



president's report



Dear Colleagues

This report provides a snapshot of my activities on behalf of the ICA during 2008. It is an abbreviated form of the document that I prepared for the ICA Executive Committee

meeting that took place in Santiago, Chile in November this year. At that meeting, as well as covering matters related to the ICA *per se*, it also provided the opportunity to meet with the ICC2009 Conference Local Organising Committee, led by Col Rodrigo Barriga Vargas.

Meetings at the AAG Conference, April 16-19

The Association of American Geographers (AAG) holds its conference annually. For 2008 the venue was Boston. Its program includes sessions organised by the Cartography

Speciality Group and the GIScience Speciality Group. I attended the Annual Business Meeting of the Cartography Speciality Group of the AAG. This is their annual meeting to report on completed activities and to discuss future events.

6th Taipei International Digital Earth Symposium (TIDES 2008), May 14-18

The Symposium took place in Taipei, Taiwan and was jointly organised by the Republic of China's *Academica Sinica*, the Ministry of the Interior, the National Applied Research Laboratories and the Chinese Culture University. It is held annually at the Chinese Culture University. The Symposium has as its purpose to illustrate how Digital Earth technology and associated data can be best used to support endeavours related to environmental sustainability. The Symposium comprised of keynote papers, technical presentations and a number of speciality meetings.

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news children's map award 2009

The next competition for the Barbara Petchenik Awards will be held in Santiago de Chile, 15–21 November 2009. The Barbara Petchenik Award was created by the International Cartographic Association in 1993 as a memorial for Barbara Petchenik, a past Vice President of the ICA and cartographer who worked through her professional life with maps related to children. The aim of the contest is to promote the creative representations of the world in graphic form by children, to enhance their cartographic awareness and to make them conscious of their environment.

The awards are given every two years during an ICA conference or an ICA general assembly, preferably at least one for each continent, with special consideration to the age of the child producing the drawing. The awarded drawings can be submitted to international organizations (UNICEF or other) for consideration as greeting cards or other publication. Participating nations are encouraged to report on the ways they have used for collecting drawings (video report, etc.) and to collect and archive maps for further research.

Children that participate send in a world map they have drawn. They must be under 16 years of age. Prior to sending in the material to the ICA, a local contest coordinator has to be selected by your national ICA committee to run the contest in your country.

The general rules and guidelines for the Barbara Petchenik competition can be found on page 4 and at the ICA website (www.icaci.org). The theme for the 2009 competition is *Living in a globalized world*. The prize winners of the competition will have their entries incorporated on the children.library.carleton.ca website and offered to UNICEF as greeting cards; 8-10 prizes of US\$ 50 each will be offered to the winners as well.

The main purpose of this announcement is to invite the children in your country to participate (again) in this contest, and to nominate a coordinator who will run the contest in your country. We intend to send her or him a copy of the rules of the 2009 competition. As the entries in the contest have to be sent in before 1 June 2009, the names of the national coordinators should be made known to the Secretary General of the ICA as soon as possible.

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Dresden, Germany, host city of the ICC 2013 |
Photography Marc Friede, Dresden IN SICHT



The act of creating a map is something that I cherish a lot as a cartographer... It gives me enormous pleasure and satisfaction to start with a blank piece of paper and finish with a well designed, functional and aesthetically pleasing map. The process of combining graphic variables, colour theory, white spaces, figure-ground, typography, the type of output media with years of experience of what works and what doesn't in cartographic design provides excitement and often considerable challenge. This challenge can only be appropriately dealt with if we are equipped with the right talents, creative minds and passion.

For me, every new mapping project is like discovering the beauty of cartography from scratch, reassuring me that I am in the right profession and providing opportunity to apply my creative talents and serve others through my cartographic work... It is also like thanksgiving for the gift of creativity, because creativity is not something that can be learned at a university or through in-house training; it can only be discovered and nourished, worked on and perfected, multiplied and freely given out. It is at the heart of cartography, our discipline that so elegantly and ingeniously mixes art with science...

We sometimes forget that we cannot take the gift of creativity for granted or simply ignore it; it requires our constant attention, care and development. Only then we are truly responding to our call as a cartographer.

Your response to the call for contributions to this edition of ICA News was truly overwhelming. I had to increase the number of pages to 20 and still couldn't fit everything in! I am very grateful for your continuous support of the newsletter and hope that you find this issue interesting and valuable. There is a mix of commission and working group reports, conference announcements, children's map competition rules for 2009, reports from various cartographic events and a look into our president's busy schedule.

As always, I am looking forward to working with you in the future.

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...

I presented a keynote paper, participated in a panel session on the *Prospects of Cartography Technology Based on the National Land Surveying and Mapping Act* and was one of the discussants in a Digital Earth Forum. The keynote paper was *Web 2.0, APIs and Mash-ups: Issues for cartography in the age of Google maps*.

ISPRS General Assembly, July 3

Secretary General David Fairbairn and I attended the ISPRS General Assembly in Beijing, China at the invitation of ISPRS President, Professor Ian Dowman. As well, I was part of a Joint Boards delegation that met with the First Vice Premier of China.

At the General Assembly colleague Professor Ammatzia Peled of Israel was elected Second Vice-President of ISPRS. Many ICA colleagues will be aware of the work that Ammatzia has undertaken in the past on behalf of ICA.

Meeting with ICC2009 LOC Members, July 3

Secretary General David Fairbairn and I met with the members of the ICC2009 LOC, led by Col Rodrigo Barriga Vargas, President of the Local Organizing Committee, who were in Beijing promoting the ICC2009 conference and viewing the ISPRS conference operations.

Meeting with the JBGIS, July 4

Secretary General David Fairbairn and I attended the JBGIS meeting held in Beijing, China in conjunction with the ISPRS conference. A number of issues were discussed, including future collaboration. The ICA's Mapping Africa for Africa Commission was explained.

The meeting agreed that an *ad-hoc* Committee on Risk and Disaster Management should proceed. Immediate Past President Milan Konecny represents the ICA on this Committee.

Presentation of the Mannerfelt Medal to Jack Dangermond, August 3-8

Immediate Past President Milan Konecny and I presented Jack Dangermond with the Carl Mannerfelt Gold Medal during the ESRI conference in San Diego, USA [for full citation, please refer to the ICA News No 49, December 2007, p5 - ed]. It was a well-attended event, with ICA-affiliated people and ESRI staff who are associated with Cartography developments. The ICA group were Milan Konecny, Tim Trainor, Hal Moellering, Rob McMaster and me. Also there were David Danko (a Standards Commission member and ESRI employee) Cindy Brewer, Aileen Buckley and Max Baber (representing CaGIS). As well, Roger Tomlinson was also there. Ken Field, *The Cartographic Journal* editor also attended. Jack was very moved by the award and accepted it on behalf of all of ESRI.

With regard to the medal award I would like to note the great assistance ICA had from ESRI staff Mark Cygan and Jim Henderson in organising the medal presentation ceremony.

Meeting with IMTA Executive Members, August 3-8

Immediate Past President Milan Konecny and I met with Mark Cygan, Peter Jolly and Sandy Hill (Executive Director of IMTA) in San Diego, USA. We discussed future collaboration between ICA and IMTA.

MapAsia 2008, August 19-21

MapAsia 2008 was held in Kuala Lumpur, Malaysia. It is organised by the company GIS Development. The conference was a joint conference/technical exposition for the geospatial sciences in Asia. The conference provided the opportunity to ascertain the general status of the industry in Asia and to make contacts with both professionals and academics in the region. I presented a > 03

Award ceremony for the presentation of the ICA Carl Mannerfelt Gold Medal to Jack Dangermond of ESRI; (from left) Hal Moellering, Tim Trainor, William Cartwright, Jack Dangermond, Milan Konecny, Cindy Brewer and Rob McMaster | Photography by ESRI



president's report cont...

keynote paper and participated in a panel session on the *Education provision in the Asian Region*. The keynote paper addressed how cartography has changed with the advent of Web 2.0. As well as the formal presentation I was able to meet with GIS Development Chief Executive Officer Sanjay Kumar and discuss further collaboration between ICA and GIS Development.

