



president's report



Dear Colleagues

This ICA Newsletter is being published in the ICA's 50th year. The ICA was founded on 9 June 1959, in Bern, Switzerland and this year, along with other ICA events,

we will have a special event, again in Bern.

This column covers the International Cartographic Conference, to be held between 15-21 November in Santiago, Chile, a report from the Executive Committee meeting held in Santiago in November 2008, a report of the ICA Symposium for Central and Eastern Europe, held in Vienna in February this year, my meeting with the Executive of the International Map Traders Association at their conference in Belfast in February 2009 and a request to send any nominations for ICA awards to the ICA Awards Committee Chair Dr Ramón Lorenzo Martínez.

24th International Cartographic Conference, Santiago, Chile

November 2009 brings together cartographers and GI Science specialists from across the globe to Santiago, Chile for the International Cartographic Conference – ICC 2009. The conference will provide a forum for the presentation of scientific papers illustrating the efforts of the research community, professional papers describing the cutting-edge methods employed by mapping organisations, meetings of the ICA's Commissions and Working Groups, furthering their international collaborative efforts to advance knowledge and techniques in cartography, map exhibitions and the chance to meet again with colleagues and friends.

ICC 2009 is an important international event, but also an important event for Chile and Latin America generally. The International Cartographic Association has a Memorandum of Understanding with Pan American Institute

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24th international cartographic conference 2009 invitation to chile



This year Chile hosts the 24th International Cartographic Conference (ICC 2009), to be held between 15-21 November 2009 in Santiago. The Conference is jointly organised by the IGM (headquarters of the Local Organising Committee (LOC)), the International Cartographic Association (ICA) and FISA S.A. (event production). ICC 2009 is supported by several patrons and sponsors. The venue is the Escuela Militar (Military School) of the Chilean Army in Santiago.

There are several opportunities still available to both domestic and international organisations including:

- sponsorship of ICC 2009
- display of maps and cartographic products at the International Cartographic Exhibition; space reservations until **30 June**, catalogue information due by **30 August**

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Escuela Militar (Military School) of the Chilean Army, the principal venue of ICC 2009 | *Photography courtesy IGM*



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Two South African boys working on their entries to the Barbara Petchenik Children's World Map Competition | *Photography courtesy Elri Liebenberg*



Being a cartographer often demands from us taking a stand, defending our design choices and protecting our professionalism and integrity to remain faithful to the ethical principles of our discipline. This is not easy... especially when dealing with commercial customers whose cartographic knowledge is limited. The disparity between customer wishes and the best cartographic practice sometimes creates an ethical dilemma. Should the customer always be right or should we remain faithful to our professional expertise? Should we follow questionable design directives of a client or should we follow cartographic design principles?

The dilemma however is only theoretical. As cartographers and professionals we have a duty to maintain graphical integrity of our products. The purpose of the map, its scale and target audience determines the design approach we need to employ and execute. We cannot change it, otherwise it is *not cartography*. Our creativity and experience adds a character and aesthetic form to the map. Here is an opportunity to invite our clients for a contribution to that process and work with them in order to translate their vision into cohesive, logical and graphically sound representation. This is also our opportunity for expanding our horizons by listening to our client's story and unleashing our cartographic ingenuity and talents to tell that story graphically.

Adherence to ethical principles of cartography should always be exercised. Only then can we remain faithful to our discipline and help in maintaining the respect it deserves.

This is the last issue of ICA News prior to ICC 2009 in Chile. The Conference is featured prominently in this newsletter together with the Chilean national member profile. The ICA 50th Anniversary in June this year has inspired a couple of interesting contributions. Our President is certainly not slowing down which is evident from his report.

I am grateful for your continuous support and hope that you find this issue of ICA News interesting.

Igor Drecki | Editor ICA News | ICA

The **ica news** is published by the International Cartographic Association (ICA).

President: **William Cartwright** | RMIT University | Australia

Secretary General & Treasurer: **David Fairbairn** | Newcastle University | United Kingdom

Editor ICA News: **Igor Drecki** | The University of Auckland | New Zealand

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president's report cont...

of Geography and History (PAIGH). The relationship with PAIGH began in 2004 when Professor Milan Konecny, immediate Past President of ICA, gave a presentation at PAIGH's on Rethinking America conference. In his presentation *Information and development: territorial information in the 21st Century*, Professor Konecny proposed strengthening of a collaboration between ICA and PAIGH. We have now developed a close relationship with the PAIGH and its Secretary-General, Santiago Borrero Mutis. The occasion of ICC 2009 will enable members of both organisations to meet both formally and informally.

The ICA Executive has worked closely with the ICC 2009 Local Organising Committee, chaired by Col Juan Vidal Garcia-Huidobro, Director of the Military Geographic Institute. After Ferjan Ormeling visited the IGM and its proposed conference facilities in Santiago in March 2004, the relationship to develop ICC 2009 with IGM intensified in A Coruña, Spain, at ICC 2005, where the formal bid by Chile was submitted to the ICA Executive Committee by Col Luis Alegria. After endorsement and approval of Chile as the host nation, and IGM as the organiser for ICC 2009, the ICA Executive then worked with Col Rodrigo Barriga Vargas and then Col Juan Vidal Garcia-Huidobro to further develop the conference.

Soon after Chile's successful bid for ICC 2009 I travelled to Santiago in September 2005 to view the proposed conference facilities and to meet members of IGM who were developing the conference. I was most pleased to be able to view first-hand the proposed conference venues and to meet socially with members of IGM. This was my first time in Chile, and I was impressed by Santiago, the conference venues and the general infrastructure available for conference delegates. Most importantly, I was able to get to know members of IGM personally. I again travelled to Santiago in November 2008 to meet with the Local Organising Committee and to Chair the ICA Executive Committee meeting held in conjunction with the ICA Executive Committee inspection of conference sites. I was again warmly welcomed to Chile by members of IGM and their families. I have wonderful memories of my two times in Chile, on both professional and personal levels.

A volcano and an Arucaria tree in Parque Nacional Conguillio, Southern Chile | Photograph copyright Pro-Chile



For Latin America and Chile the conference provides the opportunity for Latin American colleagues to see the efforts of researchers and professionals in cartography and GI Science, globally and to showcase Latin American Cartography and GI Science in a global forum. The conference will allow international colleagues to meet both professionally and socially, so as to make initial contacts with Latin American colleagues or to strengthen existing alliances.

The International Cartographic Conferences take place every two years and is important to note that the ICA also celebrates its 50th anniversary this year. ICC 2009, to be held between 15–21 November in Chile, is an important contribution to this celebration.

I look forward to meeting you in Santiago.

Executive Committee Meeting, Santiago, Chile

The ICA Executive Committee met in Santiago, Chile during November 2008. At that meeting a number of items were addressed. These included:

- Reports on the status of Commissions and Working Groups
- Reports from meetings with other organisations – Joint Board of Geospatial Information Societies (represented by Secretary General David Fairbairn and the President), the Joint Board of Geospatial Information Societies AdHoc Committee on Risk and Disaster Management (represented by immediate Past President Milan Konecny) and International Map Traders Association (President)
- Reports on publications and future conferences

During the meeting the Executive Committee met with the ICC 2009 Local Organising Committee and inspected the conference venues. Discussions took place on the operation of the conference sessions and social events.

Our thanks to the Local Organising Committee and its Chair Col Juan Vidal Garcia-Huidobro, the Military Geographic Institute and our Chilean colleagues for their warm hospitality during our stay in Santiago.

ICA Symposium for Central and Eastern Europe

The Symposium was held in Vienna in February this year and organized by ICA Vice President Georg Gartner. TU Vienna hosted the Symposium. This event brought together cartographers and GI scientists from the region, as well as international attendees. The Symposium ran over two days and it was preceded by a *PhD/Master Forum*, which allowed new researchers to present and receive feedback.

The keynote paper was presented by former ICA Secretary General Professor Ferjan Ormeling on the topic of *From Ortelius to*

president's report cont...

OpenStreetMap – Transformation of the map into a multifunctional signpost. I presented a brief welcome on behalf of the ICA and then a paper in the Symposium itself followed by greetings given by Professor Ingrid Kretschmer, Honorary President of the Austrian Geographical Society, Professor Wolfgang Kainz, Chair of the Austrian Cartographic Commission and Professor Hans Kaiser, Vice-Rector for External Relations at TU Vienna.

The ICA was well represented at the Symposium and the topics of the papers were diverse and reflected the various interests of those attending and showcased the activities in Central and Eastern Europe.

ICA Awards Committee

The ICA Awards Committee is Chaired by Dr Ramón Lorenzo Martínez (Spain), a former Vice President of ICA. Other members of the Committee are Elri Liebenberg (South Africa), Bob McMaster (USA), Miroslav Mikovsky (Czech Republic) and Kira Shingareva (Russia).

We are most pleased to have these esteemed members of the international cartographic community to deliberate on the awarding of these prestigious awards.

The International Cartographic Association makes a number of awards for outstanding service to the ICA and to cartography generally. These are:

- Carl Mannerfelt Gold Medal - the highest award of the ICA. It recognises excellence in scholarship and research in Cartography and GI Science
- Honorary Fellowships - awarded to recipients who have made outstanding contributions to the ICA

The ICA Awards Committee makes recommendations to the Executive Committee for consideration. The Committee can receive nominations for ICA Awards from national and affiliate members of the Association through the Chair at rlorenzo@fomento.es.

William Cartwright | President | ICA

ica news new features of ica website

www.icaci.org

Over the last couple of months we have been enhancing the ICA website by introducing several new features and improvements.

RSS Feed

The ICA website now offers an RSS feed. The feed notifies subscribers about important content updates in the form of a short summary and a link to the updated item. This helps to keep you up to date with recent developments without having to remember to visit the ICA website regularly. You can add the feed by clicking on the orange RSS Feed icon displayed in most modern browsers.

ICC Proceedings

Visiting the **Publications** section of the ICA website will lead to online Proceedings from the International Cartographic Conferences.

The ICA website Home Page | Image: Manuela Schmidt

Proceedings from the 19th ICC Ottawa 1999 to 23rd ICC Moscow 2007 are now hosted on the ICA server and can be accessed directly. The original interfaces have been preserved, with two requiring a PDF browser plugin.

ICA Logo and Design Guidelines

The **Association** section of the website offers digital versions of the ICA logo and design guidelines for its use. Several file formats (EPS, TIF, GIF) and colour options are available in order to meet variety of design requirements, from high quality print to web publishing. During 2009 the regular ICA logo can be replaced by the **ICA 50 Years** anniversary logo. The design guidelines and graphic examples explain the correct use of the logo. **We kindly ask you to use only the original ICA logo files from the ICA website.**

WordPress Website Templates

Are you interested in setting up a website based on WordPress for your commission or working group? Would you like to use a template in the style of the ICA website? Then please contact us to help you with your project.

For questions and ideas concerning the ICA website, please contact Manuela Schmidt or Felix Ortag at icawebsite@cartography.tuwien.ac.at.

Manuela Schmidt | Web Developer | ICA Website | ICA | manuela@cartography.tuwien.ac.at

ica news disseminating cartography worldwide

ICA takes its worldwide remit seriously: the Executive Committee has representatives from every continent; the Newsletter is an excellent publication which is sent by post across the globe and is accessible on the web; the ICA website extends our reach to all cartographers and interested people worldwide; the biennial International Cartographic Conferences take place in exciting locations around the world (please join with us in Santiago, Chile, in November – see this Newsletter for details); the ICA Commissions and Working Groups meetings in 2009 have been in locations from Prague to Bishkek, from Nottingham to Teheran, from Venice to Gävle, and from Chengdu to Gent (and most will meet also in Santiago); the *GIM International* magazine promotes ICA to its international readership every month; and our affiliate members make their living from cartographic activity everywhere.

