Maps and Society) is a pre-conference workshop entitled Mapping Ephemeralities / Ephemerality Cartographies that will take place on 21-22 August 2015 at the University of the State of Rio de Janeiro. The goal of this workshop is to provide an intellectual and creative space to share different ideas and methodologies about mapping evanescent elements such as memories, stories, sensations and perceptions about places, as well as a practical environment to learn how some of these methodologies and technologies can be used and adapted for designing (online) maps of ephemeral phenomenon. The full program of the workshop is now available online at artcarto.wordpress.com/2015/05/13/mapping-ephemeralities-program/.

Ateliers
www.univie.ac.at/cartography/karto/project/cnra/

Symposium in Rio de Janeiro, Brazil
A pre-ICC 2015 Symposium on Atlases, Toponymy and the History of Cartography will take place on 19-21 August at the Brazilian Institute of Geography and Statistics (IBGE) in Rio de Janeiro. It is organized jointly by the ICA Commissions on Atlases and the History of Cartography, and the Joint ICA Working Group / IGU Commission on Toponymy. The event will feature 23 oral presentations delivered by Brazilian and international experts, and technical visits to the National Library (Fundação Biblioteca Nacional) and the Navy Museum (Museu Naval). The Symposium is expected to attract about 60 participants.

Ana Cristina da Rocha Bérenger Resende | Local Organizing Committee | Brazil

Children's Map Competition
An invitation to share and exchange opinions on the Barbara Petchenik Children's World Map Award has been sent out by the Commission, with the aim of improving this international competition. Submissions can be made by e-mail, or by leaving a comment on Commission’s Facebook profile or ICA website. Our idea is to collect and analyse submitted opinions prior to ICC 2015, and then discuss the outcomes and results at the Commission business meeting during the ICA Conference. This will enable preparations for the next four year term 2015-2019.

For announcement about the Children Map the World book recently published by Esri, please refer to page 3.

José Jesús Reyes Nuñez | Chair | ICA Commission on Cartography and Children | Hungary

Cartography and Children
lazarus.elte.hu/ccc/ccc.htm

Symposium in Niterói, Brazil
A joint Symposium on Cartography Beyond the Ordinary World will be held at the Institute of Geosciences of the Fluminense Federal University in Niterói, Brazil on 21-22 August 2015. Four ICA Commissions are organising the event:
• Cartography and Children
• Maps and Graphics for Blind and Partially Sighted People
• Planetary Cartography
• Cartography in Early Warning and Crisis Management
A total of 30 paper and poster abstracts have been received, with a strong Brazilian participation in each of the fields represented by the four Commissions. The Symposium’s proceedings will be published digitally with an ISBN number. A visit to the Benjamin Constant Institute (IBC), the Brazilian institution founded in 1854 to support and promote educational activities for blind and visually impaired people is part of the programme.

The Symposium is part of the International Map Year celebrations organised prior to the ICC 2015 in Rio de Janeiro. It will provide an excellent occasion to share and exchange ideas and experiences of mutual interest to members of the four commissions. At the same time, it will be a unique opportunity to develop a professional, constructive and innovative dialogue with colleagues representing Brazilian academic, research and educational community. The organizers welcome all individuals interested in the relevant fields covered by the wide spectrum of research, teaching and development undertaken by our Commissions.

For more information about the Symposium, please contact Angelica Carvalho Di Maio (Brazil) dimaio@vm.uff.br or José Jesús Reyes Nuñez (Hungary) jesusreyes@caesar.elte.hu. The event’s website is niteroi2015.elte.hu.

Cartography in Early Warning and Crisis Management

Workshop in Novosibirsk, Russia
The ICA Commission on Cartography in EarlyWarning and Crisis Management, together with Department of Cartography and Geoinformatics of the Siberian State University of Geosystems and Technology (SSUGT), the International Society for Digital Earth (ISDE), the International EuroAsian Academy of Science (IEAS), ISPRS, FIG and the Government of the Novosibirsk Region, organized the 6th International Workshop Early Warning and Crisis Management in the Big Data Era on 21 April 2015. The Workshop was part of the InterExpo GeoSiberia 2015 program organized by the SSUGT and Exhibition Operator LLC InterExpo GeoSiberia within the Xth International Scientific Congress and Exhibition held on 20-22 April 2015 at the Novosibirsk Expo Centre, Russia.

The theme of the Workshop was inspired by the Commission’s Research Agenda that considers Big Data as a new, ubiquitous term to describe large datasets that are challenging to store, search, analyse, share and visualize. Effective management and analysis of the Big Data in emergency management theory and practice brings great benefits for reducing...
the consequences of natural and human disasters. Big Data mining is the capability of extracting useful information from large datasets or streams of data. The Big Data paradigm is also coming with new potential for handling and visualizing of data. The Big Data challenge is becoming one of the most exciting opportunities for the future.

The Workshop was opened by Milan Konečný who delivered a welcome address on behalf of the ICA President Georg Gartner. The main issues discussed at the Workshop were:

- Big Data theories and applications in early warning and crises management
- Collaborative emergency decision-making based on geoinformatics/geomatics and cartographic support
- Internet of things – from vertical development to horizontal integrations
- Emergency management information systems
- Geographic information science and technology for early warning, crisis response and management
- Modelling and simulation based on multimedia data
- Information acquisition and fusion of Big Data
- Analytical modelling and simulation
- Ubiquitous, adaptive and context-based mapping – determining and estimating future threats
- Foresight, planning and risk analysis integration
- Community policing in early warning and crisis management
- Media effectiveness analysis of crisis response

The one day program was attended by more than 100 participants, mainly young scientists and students. Amongst other, the following papers were delivered:

- Big Data: The Geoinformatics and Cartographic Agenda by Milan Konečný, Czech Republic
- Big Data in Smart City by Deren Li
- Research in Cognitive Human-Computer Interactions for Decision Support in

Emergency Situations Response by Eugene Levin et al., USA
- Russia Geoinformatics and Cartographical Support for Research of Preconditions of Hydro-meteorological Emergencies in the Charysh River Basin (Altai Krai) by I N Rotanova, Russia
- The Use of Space Imagery from Satellites of the Russian-Belarusian Spacecraft Constellation Intended to Control Natural and Industrial Disasters, Land Use, Forestry, Ecology and Provide Free Access to Geospatial Content by Andrey V Danelyan, Russia

Relation Big Data to Local Natural Hazards: Lessons Learned from Data Mining the Twitter API for Volunteered Geographic Information on Earthquakes, Wildfires, and Prescribed Fires in the Contiguous United States by Jessica L. McCarty et al., USA

Assessment of MODIS Device Data for Flood Monitoring as an example of Flooding on the River of Chulym in 2014 by M P Shagaev and E N Kulik, Russia

Integration of GIS Subsystems for Crisis Management at the Municipal Level by A V Dubrovsky, E L Kim and Y K Mishustina, Russia

Development of Geospatial Solutions for Different Territorial Levels by S Yu Katsko, Russia

The Workshop’s program was chaired by Milan Konečný, Svetlana S Dyshlyuk, Dimitrij V Lisickij and Andrey V Demenev, last three from SSUGT in Novosibirsk.

Future Plans

Currently, the Commission concentrates on organizing a joint Symposium of three ICA Commissions and a Working Group in Niterói, Brazil prior to ICC 2015 (niteroi2015.else.hu) and finalising the Terms of Reference for the next term 2015-2019.

Milan Konečný | Chair | ICA Commission on Cartography in Early Warning and Crisis Management | Czech Republic

Cognitive Visualization

www.geo.uzh.ch/microsite/icacogvis/

Commission Activities

The ICA Commission on Cognitive Visualization (CogVis) was established at the last meeting of the General Assembly in Paris in 2011. Since that time, we have grown to be an active Commission, holding at least one event each year in a variety of locations across Europe and North America, typically in conjunction with at least one other Commission.

CogVis membership currently stands at 216 members, representing 31 countries. We welcome new members with an interest in cognitive issues and visualization. You can join by registering your interest at our website. In our next term, we hope to expand participation in our Commission from geographic areas that are currently under-represented, including South America, by holding several events in Curitiba before the upcoming ICC, and in Asia, where we plan to hold at least one event in our next term, should the General Assembly choose to renew our Commission.