500th Anniversary Function of the Montalbodo-Francan Map of Africa, August 24

The Montalbodo-Francan Map of Africa has been recently uncovered at the British Library. This is thought to be the oldest printed map that shows Africa as one continent, rather than being depicted as part of a world map. The map was first printed in Milan in 1508 in a book edited or compiled by the Italian monk Fraanzano Momtalbodo. Professor Elri Liebenberg, Chair of the ICA Commission on the History of Cartography, discovered this map whilst undertaking research. To mark the quincentenary of the publication of the map the Chief Directorate, Surveys and Mapping, Department of Land Affairs, South Africa held a commemorative function in Cape Town. This was organized and hosted by ICA Vice President Dr Derek Clarke. I was asked to speak at the function in my role as President of the International Cartographic Association and I presented the Director of Land Affairs with a reproduction of the map on behalf of our South African colleagues.

MapAfrica 2008, August 25-26

The *MapAfrica 2008* conference held in Cape Town, South Africa was organised along the same lines as the *MapAsia 2008* conference. I again presented a keynote paper on global activities that are associated with advancing Cartography and GIScience. As well, the paper addressed the methodologies that might be employed for technology transfer and capacity building in developing countries. As well, Vice President Derek Clarke and I presented a joint paper entitled *The International Cartographic Association and its activities supporting information and technology transfer*. The paper is available via the GIS Development web site gisdevelopment.net/proceedings/mapafrica/2008/maf08_CartwrightClarke.pdf.

Joint meeting of the UNECA CODIST-Geo Working Group on Fundamental Datasets and the ICA WG on Mapping Africa for Africa, August 27

This meeting is held annually to report on the progress of the UNECA CODIST-Geo Working Group on Fundamental Datasets. The meeting was held jointly with the International Cartographic Association Working Group on Mapping Africa for Africa. This was organized in Cape

Town and hosted by ICA Vice President Dr Derek Clarke.

GeoCart'2008 Conference, September 1-3

I presented a paper about ICA activities as well as a technical paper at the National Cartographic Conference organised in Auckland by the New Zealand Cartographic Society. Also, I made another presentation about the ICC2009 conference in Chile. On the second day I was invited, as a guest of honour, to the Society's biennial general meeting where I made an introductory address on behalf of the ICA.



Presentation by William Cartwright at the GeoCart'2008 Conference | *Photography Piotr Martynski*

Japanese Cartographic Association Conference, October 11-12

I attended the Japanese Cartographic Association conference in Kitakyushu and made a keynote presentation. Former ICA Vice President and Chair of the ICA Commission on Ubiquitous Cartography Takashi Morita organised for me to present.

Meeting with IMTA Board, November 1

I met with the International Map Trade Association Board (IMTA) at the IMTA Asia-Pacific Regional conference, which was held in Hobart, Australia. As the Board were meeting in Australia, I took the opportunity to meet with them to discuss future collaboration. At the meeting were IMTA President Karen Davis (USA), Director Peter Lennon (Australia), Executive Director Sanford J. Hill (USA), Mark Cygan (USA) and President Elect Keith Ferries (UK). (After the IMTA Annual General Meeting, which took place the day after our meeting, Keith Ferries took-over the role as President). The Board confirmed their interest in collaborating closer with ICA.

Swedish Cartographic Association 100th Anniversary, November 13

I represented the ICA at the Swedish Cartographic Association 100th Anniversary meeting and dinner.

William Cartwright | President | ICA

cee symposium



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

ICA Symposium on Cartography for Central and Eastern Europe

The International Cartographic Association and the Vienna University of Technology are pleased to announce the first ICA Symposium on Cartography for Central and Eastern Europe. This region has a long and outstanding tradition in cartography. We aim to bring together cartographers, GI scientists and those working in related disciplines from Central and Eastern Europe (CEE) with the goal of offering a stimulating environment for discussion and information exchange about interesting research projects, initiatives and achievements. The symposium is planned for 16-17 February 2009 at Vienna University of Technology, Austria.

Currently there are about 80 contributions from 20 different countries planned for this 2-day event. The following themes will be covered by a mixture of oral and poster presentations:

- topographic mapping
- atlas cartography
- cartographic application
- cartographic modelling
- historical cartography
- multimedia cartography

The Symposium aims to create a unique opportunity for CEE contributors to present their current research, share ideas and create new professional and academic networks.

The programme features several dedicated sessions including:

- cartographic education, to discuss issues of collaborating on joined cartographic academic education in CEE
- a PhD/Masters Forum, to give junior scientists the chance to present their work as a poster
- a Cartographic Showcase, where participants will be able to explore maps and cartographic products recently produced in the CEE

Registration is open until 9 February 2009. For more information, please visit the official CEE Symposium website at cartography.tuwien.ac.at/cee2009/.

Georg Gartner | Organizer | ICA Symposium on Cartography for CEE | Austria

President

William Cartwright | RMIT University | Australia

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Pablo Gran | Instituto Geografico Militar | Chile

Menno-Jan Kraak | ITC | The Netherlands

Zhilin Li | Hong Kong Polytechnic University | China

Anne Ruas | Institut Géographique National | France

Timothy Trainor | US Census Bureau | USA

Past President

Milan Konecny | Masaryk University | Czech Republic

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ica news contributions

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Submission Deadlines

15 May for June edition

15 November for December edition

General Rules of the Competition

ICA member nations will collect maps, on the theme *Living in a globalized world*, produced by children under 16 years of age. This is the theme for the Barbara Petchenik Children's World Map Competition for the next two conferences (2009 and 2011). Entries from other nations, who are not members of the ICA, cannot be accepted, will not be displayed nor returned.

- The entries will be collected in three age groups:
 - under 9 years
 - 9-12 years
 - above 12 years
- The international judging will focus on three criteria, i.e. a recognizable message, cartographic content and the quality of execution. In other words, judges will be looking for:
 - 1 a recognizable connection between the form, shape, and use of cartographic elements which creatively address the Competition's theme
 - 2 a recognizable image of all or a large portion of the world in which the shapes and relative locations of land masses and oceans are as correct as can reasonably be expected for the child's age and within the context of the "system of projection" used
 - 3 appropriate cartographic elements such as symbols, colors, names and labels, etc., which help address the Competition's theme:
 - clarity and legibility of the point, line and area symbols appropriate to the media of expression, whether on paper or other surfaces, whether drawn or made up of indigenous materials
 - expressive rendering and appropriate use of the perceptual dimensions of color, i.e., changes in value for quantitative distinctions and changes in hue for qualitative distinctions
 - overall aesthetic quality in such matters as balance and harmony among the image elements
- The maximum size of a map must not exceed A3 (420 mm x 297 mm or 17 x 11 inches) and its surface should be flat; the map can be made using any material, but pasted-on objects may not be higher than 5 mm or 0.2 inch.
- Any number of "systems of projection" can be used to generate the coastlines and other base material (e.g., international boundaries and graticule). The entry should be an original piece of work and it can be made using traditional methods (colour pencils, water colour, etc) or a computer program.
- Each map must have the following information on a label attached to the back side of the representation: the name, age, school or personal address and country of its author, photo of the child (if available) and the title in either French or English (the ICA's official languages). If the entry is individual (not sent by a school) the author's legal representatives (e.g. parents) will decide to make or not public their personal address. If the representatives do not agree to make it public, the official address of the ICA National Commission will be used for future contacts.
- The winning entries will be submitted to international organizations (UNICEF International Art Committee or others) by the ICA Executive for consideration as greeting card designs or other kind of publication that might best showcase the maps created for the Competition. ICA may use them as well. Any participant must agree that his/her representation may be reproduced by the ICA or UNICEF or scanned for publication on the Internet by Carleton University (on behalf of the ICA) without consultation or copyright fees.
- Competition maps will be archived in the Archives and Research Collections at Carleton University Library and will be available for public viewing on the Library's website at children.library.carleton.ca.

