



president's report



Dear Colleagues

Over the last few months, the highlight for all of us being affiliated with the ICA, was for sure the most successful 26th International Cartographic Conference in

Dresden, Germany from 26-30 August 2013. Well organised by the Local Organizing Committee, Professor Manfred Buchroithner, Professor Dirk Burghardt, Dr Nikolas Prechtel, Benjamin Schröter and Karsten Pippig (all Dresden University of Technology) with the help of Ulf Trebesius and Sylvia Neumann (Intercom) and endorsed by the German Cartographic Society led by President Professor Manfred Weissensee, the event was very well received by numerous participants.

The beautiful venue of the Conference Centre, right at the riverbanks of the Elbe and close to the spectacular city centre of Dresden, has proven to be a perfect location for a conference of our size. Two plenary sessions every day, allowed keynote presentations from such prominent speakers as Jack Dangermond (USA) on *Web Maps, Story Maps and Trends in Underlying Geospatial Technologies*, Imands Priede (UK) on *Realtime 3D-Monitoring of Marine Animals*, Franz Leberl (Austria) on the *Virtual Centimetre World Model*, Eric Loubier (Canada) on the *Transformation of National Mapping Approaches in the Context of Geomatics Democratization*, Christopher Board (UK) on his discovery of Cartography, Fenella France (USA) on *The Waldseemüller Map*, and finally Martin Haueis (Germany) on *Digital Maps for Highly Automated Driving*. Some of the keynotes went beyond the scope of our

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ica awards 2013

The International Cartographic Association (ICA) has instituted a number of awards for outstanding service to the ICA and to cartography generally. At the closing ceremony of the 26th International Cartographic Conference in Dresden, Germany, the following awards were presented:

- The Carl Mannerfelt Gold Medal to **Professor Fraser Taylor** (Canada)
- The ICA Honorary Fellowship to **Professor Milan Konečný** (Czech Republic)
- The ICA Honorary Fellowship to **Professor Kirsi Virrantaus** (Finland)



Citation for Professor Fraser Taylor

I first met Professor Taylor when he was President of the International Cartographic Association (ICA), at one of the early International Cartographic Conferences that I attended. I was involved in research in the application of interactive multimedia to cartography and the visualization of geography, an area that Professor Taylor championed in the international cartographic and geographic communities. His enthusiasm about contributing to international scientific communities was, and is, infectious and his encouragement to participate in research and development was extremely supportive to young and experienced scientists alike. This introduction to scholarly work in cartography and geography set me on a path of participation and collaboration with the ICA and with international cartographic and geographical communities, a path that I continue to follow today.

Professor Taylor is Distinguished Research Professor of Geography and Environmental Science, and in International Affairs, and Director of the Geomatics and Cartographic Research Centre, Carleton University, Canada. He is the immediate past Chair of the International Steering Committee for Global Mapping (ISCGM), an international project by world national mapping agencies to produce a 1:1 million digital map of the world to support environmental and sustainable development decision-making. For over a decade, this work supports international collaboration and decision-making by ensuring that appropriate, current and timely geospatial information is maintained and available.

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ICC 2013 orienteering event participants consult a map: (from left) Terje Midtbø (Norway), Dušan Petrovič (Slovenia), David Fairbairn (UK) and Robert Ditz (Austria) | *Photography ICC 2013*



For some time now, mapping is dominated by digital technology. We capture, process and visualise information using digital tools almost exclusively. Furthermore, our 'digital' attention has expanded to cover conversion of analogue materials into digital cartographic products. We produce vast repositories of image-based cartographic resources, and build sophisticated spatial databases that enable us to generate and represent historical geospatial information on almost any topic of interest. But how do we determine what is being digitized? What criteria are there to guide us?

If one wants to preserve and document the national cartographic heritage, a comprehensive approach to digitization is required. In this context, the answers to the above questions are far more complex, especially when one is faced with substantial financial constraints. On the one hand, we could prioritise the digitization effort based on stakeholders' feedback, often measured by popularity of a given resource. This certainly helps in building a 'business case', especially when we are able to provide appropriate measurable evidence on how these resources are used, or how many 'likes' they receive. On the other hand, we could base our argument on the uniqueness of a particular cartographic collection. This is certainly a more challenging approach, as many decision-makers might be less familiar with maps in general, therefore would harder to be convinced. However, I would argue that this approach provides a better, more informed solution. A sound knowledge could be employed to provide a more focused approach to the preservation of the national cartographic heritage by appropriate prioritisation of truly unique and exemplary cartographic materials for digitization.

This issue of *ICA News* reports on the ICC 2013 held in Dresden, introduces our latest ICA awards recipients, invites us to Rio in 2015 and farewells Planetary Cartography ambassador Kira Shingareva. I hope you find it interesting.

Igor Drecki | Editor ICA News | ICA ●

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discipline but eventually added new perspectives to topics of mutual interest. Also, for the first time ever, all Commission chairs had the opportunity to inform the audience on the relevance and plans for their respective Commissions through short 3-minute *Commissions-at-a-glance* presentations.

During five days of the conference, eight parallel sessions in the morning and in the afternoon offered a variety of most interesting presentations related to no less than 37 conference themes, setting a strong statement about the most contemporary, modern, relevant and attractive nature of the work which is currently undertaken in Cartography and GIScience domains. All materials published in the ICC 2013 Proceedings are already available online from the ICA website (icaci.org/files/documents/ICC_proceedings/ICC2013/). Furthermore selected papers, subject to a rigorous full reviewing process, are published in dedicated publications including:

- the book *Cartography from Pole to Pole*, edited by Manfred Buchroithner, Nikolas Prechtel and Dirk Burghardt, published in the ICA book series by Springer-Verlag
- a special issue of *Cartographica*
- a special issue of *The Cartographic Journal*
- a special issue of *Cartography and Geographic Information Science*
- two special issues of *Kartographische Nachrichten*

The excellent exhibitions ran alongside the Conference. The Technical Exhibition provided a lot of opportunities to get informed about products and solutions offered by companies associated with our industry, the Cartographic Exhibition (including a professionally produced catalogue) provided an abundance of wonderful maps and atlases being produced around the world, and the Barbara Petchenik Children Map Competition presented the most creative ideas children can have when being offered a chance to express their views of the world through maps. A daily selection of poster presentations

gave the opportunity to get in contact with authors and cartographers as well.

While basically all ICA Commissions held business meetings during the ICC, discussing plans, ideas and strategies, and inviting all interested in their work to come along and make contacts, some Commissions organized specific events prior to ICC 2013. A total of ten pre-Conference workshops were offered and were very well received by participants.

During the Conference, the ICA awarded the Carl Mannerfelt Gold Medal to Prof Fraser Taylor. In his laudatory speech, immediate Past President Prof William Cartwright stated that the Carl Mannerfelt Medal is the highest award of the Association, it recognises excellence in scholarship and research in cartography and GIScience, and is awarded *Ob Merita Egregia* (acquired by extraordinary merits). This award formally acknowledges Prof Taylor's achievements in the international cartographic research and professional communities, and his contributions to humanity. At the same ceremony two ICA Honorary Fellowships were awarded, one to former President Prof Milan Konečný and the other to former Vice President Prof Kirsi Virrantaus (see page 1, 4 and 5 for full citations).

The various social events were for sure another highlight of the Dresden Conference, including the Opening and Closing Ceremonies. At the Opening Ceremony several representatives of sister societies, including Christian Heipke (ISPRS), Robert Ward (IHO), Thorben Hansen (EuroSDR) and Mike Meadows (IGU) conveyed their greetings, together with representatives from the State of Saxony and TU Dresden. A Memorandum of Understanding between ICA and EuroSDR for further close cooperation was signed on stage. Conference Director Prof Manfred Buchroithner presented a documentary movie called *Germany from above*, where he impressed the audience with his live translation skills, while I delivered my Presidential address.

ICA Award Ceremony in Dresden, 2013: (from left) Georg Gartner, Milan Konečný (ICA Honorary Fellow), Fraser Taylor (ICA Carl Mannerfelt Gold Medal), Kirsi Virrantaus (ICA Honorary Fellow), William Cartwright and Ferjan Ormeling | *Photography László Zentai*



president's report cont...

The Ice Breaker event took place at the Exhibition Area, home of the Technical and Cartographic Exhibitions, and venue of daily lunches. The Conference Gala Dinner, with fireworks by the River Elbe, had for sure left timeless impressions.

At the Closing Ceremony various awards were announced, celebrating winners of the Barbara Petchenik Children Map Award, the Cartographic Exhibition and the Orienteering event. The organizers of the next ICC in 2015 entertained us with dance and music, giving an idea of what to expect in Rio de Janeiro, Brazil.

Several specific events complemented the ICC 2013 programme, including the well received Young Scientists Speed Presentations, a meeting of the ICA Executive Committee with Commission Chairs, the opening of the German Cartographic Conference.

As President of the International Cartographic Association it is my pleasure to say that ICC 2013 fully fulfilled our expectations and reached our aims of bringing together cartographers and GIScience specialists from across the globe; it offered a forum for the presentation of scientific papers that illustrate the efforts of the research community, and professional papers that describe the cutting-edge methods employed by mapping organisations; it facilitated ICA Commissions and Working Groups meetings that furthered their international collaborative efforts in advancing knowledge and techniques in cartography; it delivered map exhibitions and gave us opportunity to meet again with colleagues and friends.

During the Conference, the ICA Executive Committee met several times to discuss strategies and initiatives for the Association. Several major developments are under preparation, including publications, full membership to the International Council of Scientific Unions, commissions and young scientists. Watch this space!

I would like to welcome our newest affiliate member, the School of Geographical Sciences of the National University, Costa Rica, whose membership was endorsed by the Executive Committee.

Although the International Cartographic Conference in Dresden was the ICA's major event this year, there were several other activities and initiatives of interest concerning cartography, GIScience and ICA. I would like to mention the most successful initiative based on the Memorandum of Understanding between ICA and OSGeo and led by Dr Suchith Anand, Chair of the ICA Commission on Open Source Geospatial Technologies, involving establishment of so-called ICA-OSGeo Labs. More than 50(!) universities and institutions have already expressed their willingness to participate, making this initiative a big success (ica-open-source.scg.ulaval.ca/).

Another example is the ICA Working Group on International Map Year, which is currently

developing a publication, strategies and recommendations to help coordinate worldwide celebration of cartography and mapping in 2015 and make this initiative a success.

I was approached by several media agencies regarding the importance and relevance of modern cartography. I interpreted this as yet another indicator of the growing interest and attractiveness of our domain. As a result, I contributed the following:

- an interview to *New Scientist* magazine
- a joint article on *The Role of Cartography for Disaster Management* with Milan Konečný to the UNOOSA and JBGIS booklet entitled *Value of Geoinformation for Disaster Management*
- a joint article with Manfred Buchroithner to *GIM International* (5, 2013)
- an article to the Saxonian newspaper *Sächsische Zeitung*
- an article to *Geo Spatial World* (11, 2013)
- an article to *ArcNews* (11, 2013)

In August 2013 I attended and represented ICA at the 10th UN Cartographic Conference for the Americas, a conference of high importance to National Mapping Agencies and other government organisations that contribute to the development of geospatial information management in the region and globally.

In September 2013, William Cartwright (representing JBGIS) and I (ICA) attended the launch of a joint UNOOSA and JBGIS publication *The Value of Geoinformation for Disaster and Risk Management (VALID)* at UN Vienna. I also had a pleasure of participating in the 50th Anniversary Celebrations of the British Cartographic Society at Hothorpe Hall, UK, as well as giving an opening keynote at a launch of the International Course on Management and Applied Techniques in Cartography at the Institut Cartogràfic de Catalunya in Barcelona.

Responding to an invitation by INEGI and UN-GGIM, Secretary General László Zentai and myself attended and represented ICA at the Conferencia Internacional de Geografía y Medio Ambiente in Ciudad de Mexico, October 2013, where we were able to establish closer links with key partners in the region and the UN. I was also invited by EuroSDR to Gävle, Sweden, to attend their meeting and follow up on our signed MoU. This contact was very successful.

Finally the Global Geospatial Conference *13th Africa GIS – 14th GSDI* event in Addis Ababa, Ethiopia gave an excellent opportunity to wave the ICA flag in that part of the world and establish promising links.

I would like to close my President's report by quoting my blog entry published on the ICA website shortly after ICC 2013 that summarised my address:

In my opening address at the ICC 2013 in Dresden, Germany, I argued, that there is quite some confusion about the status, relevance and importance of cartography. While the term "map" is most popular and sees its arrival in big business debates amongst major software

companies, in mass market applications related to new technologies such as mobile devices or in the mass media, the term cartography provokes the question "Is that still around?" It is more likely that those, who are involved in making maps nowadays do not call themselves a cartographer but rather something else.

I argued further, that the enormous relevance of the ever growing amount of geodata and geoinformation can only be "unleashed" when it becomes accessible to human users. To make geodata and geoinformation accessible to human users means to try to package it in a way that it can be perceived, "digested" and used, thus simply communicated. I argued further, that this was and is exactly the aim and contribution of cartography. Maps are most successful in being the interface between spatial data and human users. They order information based on the spatial attribute, they engage to explore, they can be entertaining, they help to become spatially aware, they tell stories, they help me to position myself in a particular topic by showing entities and their relations.

I argued that without this contribution we would be somehow "spatially blind". Maps enable us to answer space-related questions, they can be used to support spatial behaviour. Furthermore, in order to enable spatial thinking, spatial planning, spatial reasoning or decision making, cartography is needed. I pointed out that maps are the most successful and powerful instruments to enable spatial awareness.

By looking at those arguments as a way to describe the relevance of cartography as a discipline and the enormous drive and popularity cartography gets from applying most contemporary technologies I argued in my take-away messages that:

- cartography is relevant
- cartography is attractive
- cartography is most contemporary

If my arguments are true, then there is no need to step back or hide away as a cartographer, but rather the other way around. It is of high importance that cartography and cartographers are actively contributing their skills, knowledge, methods and research to the geospatial domains.

I therefore argued, that

It's ok to be a cartographer!

Georg Gartner | President | ICA ●

A chalk drawing in Dresden, 2013 | Image courtesy of Georg Gartner



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ica news contributions

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ica awards 2013 cont...

In 2008 Professor Taylor was elected Fellow to the Social Sciences Division of the Academy of Social Sciences of the Royal Society of Canada. In 2009 he was appointed to the United Nations Expert Group on Geospatial Information Management and to the Open Geospatial Consortium (OGC) Global Advisory Council. Also in 2009, he was elected Chair, Technical Committee III, Geospatial Data Collection, Management and Dissemination, 9th United Nations Regional Cartographic Conference for the Americas. In 2010 he was presented with the Distinguished Service Award by the Canadian Association of African Studies.

He has contributed to regional cartographic and geographical activities, particularly the application of geomatics to socioeconomic development in a national and international context with special reference to the Canadian North, Africa, Latin America, China and Antarctica. He has also advanced regional and rural development theory and practice with special emphasis on sustainable development and indigenous development strategies in Africa and Latin America. In 2006 he was nominated by the Permanent Committee on GIS Infrastructure for Asia and the Pacific and accepted by the UN Conference Secretariat, for the position of Vice Chairman, Technical Committee 3 of the United Nations Regional Cartographic Conference for Asia and the Pacific. He was also Head of the Canadian Delegation at this conference. As well, he has been active in Africa – as a member, ICA Working Group on Mapping Africa for Africa, and Antarctica – in 2000 he was appointed a member of the International Scientific Committee for Antarctic Research (SCAR) Working Group for Geodesy and Geographic Information, now entitled SCAR Group of Experts on Geospatial Information.

In the ICA he was elected Vice President in 1984, and then President in 1987. He was again elected President for a further 4-year term of office in 1991. In August 1999, to recognise his outstanding contributions to the Association, Professor Taylor was elected an Honorary Fellow of the ICA. As well, Professor Taylor represented the ICA on Joint Boards. In 1989 he was elected President of the International Union for Surveys and Mapping and in 2004 he was appointed a member of the Joint Board of the Geospatial Information Societies (JBGIS).