Our achievements include the organization of sessions and scientific activities at nine meetings, conferences or workshops, and we have thus far produced special issues in three journals: Cartographic Journal, International Journal of Geographical Information Science, and Cartographic Perspectives. You can find a full listing of our activities at www.geo.uzh.ch/microsite/icacogvis/activities.html, and we invite you to visit our Commission webpage for the details of these publications www.geo.uzh.ch/microsite/icacogvis/publications.html.

Before ICC 2015, in cooperation with the ICA Commission on Use and User Issues, we are organizing a workshop in Curitiba on conducting empirical user studies. This workshop is directed to postgraduate students and early career researchers, or those who are new to user studies. We will present a range of modules we have developed over the last term, in addition to some new materials on eye tracking, which was the focus of a very well-attended workshop we co-organized with the ICA Commissions on Use and User Issues and GeoVisualization in Dresden in 2013. We hope to attract students from many countries, including Brazil, to this workshop.

A second pre-ICC 2015 event that we are co-organizing in Curitiba, again with the ICA Commission on Use and User Issues, but also in conjunction with the ICA Commissions on Map Design and GeoVisualization, aims to produce the first steps towards developing a research agenda for the area of Interactive Cartography.

We would like to acknowledge the excellent support we have received from our Brazilian colleagues at the Paraná Federal University, who have made organizing the logistics of this
meeting possible. They have also helped us to organize some social events and the chance to see a bit of their wonderful city during our visit. We hope that many of you can join us in Corfu for what promises to be a stimulating couple of days—it is only a short 1-hour plane ride from Rio de Janeiro. If you are interested in joining us for one or both events, please register your interest at www.cartografia.ufr.br/home/?page_id=200.

As we mature as a Commission we have big plans for our next term, including cooperation with some Commissions with whom we have not yet worked, such as the ICA Commission on Art and Cartography, with whom we hope to organize a joint event in the near future. Sara Fabrikant, the current Commission Chair, will be stepping aside to run for the ICA Executive. Amy Griffin is nominated as Commission Chair, and Sidonie Christophe of France has been invited to join the leadership team as co-Chair.

Amy Griffin and Sara Fabrikant | Vice Chair / Chair | ICA Commission on Digital Technologies in Cartographic Heritage | Australia / Switzerland

Digital Technologies in Cartographic Heritage
www.web.auth.gr/ICA-Heritage/

Conference and Workshop in Corfu, Greece

The 10th Jubilee Conference of the series Digital Approaches to Cartographic Heritage organized by the ICA Commission on Digital Technologies in Cartographic Heritage since 2006, was held in one of the UNESCO's World Heritage sites, the Old Town of Corfu, on 27-29 May 2015. The hosting institution was the History Department of the Ionian University, a unique small university specialising in history, translating and interpretation studies, information sciences and informatics, and music and audiovisual arts. The Conference was accompanied by two parallel events, the intensive tutorial Georeferencing for Non-experts and the Map Exhibition Corfu: 18th Century Planimetrics of Baronies.

The History Department of the Ionian University (IU), the School of Rural and Surveying Engineering (AUTH-SRSE) / Cartoheritage Group of the Aristotle University of Thessaloniki, and the Hellenic Cartographic Society (HCS) sponsored the Conference in partnership with the General State Archives of Greece – Historical Archives of Corfu (GAK-IAK), the Map & Geoinformation Curators Group (MAGIC), the International Web Journal e-Perimetron, and the Commission’s Supporting Institutions: Cartographic and Geological Institute of Catalonia (ICGC), University of Venice (IUAV), National Library of Scotland (NLS) and Eötvös Loránd University (ELTE).

Almost 150 participants from 25 countries attended the Conference, featuring 43 papers in eight plenary sessions within the following thematic groupings: GLAM (the established acronym for Galleries, Libraries, Archives, Museums), the digital and the web, issues on aerial photography; projections and georeferencing; old maps, texts and geoinformation; processing and interpretation.

At the opening ceremony in IU’s Aula Magna, eight honorary awards were presented to colleagues representing institutions which actively support the Commission over the past 10 years. The awardees were:

- Dr Carme Montaner, Vice Chair of the Commission, representing ICGC
- Prof Francesco Guerra, IUAV
- Prof László Zentai, ELTE
- Prof Dimitrios Anoyatis-Pelé, IU

- Prof Dimitrios Tsoulis, AUTH-SRSE (provided resources to the Commission since its inception in 2005)
- Prof Lysandros Tsoulos, HCS (provided institutional support of the Commission in the ICA)
- Prof Nikos Karapidakis, GAK (provided resources to the Commission through the Archives of Cartographic Heritage in Thessaloniki)
- Dr Anastasia Tourta, Emeritus Director of the Museum of Byzantine Culture of Thessaloniki (hosted the first Commission conference in 2006 and sponsored the restoration of the third known, extant copy held in Greece, of the rare Anthimus Gazis World Map, Vienna 1800)
- Admiral Rtr A Maratos, Rector of the IU, Dean of the Faculty of Information Sciences and Informatics, and former Director of the International Hydrographic Office; Prof Miljenko Lapaine, Chair of ICA Commission on Map Projections; Prof R Rubin from the University of Jerusalem; Prof L Rombai from the University of Florence; Dr P Buonora, Director of the State Archives of Rome; and Prof E Livieratos, Chair of the ICA Commission on Digital Technologies in Cartographic Heritage handed the honorary awards at a ceremony brightened by a musical intermezzo for two guitars and a flute played by students of the IU Department of Music.

The 6-hour Georeferencing for Non-experts intensive course was held at the GAK-IAK in the Old Fortress. The tutorial on georeferencing was especially designed for and addressed to participants, academics and professionals coming from non-technical backgrounds, i.e. history of cartography, map curatorship in libraries and archives, and affine fields dealing with historical maps and their reading, analysis and interpretation. The tutors presented georeferencing alternatives and relevant examples of good practices in digital transformations of historical maps, with the use of a freely available application platform. 25 participants from 14 countries attended the course facilitated by Prof E Livieratos, Prof C Boutoura, Prof V Tsioukas (AUTH-SRSE), Dr A Tserlini (ETHZ-IKG), Dr P Pridal (KLOKAN) and Dipl Math F Makris (AUTH-SRSE).

The Map Exhibition organised by the Historical Archives of Corfu (GAK-IAK) displayed unique and rare manuscript plans and land registers of the island’s Baronies, by known Venetian surveyors (e.g. Costantin Rosa Sicuro, Alessandro Ganassa, Girolamo Semitecobo) from the late Venetian domination of Corfu (18th century). The Exhibition was organised in cooperation with the AUTH-SRSE Cartoheritage Group. For more information about the Corfu Conference, please visit xeee.web.auth.gr/ICA-Heritage/Corfu.

Evangelos Livieratos | Chair | ICA Commission on Digital Technologies in Cartographic Heritage | Greece
Education and Training

lazarus.elte.hu/cet/

Commission Activities

Since the last report on the ICA Commission on Education and Training (see ICA News, No 62, June 2014, pp 13-14), we have been preparing our next formal meeting and contributing to discussion on issues related to the education of the next generation of cartographers. These activities have been undertaken in conjunction with other ICA entities (the Commission on Maps and the Internet, and the Working Group on International Cartography) and associated organisations (the US University Consortium on GIS (UCGIS), the North American Cartographic Information Society (NACIS)).

David Fairbairn, Commission Chair, presented a paper on accreditation of cartographic education at the Annual Meeting of the Association of American Geographers in Chicago in April 2015, and participated in a panel discussion on some of the practicalities of teaching cartography within a broader GIScience syllabus. A special issue of the journal Cartographic Perspectives, published by NACIS in the USA, will be devoted to cartographic education in late 2015, reflecting on the Chicago proceedings and considering the role of cartographic education in contemporary higher education. The US-led initiative (2006) in developing the Body of Knowledge for Geographic Information Science and Technology (GIS&T) has been instrumental in shaping education in the past decade. Along with European input from an AGILE-led initiative, the US UCGIS is looking at Body of Knowledge Plus, updating and extending the potential syllabus for education in GIS&T. ICA was invited to their meeting in Chicago and hopes to contribute in some way to this project.