National Coordinator's Guidelines for Handling the Competition

- Each ICA national member will nominate a coordinator to run the contest in his/her country.
- The name of the coordinator must be received by the International Coordinator at least one year prior to the submission date of map entries. ICA member countries where no national coordinator is identified may participate provided that the ICA Executive receives the name of a country

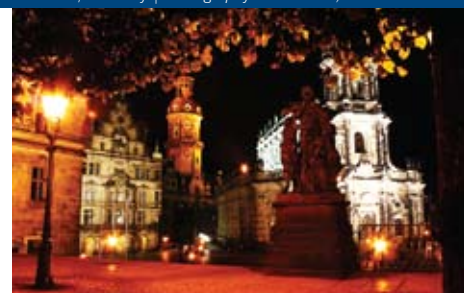
> 05

icc 2013

Dresden, Germany | Photography Marc Friede, Dresden IN SICHT

The 26th International Cartographic Conference will be held in Dresden, Germany in 2013 and organised by the Deutsche Gesellschaft für Kartographie. Professor Manfred Buchroithner from the Institute of Cartography, Technische Universität Dresden, will be the Conference Director.

David Fairbairn | Secretary General & Treasurer | ICA ●



news children's map award 2009 cont...

member willing to act as the coordinator for that country at least one year prior to the submission date of map entries.

- Each national committee will select a maximum of six (6) maps to be forwarded to the International Coordinator. For the purposes of the national competition, criteria other than those used for the international competition may be considered. The maps selected by the national committees must be sent directly to the International Coordinator and not to the ICC Local Conference Committee.
- When submitting the selected entries to the International Coordinator, national bodies are requested to include a letter which, for each submission, gives the following information: the name, age, school or authorized address and country of its author, and the title in either French or English.
- All entries sent to the International Coordinator must have a label attached to the verso of the representation which states the name, age, school or authorized address, country and photo of its author (if available), and the title in either French or English.

The maps and an accompanying letter should be sent so that it arrives by June 1, 2009 prior to the next ICA conference to the address of the International Coordinator of the Barbara Petchenik Competition. This address is also provided on the ICA website at www.acica.org:

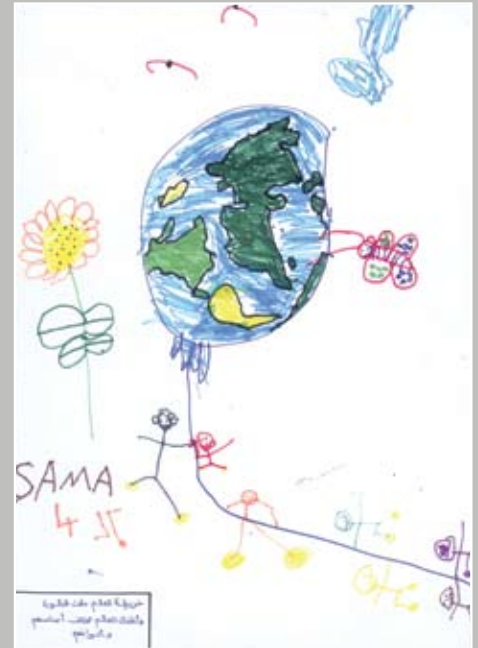
Ferjan Ormeling / Peter van der Krogt
c/o Faculty of Geographic Sciences
Utrecht University
PO Box 80115
3508 TC Utrecht
THE NETHERLANDS

- All entries will be displayed during the next ICA conference as part of the International Map Exhibition that will be held as part of the 24th International Cartographic Conference of the International Cartographic Association in Santiago, Chile, November 15-21, 2009.
- National bodies will be responsible for distributing the certificates that will be subsequently awarded by the international Judging Commission. These certificates will be produced and provided by the Local Organizing Committee of the International Cartographic Conference.
- Participating nations are encouraged to collect and archive all of the entries in their national competitions and to inform the Cartography and Children Commission (lazarus.elte.hu/ccc/ccc.htm) about their proposed methods for announcing the competition, establishing any additional judging criteria and the selection process used. This information will be of value in evaluating the success of the Competition and in making adjustments for future Competition operations.

The detailed rules of the competition can be downloaded from the ICA website at www.icaci.org or from the ICA Commission on Cartography and Children website at lazarus.elte.hu/ccc/ccc.htm.

David Fairbairn | Secretary General & Treasurer | ICA

José Jesús Reyes Nunez | Co-Chair | ICA
Commission on Cartography and Children | Hungary ●



Sama Salah Al Sayed | 4 | *Untitled* | - | Qatar
2007 Competition Winner | *Special Mention (youngest participant)*

24th international cartographic conference 2009



The Chilean National Committee and the ICC2009 Local Organizing Committee (LOC), both based in Santiago at the

Military Geographic Institute (IGM) of Chile, continue to make progress in preparations for the 24th International Cartographic Conference, scheduled for November 2009.

Recently, we have achieved the following:

- Built up a long list of conference patrons
- Started discussions with sponsors
- Put the submissions system on line (see web site)
- Started to receive paper abstracts
- Publicised ICC2009 at a series of international events around the world (with some help from the Executive Committee of ICA) and also at local events here in Chile
- Initiated preparations for the local Barbara Petchenik competition (children's maps)

- Made progress in defining a lot of infrastructure (booths, venue layout, hotels) issues
 - Met with the Executive Committee of ICA in line with a tradition of meeting the ICC host country a year before the Conference takes place
- The relevant deadlines are :

- **16th January, 2009:** abstracts for all categories and full papers in Refereed category
 - **30th June, 2009:** change from 'early' to 'late' rates in registration fees (best to register early!)
 - **10th July, 2009:** full papers in non-refereed category
- Deadlines for map submissions to the International Cartographic Exhibition and for room booking requests to facilitate ICA meetings will follow later in 2009.

We have just implemented a paper submissions system on line. Please use this facility to submit your abstracts and full papers. All authors, including those who already submitted

their abstracts using email, are requested to use this system, which is available as a link from the ICC2009 web site at www.icc2009.cl under the *Conference* tab.

A very full program is under development, including meetings of the ICA Commissions, Working Groups, Executive Committee and Cartographic Agencies, technical sessions including oral presentation of papers, various exhibitions of maps, posters and the Barbara Petchenik Children's World Map competition entries, a cross-country orienteering event and other parallel events (non-ICA related). For more information and updates, visit the conference web site at www.icc2009.cl or contact LOC at info@icc2009.cl. Chile looks forward to greeting you in Santiago in November 2009.

Local Organizing Committee for ICC2009 |
Military Geographic Institute of Chile | Chile ●

olaf schnabel



Web mapping is my major interest in cartography. Inspired by Stevenson's *Treasure Island*, I was drawing maps since I could hold a pencil. The fascination of exploring geographies

of novels, inventing new landscapes in my fantasy world and making them "real" by simply mapping them, led me straight to the cartographic profession. I studied at the Leibniz Institute of Regional Geography in Leipzig (Germany), where many thematic maps for scientific journals were made. I gained experience in the traditional map production and witnessed the meticulous, small detail work done to maps to improve their readability. This made me aware of the time-consuming aspects of such work but also of the fascinating opportunities computer technologies could bring to improve this situation.

In 1995, I decided to study cartography at the Institute of Cartography, TU Dresden to learn more about the theory of map making and the use of technologies such as GIS, computer graphics and databases. The software could make maps very fast but their readability and aesthetics were often compromised. What I wanted was to combine the beauty of a traditional map with the time-saving benefits of the computer technology including dissemination of maps via the Internet. This was my goal and inspiration.

Initially I focussed on the Internet mapping and learned some computer programming. For my diploma thesis, I designed and programmed an online National Atlas of Germany. In 2002 I moved to Switzerland to start my PhD at the Institute of Cartography, ETH Zurich. I was curious if I could automatically link statistical data with map symbols. Therefore, I developed an XML-based language *DiaML* (Diagram Markup Language) for the description of map symbols which could be used with any software or web standard. Furthermore, I tried to establish an interface between the cartographer's and the programmer's world.

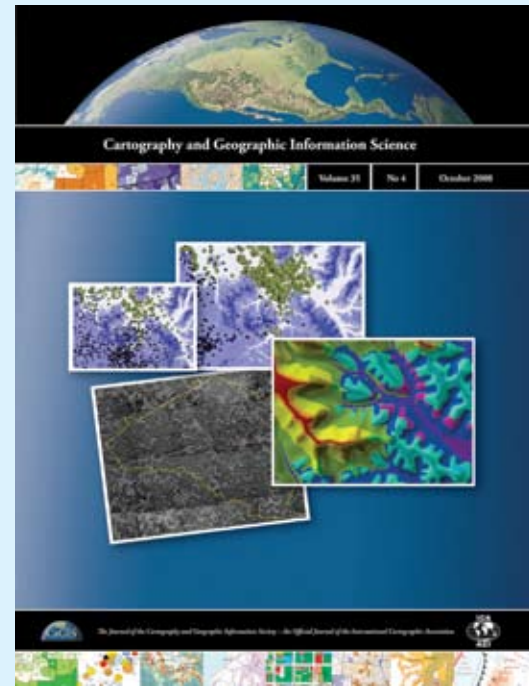
But even now, when I setup Web Map Services or try to explain modern mapping techniques to my students, I always have those fascinating maps from my childhood in mind that provide such a wonderful inspiration for improving the current web techniques to create even more beautiful and functional maps.