In Canada Professor Taylor is an esteemed contributor to cartographic and geographical societies. In 1978, and again in 1979 he was elected President of the Canadian Cartographic Association. In 1999 he was appointed Co-Chair of the National Atlas Advisory Committee by Natural Resources Canada. And, in 2006 he received the Award of Distinction for exceptional scholarly contributions to cartography by the Canadian Cartographic Association. He has been active in many areas of research in Canada, receiving funding for a “Living” Cybercartographic Atlas of Indigenous Artefacts and Knowledge from The Inukshuk Fund in 2007 and a Research Initiative Grant from the SSHRC in 2002 for the Cybercartography and the New Economy project. In 2012 he was awarded the Royal Canadian Geographic Society and 3M Canada Canadian Award for Environmental Innovation.

As well as these activities, Professor Taylor has undertaken research and development and published in areas where his expertise is internationally recognised, namely: the theory and practice of cybercartography; electronic atlases, interactive cartographic systems and visualization; the preservation and archiving of geospatial data; mapping for the blind and visually impaired; and Canada’s international policies towards developing nations.

He has published extensively and presented in many fora on these topics. As well, he was appointed member of Advisory Board for Volume Six of the History of Cartography Series, University of Chicago Press, as Series Editor of the Modern Cartography Series published by Elsevier Science and Editor, Progress in Contemporary Cartography Series, Wiley & Sons. He has also edited and co-edited two editions of publications related to Cybercartography Theory and Practice.

Professor Taylor has made significant contributions and undertaken leadership roles in cartography and geography, both internationally and in Canada. He works tirelessly in research, teaching, publishing and outreach programmes, and is respected globally for his rigorous research, quality publications and enthusiastic approach to furthering scientific knowledge related to cartography and geography.

The Carl Mannerelt Medal recognises excellence in scholarship and research in Cartography and GI Science. It formally acknowledges Professor Taylor’s achievements, his effort in the international cartographic research and professional communities and his contributions to humanity.

William Cartwright | ICA Past President | *Australia* ●



Citation for Professor Milan Konečný

It is both an honour and pleasure to address Milan on this occasion, as his former team mate when he was ICA President. Milan is a self-made man, born in a small town in Eastern Moravia. He was able to study in Brno, and distinguished himself sufficiently to be asked to participate in polar expeditions to Spitsbergen. He opted for a scientific career and focused on digital cartography.

After his obligatory military service he got a job at a university where he steadily advanced and eventually set up a geoinformatics and cartography lab. This important development enabled him to participate in various conferences and serve in many national and international scientific

ica awards 2013 cont...

organisations, as an officer or a board member, where he acquired the most impressive record. As a consequence, he travelled widely, and must have spent more than a year of his life in air planes!

As far as the ICA is concerned, his involvement culminated in his election as President in 2003. Amongst the many initiatives and achievements, the most important for ICA was the policy towards closer collaboration with the international surveying and mapping organizations, such as Digital Earth and Global Map. Also, through signing Memoranda of Understanding, Milan forged closer links with UN bodies and other scientific organisations like PAIGH. His international involvement also included IEAS, GSDI and European initiatives like Inspire. Together with Ramon Lorenzo, he facilitated an increased cooperation with national mapping agencies. Milan's speciality was building bridges to Eastern Europe and Asia (which started already at a time when it was difficult to travel outside the socialist bloc), where he devoted his energy to support cartographers in these parts of the world. Apart from that, all his life he has been strengthening ties and links with cartographers in Siberia and China, and later in Japan and India.

For all his contributions to cartography, Milan was awarded prizes and honours: from the Brazilian and Spanish cartographic societies, and the Novosibirsk and Sofia universities. He was asked to preside over the European Joint Research Centre of the International Eurasian Academy of Sciences, and it is only fitting that he is now awarded Honorary Fellowship of the ICA – it has been long overdue! This is the first occasion after 16 years of Milan's membership in the ICA Executive Committee that he can receive this distinction (honorary fellowships can only be awarded to people who do not hold office in the EC).

There is one more item I would like to mention... When we first evaluated this venue during Milan's presidency back in 2007, we could not have predicted how successful ICC in Dresden is going to be six years later. The success of this conference alone justifies Milan's Honorary Fellowship. For his outstanding merits in the field of cartography, the Association is pleased to award its Honorary Fellowship to Professor Milan Konečný. Many congratulations!

Ferjan Ormeling | Former ICA Secretary General & Treasurer (1999-2007) | *The Netherlands* ●



Citation for Professor Kirsi Virrantaus

Dear Kirsi, it is a great pleasure to stand here and address you before presenting to you the ICA Honorary Fellowship award. This award honours cartographers of outstanding international reputation who have made special contribution to the ICA. Before I hand over the award, I have to convince the audience that you indeed qualify. Two keywords in the description of the award stand out clearly: international reputation and special contribution to the ICA.

The last one is easy to verify because the ICA archives hold the proof. First of all you have served two terms as Vice President; elected in 1999 in Ottawa, re-elected in Durban, to complete second term in Moscow in 2007. During those eight years, the ICA Executive Committee started a

tradition to schedule their meetings to coincide with your birthdays. The first time it happened you took care of drinking logistics by serving Finish vodka, which was much appreciated. Today both EC meetings and birthdays are no longer that fun.

Well, one can wonder, whether serving as Vice President is good enough to qualify. But during your term you have also been active in two ICA Commissions: Map and Spatial Data Use, and Gender and Cartography. During your second term you have chaired the ICA Working Group on Uncertain and Imprecise Geographic Information. You have also hosted the ICA Commission on Visualization and Virtual Environments event in Espoo, followed by a train trip from Helsinki to the ICC 2007 in Moscow. If this is not enough, you have also initiated and contributed to the ICA Research Agenda. I clearly remember sitting in a room at ICC 2005 in A Coruña and going through several exercises you have prepared to get the framework of the Agenda sorted. Together with our former Secretary General David Fairbairn, you presented the first draft in Moscow 2007, which was later finalised and published in many cartographic journals. The fact that you managed to get everyone in the ICA involved in this endeavour is also a testimony to your international reputation.

Still I tried to find some more evidence to justify the award. This was also not too difficult since you have played several leading roles in our sister organizations, such as FIG and ISPRS. But those activities happened before your ICA involvement. Your career has been an academic one, graduating in 1977 in Architecture, followed by additional degrees in Cartography and Surveying. Tracing your academic history and publications is not easy, because of the many metamorphoses of your last name – your CV states: Kirsi VIRRANTAUS (formerly Makkonen, Eloranta, Artimo).

I also have my own memories, when we first met at UDMS Conference in The Hague in 1985. And since then we somehow kept in touch. Today you are Vice Dean at the School of Engineering of the Aalto University in Espoo, Helsinki. Well, I believe I presented enough evidence to convince this audience. Kirsi, I am delighted to hand you the ICA Honorary Fellowship award, congratulations!

Menno-Jan Kraak | ICA Vice President | *The Netherlands* ●

ICA President Prof Georg Gartner congratulates recipients of the 2013 ICA Awards: Prof Fraser Taylor (*top*), Prof Kirsi Virrantaus (*middle*) and Prof Milan Konečný, at the Awards Ceremony on 29 August 2013, Dresden, Germany | *Photography László Zentai, ICC 2013*



icc 2017



The United States of America will host the 28th International Cartographic Conference (ICC) in Washington, D.C. Sponsored by the

Cartography and Geographic Information Society (CaGIS), the ICC 2017 will be held in the Marriott Wardman Park Hotel, July 2-7, 2017. The United States Local Organizing Committee provides a website for the conference at www.icc2017.org.

Lynn Usery | Chair | ICC 2017 Local Organising Committee | *USA* ●

ica news

25 years ago...

Quarter of a century ago, the *ICA Newsletter* captured the emergence of a new technology called Global Positioning System, a technology with a promise of delivering relative accuracies of less than a few hundredths of a foot! Simply “revolutionizing”...

Igor Drecki | Editor ICA News | ICA ●

ICA Newsletter, No 12, October 1988

NEW GPS TRAINING PROGRAM ANNOUNCED BY ACSM

Demonstrating the commitment to surveying and mapping education that has kept its members at the profession's forefront for nearly 50 years, the American Congress on Surveying and Mapping (ACSM) announces a Global Positioning System (GPS) training program designed to help professionals take advantage of this emerging technology.

With the ability to provide relative accuracies of less than a few hundredths of a foot, GPS will revolutionize the way surveying and mapping functions are accomplished.

“Leaders in the surveying and mapping field feel that this technology will replace much of the surveying performed today using transits and electronic distance measurers,” said John McLaughlin, ACSM Education Committee chair.

Because working effectively with the satellite system when it comes fully operational in 1991 could play a large role in a surveying and mapping firm's success or failure, ACSM created this program to reduce learning curve for professionals.

The Global Positioning System consists of a set of satellites that orbit the earth twice daily. Some of the satellites are already in place. Position is recorded by a portable receiver on the ground. “One of the major future uses of GPS will be to help build computer data files that will contain property, resource and utility information. These cadastre databases will revolutionize record management for property taxation, building permit issuance and resource management,” explained McLaughlin.

With the new program, surveying and mapping professionals now have a means of getting the best instruction possible from the leading names in the field. Instructors will include James Collins of Collins and Associates and Larry Hothem of the National Geodetic Survey.

The training programme will start in early 1989 and courses in the series continue throughout the year.

[...]

ACSM News Release / September 1988

icc 2015

www.icc2015.org

Rio de Janeiro, the Marvellous City is waiting for you!

The International Cartographic Conference (ICC) 2015 to be held in Rio de Janeiro, Brazil, had its first contact with the international cartographic community during the 26th ICC held in Dresden, Germany, from 25-30 August 2013.

Supported by Rio de Janeiro's City Hall and Brazilian Institute of Geography and Statistic (IBGE), the Local Organizing Committee of the Brazilian Society of Cartography had a stand at the Technical Exhibition, where delegates could get information about the city and the Conference. ICC 2015 posters and folders, as well as maps and information for visitors, were available together with several publications from IBGE. Small souvenirs from Brazil were given to everyone visiting the stand.

During the Closing Ceremony, Prof Paulo Márcio Leal de Menezes, President of the Brazilian Society of Cartography and Conference General Director, and Geo Leandro Souza from the Rio de Janeiro City Hall, invited all delegates to Rio and delivered a presentation about ICC 2015. Immediately before the presentation, the ICC 2013 local organizers surprised everyone with a samba show, performed by dancers from “samba school” in Dresden.

The ICC 2015 will be held at the SulAmérica Convention Center, one of biggest and most centrally located conference venues in Rio de Janeiro, right next to Rio's City Hall. The Center is well connected by direct transportation routes (subway and buses) with many places of interest and lodging, like Copacabana and Ipanema, and the city airports.

The ICC 2015 website is now online www.icc2015.org. The next step involves organiza-



The official ICC 2015 poster

tion of the Scientific Committee. Recently, an agreement with Springer Verlag has been reached to publish the book *Cartography – Maps Connecting the World* (main theme of ICC 2015) as part of the Conference publications. In addition, similar arrangement will apply to the ICA affiliated Journals concerning publication of special issues devoted to ICC 2015. Registration as well as call for papers opens on 15 March 2014.

Finally, reinforcing our speech given at the Closing Ceremony in Dresden, we intend to work hard to make the ICC 2015 a success and unforgettable experience to all.

Paulo Márcio Leal de Menezes | General Director | ICC 2015 | Brazil ●

Rio de Janeiro (clockwise from top right): Corcovado Cristo Redentor; surfers at Ipanema Beach; café in central Rio; Ipanema | Photography Ricardo Zerrenner and Pedro Kirilos, RioTour



The *Map of the Month* feature of the ICA website (icaci.org/map-of-the-month) and showcased in the *ICA News* continues to encapsulate the innovation, talent, creativity and dedication of cartographers, designers and educators around the world. Included below are the four remaining winning entries (January through to April) from the International Cartographic Exhibition held at ICC 2011 in Paris, France. The other three entries (October to December) are from the most recent Exhibition held in Dresden during the International Cartographic Conference, August 2013. We hope you find them inspirational in your cartographic endeavours.

In addition, thanks to László Zentai, the ICA website features a new section dedicated to orienteering paper sessions and events organised in conjunction with the ICA conferences (icaci.org/orienteering). As it turns out, orienteering, a combination of running and map reading, is part of the ICA conference programmes for 25 years! The ICC 1989 in Budapest, Hungary featured two papers dedicated to orienteering maps and mapping. We hope you will enjoy this latest feature of the ICA website.

Felix Ortog and Manuela Schmidt | Webmasters
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january



eAtlas of Global Development |
World Bank | *United Kingdom*

february



Port de Djibouti | French Navy
Hydrographic and Oceanographic
Agency (SHOM) | *France*

march




Columbus E-Learning | Liber |
Sweden

april



Hong Kong Street Map Series |
Survey and Mapping Office, Lands
Department | *Hong Kong-China*

october




**Chang'E-1 Topographic Atlas of
the Moon** | National Astronomical
Observatories, Chinese Academy of
Sciences | *China*

november



Scents of Glasgow | Kate McLean
Design | *United Kingdom*

december



**Khumbu Himal and Shorong/
Hinku** | Scientific Association for
Comparative High-Mountain
Research | *Germany*

ica news ica-eurosdrr memorandum of understanding

On 26 August 2013 at the International Cartographic Conference in Dresden, Germany, the International Cartographic Association (ICA) and the European Spatial Data Research (EuroSDR) platform for National Mapping and Cadastre Agencies renewed a Memorandum of Understanding with the aim of continuing liaison between the two organisations to address issues relating to the development of technology, standards and applications for a range of geospatial data handling purposes,

notably in production, visualisation, analysis and dissemination. This will be achieved by maintaining and increasing the opportunities of scientific, technical and professional as well as academic and educational exchange between their members.

Igor Drecki | Editor ICA News | ICA

Georg Gartner (left), President of ICA, and Thorben Brigsted Hansen, President of EuroSDR, signing Memorandum of Understanding documents at ICC 2013



julia mia stirnemann



I'm a map maker without being a cartographer. As a graphic designer and an artistic researcher, I put things into question. It mainly starts with trials and questions, such as:

- + Have you ever aimlessly started to rotate the Google Earth globe and delightfully contemplated the depiction?
- + Have you zoomed out of Google Maps as far as it goes until the world maps string together absurdly?
- + Did you ever zoom into any random location on Google Earth and 'walked home' in the same zoom factor on the screen?

One day I tried to visualize the British Empire from the Commonwealth States viewpoint. This is how the search for maps that offer a depiction of random geographical centres in the principal point unrelated to the choice of a projection started. Occasionally I found world maps which did not adhere to common standards, but there was no fundamental solution which could meet my requirements. So, I took a step back just to contemplate the world as a ball, which can be transformed into a flat surface and depicted with a broad range of design elements. I discovered a whole new variety of solutions to depict the world as 'right or wrong' according to how I regard it.

Cartography is an area full of wonderful colours and shapes, which are used for depictions. And yet, there is a fine line between useful intentions, adherence to conventions, and an intuitive pursue of habits or randomness.

I'm happy that I came across this cartographic passion which has never left me since I met it.

Julia Mia Stirnemann | Bern University
| Switzerland | www.juliamia.ch | juliamia.stirnemann@hkb.bfh.ch

The 'Viewpoints' project (www.worldmapgenerator.com) explores the aesthetic question whether there is a parameter-based method for generating unconventional maps of the world that do justice to the thematic context they represent. A project-specific software has been developed that combines parameters of descriptive geometry and map graphics in an exploratory process to bring forth the desired effects using world maps. With conventional world maps, the horizontal centre usually focuses on the equator. The project software enables generation and design of a whole new and unconventional variety of world maps in a simple and structured way.

profiles mapping sciences institute, australia

www.mappingsciences.org.au

The Mapping Sciences Institute, Australia (MSIA) is the Australian member organisation to the International Cartographic Association (ICA). Other professional organisations operating in Australia are the Surveying and Spatial Sciences Institute, Australian and New Zealand Map Society, Spatial Industries Business Association, and the International Map Industry Association.