In the tradition of collaboration with other ICA Commissions, the Education and Training Commission has planned a pre-conference workshop (before the main ICC in Rio) in Curitiba, Brazil, 20-21 August 2015. This will be jointly presented with the Commission on Maps and the Internet, and consist of a practical hands-on class, led by Prof Mike Peterson (University of Nebraska at Omaha, USA), addressing Mapping in the Cloud. Concentrating on developments in APIs for mapping and GIS, this class will be of significant benefit to those cartographers wanting to update their knowledge of this rapidly changing area, and particularly to students hoping to learn about contemporary cartographic practice in the context of their educational syllabus. The practical session will be complemented by talks by a range of international cartographers on issues and experiences in the classroom, primarily related to the influence of the Internet on such practices. These presentations will stand alongside the accepted papers for those several sessions devoted to topics of education, and of Internet issues, which are already in the programme for the main conference in Rio, which starts one day later.

Reflecting the commitment of ICA to education in its broadest sense, a training workshop in the Indian Ocean nation of The Maldives will be offered under the auspices of the Commission later in 2015. As the successful architect of previous ICA training courses, in Iran, Vietnam and Indonesia, the former chair of the Commission, Dr David Fraser (Australia) has kindly volunteered to take on the significant task of organising this course, and continue the work of the Commission in expanding the role of ICA around the globe.

David Fairbairn | Chair | ICA Commission on Education and Training | United Kingdom

Generalisation and Multiple Representation
generalisation.icaci.org/

Workshop in Paris, France

The relationship between user, task and the design of maps is well known. In a technologically deterministic world, the past 60 years has seen a significant expansion of map generalization and, as part of that process, to model explicitly this critical triad of relationships. Ontological modelling has been held up as a medium through which such conceptualizations and their inter relationships can be modelled – a framework by which we might move from pen and ink diagrams through to a formal knowledge representation language such as OWL (www.w3.org). Such formalism opens the door to machine learning and the idea that the geography of the landscape can play an integral part in the design process. But what are those conceptualizations? How do we step through this process? What might be the collaborative benefits of such an endeavour? These questions were explored through a two day workshop Ontologies and Map Generalization organised by the ICA Commission on Generalisation and Multiple Representations and held in Paris on 26-27 March 2015. Among the international participants were two ontology experts from the University of Manchester, Robert Stevens and Sean Bechhofer, who chaired the various discussions and steered the groups through various Agile (rapid prototyping) tasks.

The two days were intended to create common ground in both ontological methods and shared understanding of the many conceptualizations that relate to map generalization. The ambition of such work is to:

1. create a framework through which open source solutions can be developed and shared
2. develop on-demand web based systems capable of producing thematic maps in response to user requests

The task is very much ‘on going’ and future events will hopefully present case studies illustrating the flexibility that ontological modelling affords. A more detailed report summarising the findings of the workshop can be found on the Commission website (generalisation.icaci.org/index.php/preevents).

Future Plans

Next activities of the Commission are the organisation of ICA-ISPRS Workshop on Generalisation and Multiple Representation in Rio de Janeiro on 21 August 2015 together with...
GeoVisualization
geoanalytics.net/ica/

Introduction
The Commission on GeoVisualization of the International Cartographic Association (ICA) was established in 2007 by Gennady Andrienko (Fraunhofer Institute IAIS, Germany) and Jason Dykes (City University London, United Kingdom) to continue the work of the highly successful Commission on Visualization and Virtual Environments, which was key in establishing the emergent discipline of ‘GeoVisualization’ since 1995.

The main focus for the period 2007-2015 was on the use of interactive maps and cartographic techniques to support interactive visual analysis of complex, voluminous and heterogeneous information involving measurements made in space and time.

In 1995 interactive maps were predominantly used by scientists involved in analysis and hypothesis generation in the private realm. Now interactive maps are being widely used for research, education and information consumption through a range of accessible media and technologies in a variety of disciplines and applications scenarios on all sorts of computers in all sorts of places. In this broad and evolving context there is a clear need for the cartographic community to contribute to and learn from the development and use of interactive maps and cartographic techniques that are designed specifically for visual analysis. These interactive maps are being used as flexible spatial interfaces and are being applied to data sets that were either unavailable in 1995 or that could not be visualized through existing technologies and techniques. They are being applied to data sets that are massive, collected in real time by advanced sensors, and not necessarily spatial. They are used increasingly in GIScience and beyond for knowledge building and theory generation, decision support, disaster management, information communication, education and learning.

Workshops, Special Issues and Research Agenda
During the eight-year period, the Commission has organized workshops on a regular basis as a focus and forum for research activity in which possibilities for geovisualization are explored and knowledge about geovisualization is established. Most of the workshops have been attached to major conferences (e.g., ICC, GIScience, AGILE) whilst several others have been organized as a successful stand-alone conference at HafenCity Universität Hamburg. Jochen Schiewe and his team at the g2Lab have established the GeoViz conference series as an innovative, original and inspiring forum for presenting and discussing new ideas in geovisualization. The workshops have resulted in 11 special issues of established journals:

- GeoVisual Analytics: Interactivity, Dynamics, and Scale (CaGIS in preparation)
- GeoViz: Interactive maps that help people think (UGIS 2014)
- GeoSpatial Visual Analytics: Time to Focus on Time (Information Visualization 2014)
- GeoViz – Linking Geospatialization with Spatial Analysis and Modelling (Cartographyica 2011)
- Challenging Problems in GeoVisual Analytics (JVLC 2011)
- GeoSpatial Visual Analytics: Focus on Time (UGIS 2010)
- GeoSpatial Visual Analytics: Focus on Time (ILBS 2010)
- GeoVisualization and the Digital City (CEUS 2010)
- GeoSpatial Visual Analytics (CaGIS 2009)
- Geovisualization of Dynamics, Movement and Change (Information Visualization 2008)
- Geovisual Analytics for Spatial Decision Support (UGIS 2007)

The commission prepared several strategic papers associated with these activities and publications, including:

- Space, Time, and Visual Analytics, DOI 10.1080/13658816.2010.508043

These papers received a large number of citations and have helped shape ongoing research in geovisualization.

Cartography and Computer Science
An important achievement of the Commission is the cross-fertilization of geovisualization research activity in broader disciplines within computer science, including information visualization, data mining, and the important developing area of visual analytics. Commission members aim to contribute cartographic knowledge to these disciplines and learn from and take advantage of the knowledge and techniques that they offer. One particular focus has been the influential IEEE VIS conference series (rated A+ by CORE) and associated journal IEEE Transactions in Visualization and Computer Graphics (A). These high-ranking computer science conferences have seen a wide range of papers and presentations from Commission members and cartographers more widely since 2007. Cartographic ideas are informing and influenced by visualization – for instance Dykes et al. (2010) used the cartographic back-catalogue to create prototypes and establish guidelines for legends.

Future Plans
Currently, we are editing a special issue of the Computers, Environment, and Urban Systems international journal on New Insights into Location-based Social Media Data.

Bin Jiang and Xiaobai Yao | Chair / Vice-chair | ICA Commission on Geospatial Analysis and Modeling | Sweden / USA

A session at the International Conference on Location-based Social Media, Athens, Georgia, USA | Photograph courtesy of Bin Jiang
in visualization, whilst Bernhard Jenny (2012) developed adaptive composite map projections and an interactive interface through which these can be explored.

Citations of cartographic work in the visualization literature are increasing as the cartographic literature influences visualization. Several cartographers are now on the programme committees of VIS and IEEE TVCG and many cartographers review regularly to transfer knowledge of geovisualization to this broader community. Andrienko is now Associate Editor of IEEE TVCG and papers chair of the IEEE Visual Analytics Science and Technologies conference (VAST) at VIS — a role previously held by Alan MacEachren. Dykes has twice been papers chair of IEEE Information Visualization (InfoVis) and is now a member of the conference steering committee — the first member of the cartographic community to hold such a position at a major visualization conference. And this works both ways. Senior members of the visualization community are publishing innovative work in cartographic fora and developing interesting and informed cartographic techniques in the visualization conferences and journals.