Olaf Schnabel | ETH Zurich | Switzerland | oschnabel@ethz.ch

www.cartogis.org/publications/document.2006-09-05.2869439036

Cartography and Geographic Information Science (CaGIS) is the official publication of the Cartography and Geographic Information Society (CaGIS), a member organization of the American Congress on Surveying and Mapping (ACSM). The journal facilitates the exchange of original concepts, techniques, approaches, and experiences by those who design, implement, and use geospatial technologies. It first appeared in April 1974 as *The American Cartographer*. The original semi-annual publication was expanded to a quarterly publication in 1986 and was renamed to *Cartography and Geographic Information Systems* in 1990. The name of the journal was changed one more time to *Cartography and Geographic Information Science* in 1999. In 2004, *CaGIS* became one of the three official journals of the International Cartographic Association.

Since its inception the journal has appeared 118 times under the stewardship of eleven different editors, has published 30 Special Issues, including seven US National Reports to the ICA and one collection of articles from the AutoCarto 2005 Research Symposium. Future Special Issues will cover such diverse topics as Geospatial Visual Analytics, Mapping Hazards and Disasters, and selected AutoCarto 2008 articles. *CaGIS* is an international and highly reputable journal that publishes research papers, technical notes and book and literature reviews. It is a widely subscribed, well-respected journal that has seen the most notable



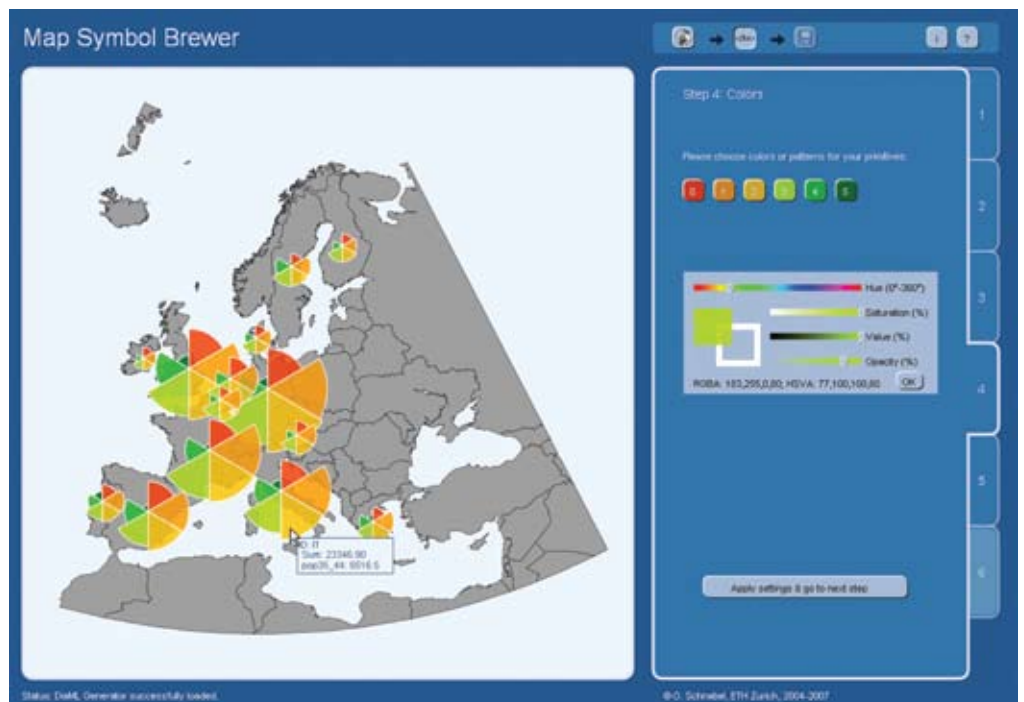
Recent cover of the *Cartography and Geographic Information Science* journal

cartographers and GIScientists among its contributors.

If you want your research to appear in a high quality journal, consider *CaGIS* your research outlet. As the editor I will try very hard to have your manuscript published as quickly as possible.

Michael Leitner | Editor | CaGIS | USA

The *Map Symbol Brewer*, developed by Olaf Schnabel as part of his PhD research, is an online service to create map symbol representations with ease www.carto.net/schnabel/mapsymbolbrewer; the tool can import statistical data and visualise them with a few clicks of a mouse



profiles canadian national committee for cartography

Recognizing that there exist multiple national associations in Canada with major interests in geomatics, the Canadian National Committee (CNC) for Cartography was founded in 1993 to represent and coordinate Canada's activities in the International Cartographic Association. This seven member umbrella group, chaired by the principal delegate to the ICA, includes representatives from the Canadian Institute of Geomatics (CIG), the Canadian Cartographic Association (CCA) and the Association of Canadian Map Libraries and Archives (ACMLA). Together these organizations sustain a keen and dynamic level of cartographic activity in Canada with regular conferences and workshops, award and scholarship programs, and highly regarded scholarly journals.

In May 2008, the CCA and ACMLA held a joint conference (Carto 2008) at the University of British Columbia in Vancouver, Canada. David Rumsey, President of Cartography Associates and Chair of Luna Imaging, provided an intriguing keynote address demonstrating how digitized historical maps can be explored interactively using interfaces such as *Google Earth* and *Second Life*. A collection of Rumsey's digital historical maps can be accessed in a Gallery Layer of *Google Earth*, and many more are freely available online at www.davidrumsey.com. Stimulating and informative sessions were also held on community projects, census mapping, cartographic education and

geospatial data services. The CIG held its annual meeting in November 2008, in Saint John, Canada, at Geomatics Atlantic. The conference theme was *Discovering the Way to a Sustainable Future* and included sessions highlighting the application of geospatial technologies to issues such as environmental monitoring and management, social policy and risk assessment.

The Earth Sciences Sector of Natural Resources Canada, Canada's national mapping agency, continues to publish outstanding online and printed maps on topics of importance both nationally and internationally. Featured here is the newly revised and printed 2008 version of The Atlas of Canada's North Circumpolar Region map. This remarkable map documents much up-to-date information including new undersea and land relief, undersea feature names, permanent polar sea ice current to 2007, ice shelves current to 2008, updated hydrography and toponymy, and a new circumpolar tree line. Glaciers and ice fields have been verified and updated using new circumpolar MODIS satellite imagery from the Canada Centre for Remote Sensing. To view this map and find information on obtaining it, visit the Wall Maps section in the Atlas of Canada web site at atlas.gc.ca.

Jan Mersey | University of Guelph | Canada



The Atlas of Canada's new 2008 North Circumpolar Region map, published by Natural Resources Canada (above) and David Rumsey in *Second Life*, where digital historical maps create a virtual world that can be navigated in three dimensions.



profiles institut géographique national

The Institut Géographique National (IGN) is a French administrative public institution, which was created in 1940 and is currently under the authority of the Ministry of Ecology and Sustainable Development (MEDAD). Our mission is to gather spatial and temporal information about the national territory of France and its land cover for mapping, planning and dissemination purposes. We offer a wide range of geographical information services and products to local authorities, government departments, businesses, academia and the general public. IGN has successfully managed to adapt to today's major technological developments by using advanced satellite technologies and moving the production and spatial data depositories into fully digital environment. We are strengthening our position as a major player in web-based delivery of geospatial solutions through our digital world. These changes are already benefiting IGN; our e-services and digital products are used by professionals as well as general users on daily basis.