Australia is directly involved in the activities of the ICA. Professor William Cartwright is the immediate Past President of the ICA, Dr David Fraser is a member of the ICA Commission on Education and Training and editor of the *eCARTO News* e-newsletter of the ICA, and Ms Trisha Moriarty is a member of the ICA Commission on Education and Training. Mr Don Pearce, an Honorary Fellow of the ICA, was the director of the ICA Conference held in Perth, Australia in 1984, he also served as Secretary General and Treasurer, and Vice President of the ICA. He is currently the national president of the MSIA.

Cartography in Australia is undertaken primarily by the following industry sectors:

- federal government – Geoscience Australia (www.ga.gov.au)
- state governments
- local governments
- private industry
- academia
- not-for-profit and community groups

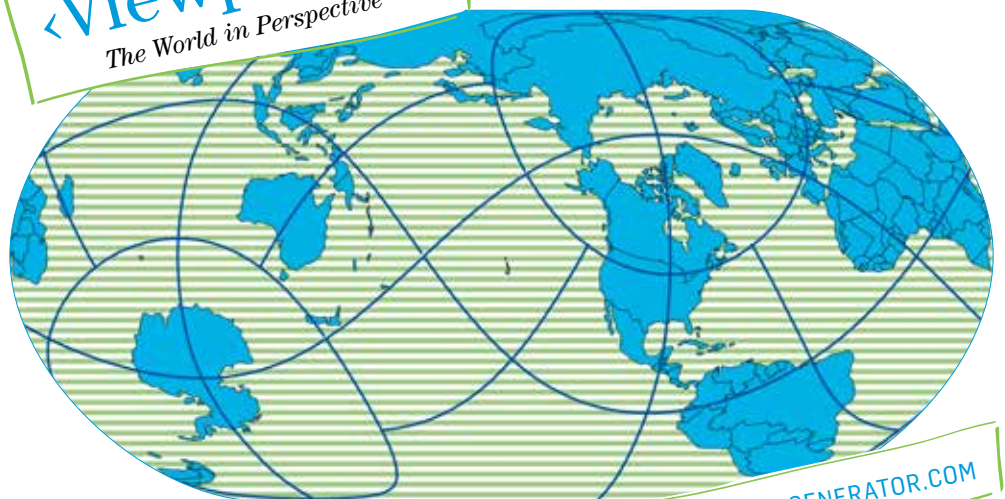
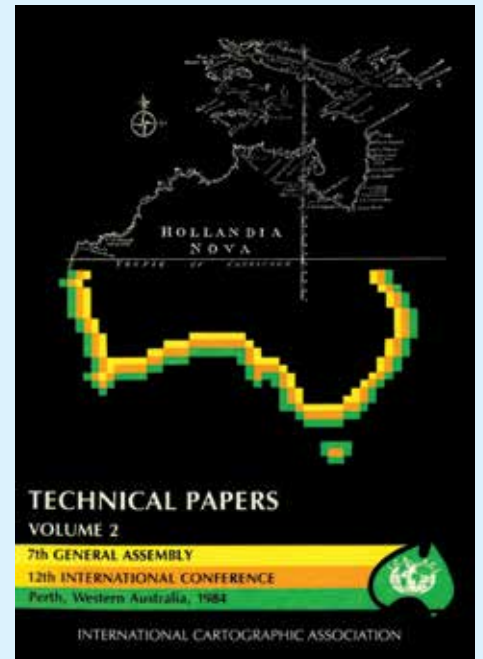
Cartographic and Geoinformation Science education is available as content in higher degrees (PhD, masters, graduate diploma), bachelors degrees and at the technical diploma and certificate levels. Information relating to

specific providers can be found at the following link: www.mappingsciences.org.au/mapping-education/updated-courses.

Cartography (and its many applications), is growing in Australia, as the sophisticated mapping technologies are applied to more and more sectors of the Australian economy.

David Fraser | Member of National Council | Mapping Sciences Institute, Australia | *Australia*

Cover of the second volume of Technical Papers from the 12th International Cartographic Conference held in Perth, Australia, between 4-13 August 1984



WWW.WORLDMAPGENERATOR.COM

Berner Fachhochschule
 Bern University of Applied Sciences
 Hochschule der Künste Bern
 Bern University of the Arts

profiles geodetický a kartografický obzor

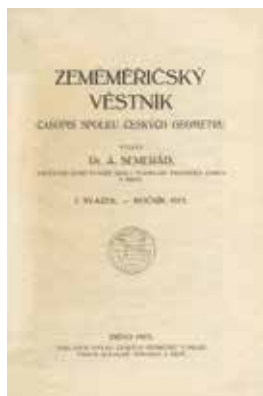
www.egako.eu

Geodetic and Cartographic Review (GaKO) is a specialized scholarly journal of both the Czech Office for Surveying, Mapping and Cadastre, and the Geodesy, Cartography and Cadastre Authority of the Slovak Republic. This monthly periodical fulfils a specialized, scientific, educational and social function and serves the community of experts in geodesy, cartography, geomatics and cadastre of real estate who are working in the state administration, research, pedagogical and educational institutions and in commercial sector.

The first issue of the journal, published by the Association of the Czech Surveyors, appeared on 1 March 1913 in Brno under the name *Land Surveying Bulletin* (*Zememěřický Vestník*). It became a foundation of the continuous publication activities of the Czech

and Slovak surveyors and cartographers.

Over the years, the journal's name changed several times, from *Land Surveying Review* in 1924 and *Land Surveying* in



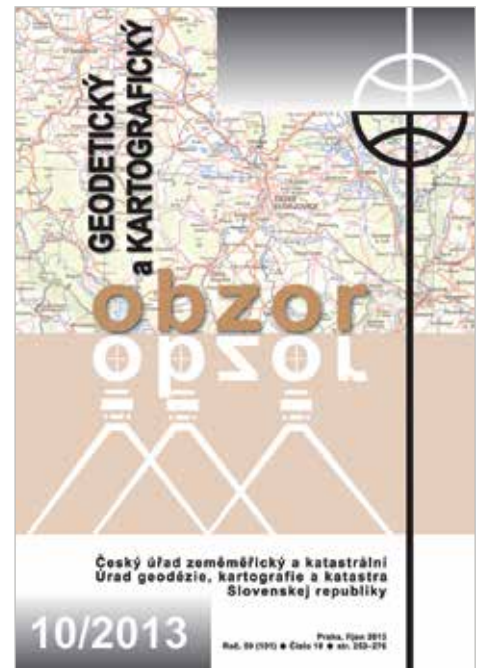
Cover of the first issue of the *Land Surveying Bulletin* from 1913

1951, to its present name from 1955.

So far, 145 top experts served on the journal's editorial board. In the course of its existence, mainly expert and technical articles were published on its pages, 24,024 in total (by the end of 2012), which represent significant contribution to the land surveying and cadastral practice. The authors have always strived to address not only the technical needs of a particular period, but also to respond to changes in the society and state administration. One of the journal's permanent sections focuses on the provision of a basic framework for unique localization of physical features on and under the earth surface together with monitoring of geodynamic changes.

Since January 2013, GaKO is published exclusively in an electronic form. It is published in full colour in A4 format and the number of pages in a single issues varies between 24 and 28.

The journal is distributed free of charge and accessible from www.egako.eu, together with all historical issues published since 1913. The articles in Czech or Slovak are complemented by short English summaries. More than 4,000 articles have been published so far, and since the sixties most of them have been reviewed. In the last ten years, the journal's editorial board reviewed 352 contributions. Apart from expert and technical papers, GaKO publishes



Recent cover of the *Geodetic and Cartographic Review* journal

information on present and upcoming activities, news from local branches, and national and international organizations.

František Beneš and **Jana Prandova** | Editor and Deputy Editor | *Geodetic and Cartographic Review* | Czech Republic and Slovakia ●

reports ica commissions

Art and Cartography

artcarto.wordpress.com/

The ICA Commission on Art and Cartography organized several events during the ICC 2013 in Dresden, Germany. The first was a pre-conference Workshop on *Maps and Games* (in collaboration with the ICA Commission on Maps and Society, see a report on page 16). About 20 participants from all over the world joined us for this Workshop, which included four paper presentations and a playground gaming session organized by the collective of artists and game designers *Invisible Playground*. We also organized three paper sessions during the main conference. All these sessions were very well attended and quite stimulating. Finally, a preliminary version of our collective and experimental film on cartography and narratives entitled *MDMD – A Multi Dimensional Mapping Device* was screened for the first time during the conference, featuring Eduard Imhof, Lorenz Hurni and Bill Cartwright. We are still finishing this movie.

We are in the process of publishing two



Participants of the Maps and Games Workshop ready for a playground gaming session, Dresden, 25 August 2013 | Photograph courtesy of Sébastien Caquard

special issues on cartography and narratives: one in *The Cartographic Journal* (co-edited by Sébastien Caquard and William Cartwright) and the other in *NANO – New American Notes Online* (co-edited by Laurene Vaughan and Matthew Bissen). Both of these special issues

should be released early in 2014. We also have plans for a couple of workshop projects, but their details are not yet finalised.

Barbara Piatti and **Sébastien Caquard** | Chairs | ICA Commission on Art and Cartography | Switzerland / Canada ●

Atlases

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

Seminar in Leipzig, Germany

As a pre-conference event of the 26th International Cartographic Conference in Dresden, two ICA Commissions on Atlases and the History of Cartography and the Joint IGU Commission / ICA Working Group on Toponymy organized a Seminar on Historical Maps, Atlases and Toponymy at the Leibniz Institute of Regional Geography in Leipzig. The seminar saw 40 registered participants from 18 countries and 17 paper presentations. The host institute, represented by Sebastian Lentz (Director), Jana Moser, Christian Hahnwinkel and Heinz-Peter Brogiato (Head Librarian), provided the participants with a most convenient and hospitable environment. The meeting was also characterized by intensive and fruitful discussions between the three subdisciplines of cartography.

The seminar started with an ice breaker in a traditional downtown restaurant in the evening of 21 August 2014, and continued the next morning with opening speeches by Elri Liebenberg (Chair of the Commission on the History of Cartography), Paulo de Menezes (Chair of the Working Group on Toponymy) and Peter Jordan (Chair of the Commission on Atlases), and Sebastian Lentz. The scientific program had three sessions:

- Place names and atlases
- Cartographic place-names research
- Place names on old maps

A social dinner and a guided tour of the famous Leibniz Institute of Regional Geography Library completed the program. The Seminar Proceedings will be published open access by the host institute and as a volume of its book series *forum IfL*.

For other reports from this Seminar, see the ICA Commission on the History of Cartography section on page 13 and the Joint ICA Working Group / IGU Commission on Toponymy section on page 18.

Peter Jordan | Chair | ICA Commission on Atlases | Austria ●

Cartography and Children

lazarus.elte.hu/ccc/ccc.htm

Joint Symposium of Four ICA Commissions in Dresden, Germany

Prior to the 26th International Cartographic Conference, a one-day Joint Symposium of ICA Commissions on Cartography and Children, Education and Training, Maps and Graphics for

Blind and Partially Sighted People and Planetary Cartography was held in Dresden, Germany on 23 August 2013.

The Opening Session began with welcoming address by Prof Manfred Buchroithner, Director of ICC 2013, followed by the three invited speakers: Georg Gartner, President of ICA, who talked about the current trends in the academic cartography education in Austria; Joop van der Schee, Co-chair of the IGU Commission on Geographical Education, who reported on the activities undertaken by this Commission and the mutual interests of IGU and ICA on the subject; and Sean O'Connor, Program Manager of Educational Mapping at National Geographic Society, who presented a paper entitled *Maps for Spatial Thinking and Learning across the K-12 Education Continuum*.

Immediately after the Opening Session Anthony C. Robinson, Department of Geography, Pennsylvania State University, presented a workshop entitled *Bridging Distance in Cartographic Education*, where he shared his personal experiences on distance learning online, specifically by organizing and leading a Massive Open Online Course (MOOC) entitled *Maps and the Geospatial Revolution*.

In the session dedicated to Planetary Cartography, German colleagues presented two interesting papers related to planetary geological and geomorphological maps. After lunch, the Cartography and Children session was dedicated to Brazilian experience, presenting four papers about their national teaching

programme in cartography with special emphasis on the role of maps in teaching geography in Brazilian schools. This session was followed by another three presentations on Maps for Blind and Partially Sighted People, giving the opportunity to learn about ongoing research in Brazil and USA concerning tactile cartography. The Symposium concluded with a special presentation by Sukendra Martha, Vice President of ICA, on the impact of Indonesian policy on the utilisation of high resolution imagery for updating National Geospatial Information.

In summary, the Symposium was an excellent opportunity to share experiences and learn about various research projects undertaken by four ICA Commissions over the last few years. More information about this event, including images and digital Proceedings, can be found on the Symposium's website lazarus.elte.hu/jointsymposium2013/.

For more information on this event, see also report of the ICA Commission on Education and Training on page 12, and the ICA Commission on Maps and Graphics for Blind and Partially Sighted People on page 15.

Meeting at ICC 2013

The ICA Commission on Cartography and Children held its annual meeting on 26 August 2013 in the afternoon. Three main themes were presented by the Commission Chair and discussed with the participants:

Presenters at the morning session of the Joint Symposium of four ICA Commissions (clockwise from top left): Georg Gartner (Austria), Joop van der Schee (The Netherlands), Anthony C. Robinson and Sean O' Connor (both USA) | Photograph courtesy of José Jesús Reyes Nuñez





Barbara Petchenik Children World Map exhibition at ICC 2013 in Dresden, Germany | Photograph courtesy of José Jesús Reyes Nuñez

- summary of the activities developed during the last two years, focusing on publications, newsletters and items discussed during the meeting organized in Albená in 2012
- organization of the Barbara Petchenik Competition and international contacts in the period 2011-2013; we intend to involve Commission members more directly in decisions related to the Barbara Petchenik Competition, by asking and taking into account their opinions and proposals
- activities planned for the next two years; we plan to refine the Barbara Petchenik Competition with particular attention to the quality of entries (especially in the 13-15 age group) and number of participating countries

With regards to the third point above, in the last few years we have worked on developing the organizational and structural aspects of the competition. In 2014 and 2015 our main task will focus on promoting an exchange of opinions relating to the cartographic quality of entries, particularly in the 13-15 age group. Other issue to consider is how to increase the number of participating countries in the competition, which during the last years ranged between 27 and 36 (29 in 2005, 36 in 2007, 27 in 2009, 31 in 2011 and 30 in 2013).

During the meeting Carla Sena from Paulista State University, Brazil was introduced as the new Vice Chair of the Commission for the next two years (2013-2015). She takes over from Diah Kresnawati (Indonesia), who retired in 2012 and to whom we expressed our thanks for her support and participation in our activities.

It is our pleasure to announce that the ICA reached an agreement with the Chinese Sinomaps Editorial House to publish the next book containing a selection of 100 drawings from the Barbara Petchenik Children World Map Award organized in 2009 and 2011. According to this agreement, the book should be published in 2014.

Papers and Posters at ICC 2013

The theme on Cartography for Children attracted one session with three papers in the ICC 2013 programme. Apart from this session,

participants could hear presentations related to our research field in other sessions, such as Tactile Cartography for Children and Technologies in Cartographic Education. The posters related to Cartography and Children were exhibited on Thursday, 29 August 2013.

Barbara Petchenik Awards 2013

At the ICC 2013, ICA celebrated 20th Anniversary of the first Barbara Petchenik Children World Map Award organized for the first time during the 16th International Cartographic Conference in Cologne, Germany, 3-9 May 1993. The Commission honoured the anniversary by dedicating two folding screens to present ten winning entries from the first competition. The 2013 edition gathered a total of 155 drawings from 30 countries which were exhibited during the conference. Prof Necla Uluğtekin from the Istanbul Technical University, Turkey, was named as Chair of the Jury responsible for selecting the winners of the competition. We would like to acknowledge and thank the Local Organizing Committee, particularly Prof Dirk Burghardt from Dresden University of Technology, who personally coordinated the organization of the exhibition and preparation of diplomas for the winners. See page 23 for the list of 2013 winners.