Core research produced by Commission members has involved new methods of representation, knowledge about representation techniques, and models of interaction and for design.

EU Research Projects

Commission members have participated in several EU-funded projects that helped with this activity, including VisMaster: Visual Analytics — Mastering the Information Age (2008-2010), MODAP: Mobility, Data Mining and Privacy (2009-2012), MOVE: Knowledge Discovery for Moving Objects (2009-2013), Energetic: Exploring Research into Geospatial Information Crowdsourcing: software and methodologies for harnessing geographic information from the crowd (2013-2017), VALCRI: Visual Analytics for Sense-Making in Criminal Intelligence Analysis (2014-2017). The Commission has thus helped to promote the role of geovisualization through these projects and in these disciplines.

Commission on Visual Analytics

In 2015 the Commission will change focus and leadership after the ICA elections in Rio de Janeiro. Anthony Robinson (Pennsylvania State University, USA) and Urška Demšar (University of St Andrews, United Kingdom) will direct the next term of activity. As GIScience enters the big data era, new visual and analytical methods to extract knowledge and value from massive spatio-temporal data sets are in greater demand than ever, and we aim to bring the Commission closer to the established and influential field of Visual Analytics. To reflect this focus, we
propose clarifying the focus of the Commission’s work on visual analytics for spatio-temporal data and to change its name to Commission on Visual Analytics. We will promote and support research that will address the challenges associated with new visual analysis of massive spatio-temporal data sources. To help users solve real world problems, we need new and improved approaches that facilitate analytical reasoning through interactive visual interfaces. As it has done for many years already in its previous incarnations, the Commission will foster interdisciplinary and international collaborations between potential users of map-oriented visual analytics and researchers, as well as between allied research communities in other disciplines and other ICA Commissions. It will build upon the relationships that have been established with Computer Science.

We plan to do this through three different pathways: events, dissemination and web presence. Firstly, we will continue to organise annual meetings, workshops and related events, either on our own or via linkages to related ICA Commissions and/or organisations from allied fields. We plan to develop the new research agenda for the spatio-temporal visual analytics through organisation of specialised expert workshops. We will co-locate some of these events with international conferences (for example, GIScience, Geocomputation, IEEE VIS, AGILE, and other series), to expand our reach beyond traditional cartographic audiences. As an example, our first two events under the umbrella of the new Commission will be the following (organised in collaboration with the Commissions on Cognitive Visualisation, Use and User Issues, and Map Design):

- ICC 2015 Pre-Conference Workshop Envisioning the Future of Cartographic Research on 21 August 2015 in Curitiba, Brazil
- The workshop GeoVIS 2015: Rendering and Cognition with Images and Hybrid Visualisations, co-located with the ISPRS Geospatial Week 2015, 28 September – 2 October 2015 in La Grande Motte, France

Secondly, we will promote dissemination of technical and methodological advances in spatio-temporal visual analytics by providing appropriate publication opportunities, such as special issues of journals on topics related to spatio-temporal visual analytics.

For the third pathway, we will maintain a dedicated web presence for the commission in order to reach audiences beyond attendance at in-person meetings. We plan to increase our engagement with members all over the world through social media, and will introduce new forms of distance participation in Commission activities, including online seminar series and regular twitter chats.

We encourage those with an interest in understanding, developing and applying interactive analytical cartography to participate in Commission activities as cartography contributes to visual analytics.

Jason Dykes | Vice Chair | ICA Commission on GeoVisualization | United Kingdom

History of Cartography
www.icahistory.org/

Symposium in Ghent, Belgium
The ICA Commission on the History of Cartography held its 5th International Symposium at the University of Ghent in Belgium from 2-5 December 2014. The theme of the Symposium was Cartography in Times of War and Peace. The Symposium was jointly organised by the ICA Commission on the History of Cartography, the ICA Commission on Map Production and Geobusiness, and the Brussels Map Circle (BMC) in collaboration with the Department of Geography of Ghent University, and the Research Foundation Flanders (FWO). The various paper sessions were held at Ghent University Conference Centre Het Pand.

As a pre-symposium event, a Second EuroSDR Workshop on the Preservation of the Geographical Production Process took place at the Department of Geography of Ghent University. The initiative was supported by EuroSDR (EuroSpatial Data Research), EuroGeographics (the Association of European National Mapping and Cadastral Agencies), the ICA and the National Geographic Institute Belgium. The first workshop which took place in 2013 was organised by a consortium of Ghent University, Swisstopo and the National Geographic Institute of Belgium.

The aim of the First Workshop (2013) was to bring the preservation problem to the attention of European National Mapping Agencies, academic institutions, museums, private companies, ICA members, and other interested parties and to ask for their cooperation in addressing this situation. The aim of the Second Workshop was to create a European platform to investigate this matter and to propose a concrete plan to preserve and open up knowledge on cartographic production processes during the 20th century.

The ICA Commission on the History of Cartography pledged its support for this venture and undertook to investigate to what extent pre-digital map production processes and procedures have been archived and documented by National Mapping Agencies.

The Symposium was open to cartographers, geographers, historians, map collectors, academics and lay persons interested in the history of cartography. A total of 29 papers were presented and organized into 10 sessions. The Symposium was attended by approximately 55 people, with majority of participants coming from Europe (Finland, France, Belgium, the Netherlands, Germany, Austria, UK, Switzerland, Czech Republic, Croatia, Greece), whereas others came from as far afield as the USA, Australia and South Africa.

To complement the Symposium, the former Map Librarian of the Royal Geographical Society in London, Francis Herbert, kindly exhibited approximately 50 military maps from his private collection. The maps covered various military events such as the Crimean War, the Boer War, the First World War, and the Second World War.

The social aspect of the Symposium was well catered for with a guided visit to the In Flanders Fields Museum in Ypres, which is dedicated to exhibits relating to the First World War, followed by dinner and the attendance of the daily Last Post Ceremony.

The conference dinner took place on Thursday 4 December after a guided visit to the Mercator Museum in St Niklaas.

Elri Liebenberg | Chair | ICA Commission on the History of Cartography | South Africa

The Symposium audience in Het Pand, Ghent University Conference Centre (left); Francis Herbert (left) explains some detail on a military map to Caroline de Candt (centre right), while Imre Demhardt (centre left) and Paul de Candt look on | Photograph courtesy of Elri Liebenberg
Map Design

mapdesign.icaci.org/

Commission Activities

The Commission’s MapCarte series of daily blogs (at mapdesign.icaci.org) ended on 31 December 2014, concluding the 365 strong series of great examples of map design. The site has seen wide acclaim and acts as a repository of high quality cartography across the spectrum of products, both historical and contemporary. Each map includes an extract, links to larger or high resolution versions and a brief commentary outlining its merit in design terms. Occasional blog posts will continue to mark worthy maps going forward. The blog has 200 subscribers who have been following and sharing the MapCarte series. About 30 of the blogs have also been turned into contributions for a forthcoming book by Phaidon Press to celebrate the rich variety of cartography from a design perspective.

Chair Kenneth Field and Commission member Damien Saunder are working on a new cartographic design book with Esri Press that is well underway and should be published in 2016 to align with the ICA International Map Year. Additionally, Vice Chair Alexander Kent has recently published an edited book, entitled Cartography: a Reader alongside Steve Chilton to showcase some of the very best papers in The Bulletin of the Society of Cartographers.

The book celebrates the 50th anniversary of the Society. Alex is also preparing another cartographic book along with Professor Peter Vujakovic, Canterbury Christ Church University, UK.

A number of members of the ICA Commission on Map Design helped organize and contribute to a range of sessions at the Association of American Geographers meeting in Chicago in April 2015. Collaborating with the Commission on Cognitive Visualization, Amy Griffin, Rui Li and Kenneth Field organized a series of sessions of well received talks on contemporary areas of map research. Sessions covered emerging themes in cognitive and behavioural assessment, pushing the boundaries with maps, uncertainty on maps and in spatial relations and cartographic education and practice. Sponsored by the AAG Cartography Speciality Group, Kenneth Field also took part in a panel discussion alongside Janet Speake (Liverpool Hope University), Chris Perkins (University of Manchester) and Doug Richard (AAG Executive Director) on geographers, geography and the new cartography which precipitated interesting debate and discussions that will inform future meetings and research.