A recent method of showing the importance of our activities to the world is the hosting of Proceedings of International Cartographic Conferences of the past on the ICA website at www.icaci.org (for more details see Manuela's excellent article on the new features of the ICA website beside). These publications should prove immensely beneficial to cartographic researchers and practitioners, and we think this will raise the profile of ICA in the scientific community.

Another innovation on the website soon will be a **Map of the Month** feature. Initially we hope to receive submissions for this from ICA affiliate members. The intention is to display high quality cartography, submitted as a PDF or a high resolution scanned image, with a few notes about the map and its creator(s). Such a feature will enhance further the important role of the website in mirroring cartographic activity worldwide. Please submit your work through the **Contact** section on the home page at www.icaci.org.

Cartographers are an internationally-aware group of professionals: we encourage you to travel to the 24th International Cartographic Conference in Santiago, Chile this November, and show how international you are!

David Fairbairn | Secretary General & Treasurer | ICA | dave.fairbairn@newcastle.ac.uk



President

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Secretary General & Treasurer

David Fairbairn | Newcastle University | UK

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ica news contributions

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Submission Deadlines

15 May for June editions

15 November for December editions

24th international cartographic conference invitation to chile

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- set up of meetings for ICA Commissions, Working Groups and Committees; room reservations until **30 August**
- participation in the commercial and technical exhibition; booth reservations through FISA S.A. An individual registration includes:
- direct access to all paper and poster sessions, and the International Map Exhibition featuring maps and atlases reflecting the state-of-the-art and the future of cartographic and geospatial sciences
- ICC 2009 Proceedings on CD-Rom with all conference papers and other supporting documentation
- first-hand experience of world-class exhibitors and leaders in geosciences
- opportunities to tour fascinating range of landscapes and cultures of Chile



A country church near Huillanco, Southern Chile | Photograph copyright Pro-Chile

Complementary activities include technical tours to local cartographic agencies, plenary sessions featuring keynote speakers, the Children's Maps exhibition, a meeting of cartographic agencies, sponsor presentations and an orienteering event. LOC has made progress in all areas. A full set of papers and posters (selected from submissions already received) are being scheduled into the conference programme, while facilities for paying conference registration and booking hotel accommodation are available online at www.icc2009.cl.

ICC 2009 is special for at least three reasons:

- the Conference is linked to the bicentenary celebrations of Chile (200 years since independence in 1810)
- this is the first-ever International Cartographic Conference organised in South America, enabling the ICA to strengthen its relations with Latin American specialists
- at the global level, this conference has a mission to provide the world's geospatial solutions by focusing on the data, tools, services and techniques needed by the global community; ICC 2009 will enable the convergence of multiple sectors, i.e. state, private, scientific and academic, on these solutions

The Local Organizing Committee and the whole of Chile is looking forward to greeting you in Santiago in November 2009. For further information, please visit us at www.icc2009.cl or email at info@icc2009.cl.

Local Organizing Committee for ICC 2009 | Military Geographic Institute of Chile | Chile

Valparaiso, city and port | Photograph copyright Pro-Chile



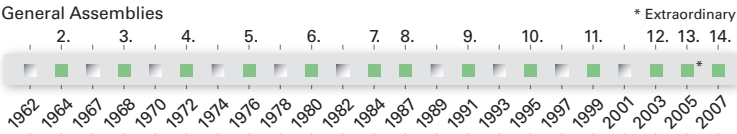


ETH Zurich: Lehmeier, Cron, Jenny, 2009

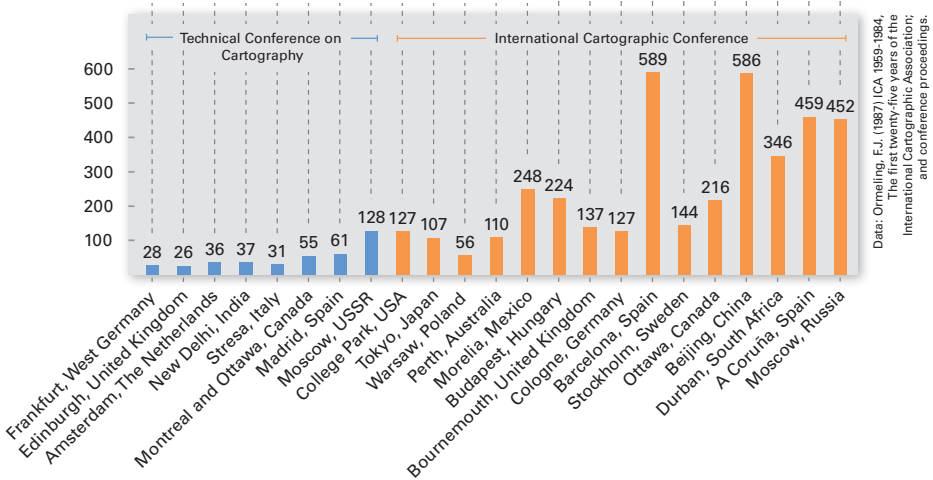
ICA General Assemblies

- 1959 Foundation Meeting Bern, Switzerland
- 1961 First General Assembly Paris, France

Further General Assemblies



ICA Conferences and number of papers presented



Mapping the First 50 Years of ICA

The International Cartographic Association (ICA) was established fifty years ago in Bern, Switzerland. Since its founding in 1959 by twelve western European countries and the United States, the ICA has grown to include over 80 nations as members. To date, the ICA has organized 14 general assemblies and 23 international conferences with a total of more than 4,000 papers presented. With the ICC 2009 conference in Santiago, Chile, conferences will have taken place on all six continents. As illustrated by the map at left, Europe has hosted 14 of the past 23 conferences. The international character of the ICA has always been reflected by the diverse origins of the members of the executive committees and its 11 presidents. The International Cartographic Conferences normally take place every other year and are usually complemented every four years by a General Assembly of the national representatives. The first General Assembly took place 1961 in Paris, France, where Professor Eduard Imhof from Switzerland was elected the first President of the ICA. In 2011, Paris will host the 15th General Assembly and the 25th International Cartographic Conference.

The map uses the Ginzburg VIII projection, which distributes parallels with unusual increasing spacing, strongly inflating polar regions. This arrangement creates the required space for an enlargement centred on Europe, which is necessary to show all conference locations. The map background is Tom Patterson's Natural Earth II (see Tom's profile in *ICA News* No 50, June 2008), a raster map dataset portraying the world's vegetation zones in an idealised manner with little human influence.

The graphs below the map summarise the basic facts about ICA General Assemblies and International Cartographic Conferences including the number of papers presented at each conference.

Bernhard Jenny, Juliane Cron and Simone Lehmeier | ETH Zurich | Switzerland

We would like to ask for your help with collecting a full set of ICA News newsletters for editorial purposes. It will be held by the current Editor and passed on to the new one at the end of appointment.

Such a working set will be invaluable in cross-referencing current news stories and reports with what has been reported in the past. Furthermore, it will allow research into the evolution of this publication over the last twenty-five years and help with developing a strategy and editorial profile for the ICA News into the future. Hopefully it will also facilitate the recycling of unwanted newsletters.

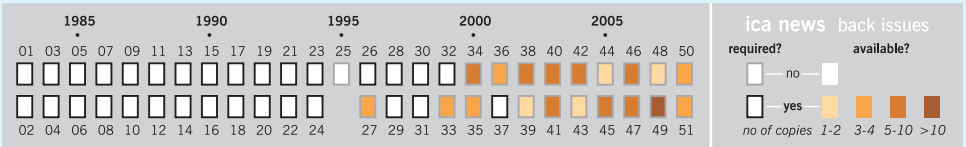
Providing that the set is made up of back issues in good or excellent condition, we might consider digitising all newsletters that predate Number 33 (December 1999) and publishing them on the ICA website at www.icaci.org as downloadable PDF files.

In exchange for back issues we can offer most copies of ICA News from the last decade,

although stock levels are very limited (see diagram below for details).

If you think you can help with this project, please contact Igor Drecki, Editor ICA News at i.drecki@auckland.ac.nz.

Igor Drecki | Editor ICA News | ICA



giedre beconyte



My acquaintance with cartography began at the age of six in the form of a colourful atlas on world economy. The atlas was in Polish and contained many interesting maps with

exquisite symbology that step by step revealed amazing things like where diamonds and chromium ore could be found or where nuclear power stations are. Since then I am attracted to maps and... still know many Polish names for various minerals and natural resources! However, despite my early interests, it took me more than twenty years to fully appreciate good cartography.

I do not consider myself a 'real' cartographer. I have never studied cartography nor had it ever been my primary occupation. Just after earning my MSc in Informatics I happened to be involved in Business Reengineering (a subject, which I finally did my PhD in) at the Centre for Cartography at Vilnius University, Lithuania. Back in 1995, a large variety of thematic maps were compiled there. The process was somewhat missing the 'systematic approach' and 'consistent data management' I got used to, but the maps were beautiful. They made me want to try myself. It was a challenge trying to combine my amateur painting with professional logic skills to produce something that is equally informative and pleasant to look at. Contrary to the most of the main stream cartographers of my generation I perhaps enjoy map design far more than GIS analysis and programming.

Recently I have been teaching various IT subjects at Vilnius University and working on development of the national SDI at the state agency for geoinformatics. I have never expected to be elected as the Secretary of the Lithuanian Cartographic Society, but I do enjoy this job. I especially like to make things happen in this cross-disciplinary field, share ideas with other people and sometimes... make maps.

Giedre Beconyte | Vilnius University | Lithuania
| giedre.beconyte@gf.vu.lt

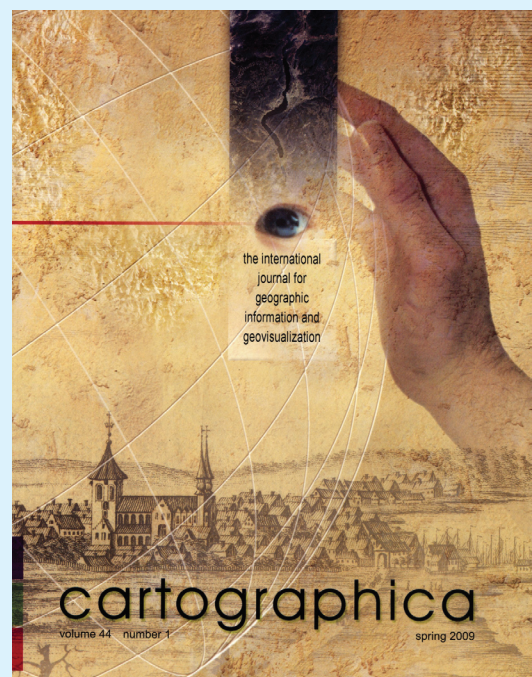
Giedre Beconyte | *Physical and temporal distances from Vilnius* | National Atlas of Lithuania | 2008

The map allows comparison of the Euclidean distances represented by isolines with the statistical temporal distances (average time needed to reach the place by the airplane and/or car) shown in colour from Vilnius. While physical distances increase in a predictable fashion, the temporal ones keep changing rapidly. Unfortunately, the estimation of temporal distances is very time-consuming, although analysing these changes would be really interesting.

www.utpjournals.com/carto/carto.html

Cartographica, the official journal of the Canadian Cartographic Association (CCA) and one of three for the ICA, was founded in 1964 by Bernard Gutsell (York University), who served as the Editor to 1994 and publisher until 1980. It was first published (twice a year) as *The Cartographer*, and renamed *The Canadian Cartographer* in 1968, with periodic *Cartographica* monographs. The journal was published quarterly as *Cartographica* from 1980 by the University of Toronto Press. The current editor since 2007 is Jeremy Crampton from Georgia State University, USA.