Commission Profile on Facebook

During the ICC 2013, the Commission's Facebook page was used to provide immediate news reports to those colleagues who could not attend the conference, as well as to others interested in our Commission work. The interest exceeded our expectations by far! The most visited page was the collection of photos taken at the Barbara Petchenik Exhibition depicting the folding screens of each participating nation (857 visits). The second most visited was a photo of the Joint ICA Symposium participants on 23 August 2013 (793) and the third – a table listing the winners of the Barbara Petchenik Competition 2013 with 764 visitors. Since ICC 2013, the Commission uses the Barbara Petchenik Competition entries as cover images of our profile page.

For more information about Commission's activities, please visit our website.

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

Digital Technologies in Cartographic Heritage

xeee.web.auth.gr/ICA-Heritage/

Workshop in Rome, Italy

The 8th International Workshop on Digital Approaches to Cartographic Heritage of the

homonymous annual series of Workshops organised by the ICA Commission on Digital Technologies in Cartographic Heritage was held in Rome, 19-20 September 2013, and kindly supported by Metis Systems, a producer of state of the art digital scanners. The Italian Geographic Society (SGI) hosted the Workshop at the Palazzetto Mattei in Villa Celimontana.

The working sessions of the Workshop were based on the Commission's 2011-2015 Terms of Reference:

- further elaboration of the concept of cartographic heritage and its multidisciplinary application in relation to a well-defined field of modern cartography
- procedures for the transformation of old maps, globes and other cartographic documents into digital form
- comparison of digitalization methods and technologies, including development of relevant standards
- implementation of digital techniques to the cartographic study, analysis and interpretation of old maps as far as their geometric and thematic content is concerned
- testing of various analytical processes and visualization techniques
- development and management of digital map repositories and archives to maximise their access and use by the general public, including application of relevant digital tools
- application of ICT and the Internet for teaching and propagation of the cartographic heritage amongst experts and general public
- application of relevant scanning technology for digitalization of delicate and vulnerable cartographic materials

38 papers in six sessions focused on digitalization and digital representation, digital analysis and interpretation of historic maps with particular attention to general, urban and cadastral maps, georeferencing issues, digital processing and map content. An extended part of the Workshop covered issues relating to digital map collections and map curatorship, the problem of handling and managing digital map repositories and archives, and especially the Internet assisted approach to the concept of cartographic heritage.

84 participants participated in the Workshop representing 52 academic, public and private institutions from Austria, Belgium, Croatia, Czech Republic, Denmark, France, Germany, Greece, Hungary, Italy, Latvia, the Netherlands, New Zealand, Romania, Slovenia, Spain, Switzerland, United Kingdom and the United States.

The Workshop was attended by ICA officials, László Zentai, Secretary General and Treasurer, Philippe de Maeyer, Chair of the Commission on Management and Economics of Map Production, Igor Drecki, Editor *ICA News*, and others who contributed constructively both in the working sessions and in the discussion.



Workshop participants examining samples of the Italian Geographical Society's map collection | Photography Igor Drecki

The Workshop proceedings are available from the Commission Desk (pazarli@topo.auth.gr) and a selection of papers will also appear in *e-Perimetron* (www.e-perimetron.org), an international quarterly e-journal on sciences and technologies devoted to history of cartography and maps. Several photographs from the Workshop are available from www.flickr.com/photos/103403263@N05/.

At the Workshop, a special working meeting was held between Evangelos Livieratos, Commission Chair, Carme Montaner, Vice Chair, and Renata Solar from the National and University Library of Slovenia, concerning the Commission participation in the 19th Conference of the *Groupe des Cartothécaires*, to be held at Ljubljana, 22-24 May 2014 (www.nuk.uni-lj.si/nukeng4.asp?id=468285768).

The next, 9th International Workshop will be held in September 2014 in Budapest and hosted by László Zentai and his colleagues at the Department of Cartography and Geoinformatics, Eötvös Loránd University.

Evangelos Livieratos | Chair | ICA Commission on Digital Technologies in Cartographic Heritage | Greece ●

Education and Training

lazarus.elte.hu/cet/

Commission Activities

The ICA Commission on Education and Training (CET) met in the context of a business meeting at the Dresden Congress Center on Wednesday 28 August 2013. The Chair first explained the way in which the leadership of CET had changed since it was formally approved at the General Assembly (GA) in 2011. A vote of thanks was proposed for the Chair of the 2007-2011 period, Dr David Fraser (Australia)

who had been persuaded to continue his chairmanship, when the proposed Chair for 2011-2015, Prof László Zentai, was elected instead as Secretary General and Treasurer of ICA. David Fraser agreed to do this on the understanding that he would step down as soon as an acceptable replacement Chair was ready to take over. Dr David Fairbairn, who had been approved at short notice by the GA as Vice-chair, stepped up to the position of Chair in July 2012.

David Fairbairn gave an informal presentation which served as a framework for discussion on a number of issues related to the work of CET. The approved Terms of Reference were considered, many focusing on specific activities, and the 'supplementary list' of possible specific projects developed by David Fraser was also considered. Progress has been uneven, but there were some positive issues to report:

- The Joint Symposium, a pre-conference meeting involving the CET, was held in Dresden (lazarus.elte.hu/jointsymposium2013/). This collaboration with the ICA Commissions on Cartography and Children (CCC), Maps and Graphics for Blind and Partially Sighted People, and Planetary Cartography was a one day workshop addressing a range of connected issues. Presentations from Georg Gartner on university education in cartography (*Trends in Academic Cartography Education: The Austrian Way*) and Anthony Robinson on Massive Open Online Courses (*Bridging Distance in Cartographic Education*) are presented in the Proceedings (lazarus.elte.hu/jointsymposium2013/docs/proceedings.pdf). Also relevant is an interesting account of the work of the International Geographical Union in the area of education. For more information on this event, see also report of

the ICA Commission on Cartography and Children on page 10, and the ICA Commission on Maps and Graphics for Blind and Partially Sighted People on page 15.

- The initiative of the International Map Year Working Group of ICA has education as one of its major enabling activities, and David reported on the progress so far in developing some outreach projects under this heading, many of which can be disseminated in educational environments.
- It was reported that a number of sessions in the main ICC 2013 programme were devoted to education.

Further discussion addressed topics including the promotion and organization of seminars for developing countries (collaboration with the ICA Commission on Open Source Geospatial Technologies (COSGT) was suggested); further sources for online material (the MOOC initiative at Pennsylvania State University is perhaps the most obvious location for updated online resources); publications of the Commission (limited in the current period to the Proceedings of the Joint Symposium); cooperation with the education commissions in our sister societies (e.g. FIG, ISPRS, IGU) (it was reported that the next Commission meeting is likely to be joint meeting with the ISPRS Commission VI (Education) in Wuhan, China in May 2014); cooperation with other Commissions in ICA (with COGST, and with the Commission on Maps and the Internet); the use by educators of emerging technologies, notably in GIS, for teaching cartographic concepts; the current status of education in ICA map competitions; the importance of cartographic education in high schools (although secondary school education is mainly addressed by the CCC); the state of the Commission's web pages; and recruitment of members to the Commission.

David Fairbairn | Chair | ICA Commission on Education and Training | UK ●

Generalisation and Multiple Representation

aci.ign.fr/

Workshop in Dresden, Germany

The 16th ICA Generalisation Workshop took place in Dresden on 23-24 August 2013 prior to the ICC 2013. It was jointly organised by the ICA Commissions on Generalisation and Multiple Representation, and Map production and Geo-Business. During the workshop new challenges and solutions were discussed in the domain of automated generalisation for on-demand mapping and the changing context of map use.

The workshop attracted around 50 participants and comprised 7 sessions with 24



Participants of the 16th ICA Generalisation Workshop, jointly organised by the ICA Commissions on Generalisation and Multiple Representation, and Map Production and Geo-Business | Photograph courtesy of Cecile Duchêne

presentations: 19 papers selected through a review process and 5 additional invited presentations reporting on recent activities of the organising commissions and on activities of generalisation software vendors. The presentations covered the following topics:

- Generalisation for Topographic Map Production
 - Relation modelling and contextual generalisation
 - Point selection and Dynamic Mapping
 - Generalisation software developments (presentations by vendors)
 - Selection of Road Networks and Hydrographic Networks
 - Continuous zooming, Morphing and Collapse Operator
 - Contour lines and line simplification
- Short papers and slides are available on the Commission website.

Upcoming Publication

The ICA Commission on Generalisation and Multiple Representation is delighted to announce the upcoming publication of a book entitled *Abstracting Geographic Information in a Data Rich World: Methodologies and Applications of Map Generalisation*. This book is part of the Springer's Publications of the International Cartographic Association (ICA) within the Lecture Notes in Geoinformation and Cartography series. It is edited by Dirk Burghardt, Cecile Duchêne and William Mackaness, and it involves more than 40 active members of the Commission as co-authors of the chapters. This book follows on from the 2007 book entitled *Generalisation of Geographic Information: Cartographic Modelling and Applications* that was previously produced by the ICA Commission on Generalisation and Multiple Representation (edited by William Mackaness, Anne Ruas and Tiina Sarjakoski and published by Elsevier). It comprehensively describes recent methodological advances and technological developments

in the field of automated cartography and contains a rich collection of case studies that illustrate these ideas.

Future Plans

The next major activity of the Commission is the organisation of a workshop focused on the integration and generalisation of user generated content. The workshop is planned to take place at the GIScience conference 2014. If accepted, the workshop will be held on 23 September 2014. Please check our website for updates.

Cecile Duchêne | Vice-chair | ICA Commission on Generalisation and Multiple Representation | France ●

Geospatial Analysis and Modeling

fromto.hig.se/~bjg/ica/

Workshop in Dresden, Germany

The ICA Workshop on Street Networks and Transport was successfully held at Dresden, Germany on 23-24 August 2013 (sites.google.com/site/icaworkshop2013/). There were about 20 participants from 14 countries from Europe, Asia, and North America.

Currently we are editing a special issue with

Participants of the ICA Workshop on Street Networks and Transport held at Dresden University of Technology | Photograph courtesy of Bin Jiang



the journal *Geographical Analysis* by selecting the best papers from the workshop submissions.

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

History of Cartography

www.ichistcarto.org/

Special Session in Helsinki, Finland

The 25th ICHC2013 Conference, organised by the Cartographic Society of Finland in collaboration with Imago Mundi Ltd, took place at the Marina Conference Centre in Helsinki, Finland from 30 June to 5 July 2013. The Conference was attended by 476 delegates.

The ICA Commission on the History of Cartography has a long-standing arrangement with the International Conference on the History of Cartography (ICHC) to present a half-day ICA-oriented programme on the day prior to the main ICHC conference. The ICA Session took place in the National Library of Finland and was attended by 27 persons.

To reflect the ICA Commission's specific interest in the cartography of the 19th and 20th centuries, five large map libraries in Scandinavia and northern Europe were invited to each make a virtual presentation (with comments) on important 19th century cartographic material of the Baltic Area in their holdings. The guest speakers were:

- Dr Liudmila Zinchuk, Head of the Map Department, Russian State Library, Moscow
- Benedicte Gamborg Briså, Map Curator, National Library of Norway, Oslo
- Jan Strang, President, Finnish Map Society, Helsinki
- Anda Juta Zalite, Head of the Map and Geospatial Information Department, National Library of Latvia, Riga
- Dr Markus Heinz, Deputy Director, Map Department, Berlin State Library, Berlin

In addition, members of the ICA Commission on the History of Cartography presented papers at the ICHC2013.

One of the technical tours of the ICHC, sponsored by the National Land Survey of Finland, took delegates by coach to Oravuori, one of the Struve Geodetic Arc points situated approximately 150km north of Helsinki. The Struve Geodetic Arc is a triangulation chain which was measured between 1816-1855 to gain accurate knowledge on the exact the size and shape of the earth. The chain includes 265 main station points and 258 main triangles and stretches over 2,820km from the Black Sea to Hammerfest in Norway. In 2005, 34 of the station points, one of them being Oravuori, were included in the UNESCO List of World Heritage Sites .



Participants of the pre-ICC 2013 Joint ICA Symposium in Leipzig, Germany | Photograph courtesy of Peter Jordan

Seminar in Leipzig, Germany

As a pre-conference event to ICC 2013, the ICA Commission on the History of Cartography, in collaboration with the ICA Commission on Atlases and the Joint IGU Commission / ICA Working Group on Toponymy, organized a *Seminar on Historical Maps, Atlases and Toponymy* at the Institute of Regional Geography in Leipzig, Germany on Thursday and Friday, 22-23 August 2013.

The programme which made provision for paper presentations dealing with the function and use of place names on historical maps and in atlases, consisted of sessions on Place names and atlases (chair: Peter Jordan, Austria); Cartographic place names research (chair: Paulo de Menezes, Brazil), and Place names on historical maps (chair: Elri Liebenberg, South Africa). Twenty papers were read and the Seminar was attended by approximately 30 people.

The Seminar was organized by Dr Jana Moser from the Institute of Regional Geography in Leipzig who is also instrumental in having the Seminar Proceedings published in the Institute's publication *forum IfL*.

For other reports from this Seminar, see the ICA Commission on Atlases section on page 10 and the Joint ICA Working Group / IGU Commission on Toponymy section on page 18.

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

Map Design

mapdesign.icaci.org/

Commission Activities

The 26th International Cartographic Conference in Dresden provided a focus for the ICA Commission on Map Design to report on its first two years of activity. Chair Kenneth Field along with Vice-Chairs Alexander Kent, Anja Hopfstock and Bernie Jenny used the meeting to explore a range of opportunities that will help define the work up to the next ICC in Rio de Janeiro in 2015.

We held a very successful and well attended pre-conference workshop (co-hosted by the ICA Commission on Neocartography) which allowed for some fascinating presentations and debates. We began with a series of keynote talks on the role of map design in the digital age with ICA President Georg Gartner also offering his thoughts. These were intended to set the tone of the day and present some key ideas on how digital map-making and the movement towards consumer mapping is changing how we design maps and how they communicate. Young researchers shared their work during a series of half a dozen talks. Interestingly, the meeting brought together designers, as well as those with a more traditional cartographic background, which demonstrates the way in which the role and type of map-maker is changing. It certainly brought fresh perspectives that we then explored during open discussions during the afternoon session. A series of lightning talks provided an opportunity for several participants to share their work in a rapid fire format and also for some to provoke a little controversy by challenging long-held beliefs. The pre-conference was a huge success and extremely enjoyable. It's clear that the marriage of design and the 'new' cartography is a fertile ground for re-evaluating our principles and extending research. There is an excellent write-up of the event on the Neocartography website by Steve Chilton (neocartography.icaci.org/2013/09/ica-workshop-report/).

During the conference itself the Commission held a number of business meetings which took the form of discussion sessions. Here, a number of excellent ideas were proposed that we will be looking to develop over the next period. It's clear that identifying good examples of design and explaining why they are good

examples is something very much lacking in the literature and also on blogs and web sites. Naturally, it's easy to identify what doesn't work (and there are many examples!) but putting together a forum where we can share, explore and explain good map design using contemporary examples is one way we will be using our Commission blog in the future.

The Commission also chaired a number of sessions on themes relating to map design which were well attended. There's clearly an appetite for design thinking and design leadership that we hope to tap into in the coming years. Kenneth Field and William Cartwright also wrote a lead article for GIM International magazine on *Modern Times, Modern Maps, Modern Mapping* that was made available to conference delegates in Dresden. The article drew together themes that are current to the modern mapping landscape and what it means for cartography. There now exists a truly popularized mapping landscape. More maps are being made by more people but there are fewer cartographers. More people are contributing data and producing maps which raises questions relating to how maps are created, what are the impacts upon quality and how is cartography impacted as a discipline and profession. Cartographers also have to do many other things than just make maps, such as talk about maps, write about them, do research, publish, present and so on. They also have to seemingly defend what they do from those who see it as somehow an activity that anyone can do. The article explore the term *Cartography* as a label which perhaps no longer reflects all that a cartographer does and the term has never developed sufficiently to describe what it is cartographers actually now do. It somehow got lost. Can it be reclaimed

Pre-ICC 2013 Workshop of the ICA Commissions on Map Design and Neocartography in Dresden: (clockwise from top right): Workshop participants, Andrew Turner, Georg Gartner, Julia Mia Stirnemann and Damien Demaj | Photography Igor Drecki



and be reasserted as a good, solid term to describe what cartographers, and map-makers more generally, do? It's a great word, of that there's no doubt, but that's the challenge faced. The closing remarks of the article rang true with President Gartner's whose clarion call of *It's OK to be a Cartographer* was a key theme throughout the conference.