Preparations have been made with the UK Cartographic Committee to seek re-nomination of the Commission at the International Cartographic Conference in Rio de Janeiro in August 2015. Kenneth Field (UK, Esri Inc) is seeking re-election as chair alongside new Vice-Chairs Ian Muehlenhaus (USA, James Madison University) and Damien Saunder (Australia, Esri Inc).

The Map Design Commission is working with the Commissions on Cognitive Visualisation, Use and User Issues and GeoVisualization to organize and deliver an ICC 2015 pre-conference workshop in Curitiba, Brazil. The focus of the workshop is to explore new agendas for cartographic research in the broad areas of the Commission’s interests. Preparation work is well underway and white papers will be produced as a focus for discussions during the workshop. The outcome of the workshop will help to identify and drive forward research post ICC 2015. Further details are available from the workshop website www.geo.uzh.ch/microsite/icacovis/icc15_ef.html. The Commission and its members also look forward to having a strong presence at ICC 2015 in Rio de Janeiro with many accepted presentations across the schedule. It’s shaping up to be an exciting time for map design.

Kenneth Field | Chair | ICA Commission on Map Design | USA  

Map Production and Geobusiness

mapproduction.icaci.org/

Introduction

The ICA Commission on Map Production and Geobusiness works within its Terms of References in order to address the requirements of service oriented map production, geobusiness, economy and logistics. All activities are based on special interests and bring together stakeholders from the academic, economic, authoritative, non-government and educational communities. Various communication tools, like publications, workshops and symposia, help to support the understanding of Service-Oriented mapping methodologies. In the past six months the Commission organised several meetings and workshops.

Workshops in Vienna, Austria

The Hands-on Cultural Heritage Geospatial Infrastructures: A fundament for collaboration and exchange workshop was held on 4 November 2014 during the 19th International Conference on Cultural Heritage and New Technologies, 3-5 November 2014, in the city hall of Vienna.

The workshop focused on geportals and metadata as fundamental ingredients of map production. The main interest concerned the use of distributed data sources and their metadata access in archaeological excavations.

Archaeological excavations produce very detailed (georeferenced) excavation maps and a number of in-situ findings, which may be displayed in museums or available as digital objects from various webportals (e.g. www.europeana.eu). Although all pieces are georeferenced in various ways – the place of manufacturing, trade or usage – and mapped, an overview and relationship with other geospatial information is missing. Spatial data infrastructure with a specific extension for cultural heritage may help in map production and therefore support any access to distributed thematic and location information. This short hands-on introductory workshop was a big success and will be organized again in 2015.

Another hands-on workshop Open Source GIS and Modern Webmapping was held in Vienna, Austria on 24-25 November 2014. It was organized on behalf of two ICA Commissions, i.e. Map Production and Geobusiness, and Open Source Geospatial Technologies (somap.cartography.at/?WS_Open_GIS_and_Modern_Webmapping).

This workshop focused on Open GIS, server-side mapping, SQL and spatial data infrastructures. The aim of the workshop was to introduce modern webmapping tools and methodologies in a comprehensive and understandable way. All exercises were well documented and followed a step-by-step approach to achieve their goal.

Symposium in Vienna, Austria

The second symposium on Service-Oriented Mapping took place between 26-28 November
2014 at TU Wien, Austria (somap.cartography.at), together with the International Symposium on Location-Based Services – LBS 2014. This symposium was addressed to scholars, researchers, digital industry / market operators, and students with different backgrounds (scientific, engineering and humanistic), whose work is either focused on or relevant to location based services (LBS) and service-oriented mapping (SOMAP). The symposium offered sharing opportunities to colleagues from various disciplines.

Symposium in Ghent and Brussels, Belgium

The International Symposium Cartography in Times of War and Peace was held on 2-6 December 2014 in Ghent and Brussels. Organizing partners were the ICA Commission on the History of Cartography, the ICA Commission on Map Production and Geobusiness and the Brussels Map Circle (geoweb.agent.be/histocarto2014/).

Sessions hosted by our Commission focused on the influence of war on map production techniques. Through the ages the entire cartographic process, from initial concept, data collection, compilation and graphic design to publication and use, was affected by political motives and military needs. Therefore, the Commission accepted contributions on the deployment of cartographic expertise in wartime, the progress of mapping technology and printing methods (engraving techniques, lithographic processes, photomechanical techniques, aerial photographic surveying, photogrammetry etc.) in response to military needs and the emergence and development of national military survey and mapping institutions.

Future Plans

From the past activities and events organized by the Commission, partner organisations and companies we can observe, as a matter of course, the usage of Service-Oriented structures in geoinformation. Distributed systems and common methodologies of access and use, even help to follow the sustainable development goals of the UN (sustainabledevelopment.un.org/sggoalsproposal/). Any expansion from cartography to IT and management methodology is useful and enhances a sustainable access and use of geoinformation. Therefore a cooperation with the GIS Management Institute of URISA is a logical step for our Commission.

Following from the URISA workshop in the Caribbean, we advocated for signing a Memorandum of Understanding between the ICA and the Urban and Regional Information Systems Association (URISA) (icaci.org/memoranda-of-understanding/). The MoU facilitates an exchange of GI management methodologies and consideration of GIS maturity models. From the Commission’s point of view existing maturity and competency models need to be adopted for Service-Oriented Mapping as well as for the “global view”. These topics are the focus of trans-organisational exchange activities, especially with the help of workshops and surveys.

Indicators for the relevance of Service-Oriented Mapping (SOMAP) can be summarised as follows:

• Open Government Data and the free access to geoinformation concerns transparency and accessibility, which are main issues in SOMAP
• Big Data and the realtime processing, as well as information mining, makes use of SOMAP methodologies, which lead to expressive and effective maps in the end
• Interoperability and harmonisation are big issues for geoinformation and the combination of distributed sources (this is just the first step); we face map production problems, which are based on these distributed data sources
• New business models develop on the basis of distributed geoinformation sources, their realtime incorporation and required stewardship contracting; for this kind of map production we observe specific and adopted methods that enable us to calculate a return on investment, the maturity of MAP management and the maturity of spatial communication
• The state of earth dramatically changes (we know this from various sensor observations), therefore geospatial reporting is a big issue that uses maps or similar derivations of geoinformation intelligence; the fundament for this usage of geonetworks are Service Oriented Architectures and the body of cartographic knowledge, which is mainly used in environmental reporting
• Many applications develop in the framework of Service Oriented Architectures, therefore the Internet of things, geospatial objects and linked data lead to a loss of stewardship for the content of an cartographic application – what is the state-of-art of map preservation utilising these technologies? are there any? Our future work should focus on the development of Service-Oriented Mapping (SOMAP) as the main link between GIS and cartography. The SOMAP paradigm, with its distributed information sources and decentralised responsibilities, could make map productions and its use much more efficient, profitable and widely acceptable. This Commission should take responsibility for addressing these issues, research them and make this knowledge publicly available

Markus Jobst and Philippe de Maeyer | Vice Chair / Chair | ICA Commission on Map Production and Geobusiness | Austria / Belgium

Mapping from Remote Sensor Imagery

mailer.fsu.edu/~xyang/ica/

Commission Activities

A major project of the ICA Commission on Mapping from Remote Sensor Imagery in the last couple of years was to produce an edited book with a collection of research papers discussing the development and use of remote sensing and geospatial information technologies in environmental change studies. The book Monitoring and Modeling of Global Changes: A Geomatics Perspective, edited by Jonathan Li and Xiaojun Yang, Vice Chair and Chair of the Commission respectively, has now been published by Springer.

We have been collaborating with several peer remote sensing working groups within ISPRS (International Society for Photogrammetry and Remote Sensing) and EARSel (European Association of Remote Sensing Laboratories). We are currently sponsoring two major conference events: the 2nd International Workshop on Temporal Analysis of Satellite Images (Stockholm, Sweden, 17-19 June 2015; led by Professor Yifang Ban, Commission Vice Chair) and the 5th International Conference on Earth Observation for Global Changes (EOGC 2015) (Al-Ain, United Arab Emirates, 8-10 December 2015; led by Professor Jonathan Li).