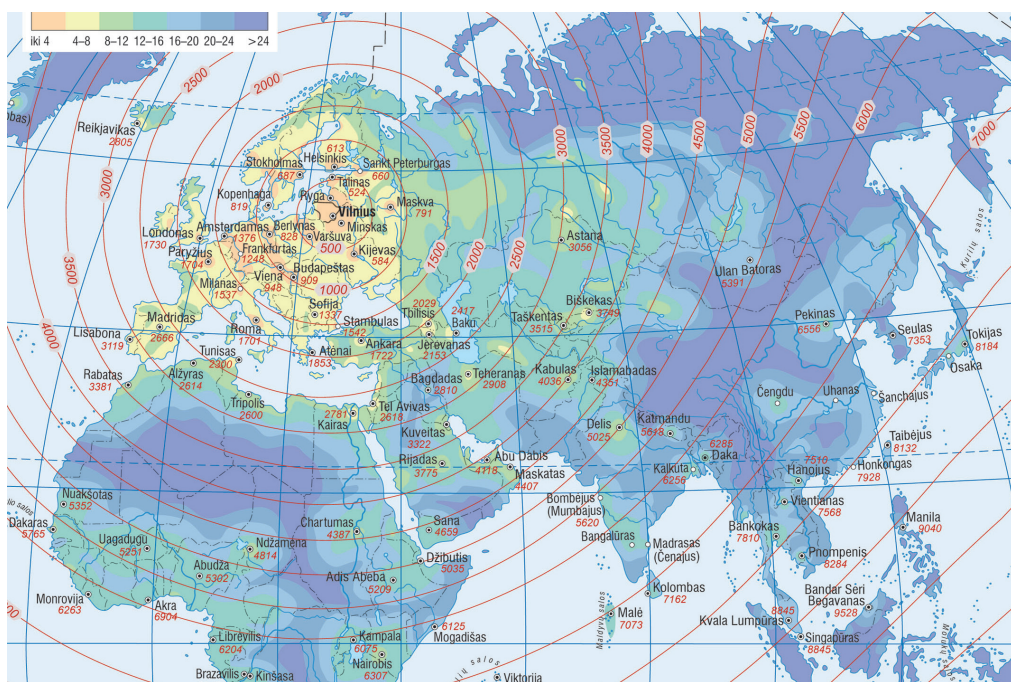
Early issues covered map design and production, history of cartography, education and automation. The first monographs (1971) examined the 17th century cartography of Newfoundland, and map design and the map user. The next decades followed the increasing role of automation, describing Canada's first fully automated topographic map in 1971, and two landmark papers on reformatting digital cartographic data between raster and vector. The journal maintains a balance between technical, social and design aspects. The current editor has compiled the most cited 'classic' articles: all 10 are from 1984-94 (see *Cartographica* website). Foremost is Harley's essay on deconstructing the map, followed by articles on digital elevation models, frameworks for spatial data models and temporal information, error in spatial databases, area class map boundaries and visualization of time series. The new millennium added a subtitle: *the international journal for geographic information and geovisualization*, and has seen the journal being available online since 2007. Volumes include single-topic monographs (54) and



Recent cover of the *Cartographica* journal

special issues, accommodating book-length manuscripts. Monograph examples include treatises on national atlases, cartographic communication, the Napoleonic survey of Egypt, colour and thematic map design. Special issues have recently examined mountain cartography, GIS and social science, cybercartography, and geovisualization. *Cartographica* is dedicated to publishing articles on all aspects of cartography and spatial data, and invites submissions on relevant topics.

Roger Wheate | Co-Editor | *Cartographica* | Canada



profiles ica national committee for chile

www.igm.cl

Chilean cartography is represented in the International Cartographic Association by the Military Geographic Institute (IGM), Chile's principal state cartographic agency. The IGM is the local organiser of this year's 24th International Cartographic Conference, giving Chile the honour of facilitating this prestigious world-class cartographic event.

The ICA National Committee at the IGM was created to address ICA matters specifically and has fulfilled this role since Chile joined the ICA.

Among public or state institutions, two general trends involving geo-sciences can recently be observed. They involve data migration to the SIRGAS spatial reference framework and WGS 84 Datum, thus improving positional accuracy, and the National Territorial Information System (SNIT), the national spatial data infrastructure, which provides a framework for data sharing and convergence towards common standards. Several private businesses provide services and tools to support these developments. Professional Cartographers are trained at two Universities offering degree courses in Cartographic Engineering and also at other institutions offering a range of courses related to the Earth Sciences.

Given below are five specific examples of current activities in the public, academic and

private sectors involving development and utilisation of geospatial data:

- The Hydrographic and Oceanographic Service of the Navy (SHOA) continues to update its database of electronic nautical charts complying with IHO standards and intended for shipboard navigation systems.
- The National Service for Geology and Mining (SERNAGEOMIN) continues to add digital maps to their 1:100,000 scale cartographic coverage of Chile's basic geology.
- The Natural Resources Information Center (CIREN) has developed a series of maps of the Valparaíso Region made up of base satellite orthoimages with 60cm spatial resolution at 1:10,000 scale, elevation contours with 10m vertical separation in vector format, and property boundaries as polygons at 1:20,000 scale dating from 2007.
- The Tactile Cartography Center, affiliated with the Metropolitan Technological University (UTEM), continues to produce materials for the blind and persons with special educational needs. The thermoformed plastic (PVC) maps include 3D relief, tactile symbology and text in braille.
- The firm *Geaintec* offers virtual, fly-through 3D representations of real terrain, combining DEM, raster and vector sources.

Other developments in Chilean cartography of the last few years are summarised in the 2003-2007 National Report submitted to the 14th General Assembly of the ICA and available online from www.icaci.org.

Edwin Hunt | IGM | Chile

Santiago, Chile's capital city | *Photography courtesy CTSTurismo*



profiles moscow state university of geodesy and cartography

www.miigaik.ru

Moscow State University of Geodesy and Cartography celebrates its 230th anniversary on 25 May 2009. This date is also associated with the establishment of the Cartographic Faculty as an independent structural division at the Moscow Institute for Engineers of Geodesy, Aerial Surveying and Cartography (MIIGAik) in 1936. The Cartographic Faculty has been the first dedicated cartographic school offering training to numerous engineers-cartographers, whose work has been to promote the development of cartographic sciences in Russia.

The emergence of cartography was the result of both the establishment of Land Surveying School (KZU) in 1779, transformed into Land Surveying Institute (KMI) in 1835 (both named after Prince Konstantin), and the challenges encountered in training specialists to carry out the General Land Survey of Russia and in processing the results of their mapping.

Recently, the Faculty has created two scientific schools, i.e. the School of Mathematical Cartography and the School of Art and Graphics, which are actively expanding their academic programmes. The close connection between geodesy and cartography is pronounced by their common problems and the University's strategic profile. This allows the

Faculty graduates to conduct the whole range of cartographic and geodetic work, including creating and updating maps by both field and in-house methods, which is a distinctive feature of the MIIGAik's cartographic education.

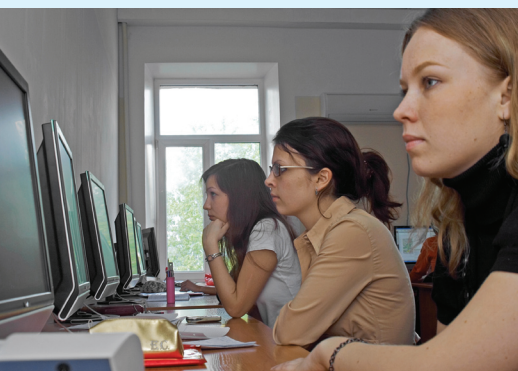
Training of specialist cartographers involves encompassing such new directions and fields of knowledge as geoinformatics, remote sensing, mathematical modelling and digital technologies. Scientific research is being done on a wide range of issues dealing with the theory of cartography, cartographic projections, aerospace monitoring, topographic and ecological mapping, digital cartography, investigations into the field of planetary cartography, methods and technologies concerning map design and production.

The Faculty scientists are actively participating in scientific conferences at various levels and contributing to many international cartographic projects. The fundamental basis of the cartographic education formed by the scientists of KMI is being developed in the contemporary context.

Tamara P Nyrtsova | Dean | Cartographic Faculty | Moscow State University of Geodesy and Cartography | Russia



P A Skvortsov's school of pictorial landscape design for maps (above) and cartography students in the Cartographic Faculty's computer laboratory | *Photography courtesy of MIIGAik*



Cartography and Children

lazarus.elte.hu/ccc/ccc.htm

Meeting in Prague, Czech Republic

The ICA Commission on Cartography and Children (CCC) met in Prague on 21 January 2009 during the Joint Symposium of ICA Working Group on Cartography on Early Warning and Crises Management (CEWaCM) and JBGIS Geo-information for Disaster Management (Gi4DM). The meeting was initially planned for Madrid, Spain in April 2009, but due to organisational difficulties encountered by the hosts, it was eventually changed to Prague.



The meeting was attended by 12 participants from Europe and Australia. A new logo of the CCC, designed by Anelia

Jotova, former participant of the Barbara Petchenik Children's World Map Competition, and Jesus Nunez, Co-Chair of the CCC, was presented at the meeting. It will now be used on official letters and documents of the CCC.

The discussions focused on the 2009 edition of the Children's Map Award, Santiago, Chile. Members from Austria and Poland wanted to know if there is a possibility for extending the deadline for forwarding children's maps to the Netherlands. Although all announcements were already sent to the ICA member nations and incorporated in the ICC 2009 materials, the Dutch colleagues agreed to extend the submission deadline by two weeks. All submitted entries will be recorded onto a CD-Rom and sent to the Judging Committee.

ESRI Press published the second book *Children Map the World* featuring 100 favourite drawings from 2005 and 2007 editions of the Barbara Petchenik Children's World Map Competition *Many Nations – One World*. The book has been presented to the Commission members.

The Czech national competition, organised with help of Vit Vozenilek, complemented the meeting. It attracted a lot of interest not only from the participants of the CCC meeting, but also from the Joint Symposium.

Czech national round of the Barbara Petchenik Children's World Map Competition organised in January 2009, Prague, Czech Republic



Participants of the ICA Commission on Cartography and Children meeting in Prague

The organisation of a new competition on Educational Cartography, initially proposed by Patrick Wiegand, Past Chair of CCC is under-way. It was agreed that the competition will be run by the ICA Commission on Education and Training. Ferjan Ormeling suggested that the rules of the competition should be written and discussed at the 24th ICC in Chile.

At the Joint Symposium, Temenoujka Bandrova presented a report *Cartography for Early Warning and Crises Management for Students' Needs* that involved work with students from different age groups in Austria, Bulgaria, Czech Republic and Slovakia. Similar work is proposed to be carried out with students from Hungary and Indonesia.

Future Plans

The CCC plans its next meetings in Santiago, Chile in November 2009, in Black Sea resort in June 2010 and in Paris, France in 2011.

Temenoujka Bandrova | Co-Chair | ICA Commission on Cartography and Children | Bulgaria

Digital Technologies in Cartographic Heritage

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

Meeting in Venice, Italy

Since 2006, the ICA Commission on Digital Technologies in Cartographic Heritage is organising the International Workshops on Digital Approaches to Cartographic Heritage. The 4th Workshop was held in Venice, Italy, 6-7 April 2009. The Università IUAV di Venezia hosted the event with kind support of Regione Veneto, and assistance of the Aristotle University of Thessaloniki and the Hellenic Cartographic Society (web.auth.gr/xeee/ICA-Heritage/Commission/4rth_Workshop/Venice.htm).