Finally, a special issue of *Cartographic Perspectives* on the Aesthetics in Mapping has now been published which brings together thought-leaders in this area. The Commission co-sponsored the aesthetics in mapping sessions at the 2012 NACIS meeting in Portland, Oregon and articles reflect the work and discussions that took place. Conveners Bernie Jenny and Aileen Buckley have put together the issue with contributions from Commission members and active participants. It's a welcome slice through design issues as they pertain to aesthetics in an area that has a limited literature. The issue is free and can be downloaded from cartographicperspectives.org/index.php/journal/issue/view/cp73.

Please visit our web site and sign up to receive updates on the work of the Commission. If you have any ideas you can contact us through the web-site.

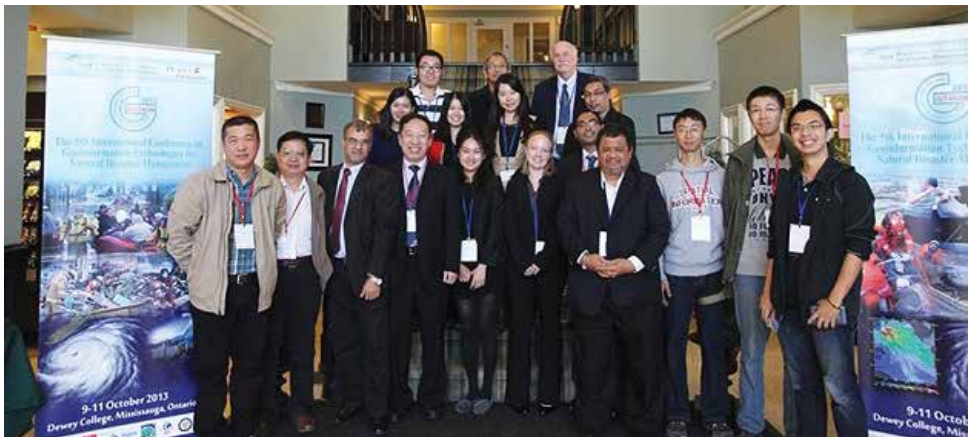
Kenneth Field | Chair | ICA Commission on Map Design | USA ●

Mapping from Remote Sensor Imagery

mailer.fsu.edu/~xyang/ica/

Meeting in Dresden, Germany

The ICA Commission on Mapping from Remote Sensor Imagery held a business meeting in Dresden, Germany, on 28 August 2013. Several Commission members and a few other ICC 2013 delegates attended the meeting. In response to the comments and suggestions received from the meeting and some other informal discussions held during ICC 2013, the Commission recruited two scholars as Vice Chairs: Dr Yifang Ban (Royal Institute of Technology, Sweden) and Dr Jan Feranec (Institute of Geography, Slovak Academy of Sciences, Slovakia). Both are very active in remote sensing and mapping science, and agreed to play this new roles in our Commission. The appointments were approved by the ICA. In addition, the Commission gained two full members: Dr Mamoru Koarai (Geographic Information Analysis Research Division, Geospatial Information Authority of Japan, Japan) and Dr Xianfeng Zhang (Institute of Remote Sensing and GIS, Peking University, China). These new appointments will definitely help to strengthen our Commission, and its leadership in particular.



Participants of the 5th International Conference on Geoinformation Technologies for Natural Disaster Management (GiT4NDM 2013) in Mississauga, Ontario, Canada | Photograph courtesy of Jonathan Li

Conference in Mississauga, Ontario, Canada

The 5th International Conference on Geoinformation Technologies for Natural Disaster Management (GiT4NDM 2013) was successfully held in Mississauga, Ontario, Canada, between 9-20 October 2013. The event was organized by the Waterloo Institute for Disaster Management (WIDM), with a co-sponsorship from the International Cartographic Association (ICA) Commission on Mapping from Remote Sensor Imagery, the International Association of Geodesy (IAG) Joint Working Group on New Technologies for Disaster Monitoring and Management, the International Society for Photogrammetry and Remote Sensing (ISPRS) ICWG I/V on Mobile Scanning and Imaging Systems as well as ISPRS WG VIII/5 Energy and Geological Applications, the International Federation of Surveyors (FIG) Working Group on Maritime and Marine Spatial Information Management, and the International Association of Geo-information and Communication Technology (AGeoICT) Working Group on Geomatics for Disaster Management. Jonathan Li (Commission Vice Chair) served as the GiT4NDM 2013 Conference Chair. Xiaojun Yang (Commission Chair), Julian Smit and Xianfeng Zhang (both Commission members) served as Co-Chairs for the GiT4NDM 2013 Scientific Committee.

The GiT4NDM 2013 offered a platform to discuss recent technical advancements and innovations in geospatial information and communication technologies as well as their innovative applications in disaster management. It received paper submissions from 22 countries with 178 people registered. The participants from Australia, Canada, China, Czech Republic, India, Iran, Kuwait, Malaysia, Romania, South Korea and USA presented papers during the two-day event. Additionally, a workshop on *Open Source Hands-on GIS for Disaster Management using QGIS and GRASS* was delivered by Prof Scott Madry from the University of North Carolina (USA) on 9 October 2013.

The conference facilitated knowledge-sharing and discussions of recent technologies among the local and international participants from both geomatics and disaster management communities. More information can be found from igrdg.com/5thGiT4NDM.php.

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

Introduction

In preparation for the 26th International Cartographic Conference held in Dresden, Germany, between 23-30 August 2013, the ICA Commission on Maps and Graphics for the Blind and Partially Sighted People carried out several tasks. They were coordinated by the Commission Chair Alejandra Coll Escanilla (Chile). Vice-Chair Waldirene Ribeiro (Brazil) represented the Commission at the ICC 2013.

Joint Symposium in Dresden, Germany

Immediately prior to the ICC 2013, our Commission organised a Joint Symposium on *Sharing Knowledge* with ICA Commissions on Cartography and Children, Education and Training, and Planetary Cartography. At the Symposium, various initiatives and future actions involving interdisciplinary approaches were presented and discussed.

For more information on this event, see also report of the ICA Commission on Cartography and Children on page 10, and the ICA Commission on Education and Training on page 12.

ICC 2013

At the ICC 2013, Waldirene Ribeiro presented a paper titled *School Tactile Cartography in*

> 16



Waldirene Ribeiro speaking at the ICA Commissions at a Glance session, ICC 2013, Dresden | *Photograph courtesy of Alejandra Coll*

*Brazil: The challenge of training teachers in the Tactile Cartography for Children session. She also contributed a poster *Global Warming - Teaching through Maps and Diagrams Touch*, prepared with Alejandra Coll. The poster presented tactile cartography research and sheets created for a project led by cartographer Enrique Pérez and involving a team of researchers from the Tactile Cartography Center, Metropolitan Technological University in Chile, and other researchers from several South American countries. Waldirene Ribeiro also served on the International Map Exhibition jury.*

One of the most important activities was the participation in the meeting of ICA Commission chairs, convened by the ICA Executive Committee. President Georg Gartner and Secretary General László Zentai both highlighted the importance of the Commissions' work, the responsibilities of Chairs and Vice-Chairs, and their vision for the future.

Finally Waldirene Ribeiro presented our Commission at the ICA Commissions at a Glance session.

Meeting in Santiago, Chile

On 5 November 2013 the Commission held its second international meeting at the Tactile Cartography Center, Metropolitan Technological University in Santiago, Chile. The meeting was chaired by Prof Alejandra Coll, Commission Chair; other participants included Waldirene Ribeiro, Commission Vice-Chair, Teresa Barrientos, Edwin Hunt and Jennifer Pinto.

Waldirene Ribeiro reported on her participation in the 26th International Cartographic Conference held in Dresden, Germany, in August 2013. She attended the presentations of the papers thematically linked to the Commission and reported on the inclusion of tactile cartography in the cartographic exhibition, specifically in the panels of maps from Poland and Spain.

The meeting participants agreed to distribute a Bulletin of the Commission in December

2013 and to incorporate the conference papers in the Commission website. Reports on publications and initiatives from various countries linked to special education should also be included. Commission preparations for ICC 2015 were also discussed.

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

Maps and the Internet

maps.unomaha.edu/ica/

Commission Activities

The ICA Commission on Maps and the Internet held a meeting in Plzen, Czech Republic in August of 2013. During the meeting three workshops and approximately 20 paper/posters were presented. A delightful group of participants from Asia, Europe, North America and Oceania had the opportunity to meet and discuss aspects of cartography on the Internet from many different perspectives. Attendees enjoyed the generous hospitality of the local meeting organizers with a visit to the world famous Pilsner Urquell brewery, a walking tour of the city and a drive through the rural countryside to the 26th International Cartographic Conference in Dresden.

At the ICC 2013 meeting in Dresden, Germany, the Commission had several papers sessions. Researchers and developers from across the globe discussed new and process issues for cartography across many Internet technologies.

The Commission business meeting focused on goals to achieve before the 2015 meeting in Rio de Janeiro, Brazil. The Commission hopes to publish an updated addition of the Maps and the Internet Book, revamp the role of the Maps and Internet website, and hold a few meetings before the ICA once again gathers for its main meeting in 2015.

Future Plans

Upcoming events that the Commission on Maps and the Internet will be participating in start with the CARTOCON 2014 Conference in Olomouc, Czech Republic in February 2014 (cartocon2014.org). Our Commission and other ICA Commissions were invited to the meeting and we are looking forward to having any new and current members attend and participate at the meeting.

Planning is underway for the Commission meeting in Brazil, more details about this meeting will be available. Currently the Commission plans to meet before the ICA General Assembly in August 2015.

Rex Cammack | Chair | ICA Commission on Maps and the Internet | *USA* ●

Maps and Society

Commission Activities

At the ICC 2013 in Dresden, the ICA Commission on Maps and Society organised a pre-conference Workshop in conjunction with the ICA Commission on Art and Cartography. This took place on the afternoon of Sunday, 25 August 2013.

The Workshop focused on the theme *Maps and Games* and comprised two contrasting sessions. In the first session, papers addressed issues relating to mapping and gaming, from a number of different disciplinary perspectives. Following a break the emphasis shifted to a more practical gaming activity, using the university campus as a game board. Delegates became players moving across the map and competing in teams to claim space. This activity was co-ordinated by Invisible Playground, a Berlin-based games collective (see also the ICA Commission on Art and Cartography report on page 9).



Colour-coded counters from different teams claiming a mapped-out space in the game on the University campus | *Photography Kate McLean*

A themed session at the ICC 2013 itself built upon this theme and focused on the relations between maps and play, as against more the more directed and rule-bound activities offered in the pre-conference Workshop.

Chris Perkins | Chair | ICA Commission on Maps and Society | *UK* ●

Mountain Cartography

www.mountaincartography.org/

Workshop in Banff, Alberta, Canada

The ICA Commission on Mountain Cartography and the Canadian Cartographic Association are pleased to announce the 9th ICA Mountain Cartography Workshop (gis.unbc.ca/banff2014/). It will be held at the HI-Banff Alpine Centre in Banff National Park in the Canadian Rocky Mountains, 22-26 April 2014 (immediately after Easter). The centre is located 1km above the town on the side of Tunnel



Mary Belle building, Banff (left); Calgary and the Rockies | Photograph courtesy of Roger Wheate

Mountain. We will have complete use of the Mary Belle building.

The Workshop theme is focused on *Mapping and Mountain Parks*; however submitted talks can deal with any aspect of mountain cartography, or map data for mountain environments. Many presentation types are possible, from research papers to live software demonstrations to map discussions.

Banff is located 110km west of Calgary and accessible by bus or car from Calgary International Airport in less than two hours. The ride goes through three contrasting environments: the Prairies, the Foothills and the front ranges of the Rocky Mountains. Banff is Canada's oldest national park (1883), and is the highest town in Canada (1400m), with many physical and cultural attractions. These include Mount Rundle and Tunnel Mountain, Banff Springs Hotel, Sulphur Mountain gondola, Bow River Falls, two nearby ski hills and plentiful wildlife.

The Workshop consists of a welcome icebreaker on the evening of 22 April, followed by one recreation day and two days of sessions. Special evening events are planned at the Banff Centre, site of the International Banff Mountain Film Festival, and a historic mountain maps exhibit at the Whyte Museum, along with a banquet on the last night.

The ICA Commission on Mountain Cartography supports young scientists and practitioners in the field of cartography and related areas to actively attend the workshop. The five best reviewed applications will receive financial support to cover part of the registration (including boarding) costs during the Workshop. Following the Workshop there will be a one or two day field trip to the Columbia Icefield / Jasper if demand is sufficient.

Roger Wheate | Member | ICA Commission on Mountain Cartography | *Canada* ●

Use and User Issues

www.univie.ac.at/icacomuse/

Recent Activities

From the perspective of the ICA Commission on Use and User Issues, the ICC 2013 in Dresden

was a great success. We have seen many good presentations on use and user issues, not only in the three sessions moderated by the Commission, but also in a variety of sessions devoted to other subjects. That is not so strange, as in the end, all work done by the ICA community is meant for human beings. After running a joint Workshop on *Designing and Conducting User Studies* at AutoCarto 2012, ICC 2013 provided the next opportunity to closely co-operate with other ICA Commission focussing on these human beings – the ICA Commission on Cognitive Visualization. Commission Chairs co-authored a paper *Focus on Geoinformation Users: Cognitive and use / user issues in contemporary cartography* which was published in the special ICC 2013 issue of *GIM International* (Vol 27 (2013) 8, pp 20-23). Members of both Commissions also contributed to well-attended open meetings in Dresden.

The clear highlight was the pre-conference Workshop on *Eye-Tracking: Why?, When? and How?* co-organized with the ICA Commission on GeoVisualization. This Workshop was held at TU Dresden on 23 and 24 August 2013 and attracted some 60 participants. All presentations from the Workshop are accessible through our website.

One of the most exciting elements of the Workshop was the session with presentations and demonstrations of six vendors of eye-tracking hardware and software. We had asked all

invited manufacturers to address a set of questions we developed ourselves to help in evaluating the pros and cons of different systems for different applications in our specific cartographic user research. Without too much hesitation all vendors collaborated in this unique undertaking and, afterwards, they were very enthusiastic about this set-up. They indicated they had learned a lot about our specific user research needs and that they had saved a lot of time by being allowed to address such a big group of really interested researchers all at once.

All participants, including the vendors, were looking forward to a next opportunity to exchange information about this very specific research topic and it was suggested to focus then on mobile eye-tracking.

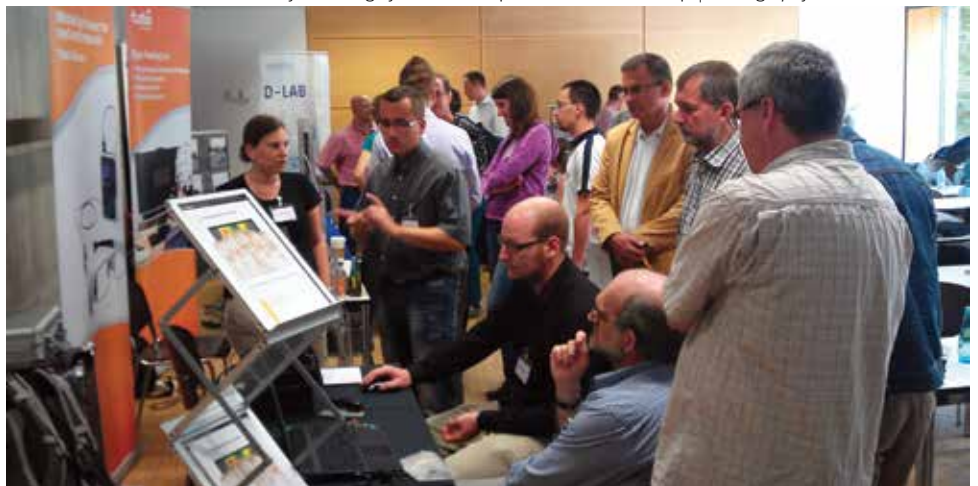
Future Plans

The next Commission meeting is planned for CARTOCON 2014 Conference (cartocon2014.org/) hosted by Professor Vit Voženílek and his staff at the Palacký University in Olomouc, Czech Republic, between 25-28 February 2014. The ICA Commission on Use and User Issues is one of the co-organizers of this conference and will be responsible for several sessions on a variety of topics related to use and user issues in cartography and geoinformation processing. There will also be open business meetings of the Commission in which, among other things, the progress of the book publication and the online bibliography (already accessible through our website) will be discussed. Parallel sessions on cognitive visualization, atlases and maps and the Internet are planned.