Xiaojun Yang | Chair | ICA Commission on Mapping from Remote Sensor Imagery | USA

Maps and Graphics for Blind and Partially Sighted People

visualdisabilities.wix.com/icahome/

Commission Activities

Researchers of the universities and institutions involved in studying the issue of visual handicap in Argentina, Brazil, Chile and Peru are working on the project Proposal for Standardizing Tactile Symbology for Latin America: Application in cartography for tourism, led by the Tactile Cartography Centre Program (CECAT) of the Metropolitan Technological University (UTEM) of Chile and financed by the Pan American Institute for Geography and History (PAIGH-QAS). This research project, now in its second year, is aimed...
mainly at standardizing tactile symbology for making cartography that enables knowledge of geography and resources for tourism in Latin American countries to be encouraged and distributed in such a way as to share a common tactile symbology. The project intends to consolidate the standard symbology that has been studied and designed between 1994 and 2013, plus that which is being studied and adapted especially for tourism during 2015.

The international team with expertise in cartography, design, geography, special-needs education and tourism, among other specializations, gathered together at the Special Basic Education Centre (CEBE) in the city of Cuzco, Peru, between 8-17 May 2015, to review the progress made in developing methodologies and summarising tasks undertaken during 2014 and to be done in the future. In particular, the geographic information of the sectors chosen by Peru for mapping was gathered; these sectors are to be portrayed in new cartography with tactile symbology for tourism being developed. Moreover, meetings were held with leaders of the Regional Office for International Trade and Tourism (DIRCETUR), the Inca Museum and of the Tourism Chamber of Cuzco.

Argentina will make a Tactile Plan of the Historic Circuit of Santo Tomé for Tourism in Santa Fe: Brazil will prepare the Tactile Plan of the Historic Center of the Centre of Sao Paulo City; and Chile, for its part, will make the Tactile Plan of Sotomayor Plaza and its environs in the city of Valparaiso, together with the 3D Model of the ‘La Campana’ National Park and the Tactile Plan of the Granizo Sector of the same park, which is a UNESCO Biosphere reserve. Finally, Peru will prepare the tactile plans for the Tourist Route of the Historic Centre of Cuzco, the Tourist Circuit of Machu Picchu, and the 3D Model of Machu Picchu. These cartographic portrayals will contain tactile symbology adapted for tourism and the use of Braille for facilitating reading by blind people. For the four participating countries, additional tactile sheets will be set up for places of greatest interest to tourism. Most of the production of the tactile cartography for the Project and all of tactile sheets will be designed and made at the CECAT in Chile.

ICC 2015
Alejandra Coll Escanilla (Chile) and Waldirene Ribeiro (Brazil), the Commission’s Chair and Vice Chair respectively, will participate in the 27th International Cartographic Conference (ICC) with a poster Experience with Tactile Maps: Towards a Standardization of Tactile Symbol. The poster reports on the progress made with research on the standardization of tactile symbols for Latin America and its application to tourism. Some of the tactile sheets being developed for Argentina, Brazil, Chile and Peru will be shown. The Commission will participate in running the Joint Symposium Cartography Beyond the Ordinary World, to be held in Niteroi, between 21 and 22 August prior to ICC 2015. The Symposium is being organised in conjunction with the ICA Commissions on Cartography and Children, Planetary Cartography and Cartography for Early Warning and Crisis Management. As of May 2015, six presentations have been submitted. Alejandra Coll Escanilla and Waldirene Ribeiro will jointly give a talk on Standardization of Symbol for Visual-tactile Cartography.

Commission Newsletter
At the end of February 2015, the Commission published its second Newsletter, covering the activity of 2014, including a visit on 14 November 2014 to the CECAT-UTE M site made by leaders of PAIGH and other members of their Council who attended a meeting held in Santiago immediately prior to the visit, as well as the preparations of the Commission for the ICC 2015 in Rio de Janeiro, the review of the Conference submissions, and an update on the pre-conference event being set up with other ICA Commissions.

The newsletter also mentions the latest publications dealing with cartography and teaching materials for visually-handicapped persons, including:
• Atlas of the World for the Blind and the Visually Impaired, published by the Head Office of Geodesy and Cartography, Poland
• A French translation of the book Images that we can touch by Dr Pilar Correa, a contributor to CECAT-UTEM (published by Les Doigts qui rêvent, Dijon, France)
• An article In search of a model for making and reading educational tactile images by Dr Pilar Correa, published in the international journal Terra Háptica, September 2014
• A paper A Contribuição da Cartografia Tátil para a Formação de Professores de Geografia by Waldirene Ribeiro Carmo, C C R G Sena and B G F Jordao, published in the Proceedings of a seminar hosted by the Federal University of São João, Brazil, October 2013
• A paper Oficinas de Cartografía Tátil: una proposta metodológica para a formação de professores by Waldirene Ribeiro Carmo and Regina Almeida, published in the Proceedings of the 7th NEPEG de Formação de Professores Forum held in Caldas Novas, Goiás, Brazil
The Commission noted the emergence of the Spanish firm Eye2021 (www.EYE2021.com) linked to the University of Valencia. Eye2021 provides products and services intended for the blind, including a personal navigation system for blind pedestrians and systems for recognizing text and symbols.

In October 2014, the Commission held the third meeting of its active nucleus, at the CECAT-UTEM offices in Santiago, Chile. Future actions for the Commission were defined, taking into account strategies for accumulating more contributors, and the intention to change the name of the Commission so as to include other handicaps besides blindness, and also elderly persons.

Alejandra Coll Escanilla | Chair | ICA Commission on Maps and Graphics for Blind and Partially Sighted People | Chile

Ubiquitous Mapping
http://www.ubimap.net/

International Symposium in Tokyo, Japan
The ICA Commissions on Ubiquitous Mapping, Maps and the Internet, and Theoretical Cartography organized a joint International Symposium on Cartography in Internet and Ubiquitous Environments (CIU2015) in Tokyo, Japan between 17-20 March 2015. The Symposium was sponsored by Center for Spatial Information Science (CSIS) of the University of Tokyo. The first and fourth day was spent on technical tours visiting Roppongi Hills (one of the largest integrated property development in Japan), Tokyo Traffic Control Center, the Geospatial Information Authority of Japan (GSI), and Geological Museum. The participants experienced various kinds of maps, influenced by the Japanese culture. The Seminar’s sessions were held on the second and third day at Sanjo Conference Hall in Hongo Campus of the University of Tokyo. About 70 participants attended the event, coming from Japan, China, USA, Taiwan, Philippines, Vietnam, Indonesia, Australia, India, Bangladesh, Iran, Kuwait, Egypt and Germany. The ICA President Georg Gartner and the ICA Secretary General László Zentai gave great video messages during the opening session and stressed the significance of the
Symposium. Professor Takashi Morita, a former Vice President of the ICA, gave a keynote talk on Evolution of Cartography in Internet and Ubiquitous Environments. The programme included 26 oral presentations and 6 poster presentations in eight sessions (A-H): A. Mapping in Social Media and Big Data B. Use of Maps and Mapping C. 3D and Real-Time Sensing D. Web Mapping and its Applications E. Theoretical Cartography for Geospatial IT Society F. Mapping and Knowledge Management G. Remote Sensing and Modelling H. Map Visualization

Papers and abstracts of the presentations and the keynote address are available from ubimap.csis.u-tokyo.ac.jp/ciu2015/.

In the closing session, we discussed the meaning and necessity of Cartography for maps and mapping in the modern environments. Emergence of web and mobile mapping is leading us to a less diverse world of Cartography, but they are not dominant and the diversity of maps and mapping remains, especially if we take into account a wide variety of modern environments, as experienced by the participants during the technical tours in Japan. We pointed out the urgency of developing a new theory of Cartography to involve new and diverse environments as a basis for collaboration among the three Commissions. Particularly, the meaning of maps for blind people and non-visual maps for conveying spatial information to humans must be a key concept to develop the new theory of Cartography for the new IT environments.