The Workshop attracted 80 participants from ten European countries and the USA, representing national and university libraries, map archives and cultural foundations, universities, regional and local administration authorities, and businesses specialising in digitizing

machinery development and archiving software implementation.

31 contributions were presented organised into six sessions:

- The foundation of the notion of cartographic heritage, the research, evaluation and barriers in this field
- The digital acquisition and representation
- Spatial data infrastructures and the needs of map libraries
- Digital analysis and interpretations of historic maps
- Information and communication technologies
- Web interface in cartographic heritage

A round table discussion chaired by Georg Gartner, Vice President of ICA, examined the state of the art in cartographic heritage and the outcome of this Workshop. It concluded that Cartographic Heritage, as primarily inter- and intra-disciplinary field, is experiencing a dynamic evolution in developing a distinct scientific and research milieu where new ideas, processes and operations are developed, merged, tested and established with the help of digital technologies. It is evident that this new field, needs time and space to mature and develop strong foundations. In this context, the series of Workshops organised by the Commission serve as key events in developing a consistent, well balanced and distinct domain with strong cultural, scientific and technological merit.



Aula Magna at the University IUAV of Venice, Italy

The Workshop acknowledged that many issues relating to the quality of digitizing hardware, standardisation in digitising old manuscript maps, as well as the digitisation of globes requires further attention and research. Issues concerning the robustness of image files, digital preservation methods and georeferencing have been addressed in the Workshop presentations, together with other themes relating to the access, dissemination and public use of cartographic heritage. It was possible to observe a clear continuation of research efforts from previous Workshops and a significant progress in addressing original issues.

The Venice Workshop also confirmed that the awareness of cartographic heritage issues is recognised internationally. Furthermore it encouraged an international collaboration and development of research initiatives within the ICA community and beyond.



Participants of the 4th International Workshop on Digital Approaches to Cartographic Heritage

Future Plans

A presentation showcasing the Commission's work is planned to take place at the 24th ICC in Santiago, Chile, 15–21 November 2009.

The 5th International Workshop on Digital Approaches to Cartographic Heritage will be held in Vienna in 2010 at the Vienna University of Technology. It will offer a summary of the first five meetings and critically assess Commission's work in relation to its Terms of Reference, including the priorities in cartographic heritage research and perspective for the future.

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

Education and Training

lazarus.elte.hu/cet/

Meeting in Prague, Czech Republic

The first ICA Commission on Education and Training (CET) meeting for 2009 was held as part of the joint symposium on Cartography and Geoinformatics for Early Warning and Emergency Management, Prague, 21 January. The meeting was chaired by David Fraser (Australia) and the following Commission members were present and contributed to the discussion: Laszlo Zentai (Hungary), Vaclav Talhofer (Czech Republic) and Sukendra Martha (Indonesia).

Discussion at the meeting centred on the following items:

- CET website
- Member countries and their representatives
- Twenty CET projects for 2007 to 2011
- The web-based teaching program
You can contribute to this project by identifying any freely available online cartography teaching modules that you are aware of which can be placed within a program structure by the CET. This structure will cluster all like modules together by theme (eg. map design) and this in turn will allow anyone around the world with Internet access to undertake these modules as part of their professional development.

- A web listing of undergraduate cartography courses
This is a project where everyone can contribute by providing the latest information about cartography and cartography related courses in their own country. The web listing is a valuable resource for the international cartographic community.

New Projects

• The Generic Attributes of Cartography Graduates

The aim of this project is to identify what the CET considers as key attributes that are required of any individual completing formal education in cartography. The attributes relate specifically to cartography and not related areas. Cartography is now imbedded in other programs and rarely stands alone as an independent qualification. It is hoped that after some debate the CET will be able to publish a list of generic attributes for those trained and educated in cartography at the certificate, bachelor and postgraduate levels. You are invited to contribute your own thoughts.

• Influential cartographers – six degrees of separation project

This project idea generated some enjoyable discussion at the last CET meeting and showed that everything is not as simple as it first appears. The aim of this project was for each CET country member to identify six influential cartographers down through history. It was hoped that once this was achieved then the links between these cartographers from different countries would be found. For example, the Hungarian cartographer Erwin Raisz moved to the USA and he may have influenced one of the cartographers on the list for the USA. Discussion was lively at the CET meeting and it became obvious that it was perhaps more appropriate to consider listing cartographers from world regions rather than specific countries, as quite a few countries have been created, modified and disappeared over time.

- **Biannual award on educational cartography**
CET members attended the meeting of the ICA Commission on Cartography and Children in Prague. At this meeting it was agreed that the CET would take over the responsibility for the organisation of a biannual award on Educational Cartography, initially proposed by Patrick Wiegand. The competition aims to promote good practice in relation to the design and realisation of educational cartography. Submissions would be invited in the form of maps, atlases and other educational cartographic products designed to be used for school students within the 3-18 age range. Guidelines and the criteria for selection will be developed in time for the conference in Chile. Items will be selected for the map exhibition as part of the

ICA conference in Paris in 2011. Further details will follow. If you are interested in being part of this project please let me know.

• Iran - Cartography Refresher Courses

The chair of the CET was approached by the manager of the Cartography Department in National Cartographic Center of Iran. He enquired as to whether the CET could run cartography refresher courses in Iran for his staff. The CET decided to accept the offer. At the time of writing this newsletter the following cartographers: David Fraser; Colin Arrowsmith; Laszlo Zentai; Antal Guszlev; David Forrest and Mike Shand offered to contribute to three workshops in May and June.

• Vietnam - Cartography Workshop

It is proposed to run a workshop on cartographic theory and practice in Ho Chi Minh City at some time during 2010, possibly August. It may be that this will about a walking tour of selected scenic forest areas in Vietnam. This is at the early stages of development but if you are interested in being part of this workshop please let me know.



Participants of the ICA Commission on Education and Training, Prague, Czech Republic

Future Plans

The next meeting of the Commission will be in Santiago, Chile, 15-21 November as part of the 24th International Cartography Conference.

David Fraser | Chair | ICA Commission on Education and Training | Australia ●

Generalisation and Multiple Representation

ica.ign.fr

Workshop in Zurich, Switzerland

The ICA Commission on Generalisation and Multiple Representation welcomes contributions to its next Workshop *Geographic Information on Demand*, to be held in Zurich, immediately prior to the GIScience conference, 13-14 September 2010.

The Commission is concerned with the automatic presentation of geographic information at multiple scales, or levels of detail. The implications for automated cartography, and in

> 10



Seminar Participants at Schloss Dagstuhl - Leibniz Center for Informatics, 14-17 April 2009, Germany

data models able to support this process are fundamental to the instant creation of thematic maps, as well as for National Mapping Agencies and their creation of series mapping.

The Workshop is comprised of presentations, open problems and round table discussions. Attendance is dependent on submission of a 2000 word position paper by 15 April 2010.

We are particularly interested in current research that explores: the context of map use and how this can be linked to map generalisation; methods by which users can easily specify map requirements; ways of evaluating map output as part of more fully automated solutions; the sharing of algorithms through web services, exploring the idea of machine to machine maps; the role of generalisation in supporting third party data integration; the use of generalisation in low and high dimensional data. For any of these topics, the Commission welcomes demonstrations that illustrate the utility of systems (experimental or commercial).

For more details explaining these topics, and on submission, visit ica.ign.fr.

William Mackaness and Sébastien Mustière
| Co-Chairs | ICA Commission on Generalisation and Multiple Representations | *UK and France*

Geospatial Analysis and Modeling

www.fromto.itb.hig.se/~bjg/ica/

Important Changes

The Commission website has moved to www.fromto.itb.hig.se/~bjg/ica/ and the 3rd ICA Workshop on Geospatial Analysis and Modeling website is relocated to www.fromto.itb.hig.se/~bjg/ica/workshop2009/.

Workshop in Gävle, Sweden

The 3rd ICA Workshop on Geospatial Analysis and Modeling will be held on 6-7 August 2009

in Gävle, Sweden. Founded upon the tradition of the workshop series, we aim at bringing together researchers from relevant fields to address issues related to geospatial analysis and modeling. We call for papers that (1) develop visual and analytical tools for geospatial analysis and modeling, and (2) extract geospatial knowledge by applying these tools to huge arrays of geospatial data that have recently become available. The tools and the knowledge constitute two major concerns in our pursuit for better spatial planning and decision making. Relevant topics include, but are not limited to:

- Cellular automata and agent-based modeling
- Visual analytical tools for environmental and urban systems
- Analysis of human movement data
- Spatio-temporal data mining
- Hierarchies, scaling and fractal structure of geographic patterns
- Modeling vehicle dynamics and crowd behaviour
- Patterns of human spatial behaviour and migration
- Urban high-resolution morphology
- Small-world modeling and spatial interactions

For more information, please visit the Workshop's website at www.fromto.itb.hig.se/~bjg/ica/workshop2009/.

Bin Jiang | Chair | ICA Commission on Geospatial Analysis and Modeling | *Sweden*

Geospatial Data Standards

ncl.sbs.ohio-state.edu/ica/

Meetings in 2008 and 2009

The ICA Commission on Spatial Data Standards holds mini-meetings during the year, when some members of the Commission happen to be together at other meetings. During 2008, two mini-meetings were held, attached to the plenary sessions of ISO/TC 211, *Geographic information/Geomatics*, in Copenhagen, Denmark (28 May 2008) and Tsukuba, Japan (4 December 2008). A mini-meeting also took place at the ISO/TC 211 plenary in Molde, Norway, at the end of May 2009.

During 2008, the Commission's paper *An initial formal model for spatial data infrastructures*, (authored by Jan Hjelmager, Hal Moellering, Antony Cooper, Tatiana Delgado, Abbas Rajabifard, Petr Rapant, Dave Danko, Michel Huet, Dominique Laurent, Henri Aalders, Adam Iwaniak, Paloma Abad, Ulrich Düren and the late Alexander Martynenko) was published in the *International Journal of Geographical Information Science*. We are taking further this work on modelling spatial

data infrastructures (SDIs) using the Reference Model for Open Distributed Processing (RM ODP) and the Unified Modeling Language (UML), and are preparing a paper on the Computation Viewpoint of an SDI, for submission to a journal. The Commission is also researching spatial semantics and ontology, and their impact on, and relevance to, cartography and standards.

Future Plans

The Commission plans to hold a full Commission meeting in Chile just before the 24th International Cartographic Conference in November 2009 in Santiago, as well as a business meeting during the conference itself.

Antony Cooper | Chair | ICA Commission on Geospatial Data Standards | *South Africa*

GeoVisualization

geoanalytics.net/ica/

Workshop in Hamburg, Germany

The ICA Commission on GeoVisualization coordinated a successful Workshop on *GeoVisualization and the Digital City* in March 2009. The *GeoViz Hamburg* Workshop took place at the HafenCity University Hamburg (HCU) and was organized and hosted by Jochen Schiewe and colleagues from the HCU Lab for Geoinformatics and Geovisualization (g2lab).

More than 80 participants from 16 countries attended 3 days of sessions in which research questions and use cases relating to geovisualization were addressed in the context of digital cities. A variety of perspectives were presented by 36 participants through short lectures and active demonstrations that took place in the spectacular environs of a canvas circus tent erected in the HCU atrium.

The Workshop was structured to promote communication between participants. The technical program began with a *Fast Forward Session* in which all presenters introduced their research in a one minute taster. Short sessions consisting of three or four 15 minute presentations followed. These were interspersed with long breaks giving scope for intensive discussions, new introductions and lively information exchanges. The structure gave the meeting a character that was appreciated by participants.