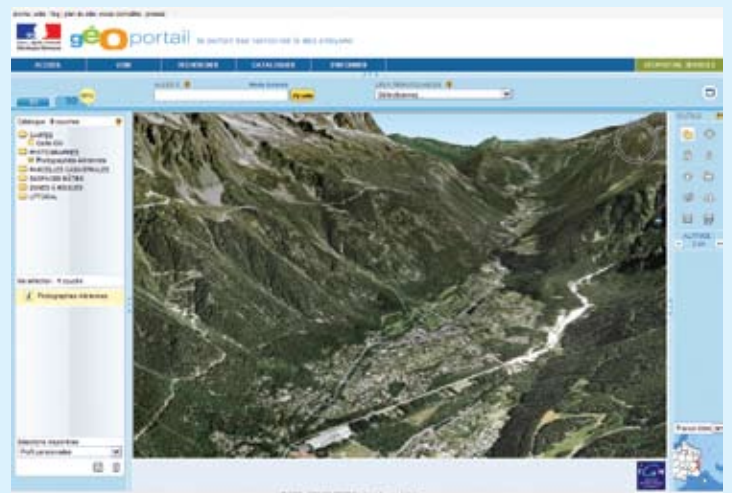
From day one, IGN played an important role in the ICA. Our cartographer Stéphane de Brommer participated in the 1959 ICA foundation meeting in Berne. Our Institute continually supports ICA's many activities by being one of the ICA affiliate members and participating in works of many Commissions, particularly on Generalisation with the research input from COGIT laboratory. Dr Anne Ruas is our representative in the ICA Executive Committee. IGN will be a major supporter of the 25th International Cartographic Conference in 2011 in Paris.

To learn more about our cartographic products and activities, please visit our websites www.ign.fr and www.geoportail.fr.

Francois Lecordix | Institut Géographique National | France | francois.lecordix@ign.fr

www.ign.fr

The first base map of Paris from 1756 by Cassini (right) and a modern 3D orthophotography rendering, both accessible from www.geoportail.fr.



Cartography and Children

lazarus.elte.hu/ccc/ccc.htm

Cartography and Children in Buenos Aires, Argentina

Prior to the 4th Cartographic Congress and the 11th National Week on Cartography, the Argentine Cartographic Centre organised the 2nd *Day on Education*. The venue of this event was the Military Geographic Institute in Buenos Aires.

In the opening ceremony Ana María Garra, coordinator and representative of the ICA Commission on Cartography and Children, presented the activities planned by the Commission for the 2007-2011 period. A total of ten papers relating to the practical use of cartography in schools were presented in different sessions. The Organising Committee invited the Prof Dr Marcello Martinelli from the University of Sao Paulo, who is also a member of our Commission, to give a talk about his experiences in the use of thematic cartography in schools.

The programme included a technical visit to the Military Geographic Institute giving participants the opportunity to learn how the national map series are produced by the Institute. On the last day, different state organisations and private companies donated some cartographic and didactic materials to all participants of this event.

José Jesús Reyes Nunez | Co-Chair | ICA Commission on Cartography and Children | Hungary ●

Digital Technologies in Cartographic Heritage

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

Meeting in Barcelona, Spain

Papers presented at the Third International Workshop on Digital Approaches in Cartographic Heritage held in Barcelona last June in cooperation with the Institut Cartogràfic de Catalunya are appearing in *e-Perimetron*, an international web journal supporting the Commission's work (www.e-perimetron.org).

Cartographic Heritage Research in Thessaloniki, Greece

Eighteenth century Vienna was in the centre of recent cartographic heritage research assisted by digital technologies. A rare, four-sheet world map engraved by Karl Robert Schindelmayer and published in the Austrian capital in 1800 by the Greek scholar Anthimos Gazis (1758-1828) was found in the small city of Kozani in north-west Greece and saved from a certain

major deterioration. The conservation effort used advanced techniques for digitally preserving high fidelity colouring for facsimile copies of the map and testing these techniques in relevance to the fundamental requirements of maintaining true colouring in the context of cartographic heritage.



David Fairbairn, ICA Secretary General, and Evangelos Livieratos, Commission Chair, in front of Rigas Charta in Kozani, November 2008

Another map, internationally known as a twelve-sheet map of south-east Europe, was engraved by Franz Müller and published in 1797 by Rigas Velestinlis (1757-1798), a major figure of the Greek Enlightenment. Copies of this map can also be found in Vienna, Belgrade, Paris, London, Stockholm and Cambridge. Recently, thanks to the application of the *digital transparency* technique under best-fitting, a method currently applied in digital studies of cartographic heritage, an extraordinary new finding has been reported. For the first time it has been proved, that Rigas Charta has two versions, apparently due to two separate impressions. Thirteen toponyms missing from the first version are present in the second, together with some corrections of misprints (see illustration below). A recent survey shows that the majority of available copies, including those in the Bibliothèque Nationale de France, the British Library and the Royal Geographic Society, contain additional toponyms. This finding highlights the importance and effectiveness of digital technologies in historic cartography research.



An example of *digital transparency* technique under best-fitting that highlights the difference between the two map versions; a map with the added toponyms (top left), without toponyms (top right) and a combined view showing both versions together.

Meeting in Berlin, Germany

Berlin is a host city of the Workshop on Archiving in Digital Cartography and Geoinformation (Archiving 2008) chaired by Commission members Horst Kremers and Markus Jobst. It is planned for 4-5 December 2008. The Workshop is being organised by the Berlin-Brandenburg Section of the German Cartographic Society (DGfK) in cooperation with the German National Committee on Data for Science and Technology, the Berlin State Archive and the Hasso Plattner Institut of the Potsdam University. For more information visit www.codata-germany.org/Archiving_2008/.

Future Plans

The type of research described above together with other issues included in the Commission's terms of reference as well as new topics coming from the digital world will be presented in the Commission's Fourth International Workshop on Digital Approaches to Cartographic Heritage to be held in spring 2009 in Venice, Italy. The Workshop will be hosted by colleagues from the Interdepartmental Centre for Surveying, Cartography and Processing (CIRCE) of the University of Architecture (IUAV).

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

Education and Training

lazarus.elte.hu/cet/

Commission Website

Undergraduate cartography courses listing from around the world contains information on courses containing cartographic content. Cartography teaching modules to be found on the Internet is a work-in-progress project that provides a structured environment into which on-line modules on cartography can be accessed for continuing professional development. A repository of academic papers pertinent to cartographic education and training can also be accessed through the Commission on Education and Training (CET) website. Please feel free to send any papers for inclusion here.

Reports on Cartographic Education

Czech Republic (compiled by Vasek Talhofer)

- Cartographic education and training courses: eight schools of university type offer cartographic and geoinformatic education: University of West Bohemia (www.zcu.cz), Czech Technical University in Prague (www.cvut.cz), Charles University in Prague (www.cuni.cz), Masaryk University in Brno (www.muni.cz), University of Defence in Brno (www.unob.cz/en/), Brno University of Technology (www.vutbr.cz), Palacky > 09

University in Olomouc (www.upol.cz/en/) and Technical University in Ostrava (VSB) (en.vsb.cz)

- Professional organizations for cartographers: there are two main professional organisations: The Czech Office for Surveying, Mapping and Cadastre (civilian, www.cuzk.cz) and The Geographic Service of Czech Armed Forces (military, www.geoservice.army.cz/htm/geosl.html)
- Career prospects for cartographers: cartographers are employed by the government as well as private companies. Examples include SHOCART and Kartografie with focus on cartographic production, as well as GEODIS and T-Mapy with focus on GI production and services.

Greece (compiled by Myron Myridis)

- Cartographic education and training courses: six courses are available in Greece, i.e. one course (4 semesters) at the National Technical University of Athens in the School of Rural and Surveying Engineering, two courses (11 semesters) at the Aristotle University of Thessaloniki (www.auth.gr) in the School of Rural and Surveying Engineering and the School of Regional Planning and Development, one course (2 semesters) at the Aegean University (www.aegean.gr) in the School of Geography, and one course (3 semesters) at Harocopeio University of Athens (www.hua.gr) in the School of Geography. All other cartographic teaching is offered within GIS courses, for example at the University of Thessaly (www.uth.gr) in the School of Regional Planning and Development. There are also two Polytechnics offering cartography (3 semesters each).
- Career prospects for cartographers: cartographers are employed by the government (Ministry of Environment and Planning, www.minenv.gr), army (Hellenic Military Geographical Service, www.gys.gr) and navy (Hellenic Navy Hydrographic Service, www.hnhs.gr).