Use and User Issues

www.univie.ac.at/icacomuse/

Commission Activities

As already announced before (ICA News, No 63, December 2014, p 14), after ten years this is my last contribution as Chair of the ICA Commission on Use and User Issues. This does not mean that the work in this booming corner of our cartographic discipline is done. Far from that! More than ever before, all questions related to the core issue of our Commission require answers – does this cartographic tool work? In order to help colleagues and students to find that out, there is a great need to further develop and test a variety of modern methods and techniques concerning use, user and usability research, embedded in the User-Centered Design approaches. There is a huge demand for knowledge on such research methods and techniques this Commission must continue to develop and spread this knowledge. After all, the user is one of the essential corner-stones of the cartographic discipline and, therefore, of ICA.

I am very happy and proud to announce that Dr Kristien Ooms from Ghent University, Belgium, has been nominated as a new Chair of the Commission in the term 2015-2019 and I trust this nomination will be accepted by the ICA General Assembly in Rio de Janeiro. Many of you will know Kristien already because, since 2011, she is one of the current Commission’s Vice Chairs and has published frequently in, for instance, The Cartographic Journal. Dr Robert Roth from the University of Wisconsin-Madison, USA is nominated as the new Commission’s Vice Chair.

Rob became gradually involved in the work of the Commission in the past few years and is already one of the co-organizers of two pre-ICC 2015 workshops we are organizing together with other ICA Commissions at the Federal University of Paraná in Curitiba, Brazil.

Indeed, those two workshops and our activities at the International Cartographic Conference to be held in Rio de Janeiro in August 2015 kept us busy most of the time during the first half of this year. The two workshops in Curitiba will be held on 20 and 21 August 2015 and are of a different focus.

The first workshop is meant for researchers and students who want to know more about how to design and conduct user studies. This workshop will take place on 20 August 2015 and is being organized together with the ICA Commission on Cognitive Visualization.

The central theme of the second workshop is Envisioning the future of cartographic research. It will take place on 21 August 2015 and is being organized together with the ICA Commissions on Cognitive Visualization, Map Design, and GeoVisualization.

For more information about both workshops and to register, please visit www.cartografia.ufpr.br/home/. We hope to welcome you in Curitiba and in Rio de Janeiro!

To conclude, I would like to thank the Commission Vice Chairs Dr David Forrest and Dr Alex Pucher, who together with me are stepping down, for the fantastic and enriching cooperation in the past ten years and wish the ‘young generation’ as much rewarding experiences as we had.

Corné van Elzakker | Chair | ICA Commission on Use and User Issues | The Netherlands
INCA General Assembly

The General Assembly of the Indian National Cartography Association (INCA) took place in Hyderabad, India, on 18 December 2014. Professor Anuradha Banerjee was elected President of the Association. Apart from other matters, the meeting approved last year’s report and the plan for next year.

The 147th Executive Committee of INCA was held on February 21, 2015 in New Delhi. The meeting was chaired by INCA President. The Committee approved the theme of the 2015 Congress – Spatial Governance for Development, Planning Smart Cities and Disaster Management. The Congress is planned for 15-17 December 2015 in New Delhi.

The traditional Map Quiz for high school students will be discussed at the next meeting.

Amod Srivastava | Indian National Cartographic Association | India

Children’s Map Contest in Lithuania

Since 2005, every second year the festival of children’s maps takes place in Vilnius, Lithuania. It is the final of a national event, and part of the biennial Barbara Petchenik Children’s World Map Awards. The festival includes an exhibition of best maps and award ceremony, where about 100 awards and gifts are given to the young cartographers in the beautiful Botanical Garden of Vilnius University, accompanied by musical performances and talks about cartography. In 2015, the competition attracted almost 1,000 participants, of which 157 were selected for the national children’s map exhibition. More than 200 people took part in the festival.

Giedre Beconyte | Lithuanian Cartographic Society | Lithuania

The Power of Maps Conference

The Power of Maps Conference was held at the National Library of Australia, Canberra from 29 April to 1 May 2015. The theme was used to emphasise how maps have shaped history and continue to empower and inform in a very powerful way. The conference was jointly organised by the Mapping Sciences Institute, Australia (MSIA) and the Australian and New Zealand Map Society. Close to 80 delegates attended each of the two days of presentations and around 40 delegates went on the excursion on the final day. Three key note speakers presented thought provoking papers:

- Professor Georg Gartner, President of the International Cartographic Association
- Dr Chris Pigram, CEO of Geoscience Australia
- Mr Khin Maung Maung, Managing Director, Geocomp International

Twenty six papers were presented on topics ranging from military mapping and map curatorship to mapping technologies. In acknowledgment of the 100 year anniversary of the ANZAC Corps and the 100 year anniversary of the formation of the Royal Australian Survey Corps, two sessions were dedicated to military mapping. Delegates were informed that 2015-2016 is the ICA International Map Year. Banners were displayed and information was provided to indicate that Australia is an active participant in this international promotion of cartography. Maps from children around Australia, created for the 2015 edition of the Barbara Petchenik Children's World Map Awards, were on display. Doug Herrick (MSIA) organised the national competition and it was hugely successful. The children’s works were explosively colourful, endlessly innovative and happily based on projections you won’t have seen before. Many delegates took time out to complete the world map jigsaw on the table in the exhibition area; it was a great way for delegates to get to know each other.

The conference dinner was attended by around 75 people. They had a wonderful time and sung along to tunes played on the harmonica by Mr Les Isdale. Mr Isdale was also the official photographer for the conference. Delegates who stayed on for the excursion were informed by presentations at Geoscience Australia, the Australian National University, the National Arboretum, the Australian War Memorial, Red Hill Lookout and the Surveyor’s Hut. It was a very successful conference which brought together cartography lovers from all sectors of the industry.

David Fraser | Mapping Sciences Institute of Australia | Australia

Participants of The Power of Maps Conference organised by the Mapping Sciences Institute of Australia and the Australian and New Zealand Map Society and held at the National Library of Australia in Canberra, Australia | Photograph courtesy of David Fraser
11th International Conference on Cartography and Geoinformation

The Croatian Cartographic Society organized the 11th Conference on Cartography and Geoinformation in Buzet, Croatia, between 8-10 May 2015. Organizing the conference during the International Map Year (IMY), allowed the Croatian Cartographic Society to contribute to the development of geoinformatics, cartography and related fields. A wide range of topics and a number of renowned speakers invited to the event guaranteed interesting talks and a contemporary programme.

The Conference was held in the Fontana Hotel, situated in the centre of Buzet, a city in Istria with approximately 6,000 inhabitants. Buzet is located in the northernmost continental part of Istria, between three large cities: Rijeka, Trieste and Pula. The area is very diverse, with altitudes ranging from 10m to more than 1,000m, resulting in a varied climate, from Mediterranean in the valley of Mirna River to continental in the mountainous part of Ćićarija. The old city of Buzet is located on a hill, 150m above the valley of Mirna, while the newer part of the city, Fontana, lies below.

The Conference was endorsed by the International Cartographic Association (ICA), the Croatian Academy of Engineering and the Ministry of Science, Education and Sports. The conference was opened in the Homeland Museum Buzet in the evening. The exhibition included 50 plans and maps, several books and atlases and a couple of geodetic instruments. Istrian specialities were served during a gala dinner in the Roko restaurant.

The conference program, proceedings and exhibition catalogues were published in a printed publication and are available from the Croatian Cartographic Society website (www.kartografija.hr).