From a thematic point of view the presentations covered a huge spectrum. For example, the State Enterprise Geoinformation and Surveying of the Free and Hanseatic City of Hamburg as official provider of geo data presented current WebGIS developments, and Martin Over (University of Bonn) concentrated on the application of user generated and freely available geo data as basis for 3D city and



Participants at GeoViz Hamburg - the ICA Commission on GeoVisualization Workshop on GeoVisualization and the Digital City | Photography courtesy Gennady Andrienko

terrain visualizations. The broad application of geovisualization in the context of digital cities varied from the use of spatially related visualizations for the analysis of political decision processes in a city council (Rolf Hugoson und Fredrik Palm, Umeå University) to the realization of a historical city model of the City of Solothurn as developed for a museum (Susanne Bleisch *et al.*, FH Nordwestschweiz). Advanced applications of 3D city models as analysis tools were demonstrated by Jürgen Döllner (HPI Potsdam). Special emphasis was laid on adapted visualization techniques. For example, Anna-Lena Kornfeld (HCU Hamburg) presented approaches for the visualization of acoustic phenomena in urban space. In a dynamic live demo Aidan Slingsby and colleagues from City University London showed the use of tree maps for the analysis of spatial and temporal variations of real estate prices in London. Further lectures dealt with technically oriented developments like the use of mobile devices in location based services (Georg Gartner, TU Vienna), the possibilities of Augmented Reality interfaces for easing spatial interactions (Volker Paelke, Leibniz University of Hannover), or the use of 3D prototyping techniques for the visualization of 3D GIS objects (Wolf Dieter Rase, Bonn). Methodological work from on cartographic approaches and advances in Visual Analytics included Natalia and Gennady Andrienko's visual summary of multiple trajectories, the Chorometric diagrams presented by Andreas Reimer and Doris Dransch and Larissa Pschetz and colleagues presenting design patterns for Geovisualization.

Panel sessions on the VisMaster Coordinated Action and *GeoVisualization and the Digital City* provided scope for discussing key themes and identifying research opportunities and priorities in the context of the work presented at the meeting. Further details including abstracts, presentations and demos are online at tinyurl.com/geoVizHamburg/.

GeoViz Hamburg included a rich supporting program, which offered visits of the State Enterprise Geoinformation and Surveying and

the very interesting exhibition *Dialogue in the Dark* in HafenCity Hamburg.

Authors of selected contributions are being encouraged to develop their work in light of the meeting for publication in planned special issues of Computers, Environment and Urban Systems (CEUS) and the Cartographic Journal in early 2010. A context setting editorial will draw upon the work, the panel sessions and other discussions held at the workshop to identify research trends, priorities and opportunities.

The meeting was supported by the Commission on Geoinformation and Visualization of the German Cartographic Society and the State Enterprise Geoinformation and Surveying of the Free and Hanseatic City of Hamburg. ESRI Germany and the German GI network GiN e.V. kindly sponsored the workshop.

Jason Dykes | Co-Chair | ICA Commission on GeoVisualization | *UK*

History of Cartography

www.stub.unibe.ch/ica-chc/

Meeting in Copenhagen, Denmark

The ICA Commission on the History of Cartography will meet in Copenhagen on 12 July 2009. The meeting will occur on the day preceding the International Conference on the History of Cartography (ICHC) which will be held at the Danish National Library (the *Black Diamond*) in Copenhagen from 13 to 17 July 2009. The ICHC is organised by Imago Mundi Ltd, the non-profit organisation which publishes the prestigious periodical *Imago Mundi*.

Although the ICA Commission on the History of Cartography has no official ties with the ICHC, an *ICA Day* has since 1987 been affixed to every ICHC. In the past this day was used to discuss and promote education in the history of cartography. This year the Commission will deviate from this tradition to make the cartography of the 19th century its special

focus. The appointment of Prof Roger Kain, Montefiore Professor of Geography and Vice-Chancellor of the University of Exeter, as Editor of Volume V of the prestigious Chicago University Press History of Cartography series, was seen as a unique opportunity to use the *ICA Day* for a special meeting of both ICA Commission members and ICHC participants to pay specific attention to the mapping that was done during the 19th century.

The History of Cartography Project will eventually consist of six volumes, published in ten books. Four volumes (six books) have already been published. Many members of the ICA Commission contributed to Volume 6 of the project which dealt with the Cartography of the 20th century. Volume 5 which will deal with the 19th century is currently in the planning stage.

In Copenhagen the ICA Commission will participate in an open round-table discussion chaired by Elri Liebenberg, Chair of the ICA Commission, to discuss the objectives and provisional structure and contents of Volume 5. A distinguishing characteristic of the 19th century is the institutionalization of map making and map use with the institutions and practices of this formalized cartography becoming increasingly international, intersecting across Europe, the Pacific, the Atlantic and into traditional Asian societies. The discussion will be an opportunity for the Editor of Volume 5 and the Project Director to get a sense of the wider community's understanding of 19th century cartography.

The Commission meeting will commence at 14:00. At 16:00 the round-table discussion will be followed by a session in which the following papers will be presented:

- *19th Century Cartography: A global overview* by Elri Liebenberg
- *19th Century Cartography: The contribution of August Petermann* by Imre Josef Demhardt

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

Mapping from Satellite Imagery

mailer.fsu.edu/~xyang/ica/

EOGC2009 in Chengdu, China

The 2nd International Conference on Earth Observation for Global Changes (EOGC2009), will be held in Chengdu, China, 25-29 May 2009. This will be a joint event of the ICA Commission on Mapping from Satellite Imagery and three other international professional societies, i.e. International Society for Photogrammetry and Remote Sensing (ISPRS), International Association of Geodesy (IAG) and International Society for Digital Earth (ISDE). Prof William Cartwright, ICA President, and Dr Zhilin Li, ICA Vice President, serve in the EOGC2009 International Advisory Committee. Dr Xiaojun Yang, Chair of the ICA Commission on Mapping from Satellite Imagery, and Jonathan Li, Co-Chair, lead the EOGC2009 Scientific Committee.

EOGC2009 will provide a forum for original research contributions and practical experiences of the development and use of various Earth observation technologies and data analysis techniques for global change studies. The conference topics include the following areas:

- International Earth Observation Efforts on Global Change Studies
- Remote Sensing of Land Use and Land Cover Change (LULCC)
- Remote Sensing of Coastal and Marine Ecosystems
- Remote Sensing of Snow and Ice and the Polar Environment
- Monitoring Eco-Environmental Changes in the Qinghai-Tibetan Plateau
- Applications of Remote Sensing in the Wenchuan Earthquake
- Observing Global Change by Geodetic Techniques
- Global Geodetic Observing System for Global Change Studies
- Earth Observation for Natural Hazards Monitoring and Assessment
- Global Navigation Satellite Systems for Emergency and Disaster Management
- Geospatial Data Processing and Integration for Change Detection
- Education and Training in Earth Observation Technology and Applications

In addition to regular sessions, EOGC2009 will have a student paper session; one or more awards will be presented for the best student paper from this session. The Conference sponsors will also provide funding to partially reimburse registration fees, lodging and travel of students whose papers are accepted into the student session. One of the Conference sponsors will organise a field trip to Wenchuan, the epicentre of the 2008 Sichuan earthquake.

More than 450 full papers have been received by the organisers. A selection of the papers will be published in the SPIE Proceedings of Remote Sensing of the Earth Surface Processes and in a dedicated book by the Springer. In addition, several journal special issues are being planned.

More information on this event can be found from the dedicated conference website at www.eogc2009.com.cn.

Xiaojun Yang | Chair | ICA Commission on Mapping from Satellite Imagery | USA

Marine Cartography

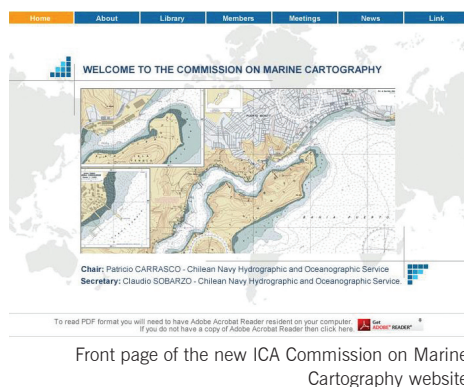
www.shoa.cl/ica/

New Commission Website

We are very pleased to inform the international cartographic community that April 2009 marks the launch of the ICA Commission on Marine Cartography website at www.shoa.cl/ica/.

The website is maintained by Patricio Carrasco, Commission Chair, and Claudio Sobarzo, Commission Secretary, both from Chile. It aims to facilitate collaboration between professionals and experts in the field of marine cartography, inform about meetings and activities of the Commission and provide links with other sites of interest related to marine mapping.

All are invited to visit the new website and share suggestions about its content, including ideas for improvement.



Front page of the new ICA Commission on Marine Cartography website

Future Plans

Taking advantage of the 24th ICC 2009 in Santiago, Chile, this November, the Commission is organising a meeting at the premises of the Hydrographic and Oceanographic Service of the Navy (SHOA) in Valparaiso, a UNESCO World Heritage Site. This meeting aims to develop future plans for the Commission and provide opportunity for networking.

Patricio Carrasco | Chair | ICA Commission on Marine Cartography | Chile

Claudio Sobarzo | Secretary | ICA Commission on Marine Cartography | Chile

National and Regional Atlases

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

Meeting in Algiers, Algeria

Invited by Monsieur Brahim Atoui and in cooperation with Algerian authorities, the ICA Commission on National and Regional Atlases (NCRA) organises a meeting in Algiers, 8-9 October 2009.

The first day will be devoted to the presentation and discussion of an Algerian national atlas project and relevant experiences from other countries. The second day will be reserved for discussions on Commission projects, primarily on the *Cookbook* and its progress.

A preliminary program will be disseminated soon to CNRA members and be accessible at the Commission website at www.univie.ac.at/cartography/karto/project/cnra/.

The meeting is open to all interested. It is still possible to propose additional papers concerning expertise and experiences in national atlas production by emailing Peter Jordan at peter.jordan@oeaw.ac.at.

Peter Jordan | Chair | ICA Commission on National and Regional Atlases | Austria

Theoretical Cartography

rcswww.urz.tu-dresden.de/~wolodt/tc-com/

Cartosemiotic Seminar in Kyiv, Ukraine

The 3rd Seminar *Cartography, Cartosemiotics and Ecological Safety* of the ICA Commission on Theoretical Cartography and the National Aviation University (NAU), Institute of Airports and Environment was held on 27 March 2009 in Kyiv, Ukraine.

It was a full day meeting with two oral sessions, organised by Alexander Wolodtschenko, Commission Chair, and O Zaporozhetc, Director of the Institute. Detailed report, including Seminar's program and abstracts, will be published in the web journal *meta-carto-semiotic*, vol 2 2009, meta-carto-semiotics.org.

Workshop in Barnaul, Russia

The ICA Commission on Theoretical Cartography and Institute for Water and Ecological Problems, Russian Academy of Science, Siberian Branch, held a Workshop *Cartography on the cross-roads* on 17 April 2009 in Barnaul. The workshop was organised by the Commission's members Irina Rotanova and Alexander Koshkarev, and Commission Chair Alexander Wolodtschenko.

At two oral session four papers were presented:



Organizers of the seminar in Barnaul; (from left) Alexander Wolodtschenko, Irina Rotanova and Alexander Koshkarev | Photography courtesy Alexander Wolodtschenko

- *Cartography at the crossroads - paradigms and paradigm shifts in modern cartography* by F Hruby (Austria)
 - *Maps in the SDIs era* by A Koshkarev (Russia)
 - *Ecological mapping: actual development stage* by I Rotanova (Russia)
 - *From graphic primitives to semiotic meta-variables* by A Wolodtschenko (Germany)
- Seven posters complemented the Workshop's programme. Abstracts of papers and posters will be published in the web journal *meta-carto-semiotic*, vol 2 2009.