The Netherlands (compiled by Connie Blok)

- Cartographic education and training courses: unfortunately, there are no full programmes in cartography in the Netherlands anymore. There are, however, programmes in geoinformatics, geography and GIS that incorporate varying amounts of cartography/geodata visualization content. For an overview visit CET website.
- Career prospects for cartographers: cartographers are employed by the government (national, provincial, municipal), research and educational institutes (like ITC in Enschede) and a broad variety of private companies, such as Teleatlas and TomTom.
- Professional organizations for cartographers: Geo-Informatie Nederland (GIN) www.geo-info.nl/Site/.

USA (compiled by Cherie Northon)

- Cartographic education and training courses: there are cartography courses offered at several institutions in the U.S. See www.nacis.org for a list of university cartography labs and information on classes.
- Career prospects for cartographers: in the USA, cartographers are employed in federal, state, and local governmental agencies as well as many of the map firms such as Lonely Planet, AAA, Rand McNally, DeLorme, Moon Publications, and many people do freelance cartography.
- Professional organizations for cartographers: North American Cartographic Information Society (NACIS) at www.nacis.org is probably the most comprehensive. The Association of American Geographers (AAG) at www.aag.org has a Cartography Specialty Group.

Future Plans

Two meetings of the Commission are planned, one in Santiago, Chile in November 2009, the other in the Netherlands in 2010. The CET has offered to contribute to the ITC's education seminar being held in 2010 to celebrate the 60th anniversary of this educational institution.

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

Geospatial Analysis and Modeling

www.hig.se/~bjg/ica/

Journal Publication

Seven themed papers selected from the presentations of the 2nd ICA Workshop on Geospatial Analysis and Modeling, guest edited by Xiaobai Yao and Bin Jiang, will soon be published in the international journal *Environment and Planning B: Planning and Design*.

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. The increasing availability of high volumes of geospatial information poses a great challenge to Geographic Information Science. We thus call for papers that:

- develop visual and analytical tools for geospatial analysis and modeling
- attain interesting and useful geographic knowledge by applying these tools to massive geospatial information

Both these tools and knowledge constitute two major concerns in our pursuit for better spatial planning and decision making. More details about the event can be found at www.hig.se/~bjg/ica2009/. To submit, please first login to your existing account or setup a new one with EasyChair at www.easychair.org/conferences/?conf=3rdicaworkshop.

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

GeoVisualization

geoanalytics.net/ica/

Workshop at the GIScience Conference, Park City, USA

Workshop on Geospatial Visual Analytics at the GIScience conference in Park City has attracted about 40 participants. Extended abstracts and slides of all accepted presentations are available from geoanalytics.net/GeoVisualAnalytics08. As a follow up from the workshop, we are preparing a special issue of *CaGIS* with tentative publication date of July 2009, Vol 36, No 3.

Participants of the ICA Commission on GeoVisualization Workshop on Geospatial Visual Analytics, Park City, USA



Special Issue of *Information Visualization*

Special issue on Geovisualization of Dynamics, Movement and Change has been published by *Information Visualization*, Vol 7, No 3-4, Autumn/Winter 2008 (www.palgrave-journals.com/ivs/journal/v7/n3/index.html).

Workshop in Hamburg, Germany

Call for papers to the Workshop themed *Contribution of Geovisualization for the concept of the Digital City* in Hamburg, 3-5 March 2009 is now out at geoanalytics.net/. Please consider participating.

Gennady Andrienko | Chair | ICA Commission on GeoVisualization | *Germany*

History of Cartography

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

Symposium in Portsmouth, UK

The ICA Commission on the History of Cartography organized a highly successful Symposium in Portsmouth in the United Kingdom from 10 to 13 September 2008. The theme of the Symposium was *Shifting Boundaries: History of Cartography in the 19th and 20th centuries*, and the venue was the Department of Geography at the University of Portsmouth.



Participants in the Symposium relaxing in the foyer of the Birmingham Building, University of Portsmouth

The Symposium was attended by approximately 55 people, many from the UK, as well as other delegates from as far afield as Sweden, Croatia, Italy, Nigeria, and the United States. On Tuesday evening, 9 September, an ice-breaker reception took place in Rees Hall and, on Wednesday 10 September, the keynote address was presented by Professor Michael Heffernan of the Department of Geography, University of Nottingham, who spoke on *Mapping the Fourth Estate: Cartography and the Origins of the Modern News Media*. During the next two-and-a-half days twenty-four papers were presented in four categories, namely Theoretical and Cultural Aspects, Colonial Cartography, Military Cartography and Marine Cartography (Hydrography). One of the highlights was an informal address by Professor Roger Kain, Vice-Chancellor of Exeter University, on the preliminary plans for Volume 5 of the History of Cartography Project of the University of Wisconsin. Professor Kain was recently appointed editor of Volume 5.

Portsmouth has played an important role in British naval history, and on Thursday, 11 September all symposium attendees participated in a visit to the Map Collection of the Admiralty Library situated in the Historic Naval Dockyard. On Saturday, 13 September, a more comprehensive tour of the Dockyard was undertaken which included visits to famous English ships such as the Mary Rose, HMS Victory, and HMS Warrior. A well-attended and enjoyable symposium dinner took place on Friday evening, 12 September 2008.



Elri Liebenberg viewing a map exhibition on British Military Mapping at the Portsmouth Symposium

Full particulars regarding the Symposium Programme and all the papers which were presented can be found on the Commission's website www.ichistcarto.org.

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

Map Projections

www.csiss.org/map-projections/index.html

Workshop at AutoCarto 2008, Shepherdstown, West Virginia, USA

The Commission conducted a workshop in conjunction with AutoCarto 2008 in Shepherdstown, West Virginia, USA, on the afternoon of September 10th and morning of September 11th. The agenda:

- Introductions, hosted by Daniel Strebe
- *Current projection problems and projecting raster data*, a presentation by E. Lynn Usery
- *Rapid, web-based projection*, an open discussion hosted by E. Lynn Usery
- *Virtual Transverse Mercator*, a presentation by Shin-yi and Sigmund Hsu
- *Open source software packages/Commercial software packages*, a presentation by Michael P. Finn
- *Projections and parallel/grid computing*, a presentation by Qingfeng "Gene" Guan
- Commission business, hosted by Daniel Strebe



Participants of the AutoCarto 2008 Commission Workshop in Shepherdstown, West Virginia, USA

Those attending the Workshop were Sarah Battersby (University of South Carolina), Mike Finn (United States Geological Survey), William

Gribb (University of Wyoming), Qingfeng "Gene" Guan (United States Geological Survey), Shin-yi Hsu (Binghamton University), Sigmund Hsu (Susquehanna Resources & Environment), Alan Saalfeld (Ohio State University), Daniel Strebe (Mapmathematics LTD) and E. Lynn Usery (United States Geological Survey).

Commission business portion of the agenda was canceled for lack of attendance.

Daniel "daan" Strebe | Chair | ICA Commission on Map Projections | *USA*

Mapping from Satellite Imagery

mailer.fsu.edu/~xyang/ica/

Symposium in Harbin, China

The Commission on Mapping from Satellite Imagery was present at the 4th International Symposium on Geoinformation for Disaster Management (Gi4DM), which was held jointly with ISCRAM-CHINA in Harbin Engineering University, Harbin, China, 4-6 August 2008. Prof Jonathan Li, Vice-Chair, and Prof Xiaojun Yang, Chair of the Commission served as a co-chair and member of the Scientific Committee respectively. The goal of Gi4DM was to promote dialogue on disaster management problems in their entirety by considering the areas of both geospatial technologies and particular user requirements for spatial data and standards. Nearly 100 scholars attended this meeting.

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 by the ICA Commission on Mapping from Satellite Imagery and three other international professional societies, namely 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, serves as a Co-Chair of the EOGC2009 International Advisory Committee. Prof Jonathan Li serves as Chair of the EOGC2009 Scientific Committee and Prof Xiaojun Yang as a Co-Chair.

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. 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*

Maps and Society

RGS/IBG Conference, London, UK

The Maps and Society Commission played an important role at the 2008 RGS-IBG annual international conference, held in London this August, when we organised three well attended sessions on *Maps as Method* along with a high profile evening plenary discussion on the *Future of the Map* and a rolling PowerPoint presentation of *Maps that Matter*.