At the ICC 2015 in Rio de Janeiro, the Commission's Terms of Reference will be revisited. To comply with ICA's regulations there will also be changes to the Chair and Vice-Chair positions. You are very welcome to let us know about any suggestions in this respect.

Corné van Elzakker | Chair | ICA Commission on Use and User Issues | *The Netherlands* ●

Demonstration of eye-tracking systems at the pre-ICC 2013 workshop | Photograph by Corné van Elzakker



reports ica working groups

International Map Year

www.bengtrystedt.se/

During ICC 2013 the ICA Working Group on International Map Year held a meeting and made a short presentation at a joint session. In addition, it held a special session for the national delegates, where the plans for a book on cartography prepared for the International Map Year were presented, together with information on how to organize a national map year nationally. At the Working Group meeting it was decided that the name of the book should be *The World of Maps*. The final three chapters are being worked, while all other chapters are now with ESRI Press for editing. The book will be presented in June 2014 and ready for translation into other languages (a promise of translation service has already been offered by China). It was also decided that the International Map Year will be officially launched during ICC 2015 in Rio de Janeiro and continue in 2016.

Information on the content of the book will be published in *ICA News*, together with instructions on how to download it from the ICA website and suggestions for the national members regarding organization of national map days in their respective countries.

The Working Group will hold its next meeting during the CARTOCON Conference in Olomouc, Czech Republic at the end of February 2014. After that meeting there will still be time for editing of all chapters of the book and finalising the guidelines before publication.

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

Toponymy

The Joint ICA Working Group / IGU Commission on Toponymy was established at the IGU Regional Geographic Conference in Santiago, Chile, 14-18 November 2011, and subsequently approved by the ICA. Its aim is to foster toponymic research in cartography and geography, complementary to the United Nations Group of Experts on Geographical Names (UNGEGN), focusing on standardization. The ICA Working Group

is chaired by Paulo de Menezes (Brazil), while the IGU Commission by Cosimo Palagiano (Italy). Sungjae Choo (South Korea), Yaïves Ferland (Canada), Peter Jordan (Austria), Ferjan Ormeling (Netherlands), Peter Raper (South Africa) and Kohei Watanabe (Japan) act as a steering board and full members. Corresponding members are drawn from all interested people. In 2013, this new body undertaken a number of activities:

- **IGU Regional Conference**, Kyoto, Japan, 4-9 August 2013: Four sessions on geographical approaches to toponymy with a total of 15 papers had been locally organized by Kohei Watanabe and were well-attended. The proceedings will be published in English as a monograph of the scientific journal *Studi e Ricerche di Geografia* published by the University La Sapienza in Rome.
- **Seminar *Historical maps, atlas maps, and toponymy***, Leipzig, Germany, 21-23 August 2013: As a pre-conference event of ICC 2013, the ICA Commission on the History of Cartography (Chair: Elri Liebenberg, South Africa), the ICA Commission on Atlases (Chair: Peter Jordan) and the ICA Working Group on Toponymy (Chair: Paulo de Menezes), in cooperation with the Leibniz Institute of Regional Research in Leipzig, organised a joint seminar in Leipzig. The seminar saw 40 registered participants and 17 paper presentations with a lot of fruitful interdisciplinary discussion. The proceedings will be published open access by the host institute and as a volume of its book series *forum IfL* (for further information, see the ICA Commission on Atlases report on page 10 and the ICA Commission on the History of Cartography report on page 13).
- **26th International Cartographic Conference**, Dresden, Germany, 26-30 August 2013: In two sessions organized by our Working Group / Commission, a total of six papers on toponymy were presented.
- **EuGeo Congress**, Rome, 5-7 September 2013: Five papers on toponyms were presented at a panel organized by Cosimo Palagiano. In 2014, toponymic sessions are planned for the next IGU Regional Geographic Conference in Cracow [Kraków], 18-22 August 2014, and a workshop on place-names changes in Rome in November 2014. You are welcome to contribute. To join our mailing list, please approach the chairs or a steering board member.

Peter Jordan | Member | Joint ICA Working Group / IGU Commission on Toponymy | Austria ●

reports cartographic meetings and events

InterCarto / InterGIS 19

It is twenty years since the start of the most successful InterCarto / InterGIS Conference series *Sustainable Development of Territories: GIS Theory and Practical Experience* conducted in Russia and other countries. The very first Conference was held in Moscow, 23-25 May 1994. From 2002, InterCarto moved to other places around the world, including Helsinki (Finland), Sevastopol (Ukraine), Changchun (China), Budapest (Hungary), Berlin (Germany), Yellowknife (Canada), Urumqi (China), Ghent (Belgium), Salzburg (Austria), Denpasar (Indonesia), Saint Die des Vosges (France) and Bogota (Colombia).

The conferences are thematically focussed on the most current problems of modern geogra-

phy – creation and use of geographic information systems (GIS) as an effective means for realization of sustainable development of territories. Wide use of information technology tools is recommended to all countries in the *Agenda for XXI century (Agenda 21)* adopted by the UN at the 1992 Conference on Environment and Development in Rio de Janeiro, Brazil, and confirmed at the 2002 UN World Summits on Sustainable Development in Johannesburg, South Africa and later at Rio+20 in 2012. From 1994 to 2013, 2,051 participants attended the InterCarto / InterGIS Conferences representing 64 countries and 190 different cities; 1,611 were Russians coming from 51 regions. 1,494 presentations and reports were made covering no less than 36 themes. The most popular themes were:

- *Ecological GIS-Projects: Working out Experience*; 462 participants, 309 reports

- *Sustainable Development and Innovative Projects*; 393 and 292 respectively
- *GIS: the Theory and Methodology*; 347 and 256 respectively)

Vladimir Tikunov receives a grant for the development of the *Environmental Atlas of Russia* | Photograph courtesy of Vladimir Tikunov



- *Projects for Russia and Regions*; 185 and 124 respectively
- *GIS-Technologies and Digital Mapping*; 125 and 106 respectively

The first part of the 2013 InterCarto / InterGIS 19 Conference was held between 2-3 February 2013, in Kursk. Eighty two professionals specialising in cartography, geographic information technologies, and practical application of GIS from different regions and cities of Russia and Ukraine attended the conference. The materials of the Russian part of the conference were published in a 268-page proceedings.

The second part of the Conference was held between 6-8 February 2013 in Colombia's capital Bogota. The InterCarto / InterGIS 19 was part of the International Interdisciplinary Conference on Enviro- and Geo-Information and Communication (CEGeoIC) and was organized by the Committee on Data for Science and Technology (CODATA), Germany, in collaboration with the National Colombian University in Bogota and the CODATA Working Group on Preservation and Promotion of Scientific and Technical Information for Developing Countries. The Conference was supported by Prosis ESRI, the official distributor of the ESRI products on Colombian GIS market. The Conference programme included 37 reports on geoinformatics, geography, cartography and geocology from 18 countries. A 179-page Conference proceedings contained 17 presentations.

From 2014, the InterCarto / InterGIS Conference series will be also supported by the Russian Geographical Society (RGS) established in 1845 (www.rgo.ru). The Society primarily promotes geographic research, including mapping and GIS. In recent years, the RGS work is lead by President Sergei Shoigu, Defence Minister of the Russian Federation, while the Board of Trustees is chaired by President of Russian Federation Vladimir Putin. The RGS provides annual grants and in 2012 a grant was presented to Vladimir Tikunov, Chair of the ICA Commission on Geographic Information for Sustainability, for the development of the *Environmental Atlas of Russia*.

Considering the experience of these international Conferences, where a large percentage of the participants preferred to make their presentations in their native languages, from 2014 the InterCarto / InterGIS Conference proceedings will be published and reviewed in six official languages of the United Nations at the request of the speakers. We believe this will increase the attractiveness of the conference.

The next conference InterCarto / InterGIS 20 will be held in Belgorod (Russia), Kharkov (Ukraine) and Kigali (Rwanda), together with a workshop in Nairobi (Kenya) in late July 2014.

Vladimir Tikunov | Chair | ICA Commission on Geographic Information for Sustainability | *Russia* ●



Participants of the 20th Joint Czech and Slovak Cartographic Conference in Plzen, Czech Republic | *Photograph courtesy of Miroslav Mikšovský*

20th Joint Czech and Slovak Cartographic Conference

The 20th Joint Czech and Slovak Cartographic Conference was held at the Golden Fish Hotel in Plzen, between 4-6 September 2013. This year, both Societies were celebrating the 20th anniversary of their foundation and 65 years since the admission of the former Czechoslovakia to the ICA as a member nation. These joint cartographic conferences are organized biennially, alternatively in Slovakia and Czech Republic.

The Conference was organized by the Department of Geoinformatics and Applied Sciences of the West Bohemian University in Plzen and was attended by 85 cartographers, geoinformation scientists and guests. The programme of the conference focused on the current problems in modern cartography, especially on 3D cartography, map interpretation, atlas cartography and research work with old and historical maps. In six thematic sessions there were 36 papers and 2 posters presented.

Before the conference, several accompanying professional sessions were organized: a working seminar focused on the problems of geoinformation strategy in the area of geodata handling, and three workshops devoted to the NeoCartoLink, GeoInfoNET and Plan4Business projects.

In the afternoon of 5 September 2013, the 9th Plenary Session of the Cartographic Society of the Czech Republic was held, including election of the new Executive Committee. The long-standing President of the Society and the ICA Honorary Fellow (1997) Assoc Prof Miroslav Mikšovský stepped down and a new President Assoc Prof Václav Talhofer from the University of Defence in Brno, the long-standing Vice President of the Society, was elected.

Miroslav Mikšovský | Cartographic Society of the Czech Republic | *Czech Republic* ●

INCA Executive Meeting and Map Quiz

The 143rd Executive Committee meeting of the Indian National Cartographic Association, an affiliate member of ICA, was held on 18 September 2013 at Jodhpur, India, prior to the INCA Congress. The meeting was chaired by Dr Vinay K Dadwal, President of INCA, and co-chaired by Dr Swarna Subbarao, Surveyor General of India, President Elect of INCA. Apart from finalising the programme of the INCA Congress, the Executive Committee discussed plans for the upcoming year.

For the last 18 years, the Indian National Cartography Association has organised a Map Quiz for high school students. The quiz is run annually, initially at a school level for teams of three students. Then it moves to a State level, where about 5,000 student participate nationwide. The best 200 teams (600 students) go for the INCA National Map Quiz finals held at INCA Headquarters and the winners are awarded during the INCA Congress. This year the award ceremony took place at the Congress' opening session on 19 September 2013.

Amod Srivastava | Indian National Cartographic Association | *India* ●

Award ceremony for the winners of the INCA Map Quiz for high school students at the INCA Congress at Jodhpur, India | *Photograph courtesy of Amod Srivastava*



ICC 2013: Some personal views and experiences

The organisers of the International Cartographic Conference (ICC) 2013, held in Dresden during late August, have reason to feel satisfied, and indeed proud, of a job well done. There seemed to be initial misgivings (explicitly promoted in the Editorial Preface of the final programme) that, due to its size and function, Dresden could not be compared with the global megacities which normally host ICCs (Moscow, Santiago, Paris, Rio de Janeiro, Washington). However, as explained further in that editorial, the cultural significance of Dresden is of a very high level, and its cartographic contribution (notably in education) has been immense. And, in reality, the manageable size and human scale of Dresden as a city turned into a strength of the conference.

It was indeed a surprising pleasure for me, before the conference had even started, to encounter old friends from New Zealand, from the United States, and from South Africa by chance in the streets of the old city. A previous ICA Secretary General has made a distinction between large cities where ICCs disappear into the fabric of everyday life, and smaller locations which can be 'owned' by ICA for their week in residence. Dresden was very much the latter: the conference had sole occupancy of the imposing Congress Center, on the riverbank in the heart of the city, next door to the Saxon Parliament Building; the delegates were all accommodated in hotels within walking distance; the social events spread themselves around venues and activities in the city; and the orienteering event allowed delegates to surprise residents and tourists alike by running directly past the magnificent historic sites.

The Congress Center was the heart of the week's activities, and ICA felt comfortable in this space. Somewhat difficult to get to at times (the road outside which had to be crossed without traffic lights was often very busy), it proved an ideal venue for the usual conference mix of plenary sessions, exhibition space, smaller lecture rooms, refreshment provision

and social gathering. The sloping floors were disconcerting at times, and the multitude of stairways did pose some orientation problems at the beginning, meaning that it did take some time for delegates to move from one location to another. This was not factored into a programme in which a morning Plenary in the Great Hall was followed immediately by a breathless rush up three floors to the parallel sessions rooms, often finding that those sessions had already started.

The division of the programme into Plenary keynotes and subsequent parallel sessions was modelled on previous ICCs, and the schedule was well-visualised in a striking coloured plan in the 'Programme at a Glance' section of the guide. This rich diet of presentations was supplemented in the programme by business meetings of Commissions and presentations of the German Cartographic Society which held its *Deutscher Kartographentag* meeting during the week. In the main programme, the majority of the 75-minute sessions (two in the morning, two in the afternoon), presented nine parallel streams, making it impossible for any delegate to attend everything which they wanted to. Having this much on offer gives value for the registration fee (which is always higher than one would like), but can lead to frustration for the delegate who wishes to cover many sessions; it allows the increased numbers of those chosen to present a paper orally to seek financial support to attend, but may dilute the quality; it ensures that the 'feel' of the conference is multidisciplinary, innovative and exciting, but can lead to pressure on time and hurried presentations; it may mean smaller audiences in the room, but such sessions can be great for young presenters starting out and those lacking in confidence in presenting in a foreign language. On balance, international conferences, in particular, have a duty to offer oral presentation opportunities to as many delegates as possible (most have travelled long distance and spent much money to attend), and the fact that Proceedings are published in detail means that interesting material can be viewed at leisure later.

The content of the conference was, as usual, a stimulating mix of presented research, opinion, description and prediction. The scope

of the presentations was enormous: there were sessions on *Mapping emotions, Rock depiction and relief representation, Ontologies and standards in SDI, Hydrological extreme events, Historical surveying and mapping, Map perception* etc etc. It would be invidious (and impossible) to identify only a few highlight presentations, but a noteworthy characteristic of the programme was the impact of some of the new Commissions, approved at the last General Assembly, on the content of the presentations. Thus, *Map design* was a prominent theme, as was *Web Services oriented geo-business*. Other new Commissions promoted sessions on their topics in areas such as *Cognitive visualization, Art and cartography, Data quality, Open source geospatial technologies, Neocartography, GI for sustainability, and Cartography in early warning and crises management*. It was occasionally difficult to match the topics of some presentations to a highly specific session title, but I was certainly never disappointed in the range of material presented in each session. The scientific committee of the conference consisted of all Commission chairs and vice-chairs, ensuring that the major focus of the conference sessions, and the poster presentations, was the contemporary work of our Association, as carried out in the Commissions.

In addition, there are, of course, general sessions at ICCs, designed to inform, intrigue and enthuse the delegates. The speakers chosen for the opening ceremony, and the Plenary speakers who started each day of the conference, did just that. Starting, in the opening ceremony, with the Interior Minister of the Saxon State (whose welcome patronage was prominently noted on the Programme cover), the conference was able to detect what the outside world thinks of, needs from, and can contribute to, our discipline. His excellent overview of the role of cartography in government administration was followed by friendly greetings from a host of visitors from sister societies and organisation. Preceded by some restrained Wagner, expertly played on the piano, the ICA President's opening keynote was a re-statement, in contemporary terms, of our basic principles in ICA: maps are effective tools, today they have new attitudes, the study of



cartography is important, relevant, and attractive, and human users are the most important factors in cartographic activity. Each subsequent Plenary speaker (occupying the first morning and first afternoon slots in each day) introduced the conference audience to aspects of cartography which showed us how cartographers can liaise effectively with the real world. From Jack Dangermond's vision of how maps can tell stories to address serious global challenges, through Eric Loubier's masterful overview of the role of interoperability for effective map data handling, to Chris Board's highly personal account of a career which helped formed the current shape of ICA and cartographic research, all seven keynote speakers had valuable messages to convey.