Geo-Siberia 2009, Novosibirsk, Russia

During the 5th International Congress *Geo-Siberia 2009* in Novosibirsk, 20-24 April 2009, the ICA Commission on Theoretical Cartography and Department of Cartography and Geoinformatics, the Siberian State Academy of Geodesy (SSAG) held a round table entitled *Quo vadis modern cartography?*

Three short papers were presented by Alexander Wolodtschenko (Germany), and Alexander Koshkarev and Irina Rotanova (both from Russia). Afterwards, in-depth discussion followed involving Milan Konecny (Czech Republic), Erik Theile (Germany), Leonid Plastinin and Dmitry Lisitski (both from Russia), and Ammatzia Peled (Israel).



Dmitry Lisitski from SSAG, Russia, moderator of the Round Table at Geo-Siberia 2009 | Photography courtesy Alexander Wolodtschenko

Future Plans

The ICA Commission on Theoretical Cartography in cooperation with Centre for Cartography of Vilnius University and Lithuanian Cartographic Society will hold its 5th Seminar on Cartosemiotics on 6 May 2009 at Vilnius University. This event is dedicated to the 100th anniversary of the famous Lithuanian cartographer Vaclovas Chomskis (1909–1976) and sponsored by Lithuanian State Science and Studies Foundation. For more details, contact Giedre Beconyte at giedre.beconyte@gf.vu.lt or visit Seminar's website at www.kc.gf.vu.lt/VSC/VSC-2009-program.htm.

The next Commission meeting will take place in Santiago, Chile, during the ICC 2009.

Alexander Wolodtschenko | Chair | ICA Commission on Theoretical Cartography | Germany

Use and User Issues

www.univie.ac.at/icacomuse/

Recent Commission Activities

The ICA Commission on Use and User Issues has three Vice-Chairs: David Forrest (University of Glasgow), Alexander Pucher (University of Vienna) and Eric Kramers (Natural Resources Canada). Eric, who has a lot of experience with user-centred design for the Atlas of Canada Program, took over from Annu-Maaria Nivala. Together with the Commission Chair, the Vice-Chairs do a lot of 'behind the scene' work related to the Commission's activities. For certain tasks, help is provided by others; for example, the young scientists David Schobesberger (University of Vienna) and Jessica Wardlaw (University College London) took up the responsibility of moderating the dynamic online bibliography on use and user issues. This bibliography is accessible through the Commission's website www.univie.ac.at/icacomuse/ and will undoubtedly become a valuable resource for all who engage in use, user and usability research.

However, more important than 'behind the scene' work are the activities directly related to fostering and stimulating use and user research. The whole use and user issues community, consisting of some 70 people on our mailing list, is contributing to these activities. The highlights of the past 6 months are:

- Input to a Workshop on Usability of Geographic Information held on 17 March 2009 and organised by the Ordnance Survey and the University of Nottingham, UK
- Input to the *Cookbook* of the ICA Commission on National and Regional Atlases
- Our further work on the planned book publication *The Handbook for User Research in Geo-Information*. The core of this

handbook will contain standard descriptions and guidelines for the application of individual user research methods and techniques. Similar handbooks do exist, but not for our geo-domain and that is the need we want to meet.

Preceding LBS 2008, a special Commission meeting to discuss the contents of the *Handbook* was held in Salzburg, Austria on 25 November 2008.



Signpost for the ICA Commission Use and User Issues working meeting at Techno-Z in Salzburg, Austria | Photography Corné van Elzakker

Future Plans

The next Commission meeting, specifically focussing on the *Handbook* publication, will be held in Dresden, Germany on the occasion of the 1st International ICA/DGfK Symposium *True-3D in Cartography*, 24-28 August 2009. The *Handbook* publication will also be on the agenda of the Commission meeting in Santiago, Chile, during ICC 2009.

If you are interested in contributing to the *Handbook*, you are very welcome to attend the meetings in Dresden and / or Santiago. Please inform us about your intentions beforehand, so that we can provide you with the meeting details. If you cannot come to these meetings, but still want to contribute to the book publication in one way or another, you may contact us as well, of course!

We are looking forward to seeing you at one of our future meetings or hearing from you in the case you:

- have ideas for new use and user projects to be taken up
- have a suggestion related to the *Handbook* publication or want to contribute to it
- want to organize a workshop on use and user issues
- just want to be put on the Commission's mailing list

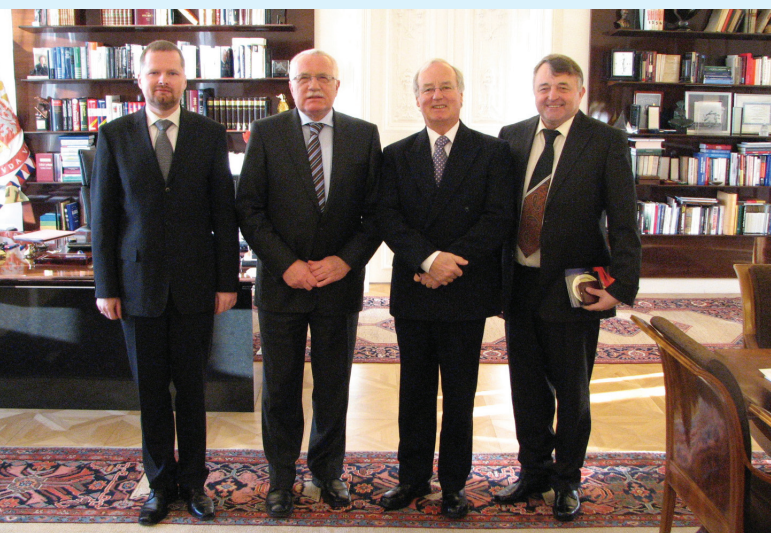
Corné van Elzakker | Chair | ICA Commission on Use and User Issues | The Netherlands

reports ica working groups

Cartography on Early Warning and Crisis Management

Symposium in Prague, Czech Republic

The Joint Symposium of the ICA Working Group on Cartography in Early Warning and Crises Management (CEWaCM) and JBGIS Geo-information for Disaster Management (Gi4DM) on *Geoinformatics for Early Warning and Emergency Management: Towards Better Solutions* was held in Hotel Diplomat in Prague, Czech Republic, on 19-22 January 2009.



Prior to the Symposium, Professor David Rhind (*centre right*), recipient of the ICA Carl Mannerfelt Gold Medal, accompanied by Professor Petr Fiala (*left*), Rector of the Masaryk University, Brno and Professor Milan Konecny (*right*), Past President of ICA, visited President of the Czech Republic Professor Vaclav Klaus (*centre left*) at the historic Prague Castle | *Photography courtesy Milan Konecny*

The Symposium was held under the auspices of the Czech Presidency of the European Council. It was organised in close cooperation with the Joint Research Centrum in Ispra, Italy and EC DG Enterprise, GMES Services, and supported by several international organizations. Intergraph, ESRI and Eurosense were the main sponsors.

150 participants from 34 countries attended the Symposium's programme which included eight keynote presentations, 18 oral sessions and one poster session. The Opening Ceremony and opening sessions of each Seminar day featured keynote addresses by distinguished presenters including Orhan Altan, President of ISPRS, Wolfgang Kainz, President of Austrian Cartographic Society, Mark Reichardt, President of OGC, Sisi Zlatanova, Vice President of the Symposium and Chairman of Gi4DM of JB GIS. Other keynote presentations featured Valery Puzzolo, DG Info Society (GMES Services), Alessandro Annoni, Director of SDI department in JRC Ispra, David Rhind and two generals of the Czech Army Jiri Sedivy and Andor Sandor.

The program was organized in three parallel sessions covering four main streams:

- Frameworks and Tools
- Technologies and Infrastructures
- Citizens in Early Warning and Emergency Management
- Cartographic and Geoinformatics Applications

Gottfried and Milan Konecny lead a round table discussion on *Spatially Enabled Early Warning and Emergency Management* which was attended by outstanding international specialists and researchers. The meeting in Prague served as a venue for other important gatherings such as the meetings of Gi4DM, ICA Commissions on Cartography and Children and on Education and Training, and the ICA WG on CEWaCM. The Czech National Round of the Barbara Petchenik Children's Map Competition featured prominently at the Symposium.

Participants of the Symposium came up with a proposal for so called *Prague Declaration* which highlights several issues, such as: acknowledging the need for further developments in cartography and geoinformatics by politicians; formulating geospatial strategies and policies; promoting spatially enabled society; and building trust in the use of technology.

All accepted papers were reviewed independently and published in the CD-Rom based Symposium Proceedings edited by Milan Konecny, Sisi Zlatanova, Temenoujka Bandrova and Lucie Friedmannova.

Future Plans

The next WG meeting will be held at EU-China Seminar on Early Warning and Emergency Management in Beijing, 13-14 May 2009. The CEWaCM will also meet at the 24th ICC in Santiago, Chile in November 2009.

Milan Konecny | Chair | ICA Working Group on Cartography on Early Warning and Crisis Management | *Czech Republic*

GIS and Sustainable Development

InterCarto-InterGIS 14 Conference in Seratov, Russia and Urumqi, China

Recently, the International Cartographic Association is advocating the idea of regional cartographic conferences. InterCarto is an inter-continental regional cartographic conference for Eurasia and certainly an example of successful conference series. It has its equivalent in North America in the AutoCarto Research Symposia and in Europe by the name of EuroCarto series.

The last edition of InterCarto-InterGIS 14 Conference was held at two locations, in Saratov, Russia between 24-26 June 2008, and Urumqi, China between 29 June - 1 July 2008. The theme of the Conference was *Sustainable Development of Territories: GIS Theory and Practice*.

The Conference was jointly organized by the ICA Working Group on GIS and Sustainable Development chaired by Professor Vladimir Tikunov, Federal Service of Geodesy and Cartography of Russia, M.V. Lomonosov Moscow State University, Saratov State University, Xinjiang Institute of Ecology and Geography of Chinese Academy of Sciences, Xinjiang Remote Sensing Center, Xinjiang Bureau of Surveying and Mapping, Xinjiang University and Xinjiang Association of Remote Sensing Applications.

I attended the second part of the conference held in Urumqi, China and delivered a speech on behalf of the ICA. I expressed thanks to the organisers of the Conference for their hard work, to sponsors for their support, and to all attendees for their active participation in the ICA activities. At the end, I reminded everyone about the 24th International Cartographic Conference to be held at Santiago, Chile, between 15-21 November 2009.

Zhilin Li | Vice President | *ICA*

Conference participants at the Urumqi, China edition of the InterCarto-InterGIS 14 | *Photography courtesy Zhilin Li*



reports cartographic meetings and events

6th Seminar on Cartography and GIS

The Seminar on Cartography and GIS (formerly The Seminar on Cartography) is a conference series jointly organised by the Commissions on Cartography of three Chinese sister societies, i.e. Geography, Geology, and Surveying and Mapping. The purpose of these seminars is to enhance interaction between cartographic researchers and professionals in different disciplines.

The 6th Seminar on Cartography and GIS was held in Xinjiang University, Urumqi, between 19-21 September 2008. The theme was *Modern Cartography and GIS: Innovation, Services and Harmonic Development*. Professor Wang Jiayao, Academician of Chinese Academy of Engineering chaired the Organising Committee.



Participants and the Committee of the 6th Seminar on Cartography and GIS, Urumqi, China | *Photography courtesy Zhilin Li*

I was invited to participate in the event. I delivered a congratulating speech on behalf of the ICA and a keynote address.