Milenko Lapaine | Croatian Cartographic Society | Croatia

ICA Session at FIG Working Week

The FIG Working Week was held at the National Palace of Culture in Sofia, Bulgaria between 17-21 May 2015, and attended by 1,000 participants from 68 countries. ICA contributed a keynote address by ICA President Professor Georg Gartner on Modern Cartography at the first plenary session of the event. The ICA Session was organized on the occasion of the International Map Year (IMY) and attended by President Georg Gartner, former ICA President and Chair of the ICA Commission on Cartography in Early Warning and Crisis Management Professor Milan Konečný, Chair of the ICA Commission on Map Production and Geoinformation in Buzet, Croatia, award ceremony for the Croatian children’s map drawing competition, (airborne) László Zentai, ICA Secretary General, running the Sprint Orienteering event in Buzet with the course map in his hand | Photographs courtesy of Miljenko Lapaine

One of the most interesting events during the FIG Working Week was the Cartographic Exhibition of wall maps, prepared on the occasion of the International Map Year. Many participants have been very impressed to see such an exhibition and congratulated ICA and BCA for the organization. Countries, such as Croatia, FYR Macedonia and Bulgaria, participated in the exhibition represented by the following companies and organizations:

- Bulgarian Cartographic Association (Barbara Petchenik Competition – national level), Bulgaria
- Cartographic Studio DavGEO, Bulgaria
- Croatian Cartographic Society, Croatia
- DataMap-Europe, Bulgaria
- GEOPAN Ltd, Bulgaria
- GIS-Sofia Ltd, Bulgaria
- KartGeo Ltd, Bulgaria
- Military Geographic Service, Bulgaria
- University of Pristina
- University of Tetovo, FYR Macedonia

Professors Georg Gartner and Temenoujka Bandrova at the FIG Working Week, Sofia, Bulgaria | Photograph courtesy of Temenoujka Bandrova
The exhibits received certificates of participation, while at the ICA Session many people received a special calendar with IMY logo produced by the BCA and the Military Geographic Service. For more information, please visit www.facebook.com/pages/Bulgarian-Cartographic-Association/616356255141246.

Temenoujka Bandrova | Bulgarian Cartographic Association | Bulgaria

Doctor Honoris Causa for Prof Ferjan Ormeling

On 7 May 2015, Professor Ferjan Ormeling, the former Secretary General and Treasurer of the ICA and recipient of the Carl Mannerfelt Gold Medal, was awarded a degree of Doctorate Honoris Causa in Cartography from the Aristotle University of Thessaloniki (AUTH) for his outstanding and long contribution to international cartography. The nomination prepared by Professors Evangelos Livieratos, Chrysoula Boutoura and Alexandra Koussoulakou from the AUTH Cartoheritage Group, School of Rural and Surveying Engineering, Faculty of Engineering was accepted unanimously by the University.

Professor Livieratos, Chair of the ICA Commission on Digital Technologies in Cartographic Heritage read the laudatio, highlighting Professor Ormeling’s career and achievements in cartography at home and internationally, as well as his support and contribution to contemporary Greek cartography, which was also acknowledged in 2008 by the Hellenic Cartographic Society honorary membership. In response, Professor Ormeling gave a talk on Ptolemy’s Heritage: the Atlas as an ordering device recalling, with a series of selected illustrations, the impact of Ptolemy’s Geographia in the development of the atlas legacy in the Low Countries starting with Erasmus in 16th century. He then demonstrated how the conceptual and contextual structure logic and sequential patterns introduced by Ptolemy are still followed in modern atlases with regards to the hierarchy of content and ordering. His lecture was attended by the Rector of AUTH, faculty deans, school chairs, professors, the Hellenic Cartographic Society President Lysandros Tsoulos and a large number of mainly engineering students; it is available online at www.auth.gr/node/18744 (from ~52 minute onwards).

Professor Ormeling gave an interview to the Greek press agency speaking about challenges of modern cartography in the era of distributed networks.

Evangelos Livieratos | Aristotle University of Thessaloniki | Greece

icc 2017 washington · dc · usa

The Cartography and Geographic Information Society invites the world of cartography and GIS to come to Washington, DC, July 2 to 7, 2017 for the 28th International Cartographic Conference (ICC) of the International Cartographic Association. We are planning a fantastic Conference that will draw upon all the resources of the nation’s capital. The National Galleries of Art, the Smithsonian Institution, the National Geographic Society, and the Library of Congress will all play a role in making this a great conference. In addition, the Conference coincides with the national celebration of independence, which will make it a very festive time.

ICC 2017 offers a superb opportunity for organizations to display their products and services and to promote their unique role in international cartography. The ICC 2017 exhibition will occupy approximately 30,000 square feet (2,800 square meters) at the Marriott Wardman Park Hotel, between the meeting rooms and the Posters and Map Exhibition. There will be approximately 50 booths available in three sizes, i.e. 6m x 6m, 3m x 6m and 3m x 3m. The 6m x 6m booths will be isolated from other booths and not share any adjoining walls. Booths will include normal facilities including power, curtains and lighting.

Sponsorships are an opportunity to highlight your organization’s commitment to cartography and ICC 2017. Sponsors will receive appropriate recognition throughout the Conference. There are three levels of sponsorship – Global, Hemisphere and Continental – each coming with a wide range of privileges, including complimentary booths and attendee registrations. ICC 2017 offers opportunities to sponsor key visible events such as dinners, lunches, receptions, and coffee breaks, as well as key attendee items such as conference bags, lanyards, pens, notepads and other items.

Promote your organization with your custom advertisement in the official ICC 2017 program – advertising is available in the Program’s outside back cover, inside front and inside back cover, and full page interior. Provision for Internet space ad and Internet link is also available. For more information, please visit our website at www.icc2017.org or contact us by emailing info@icc2017.org.

We look forward to hosting your exhibit and featuring your sponsorship at ICC 2017. Come and join us for a great celebration of cartography!

E Lynn Usery | Conference Director | ICC 2017 Local Organising Committee | USA
July 2015

August
20: ICA Commissions on Use and User Issues & Cognitive Visualization Joint Workshop | Designing and Conducting User Studies | Curitiba | Brazil | www.cartografia.ufpr.br
20-21: ICA Commissions on Maps and the Internet & Education and Training Joint Workshop | Advances in Cartographic Practice in the Classroom and on the Web | Curitiba | Brazil | lazarus.elte.hu/cet/announcement.htm
21: ICA Commissions on Cognitive Visualization, Use and User Issues, GeoVisualization & Map Design Joint Workshop | Envisioning the Future of Cartographic Research | Curitiba | Brazil | www.cartografia.ufpr.br
21: ICA Commissions on Geoinformation Infrastructures and Standards & Open Source Geospatial Technologies Joint Workshop | Spatial data infrastructures, standards, open source and open data for geospatial (SDI-Open2015) | Rio de Janeiro | Brazil | sdistandards.icaci.org
21-22: 18th ICA Workshop on Generalisation and Multiple Representation | Rio de Janeiro | Brazil | generalisation.icaci.org/index.php/nextevents/

September
16-18: 12th Symposium on Location Based Services (LBS) | Augsburg | Germany | www.lbs2015.tum.de

November 2015
10-12: 1st ICA European Symposium on Cartography | Vienna | Austria | eurocarto.org

ica news

calendar

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Regional Centre for Training in Aerospace Surveys (Rectas) | Nigeria | www.rectas.org
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SuperMap Software | China | www.supermap.com
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University of Balamand | Lebanon | http://balamand.edu.lb/english/GIS.asp
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Wuda Geoinformatics | China | www.geostar.com.cn
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ICA welcomes new affiliate members; for more information, please contact:
László Zentai | Secretary General & Treasurer | ICA | lgz@icaci.org
children’s map gallery  1997 participants

Jana Slancikova  |  14  |  My Dream World
Zakladna Skola: Zamovica  |  Slovakia

My Dream World  |  Menlopark High School: Pretoria  |  South Africa

Solomia Kostyrka  |  13  |  Our Planet
School No 30: Tryrchenka Street, Lviv  |  Ukraine

Amina Megbed  |  -  |  -
Ecole Fondamentale: Nouvelle Netllii, Ghardaia  |  Algeria

A World Map  |  -  |  -
Laerskool Zarnovica: Zarnovica  |  Slovakia

Alexandros Rembis-Kopanaras  |  10  |  The Continent-Storks of Peace
Ano Ilisia-Zografou: Athens  |  Greece

Our Planet  |  -  |  -
School No 30: Tryrchenka Street, Lviv  |  Ukraine

Our Planet  |  -  |  -
School No 30: Tryrchenka Street, Lviv  |  Ukraine

My Dream World  |  Menlopark High School: Pretoria  |  South Africa