A worthwhile innovation was to use the end of each plenary session to introduce each ICA Commission in a series of three minute presentations. This allowed all conference delegates to discover exactly what the Commissions are for, what work they are doing, and how, as cartographers, they can contribute to the work of Commissions.

Further aspects of the Dresden ICC which contributed to its success include the spacious and well-planned exhibition space, in which refreshments were served, ensuring a good audience for the technical and map exhibition displays. Those who wished to pay more attention to their excellent food than to the exhibition, could use the comfortable adjoining restaurant. The posters (unfortunately there were significant number of scheduled posters which did not appear) and Children's Map Competition elements of the conference were also well placed in the Congress Center. Both the latter competition and the International Map Competition were judged in their usual exemplary manner – a very difficult task given the variety and invariably high quality of the products on show. The method for displaying digital and animated map displays is still not yet mature: the prize winner in this category, however, the *Diercke Globus Online*, entered for the competition by our host nation, was a worthy winner demonstrating in an extraordinary manner the power of the web in enhancing high quality legacy cartography with interactive and dynamic tools for geo-enquiry.

This product epitomised the high quality of the conference, presented by an ICA founder member nation, Germany, to which ICA was delighted to be invited back after a 20 year gap.

The hosts of the International Cartographic Conference, from the student helpers to the conference president were cheerful, enthusiastic and above all helpful, ensuring that each delegate was made to feel welcome and able to extract maximum benefit from their visit to Dresden. The pleasant atmosphere they created was enhanced by the excellent weather, the ease of transport both into Dresden (delegates arrived by road, rail, air and by steamer-boat) and within the town itself, and by the lower costs of visiting compared to a capital city.

Personally, my 'external' highlights were the Sistine Madonna and the Bellotto *vedute* in the Gemäldegalerie Alte Meister (and they also appealed to several other conference delegates spotted visiting that excellent art gallery), but the major memory of Dresden ICC 2013 is the sheer breadth of cartographic activity, research and curiosity, reflected in a stimulating programme, demonstrating the scope and skill of cartographers from all over the world.

The ICA President, in his opening address, encouraged us all by saying that 'it is OK to be a cartographer': by the end of the conference we all acknowledged further that it is an undoubted privilege and an exciting challenge to be a cartographer.

David Fairbairn | British Cartographic Society | United Kingdom ●

ICA Travel Award Recipients

The International Cartographic Association (ICA) offers a limited number of travel awards to young cartographers from developing countries to attend the International Cartographic Conferences (ICC). The ICA generally uses the United Nations interpretation of developing country; this definition includes all countries in Africa, South and Central America

including the Caribbean, much of Asia and Oceania and the so called transition countries.

Many cartographic students and young people have started their active career in cartography as award winners, and the ICA believes that it is important to confirm the vitality of the discipline by offering such support.

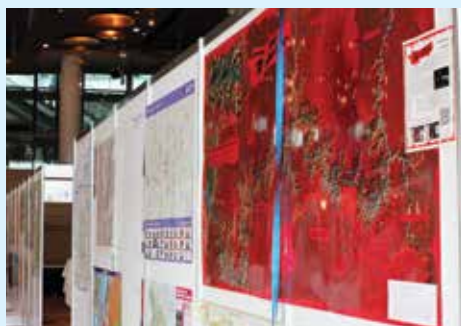
In 2013, eleven applications were received, although a few of them had not fulfilled the prescribed criteria. Eventually four awards were made to those applicants whose peer-reviewed paper was accepted for oral presentation. The winners of the 2013 ICA Travel Awards, with the title of their paper, were:

- Felipe Rufino Atkocius, Brazil, *Maps in Decision Making: Why Almost Every Negotiation Starts and Ends With a Map?*
- Iomara Barros de Sousa, Brazil, *Mapping my Mangrove: New Technologies applied to cartography to support environmental education in Geography's teaching*
- Milad Niroumand, Iran, *The Evaluation and Development of the Pixel Swapping Technique for Enhancing the Locational Perception of the Soft Classified Satellite Imagery*
- Viktor Putrenko, Ukraine, *Assessment of Risk and Hazard of Technological Emergencies with GIS (on the Example Vinnitsia Region)*

We were delighted to welcome all winners to Dresden, where they contributed to the ICC 2013 formal programme. We look forward to following their subsequent careers in cartography with interest. Each Travel Award winner was introduced and welcomed at the ICC 2013 opening ceremony by the ICA President Georg Gartner (see below).

The ICA Executive Committee discussed and accepted a new model of supporting young cartographers. The goal of this new model is to stimulate young scientists and direct their careers toward fundamental studies in the fields of cartography and GIScience, as well as link their activities with the ICA, its commissions and working groups.

László Zentai | Secretary General & Treasurer | ICA ●



Left to right (Photography ICC 2013):

Opening Ceremony of the 26th International Cartographic Conference at the International Congress Center in Dresden, 26 August 2013

Speed presentation session at ICC 2013

Display of maps at the International Cartographic Exhibition, ICC 2013

Recipients of the ICA Travel Awards: (from right) Felipe Rufino Atkocius, Iomara Barros de Sousa (both Brazil), Milad Niroumand (Iran) and Viktor Putrenko (Ukraine), with ICA President Georg Gartner

International Cartographic Exhibition

As usual, an exhibition of recent cartographic products, produced by the International Cartographic Association's (ICA) member countries and ICA's affiliate members, formed an eye-catching component of the International Cartographic Conference (ICC) in Dresden. Every day, coffee breaks and lunches for all conference participants were served in the exhibition area where the paper maps were displayed and a film loop was played showcasing submitted digital products. Therefore, the International Cartographic Exhibition got a lot of attention and this attention was well-deserved. It was a pity that the rooms with the exhibition of atlases and the two computers on which the digital products could be viewed individually were somewhat hidden on a higher floor in the conference center. Sadly, such guarded rooms were needed because, otherwise, exhibited items would disappear (sadly, this actually occurred).

In total, 33 countries and 6 affiliate members submitted entries for the exhibition, slightly less than two years ago at ICC 2011 in Paris. Based on recommendations by former juries and the ICA Executive Committee, local exhibition organizer Professor Dirk Burghardt introduced a couple of changes. First of all, the number of exhibition categories was reduced from 21 to 5 and the number of awards per category was increased from two to three. This made the judging a little bit easier. Secondly, contributors to the exhibition were asked to submit thumbnails of their entries in advance and these were used as illustrations in a splendid International Cartographic Exhibition catalogue (icaci.org/files/documents/ICC_proceedings/ICC2013/ICC2013_A4_MEC.pdf). Finally, an attempt was made to stimulate submission of digital product entries by asking all countries and affiliate members to send in short movies (of 2 minutes duration) showing the characteristics and functionality of the cartographic applications. Regrettably, not enough countries and affiliate members used this opportunity to show exciting new digital applications, which were made in the past few years. This lack of submissions may be caused by uncertainty about the way in which the digital products would be displayed. Clearly, in this respect, improvements need to be made for future exhibitions, such as, for instance, displaying the digital products on dedicated interactive exhibition websites or

international cartographic exhibition winners

PAPER MAPS

- 1** Over the Edge in 3D: Death in Grand Canyon, United Kingdom: eye-catching and technically innovative product which pushes the limits of what paper maps can do
- 2** Khumbu Himal 1:50,000, Germany: artistic redesign using unconventional colour schemes
- 3** Tongariro National Park, New Zealand: wonderful landscape depiction with still very legible map text (see image below)

ATLASES

- 1** Atlas De Wit, Belgium: fantastic facsimile of a famous hand – coloured city atlas made in 1698
- 2** Circumpolar Health Atlas, Canada: non-boring multimedia paper atlas on health conditions in the Arctic region
- 3** The Chang'E-1 Topographic Atlas of the Moon, China: technically innovative and fine detailed representation of the moon's topography

DIGITAL PRODUCTS

- 1** Diercke Globus Online, Germany: multi-touch whiteboard application with very intuitive controls
- 2** Physical Geography of Ukraine; The 8th Grade, Ukraine: effective and dynamic tool for individual learning
- 3** *Back in Time* feature on Géoportail, France: user-friendly, free and open access to a very rich geographical heritage dataset

EDUCATIONAL CARTOGRAPHIC PRODUCTS

- 1** Jacaranda World History Atlas for the Australian Curriculum / myWorld History Atlas, Australia: superb integration of a paper atlas with an interactive and dynamic online history learning environment
- 2** Collins World Watch, United Kingdom: clarifies complex geodata by a variety of (carto-) graphical means
- 3** Paper-craft 3D Map Syowa-Shinzan, Japan: Unique interactive but non-digital learning tool

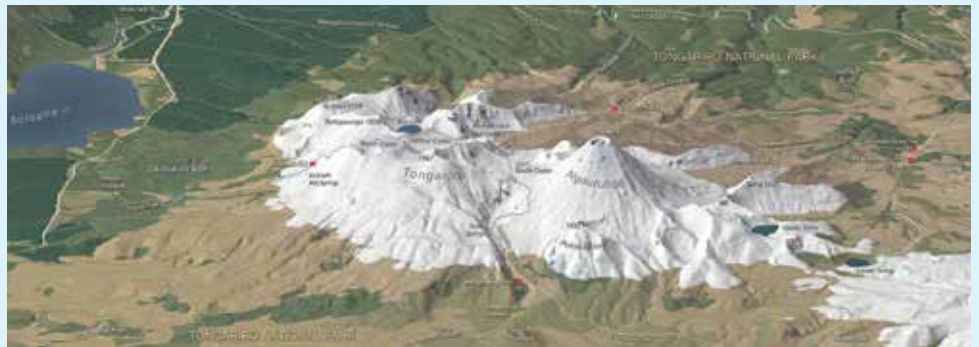
OTHER CARTOGRAPHIC PRODUCTS

- 1** Paper Cut Map, China: amazingly delicate application of traditional Chinese handicraft
- 2** Atlas of the World for the Blind and Visually Impaired, Poland: rare and very usable product for an important user community
- 3** Smellmap Glasgow, United Kingdom: adds another medium to learn about the geographical environment

PUBLIC VOTE

World Atlas of Mountains Higher than 8,000 metres, China

Tongariro National Park, a panoramic representation of the Tongariro volcanoes, central North Island, New Zealand | *Image Geographx (NZ) Ltd*



on touch tables or video walls. As the number of entries in the Educational Cartographic Products category was also rather disappointing, a reconsideration of the exhibition set-up at future ICC's seems to be worthwhile.

An international jury, invited and appointed by the ICA Executive Committee, had a difficult task to select the best products in the five exhibition categories. The judgement was based on the following criteria: cartographic design, production method, usability, innovation, cost effectiveness, aesthetics and uniqueness of theme, use or user group. These criteria reflect ICA's fields of interest, therefore members of relevant ICA Commissions were appointed in the jury:

- Corné van Elzakker, The Netherlands (Chair)
- Kaile Bower, USA

- Dirk Burghardt, Germany (LOC)
- Damien Demaj, Australia
- Waldirene Ribeiro, Brazil
- Manuela Schmidt, Austria
- Babak Shamei, Iran
- Liu Yaolin, China

Cartography is visual. If only for this reason, one cannot think of an ICC without a cartographic exhibition. What many conference participants do not see is the great amount of preparatory work that is required to organize such an exhibition. The ICA community is thankful to Prof Dirk Burghardt and his team who not only did all this work in Dresden but also did it very well!

Corné van Elzakker | Chair | International Cartographic Exhibition Jury | *The Netherlands*

ICC 2013 Orienteering Event

Orienteering is a sport that combines both a physical and mental element. The basic idea of orienteering is to proceed from the start to finish of a course, by visiting a number of control points in a predetermined order, with the help of a map and compass. As the ICA conferences are regularly organized in large conference centres in dense urban environment, it was quite common for keen participants to miss the scientific programme in order to get to their orienteering event in the country.

One of the newest forms of orienteering is the sprint event; such competitions are regularly organized in parks or urban areas, which offer a much easier environment for beginners and novices. Luckily, we had a perfect plan concerning both the venue and time in 2013 in Dresden. The venue itself was in the old town of the city, which made the participation quite easy for the real beginners in orienteering. Although compass is not really necessary in urban terrain, there were some tricky parts on the courses, which challenged also the experienced orienteers. The timing was also ideal; the ICA event was organized in the afternoon and combined with a local event; this gave enough time for preparation. There were several categories for the local participants and three courses for the ICA event. The short and middle ones crossed only the western part of the old town, but the long course was a real "sightseeing" one. However, the final time achieved by some participants suggested that they concentrated on the course rather than sightseeing though!

Altogether, there were 55 participants in the ICA event, including ICA President Georg Gartner, current and former Secretary General László Zentai and David Fairbairn, and Vice President Menno-Jan Kraak. I am sure all of them (including me) enjoyed navigating in urban environment. The winners were awarded diplomas and small prizes provided by OCAD Ltd at the closing ceremony.

Robert Krüger, a student of TU Dresden, organized the competition and prepared a map (he also voluntarily worked in the ICC local organizing team every day during the conference). Robert and his fellow orienteers gave us all an excellent opportunity to balance the intensity of the conference with physical and intellectual challenge. They also set a standard for the future ICA orienteering events!

László Zentai | Participant of the ICC 2013 Orienteering Event | Hungary ●

children's map award winners

Under 6 years old

- ▶ Keagen Madodzi | 5 | *My place in Today's World is a World where Friends are very important to me* | My Home Children's Home: Mogwase, North West Province | South-Africa
- ▶ Saule Sinikovaite | 3 | *I am at home* | Jonavos lopšelis-darželis *Dobilas*: Jonava | Lithuania
- ▶ Nazar Stolyarov | 5 | *The Wide World Flies To Me* | Zhytomyr | Ukraine

6–8 years old

- ▶ Zeva Su'azra Malaika | 7 | *Good and bad sides of my today's world* | SD Al-Azhar 5 Kemandoran: Jakarta | Indonesia
- ▶ Altuğ Namık Yavaş | 8 | *The World of my dreams* | Ahmet Haşim Primary School: Ankara | Turkey
- ▶ Vojitha Heshan Herat | 8 | - | Royal International School: Kurunegala | Sri Lanka

9–12 years old

- ▶ Ada Maria Ciontu | 9 | *Happy Earth is music to our ears* | Bucharest | Romania
- ▶ Wang Zhiling | 12 | *Peace & harmony* | No 3 Primary School of Hangkonggang District: Zhengzhou | China
- ▶ Florian Gruber and Lukas Schostal | 12 | *One among many* | Polgargymnasium Wien 22: Wien | Austria

13–15 years old

- ▶ Karina Balitskaya | 13 | *Big miracle by little hands* | School No 2: Alatir | Russia
- ▶ Amy Wang | 13 | *World section* | Te Kauwhata College: Te Kauwhata | New Zealand

- ▶ Beatriz Froehner | 13 | *The world in my face* | E.M.E.B. Selma Teixeira Graboski: Rio Negrinho | Brazil

Special mention

- ▶ Alla Sukhanova | 15 | *Be careful...* | Children's Architectural Art Studio PROUN: Saratov | Russia

Public award

- ▶ Amy Wang | 13 | *World section* | Te Kauwhata College: Te Kauwhata | New Zealand

Jury: Necla Uluğtekin (Turkey, Chair); Temenoujka Lubenova Bandrova (Bulgaria), Giedre Beconytė (Lithuania), Dirk Burghardt (Germany, LOC), Robert Edsall (USA), Nei Erling (Brazil), Pilar Sanchez Ortiz Rodríguez (Spain) and Joop van der Schee (the Netherlands, IGU); substitute members: Dariusz Dukaczewski (Poland) and José Jesús Reyes Nuñez (Hungary).