Zhilin Li | Vice President | ICA

100th Anniversary of Swedish Cartographic Society

The Swedish Cartographic Society was established 100 years ago in 1908. The Society has now some 2,200 members, it operates in five sections and organises a large conference each year attended by some 1,000 participants. The Swedish Association for Land Engineers was also celebrating its 100th anniversary last year and the Swedish Geological Survey (SGU) its 150 years since establishment. In order to celebrate these occasions, 2008 was declared as the *Map Year*.

The main activity during the *Map Year* was the creation of a set of eleven short TV-programmes to be screened by the Swedish Television. The production was financed by an idealistic organisation specialising in geograph-



Jack Dangermond (second left) with ESRI Sweden staff and their partners, and Bengt Rystedt (right) | *Photography Lars Palm*

ic information and prominent governmental agencies representing geographic information sector. Lantmäteriet (the National Land Survey of Sweden) was the biggest supporter. The films focus on how cartography and geographic information is used rather than on the map production process.

Another national initiative associated with the *Map Year* was the organisation of local exhibitions. Lantmäteriet and the SGU produced four copies of a moveable exhibition, which was then sent around to most Swedish cities and towns. As an example, my closest city Helsingborg organised a series of five presentations and map exhibitions at the city engineering office, the city archive and the library. The last exhibition was placed at the Swedish Government office. Eventually, 64 organisations hosted the exhibition around the country.

The 100th anniversary of the Swedish Cartographic Society was organised in Stockholm on 13-14 November 2008. We started with a seminar entitled *Cartography of*

Jonas Andreasson and Stina Münsing at the exhibition stand during the GIS-day at Lund University | *Photography Bengt Rystedt*



William Cartwright, President of ICA (left), Jack Dangermond, ESRI (centre) and Peter Wasström, President of the Swedish Cartographic Society at the award ceremony | *Photography Lars Palm*

the Past, Present and Tomorrow. In the evening the celebrations moved to the Stockholm City Hall. The main address was given by Professor Ulf Spörng followed by award and prize giving ceremony.

The Map Year Prize was given to Eniro and Hitta, two Swedish companies that use maps and addresses in their web applications for connecting people and companies. They have now some 2.5 million visitors per week each. The Jubilee Prize was awarded to Jack Dangermond, the founder and owner of ESRI, for his contribution to support the use of cartography and geographic information not only in Sweden but also world-wide.

After the award ceremony we went upstairs to the Golden Hall for a superb dinner served in the same manner as the Nobel Prize dinners.

Bengt Rystedt | Swedish Cartographic Society | Sweden

ICA Symposium on Cartography for Central and Eastern Europe



ICA Symposium on Cartography
for Central and Eastern Europe
Vienna, 16–17 February 2009

The International Cartographic Association and the Vienna University of Technology organised the first ICA Symposium on Cartography for Central and Eastern Europe, which took place in Vienna, Austria, between 16–17 February 2009. Central and Eastern Europe (CEE) has a long and outstanding cartographic tradition. The Symposium's aim was to bring together cartographers, GI scientists and those working in related disciplines from CEE with the goal of offering a platform for discussion, exchange and stimulation of joint projects. About 130 scientists and professionals from 19 countries responded to the invitation and came to Vienna.

On 15 February in the afternoon, junior scientists were given a chance to present their research work in a dedicated *PhD/Master Forum*. The current situation of doctoral students in geo-sciences was covered in the subsequent discussion and the possibility for exchange of experiences among PhD students was mentioned as being very useful and valuable. William Cartwright, President of ICA, highlighted the importance of such *Forums* in an international context.

The Symposium was officially opened on 16 February by William Cartwright, Ingrid Kretschmer, Honorary President of the Austrian Geographical Society, Wolfgang Kainz, Chair of the Austrian Cartographic Commission, and



Venue: Vienna University of Technology | Photography
Clemens Pfeiffer

Hans Kaiser, Vice Rector for External Relations at Vienna University of Technology. Ferjan Ormeling gave the keynote presentation entitled *From Ortelius to OpenStreetMap – Transformation of the map into a multifunctional signpost*.

The Seminar featured 52 oral presentations during an intensive two-day program. They were characterised by the diversity and inclusiveness of speakers, and gave a very broad overview of the cartography in CEE. The presentations were grouped in the following thematic sessions:

- Topographic Mapping
- Atlas Cartography
- Cartography in ...
- Multimedia Cartography
- Education
- Cartographic Modelling
- Historical Cartography
- Cartographic Applications

Symposium opening by (from left) Ingrid Kretschmer, Hans Kaiser, William Cartwright, Wolfgang Kainz and Georg Gartner
| Photography Géza Simon



The Symposium also had a dedicated theme on education. Representatives from several CEE countries reported on activities and future plans relating to higher education in cartography in their respective countries. In addition a *Panel Discussion on Education* was held, chaired by Liqiu Meng (Germany), László Zentai, Jesus Reyes (both Hungary) and Georg Gartner (Austria). As an overall result, the strengthening of international cooperation in cartographic education has been identified as being a key factor in future developments.

Beside the oral presentations there was a poster exhibition with about 30 posters and various map showcases which created a nice environment to get in touch with colleagues during the coffee breaks and social events.

A book containing selected contributions from the event will be published in Springer's *Lecture Notes in Geoinformation and Cartography* in autumn of 2009.

More information about the symposium can be found at the following website cartography.tuwien.ac.at/cee2009/.

Georg Gartner and Felix Ortag | Organisers | ICA Symposium on Cartography for CEE | Austria

Children's Map Competition in South Africa

In South Africa participation in the Barbara Petchenik Children's World Map Competition for 2009 is organized and coordinated by the Department of Geography of UNISA (University of South Africa) in Pretoria. Until 2000 the Department was headed by Prof Elri Liebenberg who is the national coordinator of the Competition. The current chairperson, Melanie Nicolau, likewise is a map enthusiast and encourages map use in all courses offered by the Department.

Since January 2009 UNISA has been doing its utmost to encourage children under the age of 15, from all population groups and cultural backgrounds, to participate in the Barbara Petchenik Competition. Schools were visited throughout the country to liaise with teachers and children and explain the competition theme *Living in a globalized world*. National prizes such as MP3 players, mini-globes, atlases and books on the environment were also made available. Groups of children were invited on a regular basis to visit the Department where they were given the time and opportunity to draw maps. During such a visit all equipment, i.e. paper, paint, crayons, etc were provided and each child was interviewed by Melanie Nicolau, who filled in a basic questionnaire on the child's map literacy skills and his/her understanding of the global world he/she lives in.



One of the day winners receiving his prize from Melanie Nicolau (left) and Elri Liebenberg | *Photography courtesy Elri Liebenberg*

By 15 May the Department of Geography expects to have received approximately 600 maps from which the five national winners will be chosen.

Elri Liebenberg and Melanie Nicolau | Organisers
| National Children's Map Competition | South Africa

AutoCarto International Research Symposia

The AutoCarto International Research Symposia date to 1974 and continue today to be standard-bearers of transformational research in cartography and GIScience. The AutoCarto meetings are important cartographic events, well established internationally. They provide a cartographic knowledge depository that serves as an amazing resource for research, teaching, and learning. Now, that depository is available online to the entire cartographic community free of charge! Papers from all seventeen symposia can be downloaded from the CaGIS website at www.cagis.org/autocarto/, with the exception of papers that were published in the *Cartography and Geographic Information Science* journal. This is a fitting complement to the ICA International Cartographic Conference papers that were recently made available online at the ICA web site at www.icaci.org.

The early AutoCarto research symposia are singularly illustrative of the rapid evolution of cartographic research in the late 20th century. They present a wealth of timely and relevant research issues. Eventually, a path emerged leading us from data capture to data coding, structure, and communication; from spatial allocation techniques to rules for modeling spatial features and improving spatial models; from line simplification to error reduction; and from statistical properties of maps to data standardization.

Through the AutoCarto symposia, multi-disciplinary cartographic research delivered the kind of breakthroughs that enabled the develop-

ment of accurate digital terrain models and expert artificial intelligence techniques for military and civilian applications. More recently, the move to increasingly smaller computers and more sophisticated visualization techniques, coupled with the Internet, have given us Web GIS and maps for mobile devices, and other data display and transfer technologies that make us feel connected and empowered by spatial information.

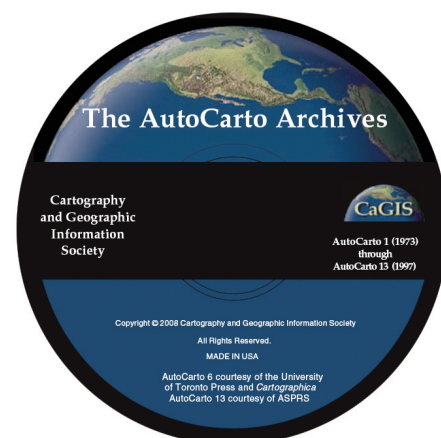
All symposia in the series have been sponsored (with three exceptions) by the Cartography and Geographic Information Society (CaGIS), the US adhering body to the ICA. In 1977, CaGIS decided to lay the AutoCarto symposium series to rest, under the assumption that it had accomplished its goal to provide a forum for researchers and scientists working at the interface of cartography and GIScience. Eight years later, the Society resurrected the research series in recognition that, with the advent of new technologies, cartography and GIScience continue to change and new research is needed on how to develop maps, geospatial data, and geographic databases for the 21st century.



AutoCarto continues to bring together from around the world cartographers, geographers, geospatial analysts, GIScientists, and others conducting research on the cutting edge of the geospatial sciences. Already, preparations are under way for the 18th in the series, *AutoCarto 2010: Geospatial Data and Geovisualization for the Environment, Security, and Society*. The meeting will take place on 15-19 November 2010 in Orlando, Florida, USA.

The association between ICA and AutoCarto reaches back decades; in recent years, the role of the ICA in AutoCarto has increased. At AutoCarto 2008 in Shepardstown, West Virginia, USA, Past President Milan Konecny delivered a welcome speech on behalf of the ICA. ICA Auditor, Hal Moellering, who has long attended the meetings, was also in attendance. Two ICA Vice Presidents, Tim Trainor and Georg Gartner, together with a number of members of ICA Commissions, authored papers presented there. The US National Committee to ICA held its meeting in conjunction with AutoCarto 2008, as did three ICA Commissions/Working Groups. Certainly, part of the success of AutoCarto can be attributed to the synergistic relationship that the symposium series enjoys with the ICA through involvement such as this!

All ICA Commissions are invited to participate in the upcoming symposium. The 2010 meeting will be held in conjunction with the American Society for Photogrammetry and Remote Sensing and the International Society for Photogrammetry and the Remote Sensing's Commission IV: Geodatabases and Digital Mapping. Additionally, the International



Proceeding articles from AutoCarto 1 through 13 are now available online from www.cartogis.org/autocarto/ | *Image courtesy CaGIS*

Geographical Union's C08.12 Commission on Geographical Information Science will meet in conjunction with AutoCarto 2010. ICA participation would be the capstone to the event, making it a truly international experience for all with the promise of great opportunities for discourse and learning. Please contact CaGIS at cagis@acsm.net to let us help organize your next commission meeting at AutoCarto 2010.

Ilse Genovese and Aileen Buckley | Cartography and Geographic Information Society | USA

Ocartografo.com



In order to create a discussion group to exchange information and experiences related to the cartographic programmes at the São Paulo State University of Science and Technology (UNESP), Presidente Prudente, São Paulo, Brazil, an idea of an online forum has been proposed. In response to this initiative I created an online forum dedicated to cartography in March 2009.

Its primary goal is to help all cartographers to engage in the world of cartography. The original web address change from turmaxxxi.livreforum.com, which referred to the XXXI Group of Cartographic Engineering of UNESP, to Ocartografo.com to make it easier to memorise. When I realised that the online community of users was growing, I invited other professionals to join and help in promoting cartographic engineering. Now, the forum accommodates both professionals and students of cartography who discuss national and international events, share news about cartographic software and exchange experiences relating to learning and professional practice. The forum also lists job vacancies that are available throughout the country.