The plenary, chaired by Chris Perkins, comprised lively discussion between Mary Spence (chair of the British Cartographic Society), Ed Parsons (geospatial technologist for Google) and Denis Wood (writer and independent theorist) and generated an array of questions and comment from the audience. An aspect of the plenary was also the focus for much media interest, with nearly every national newspaper running a story. Chris Perkins was also interviewed for a follow-up story in the *Times Higher Education Supplement*.

The *Maps as Method* sessions goal was to challenge the inexorable decline in map use by demonstrating the capabilities of geographers and others to work creatively through cartography. The aim was to foster a theoretically informed discussion around the different ways maps have been, are being, or could be employed in geographical research, learning and teaching. Papers addressed technological solutions offering innovative ways forward, in very different contexts, as well as confronting taken-for-granted notions around the status of mapping practices inside and outside the academy. They focused around the creation of a product, on pedagogic progress, on different kinds of community engagement and on the methodological and philosophical implications of mapping as method. Highlights of the session included:

- reworkings of notions of mental mapping as a practical tool deployed to challenge accepted policy initiatives
- innovative uses of location-based technologies bringing together narratives of place in the face of top down urban regeneration
- explorations of different kinds of mapping 'mash ups', including community-led initiatives
- evaluations of open source volunteered alternatives to conventional mapping databases
- an examination of tranquillity mapping methodologies
- descriptions of web-served historical mapping services

We also presented results from our *Maps that Matter* (mapsthatmatter.blogspot.com) research at the conference as a rolling slide show which was displayed prominently on the big screen in the foyer of the RGS building.

The location map displayed on the conference programme backcover was created by Graham Bowden and highlights the potential of using OpenStreetMap data (see example at cyberbadger.blogspot.com/2008/10/managed-to-get-osm-into-rgs.html).

These three different elements at the RGS/IBG conference show the potential for a significant re-engagement between Geography as a discipline and the practical worlds of mapping. Taken together the papers showed how maps can make a positive difference to what geographers do, and that working through maps can be both creative and emancipatory. They illustrate the potential of new contextual approaches to mapping that are the central focus of the ICA Maps and Society Commission.

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

Maps and the Internet

maps.unomaha.edu/ica/

Workshop in Tehran, Iran

Over 24 participants were in attendance in Tehran, Iran, for a hands-on Workshop on contemporary web-mapping technologies. The event held on 20-22 October 2008 was organized by the National Cartographic Center (NCC) of Iran and held by the ICA Commission on Maps and the Internet, represented by the co-chair Georg Gartner from the Department of Geoinformation and Cartography of the Vienna University of Technology, Austria and Markus Jobst, Hasso-Plattner Institute of University of Potsdam, Germany. The participants were offered presentations and hands-on sessions on the topic *Serverside Web Mapping*.

Participants, organizers and presenters of the Workshop on Internet Cartography, held at Tehran, Iran in October 2008 | *Photography courtesy Markus Jobst*



The workshop focused on the technological and methodological basics of delivering maps on the web, including such topics as basic tools, design questions, interactive functions and using map server technology.



Markus Jobst in "action" during a session | *Photography courtesy Markus Jobst*

The workshop was perfectly organized and hosted by the Cartography Department of NCC. Special thanks go to Mr Babak Shamei, NCC delegate to the ICA, and Mr Mehrdad Jafari, Deputy Manager of the Cartography Department.

Prof Georg Gartner, Vice President of the ICA, gave a presentation on contemporary cartographic issues and on the International Cartographic Association at a colloquium organized by the University of Tehran.

Georg Gartner | Co-Chair | ICA Commission on Maps and the Internet | Austria

Markus Jobst | Hasso-Plattner Institute | University of Potsdam | Germany

National and Regional Atlases

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

Commission Website

A completely new Commission website has been launched at www.univie.ac.at/cartography/karto/project/cnra/. It is hosted by the Institute for Geography and Regional Research, Cartography and Geoinformation at the University of Vienna, and maintained by Alexander Pucher and David Schobesberger. It contains information on Commission members, meetings and current agenda, as well as provides links to national, regional, thematic and city atlases on the Internet. However, this latter section is so far only scarcely filled and contributions are kindly sought to help its completion by providing us with links to other Internet-based atlases. Please approach Peter Jordan at peter.jordan@oeaw.ac.at, Alexander Pucher at alexander.pucher@univie.ac.at or David Schobesberger at david.schobesberger@univie.ac.at if you can help.

Meeting in Timișoara, Romania

A joint meeting of the Working Group on Exonyms of the United Nations Group of Experts on Geographical Names (UNGEGN) and the ICA Commission on National and Regional Atlases (CNRA) took place in Timișoara (Romania) from 9 to 13 September 2008. It was hosted by the West University Timișoara, the Romanian Academy of Sciences, the Romanian Military Institute of Cartography and the Adam Mueller Guttenbrunn House, the cultural center of Germans in the East of the Pannonian Basin. Remus Cretan, professor of geography and toponomastics at the West University was the main local organizer, who made the "engine running" and created a very pleasant atmosphere. It was the intention of the meeting to gather experts on geographical names and cartographers to discuss:

- the topic of exonyms and their application in various communicative situations
- the general structure and in particular the chapter on geographical names of a *cook book* for atlas editors

The two subsequent meetings were accessible not only for the members of the respective subgroup, but for all other participants. The meetings were linked by a common excursion to the city of Timișoara and its multicultural surroundings. The meetings were preceded by a UNGEGN toponymic training course for young toponymists from Romania and neighbouring countries.

A participation of 48 colleagues from 18 countries and 4 continents exceeded most expectations. It was very valuable to have UNGEGN experts also participating in the ICA



A multicultural city of Timișoara, Romania, place of the CNRA and UNGEGN joint meeting

Commission meeting. This provided many valuable contributions to the *cook book* chapter on geographical names and thus had indeed the synergy effects that were expected.

The two days of the ICA Commission meeting were divided into a paper presentation and discussion session and a workshop focused on the elaboration of the *cook book*. Vit Voželínek (Czech Republic) delivered a paper *The Czech Republic by exonyms in school atlases* and Ferjan Ormeling (The Netherlands) discussed the basic problems in atlas cartography in his presentation. Peter Jordan (Austria) offered some ideas with regards to the rendering of geographical names in national and regional atlases. During the workshop essential progress was made in defining the structure of the *cook book* for atlas editors. In-depth discussions resulted in a ten chapter structure. For most of the chapters authors could be found. Authors will now be asked to present detailed concepts of their chapters and then to start with elaboration. A next commission meeting planned for 8-9 October 2009 in Algiers, will offer the opportunity to harmonize chapters before they are finalized.

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

Theoretical Cartography

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

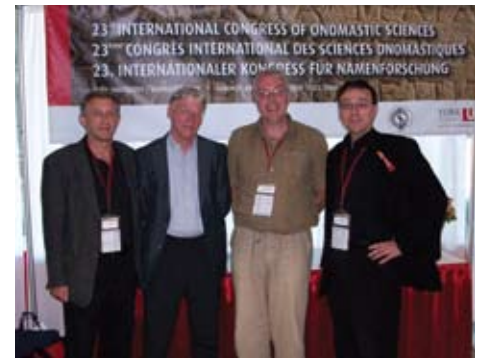
Meeting in Toronto, Canada

During the 23rd International Congress of Onomastic Science at the York University, 17-22 August 2008, the ICA Commission on Theoretical Cartography held two oral sessions within special section *Toponymy and Cartographic Language*. This section was initiated by Yaïves Ferland, Vice Chair of the Commission and Vice President of the Canadian Society for the Study of Names (CSSN).

The first session started on Tuesday, 19 August 2008 with three presentations: *Atlas Index: Structure, System and Name Collection*

by Alexander Wolodtschenko (Germany), *Dictionary of Moravian and Silesian Anonymisms* by Milena Sipkova and *Interactive Digital Version of a Dictionary of Minor Place Names* by Libuse Cizmarova (Czech Republic).