Thanks: Peter and René van der Krogt (the Netherlands)

▶ reproduced on the back cover

Jury at work | Photography ICC 2013



orienteering competition results

Short Course : Women

- 1 Aagot Hartmann | Norway
- 2 Andrea Naß | Germany
- 3 Margareta Elg | Norway

Middle Course : Women

- 1 Mara Jaunsproge | Germany
- 2 Olga Chesnokova | Switzerland
- 3 Jana Otrusnova | Czech Republic

Long Course : Women

- 1 Sabine Hauswirth | Switzerland
- 2 Barbara Stachonova | Czech Republic
- 3 Pamina Pammer | Austria

Short Course : Men

- 1 Antony Cooper | South Africa

Middle Course : Men

- 1 Terje Midtbø | Norway
- 2 Georg Gartner | Austria
- 3 Sebastian Hennig | Germany

Long Course : Men

- 1 Zbynek Sterba | Czech Republic
- 2 Craig Feuerherdt | Australia
- 3 Gian-Reto Schaad | Switzerland

ICC 2013 :: Facts and Figures¹

icc 2013 participants	1,034
full	581
senior / student / africa	252
one day	164
accompanying persons	37
organisers / visitors / press	102
commercial exhibitors' personnel	65
participants at technical visits	199
iabg geodata factory	20
map department of the berlin state library	26
royal cabinet of mathematical and physical instruments	17
saxon state library	65
saxon state spatial data and land survey agency (geosn)	71
meetings	32
ica commission and working group business meetings, workshops and tutorials	28
other events	4
exhibits at international cartographic exhibition²	529
maps	353
atlases	70
digital products	55
educational and other cartographic products	51
maps at children's map exhibition	155
less than 6 years old	12
6-8 years old	28
9-12 years old	67
13-15 years old	48

ICC 2013 :: Origin of Presentations³



¹ Source: Report from the 26th International Cartographic Conference (ICC 2013), Dresden, Germany, August 2013.

² Source: International Cartographic Exhibition Catalogue, ICC 2013, Dresden, Germany.

³ Source: ICC 2013 Conference Proceedings (USB flash drive).

⁴ 441 oral presentations were actually delivered at the conference.

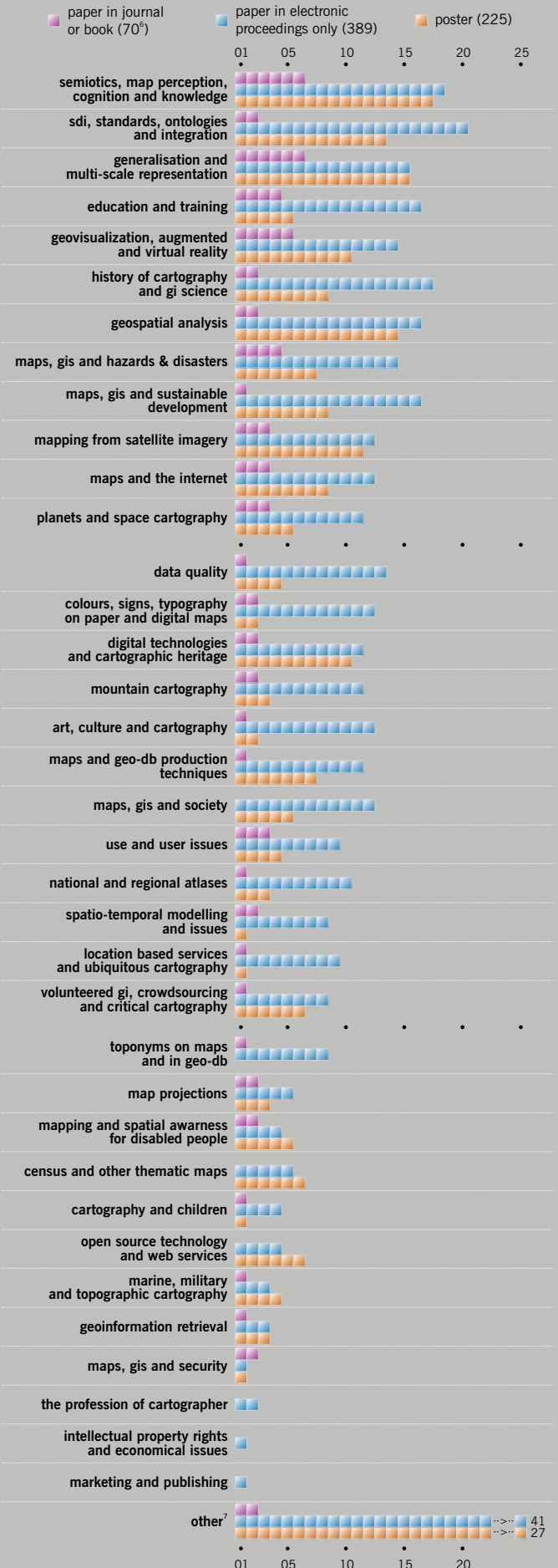
⁵ Other countries include Belgium, Ireland, Saudi Arabia, Slovenia (2 oral / 0 poster presentations each), Algeria, Chile, Romania (1/3 each), Italy (1/2), Latvia, New Zealand, Ukraine (1/1 each), Albania, Denmark, Egypt, India, Morocco, Portugal, Rwanda, Singapore, Taiwan-China, Thailand (1/0 each), Tunisia (0/5),

Botswana, Slovakia (0/2 each), Cameroon, Estonia, Kazakhstan, Serbia, Pakistan, Tonga, Uruguay and Vietnam (0/1 each).

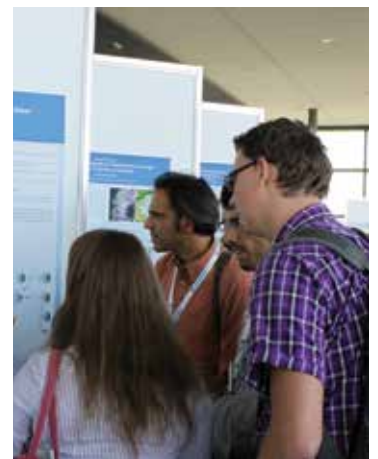
⁶ Journals: *Cartographica*, Vol 48, Issue 2, Summer 2013 (6 papers), *Cartography and Geographic Information Science*, Vol 40, No 3, June 2013 (11 papers), *Kartographische Nachrichten*, Vol 63, No 4, August 2013 (5 papers) and *The Cartographic Journal*, Vol 50, No 3, August 2013 (13 papers). **Book:** Manfred Buchroithner, Nikolas Prechtel, Dirk Burghardt (eds), *Cartography from Pole to Pole*, Springer-Verlag Berlin Heidelberg, 2013 (35 papers).

⁷ Other themes include Plenary, COST/EuroSDR, German May Days, and Dresden and its Sister Cities, as well as unclassified miscellaneous themes.

ICC 2013 :: Published Papers and Posters^{1,3}



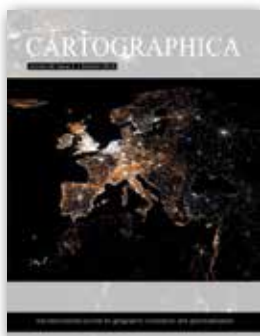
conference in pictures



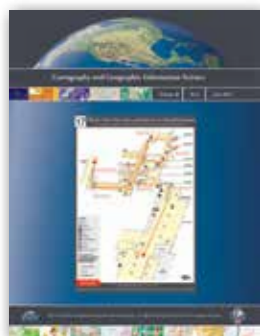
Photography László Zentai, Corné van Elzakker and- ICC 2013

conference publications

Manfred Buchroithner, Nikolas Prechtel, Dirk Burghardt (eds), *Cartography from Pole to Pole*, Springer-Verlag Berlin Heidelberg, 2013



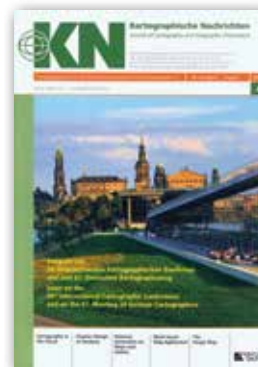
Cartographica, Vol 48, Issue 2, Summer 2013



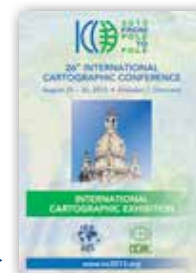
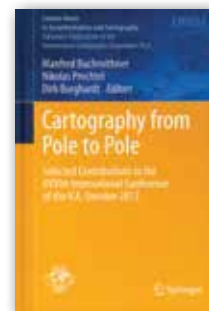
Cartography and Geographic Information Science, Vol 40, No 3, June 2013



The Cartographic Journal, Vol 50, No 3, August 2013



Kartographische Nachrichten, Vol 63, No 4, August 2013



ICC 2013 Proceedings (USB flash drive)

International Cartographic Exhibition Catalogue

obituary

Kira Shingareva

09.01.1938 – 15.09.2013



“If one says the words planet and map together, Kira Borisovna Shingareva is the number one figure”, the Russian weekly *Russkij Reporter* wrote in 2010. She certainly was the driving force behind planetary

cartographic activities at all levels as Professor at MIIGAiK, the Moscow State University for Geodesy and Cartography. Her extraterrestrial geography course attracted students from high school to university and even her colleagues.

Kira Shingareva graduated from MIIGAiK in 1959 as an astronomer-geodesist. She then graduated from the Technical University of Dresden in 1961, received her PhD in 1974, and became a Doctor of Science in 1992. She has held the position of Principal Scientist at the Laboratory of Comparative Planetology at the Space Research Institute at the Academy of Science until 1977.

Between 1976 and 1978 Kira Shingareva completed a second degree in economics from the Lomonosov Moscow State University at the Faculty of International Relations. From 1977 until recently, she worked at the Department of Economics and Business of MIIGAiK, success-

fully combining teaching in a number of scientific disciplines with her work in the Planetary Cartography Laboratory of MIIGAiK.

Shingareva participated in the Russian National Space program by mapping the Moon, Mars, Phobos and Venus and selecting landing sites for the early Moon probes. Her effective management enabled MIIGAiK to carry out its planetary cartographic activities when financial aids stopped due to the Mars-96 spacecraft failure. She also helped revive the laboratory as MExLab (MIIGAiK Extraterrestrial Laboratory or Comprehensive Laboratory of Studies of Extraterrestrial Territories) in 2010 which provided a place of work and study for 50 students and young scientists and made it one of the key international planetary science centers of Russia.

Shingareva was concerned not only with the geographic and cartographic aspects of planetary bodies, but also with place names: starting in the late 1960s, she helped in the development of the planetary nomenclature. Her first presentation at the IAU 1967 meeting was about the proposed new nomenclature of the far side of the Moon; that was a starting point in restructuring the system of planetary nomenclature. She was also vice-chair of the Space Toponymics Commission of the Russian Academy of Sciences. She believed that the management of planetary toponyms should be passed from IAU to an interdisciplinary UN commission of geographers, geologists, and philologists.

Shingareva's main collaborative project with her colleagues was the creation of the *Atlas of Terrestrial Planets and their Moons* (1992) the preparatory work which took 12 years. The atlas was digitized and translated into English in 2007. Based on this work, Shingareva

initiated the production of the series *Multilingual Maps of the Terrestrial Planets and their Moons*. Both of these projects are unique and aim to show the results of planetary discoveries to a wide and international audience in a cartography-based format. She co-authored a high school textbook entitled *Geography of Extraterrestrial Territories* (2009) which, along with the new, high-school-targeted version of the atlas (*Atlas of the Solar System*, 2005) now provides the foundation of planetology education in Russia.

Kira Shingareva was the driving force behind the ICA's Planetary Cartography Working Group (co-chair: 1995–1999) and Commission (chair: 1999–2007). She was also an outstanding organizer of scientific activities, playing the leading role preparing the 23rd International Cartographic Conference held in Moscow in 2007. Since 2007, she was the Honorary Fellow of the International Cartographic Association (see *ICA News*, No 49, December 2007, page 5 for the citation).

She showed tireless commitment and enthusiasm to planetary cartography, which she passed on to subsequent generations. She lived during the most exciting era of planetary explorations, at a time when she had to make the most out of the limited resources available. As she said, “we move forward, step by step”.

Kira Shingareva died on Sunday, 15 September 2013. She is commemorated by the main-belt asteroid 294595 Shingareva and a small, but very unusual, Lunar far side crater Kira, named by her American colleagues.

Henrik Hargitai, Irina Karachevtseva and Extraterrestrial Laboratory (MExLab) Team | Moscow State University for Geodesy and Cartography | Hungary / Russia

calendar

april 2014

22-26: 9th ICA Mountain Cartography Workshop | *Mapping and Mountain Parks* | Banff, Alberta | *Canada* | ninkasi.unbc.ca/htdocs_newgislab/2126-2/

may

07-09: MundeGeo | Sao Paulo | *Brazil* | mundogeoconnect.com/2014/

june

15-21: 5th Jubilee International Conference on Cartography & GIS | Riviera | *Bulgaria* | www.iccgis2014.cartography-gis.com

july

01-04: GI-Forum 2014 | *Geospatial Innovation for Society* | Salzburg | *Austria* | www.gi-forum.org

august

04-06: International CODATA Workshop on Data for Science and Sustainability in Developing Countries | Nairobi | *Kenia*

september

03-05: GeoCart'2014 / 3rd ICA Regional Symposium on Cartography for Australasia and Oceania | *Cartographic Journeys through Space and Time* | Auckland | *New Zealand* | web.env.auckland.ac.nz/public/geocart2014/

04-05: 9th International Workshop on Digital Approaches to Cartographic Heritage | Budapest | *Hungary* | xee.web.auth.gr/ICA-Heritage/2011_2015/Budapest2014/

october

06-08: Joint International Conference on Geospatial Theory, Processing, Modelling and Applications | Toronto, Ontario | *Canada* | www2.isprs.org/2014GeoTPMA/home.html

06-08: 2nd International Symposium on Service-Oriented Mapping | Potsdam | *Germany* | somap.cartography.at

06-08: AutoCarto 2014 | Pittsburgh, Pennsylvania | *USA* | www.cartogis.org/autocarto.php

07-11: GéoCongrès 2014 / GeoConference 2014 | Quebec City, Quebec | *Canada* | www.geocongres2014.ca

november

03-05: Geomatics Atlantic 2014 | *Geomatics in your Toolbox!* | St. John's, Newfoundland | *Canada* | geoatlantic.org

17-18: Joint ICA Working Group / IGU Commission on Toponymy Symposium on Place Name Changes | Rome | *Italy*

26-28: 11th International Symposium on Location-Based Services | Vienna | *Austria* | www.lbs2014.org

december 2014

02-06: International Symposium on Cartography in Times of War and Peace | Ghent | *Belgium* | geoweb.ugent.be/histocar-to2014/

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children's map gallery 2013 winners



Amy Wang | 13 | *World Section* |
Te Kauwhata College: Te Kauwhata
| New Zealand

Alla Sukhanova | 15 | *Be careful...*
| Children's Architectural Art Studio
PROUN: Saratov | Russia

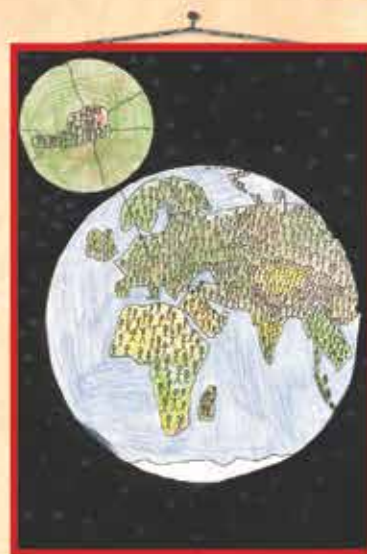
Beatriz Froehner | 13 | *The World
in My Face* | E.M.E.B. Selma Teixeira
Graboski: Rio Negrinho | Brazil

Florian Gruber and Lukas Schostal | 12
| *One among many* | Polgargymnasium
Wien 22: Vienna | Austria

Wang Zhiling | 12 | *Peace & Harmony*
| No 3 Primary School of Hangkonggang
District: Zhengzhou | China



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