São Paulo State University of Science and Technology (UNESP), Presidente Prudente, São Paulo, Brazil | Photography Pedro Maciel de Sousa Pinto

[...] Besides the convenience of access to knowledge and discuss cartography, the community can post your doubts. The forum brings information to the public relating to cartography.

José Milton Arana | Professor of Geosciences | Cartographic Engineering Programme | UNESP

From the beginning I have received the support and encouragement of the Brazilian Association of Cartography, São Paulo (ABEC/SP). I would like to thank Edmilson Volpi, Cartographer who has helped me with promotion and dissemination of the forum. Special thanks to Professor William Cartwright, President of ICA, and Igor Drecki, Editor of ICA News, who made the publication of this article possible. I thank my professors and fellow students of the XXXI Group of Cartographic Engineering, São Paulo State University of Science and Technology of Presidente Prudente, for their help and encouragement in creation of the forum. Currently, Ocartografo.com has approximately 100 users and the number is still growing.



Pedro Maciel de Sousa Pinto | Graduate Student | São Paulo State University of Science and Technology | Brazil

CaGIS Journal: Five Special Focus Issues

As one of the three official journals of the ICA, *Cartography and Geographic Information Science (CaGIS)* regularly publishes research articles about one specific topic considered to be of particular relevance to the cartography and GIS communities. A total of 30 such Special Focus Issues have appeared since the journal's inception in April 1974. *CaGIS* plans to publish an additional five Special Focus

Issues by July 2011. These issues will cover such diverse topics as *Geospatial Visual Analytics*, *Mapping Hazards and Disasters*, and *Mapping the Census*. Selected articles from the *AutoCarto 2010* Research Symposium and the *US National Report to the ICC2011* will round out this rostrum of special issues.

The Special Focus Issue on *Geospatial Visual Analytics*, guest-edited by Gennady Andrienko, Chair of the ICA Commission on GeoVisualization, will appear in the July 2009 *CaGIS* issue. Geospatial visual analytics extends geovisualisation research by enhancing purely visual and interactive methods with new possibilities provided by computational techniques such as data mining, statistics, and optimization. Potential enhancements also come from developing methods to support analytical reasoning, argumentation, knowledge building, and knowledge communication. Five research articles have been selected for publication in this special issue. Together, they offer an excellent cross-section of the frontier research problems in geospatial visual analytics.

The January 2010 issue of *CaGIS* will be devoted to *Mapping Hazards and Disasters*, guest-edited by Jacqueline Mills. This issue will target manuscripts that address two pervasive research gaps in mapping related to hazards and disasters: scale and time-frame. In addition to these two foci, papers that address approaches for dealing with the collection and display of disaster-related ephemeral and

dynamic data, as well as mechanisms for disseminating the resulting spatial data to policy-makers and to the public will be considered.

The Special Focus Issue *Mapping the Census*, guest-edited by Ningchuan Xiao and Kevin Hawley, will be published in July 2010. This issue will address fundamental challenges that cannot be overlooked, especially as we approach a new round of censuses in many countries. Manuscripts for this issue are being accepted until 23 November 2009. The authors invite submissions that focus on census data from such perspectives as cartography, visualization, spatial analysis and modeling, population and urban studies, geostatistics, and uncertainty. Please contact the guest editors Ningchuan Xiao at xiao.37@osu.edu or Kevin Hawley at kevin.j.hawley@census.gov for further information.

The *AutoCarto 2010* papers will be guest-edited by Lynn Utery and published in April 2011. The *US National Report to the ICC2011* will be guest-edited by Robert Edsall and published in July 2011. Solicitations for both special issues will soon be distributed through the various list servers. People interested in guest editing a future Special Focus Issue should contact Michael Leitner, the editor of *CaGIS* at mleitne@lsu.edu.

Michael Leitner | Editor | *CaGIS* | USA

CaGIS Journal back issues are now available online, free to *CaGIS* members | Image courtesy *CaGIS*

CaGIS back issues are now available online from www.ingentaconnect.com/content/acsm/cagis/

calendar

june 2009

29-05 July: **InterCarto 15** | Perm / Gent | Russia / Belgium | www.intercartogis.org

july

12: ICA Commission on the History of Cartography Meeting | *Cartography in the Nineteenth Century: Concepts and Challenges* | Copenhagen | Denmark | www.ichc2009.dk/ica.htm

august

06-07: 3rd ICA Workshop on Geospatial Analysis and Modelling | Gävle | Sweden | www.fromto.itb.hig.se/~bjg/ica/workshop2009/
11-23: ICA Summer School | Bishkek / Kashgar | Kyrgyzstan / China | 159.226.132.203/ica_ss2009/
18-20: Map Asia 2009 | Singapore | Singapore | www.mapasia.org
24-28: 1st International Conference on 3D Maps | *True-3D in Cartography* | Dresden | Germany | kartographie.geo.tu-dresden.de/true3Dincartography09/

september

07-09: The Society of Cartographers Annual Summer School | Southampton | UK | www.soc.org.uk/southampton09/

october

08-09: Meeting of the ICA Commission on National and Regional Atlases | Algiers | Algeria | www.univie.ac.at/cartography/karto/project/cnra/

november 2009

05-06: 18th International Symposium | *Modern Technologies, Education and Professional Practice in Geodesy and Related Fields* | Sofia | Bulgaria | geodesy.fnts-bg.org
15-21: 24th International Cartographic Conference | *The World's Geo-spatial Solutions* | Santiago | Chile | www.icc2009.cl

september 2010

01-05: 7th ICA Mountain Cartography Workshop | *Mountain Mapping and Geospatial Information Retrieval* | Borsa | Romania | www.mountaincartography.org/activities/workshops/
13-14: ICA Commission on Generalisation and Multiple Representation Workshop | *Geographic Information on Demand* | Zurich | Switzerland | ica.ign.fr/2010_Zurich/workshop.php

november 2010

05-06: 18th AutoCarto 2010 | Orlando, Florida | USA | www.cartogis.org/autocarto/

ica affiliate members

Organisations, institutions or companies wishing to support the mission and activities of the International Cartographic Association can become affiliate members. The following organisations support the ICA:

Bundesamt für Kartographie und Geodäsie | Germany | www.bkg.bund.de
Attn: Prof Dr D Grünreich, Director | dietmar.gruenreich@bkg.bund.de

Centro Argentino de Cartografía | Argentina | www.elagrimensor.com.ar/centrodecartografia
Attn: Prof Carmen Alicia Rey, President | centro.de.cartografia@gmail.com

Centro Cartográfica y Fotográfico (CEFAF) | Spain | www.ejercitodelaire.mde.ed
amatmil@ea.mde.es

Dubai Municipality | United Arab Emirates | www.dm.gov.ae

East View Cartographic | United States of America | www.cartographic.com
Attn: Matthew Tanaka | matthew.tanaka@cartographic.com

Eko-Graf Cartographic Publishing House | Poland | www.ekograf.pl

ESRI | United States of America | www.esri.com
Attn: Mark Cygan | mcyan@esri.com

Geographical Survey Institute | Japan | www.gsi.go.jp
sawa@gsi.go.jp

Indian National Cartographic Association (INCA) | India | www.incaindia.org
Attn: Shri KC Rout, Secretary General | routkc@yahoo.com

Institut Cartografic de Catalunya | Spain | www.icc.es
Attn: Jaume Miranda i Canals, Director | miranda@icc.es

Institut Géographique National | France | www.ign.fr
Attn: Mr Jean-Philippe Lagrange, Director | jean-philippe.lagrange@ign.fr

Instituto Geográfico Nacional España | Spain | www.ign.es
Attn: Sebastian Mas Mayoral | smas@mfom.es

Intergraph Corporation: Security, Government and Infrastructure | United States of America | www.intergraph.com
Attn: Vince Smith | vince.smith@intergraph.com

International Institute for Geo-Information Science and Earth Observation (ITC) | The Netherlands | www.itc.nl
Attn: Corné van Elzakker | elzakker@itc.nl

Moscow State University of Geodesy and Cartography | Russia | www.miigaik.ru
Attn: Professor Vasily A Malinnikov, Rector | lgm@miigaik.ru

National Hydrographic Office | India | www.hydrobharat.nic.in
Attn: BR Rao, Chief Hydrographer | inho@dataone.in

Navionics Spa | Italy | www.navionics.com
Attn: Francesco Pezzana, Managing Director | pezzana@navionics.it

Navteq | The Netherlands | www.navteq.com
Attn: Dr Kees Wevers | kees.wevers@navteq.com

Ordnance Survey | United Kingdom | www.ordnancesurvey.co.uk
Attn: Bob Lilley | blilley@ordnancesurvey.co.uk

Polskie Przedsiębiorstwo Wydawnictw Kartograficznych | Poland | www.ppwk.pl
Attn: Dr Beata Konopska | b.konopska@ppwk.pl

Rectas | Nigeria | www.rectas.org
Attn: Dr Olajide Kufoniyi, Executive Director | rectas@oauife.edu.ng or kufoniyi@skannet.com.ng

Regional Centre for Mapping of Resources for Development (RCMRD) | Kenya | www.rcmrd.org
Attn: Dr Hussein O Farah, Director General | rcmrd@rcmrd.org

Star Informatic Publishing Solutions | Belgium | www.star.be
Attn: Paul Duré, Head | paul.dure@star.be

Union of Chambers of Turkish Engineers and Architects, Chamber of Surveying and Cadastre Engineers (UCTEA-CSCE) | Turkey | www.hkmo.org.tr
Attn: Prof Dr Necla Ulugtekin, Head of the Commission on Cartography and Geospatial Informatics | hkmo@hkmo.org.tr

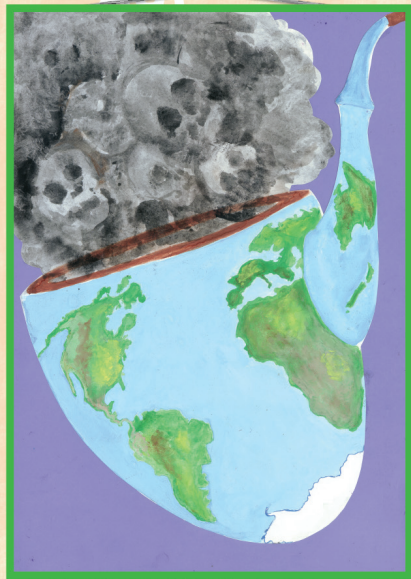
University of Architecture, Civil Engineering and Geodesy, Faculty of Geodesy | Bulgaria | www.uacg.bg
Attn: Dr Temenoujka Bandrova | bandrova_fgs@uacg.bg

University of Balamand | Lebanon | www.balamand.edu.lb/english/GIS.asp
Attn: Prof Oussama Jadayel, GIS Center Academic Director | info@balamand.edu.lb

ICA welcomes new affiliate members; for more information, please contact:

David Fairbairn | Secretary General & Treasurer | ICA | dave.fairbairn@newcastle.ac.uk

children's map gallery 1993 winners



Horváth Ágnes | 15 | *No Smoking* | - | Hungary

Yui Seito | 13 | *Green Land* | - | Japan

R.M. Sisara Samanmali Ratnayake | 15 | *Head, Ship, Tree* | St. Anthony's Balika Maha Vidyalaya: Kandy | Sri Lanka

Taiga Marthens | 11 | *The Horse Population of the World* | Sussex School: Missoula, Montana | USA

André Nguyen Machiaverni | 11 | *Standing Up the World* | Collégio Miguel de Cervantes: San Paulo | Brazil