Wednesday was a full day excursion to the attractive Niagara Falls and two wineries. The second session was held on Thursday. Yaïves Ferland (Canada) spoke about *Geospatial Ontologies: Entity Labelling vs. Generic Feature Names*, Lennart Dehlin (Sweden) discussed *Presentation of Saami Place Names on Swedish Maps during the Last 100 Years* and Ferjan Ormeling (Netherlands) presented paper on *Names in a 17th Century Atlas of the Dutch East India Company*. The Congress organisers plan to publish all full papers as a CD-Rom Proceedings by the end of 2008.



(From left) Alexander Wolodtschenko, Ferjan Ormeling, Lennart Dehlin and Yaïves Ferland at the Toronto meeting

Workshop in Barnaul, Russia

The ICA Commission on Theoretical Cartography and Institute of Water Problem and Ecology (Russian Science Academy) held a joint workshop entitled *Quo Vadis Modern Cartography* on 1 September 2008 in Barnaul, a university city of the Southern Siberia. The local organisers were Irina Rotanova and Viktor Kalashnikov.

Workshop included two oral sessions with 10 presentations and a poster session with five presentations. Its aim was to discuss some aspects of theoretical and applied cartography. The selected topics included conceptual aspects of cartography and cartosemiotics, map and cartographic language, new metacartosemiotic concepts, ecological mapping and analytical systems, and cartography and geo-portals.

> 13

Participants of the joint workshop in Barnaul



It provided a productive interdisciplinary exchange of experiences between experts and young researchers. We also had an interesting four days excursion (3-6 September 2008) into Belokuricha health resort and tourist region Chamal, Teletsk Lake, Curay mountain steppe and Chui Oozy petroglyphs. Details of the workshop program and excursion into Altai Regions can be found at rcswww.urz.tu-dresden.de/~wolodt/tc-com/pro-st.htm. The next Commission seminar in the series is planned for April 2009 in Barnaul.

Cartosemiotic Teaching Course in Novosibirsk, Russia

Centrally and strategically located city in South Siberia, the cultural and scientific Novosibirsk was our second stop after Barnaul for popularisation of new cartosemiotic knowledge. In Barnaul, at State University are there special cartosemiotic lectures for geography students.

On 9-11 September 2008, the Siberian State Academy of Geodesy (SSAG) in Novosibirsk was the host university for a series of lectures delivered by Irina Rotanova and Alexander Wolodtschenko. Together with Moscow University of Geodesy and Cartography (MIIGAiK), the SSAG is the second specialist university for surveying and cartographic training in Russia. The selected topics of cartosemiotic course for cartography students included prehistoric maps and cartosemiotics, atlas cartography and atlas cartosemiotics and *Quo Vadis Cartographic Semiotics?*



(From left) A Wolodtschenko and I Rotanova with the SSAG Rector A Karpik and Vice-Rector V Seredovich

Discussion with the Rector of the SSAG showed growing interest for further cooperation with ICA Commission on Theoretical Cartography. The next cartosemiotic course is planned for April 2009 in Novosibirsk, before the 5th International Conference and Exhibition *Geo-Siberia*.

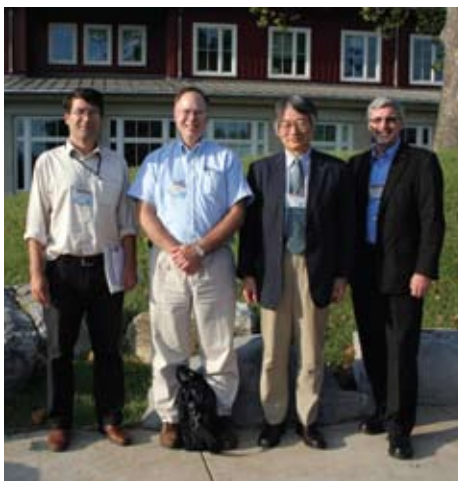
Alexander Wolodtschenko | Chair | ICA Commission on Theoretical Cartography | Germany

Ubiquitous Mapping

www.ubimap.net/

UPIMap2008 Workshop in Shepherdstown, West Virginia, USA

The 3rd International Joint Workshop on Ubiquitous, Pervasive and Internet Mapping (UPIMap2008) was held in Shepherdstown, West Virginia, USA, 10-11 September 2008, immediately after the AutoCarto 2008 at the same place.



(From left) Georg Gartner and Timothy Trainor (Vice Presidents of ICA), Takashi Morita (Chair of Ubiquitous Mapping Commission) and Michael Peterson (Chair of Maps and the Internet Commission)

The workshop was sponsored by the Commission on Ubiquitous Mapping (Chair: Takashi Morita) and the Commission on Maps and the Internet (Chair: Michael Peterson). The ICA Commissions were formed in 1999 and 2003 respectively in response to the rapid growth in the use of electronic networks to make and distribute maps and spatial data, as well as rapid diffusion of new mobile devices. It was the 3rd workshop after Tokyo (2004) and

Seoul (2006), that provided a good opportunity to have a US experience especially because this is where the world famous systems, such as Google Earth and iPhone, were created and used extensively. We discussed questions of globalization and localization of UPIMap in context of different cultures and environments for systems, as well as the advances of new concepts and technologies (ubimap.net/upimap2008/).



Jean McKendry, CaGIS Board, with Takashi Morita

We are very grateful to Timothy Trainor, Vice President of ICA, for his excellent opening speech and to Dr Jean McKendry, CaGIS Board, for her continuous enthusiasm in supporting the workshop.

Takashi Morita | Chair | ICA Commission on Ubiquitous Mapping | Japan

Participants of the 3rd International Joint Workshop UPIMap2008 in Shepherdstown, West Virginia, USA



Cartography on Early Warning and Crisis Management

Workshop in Shepherdstown, West Virginia, USA

The ICA Workshop on Cartography in Early Warning and Crisis Management was organized at AutoCarto 2008 Conference, 10 September 2008, in response to a kind invitation by the Cartography and Geographic Information Society (CaGIS), especially by Prof Keith Clarke, John Kelmelis, Michael Finn, Lynn Usery, Aileen Buckley, Harold Moellering and Timothy Trainor (Vice President of ICA and Vice Chair of the Workshop). It was prepared by the ICA Working Group (WG) on Cartography on Early Warning and Crises Management with participation from the ICA Commission on Cartography and Children. The Workshop focused on the development of ontologies and standardization of early warning for risk and vulnerability mapping, possibilities and potentials of cartographic modeling and application of various analytical techniques for early warning and crisis management. Another theme under discussion was the improvement of navigation maps for children. Two keynotes were presented, first by Paul Bartel (USA) *Situational Awareness, Information and Analysis of Complex Humanitarian Emergencies*, second by Milan Konecny (Czech Republic) *Cartography and GI Research Agenda for Early Warning and Crises Management*. Other papers included presentations by Daniel Cotter (USA) *Homeland Security Mapping Standard - Point Symbolology for Emergency Management*, Temenoujka Bandrova (Bulgaria) *Creating and Updating of Navigation Maps for Children Purposes (in crises situations)*, Mr Christophe Lienert

Participants of the Cartography in Early Warning and Crisis Management Workshop in Shepherdstown, West Virginia, USA



(Switzerland) *Real-Time Data in Operational Hydrology - Ways of Visualizations in an Online Cartographic Application*, David Danko (USA) *Metadata and Standards for Crises Management* and Joshua Commenetz (USA) *Planning for an International Pop@Risk Geo-Demographic Database*.

Following the paper session, a round table was organized with all participants and chaired by Harold Moellering (USA). The topics of discussion included:

- state of cartographic modelling incorporating modern information and communication technologies, including the role of mobile and alternative mapping technologies, in early warning and crises management of natural (tsunamies, fires, floods, etc.) and anthropogenic disasters (epidemics - avian flu, cholera, etc.)
- current global, regional and local initiatives in early warning and crisis management
- paradigms of action
- exchange of best practices for activities in the field such as aid and disaster relief, interoperability and standardization of approaches using Web, Internet and mobile tools
- avoidance of shortcuts in crises situations – methodology, experiences, perspectives
- sharing and standardizing data on material reserves and potential human provisions, e.g., strengthening Spatial Data Infrastructures to meet users' needs in crisis situations
- exchange between current OGC/ISO activities and crisis management including catalogue services, effective data retrieval and management

One of the topics covered by the Workshop was map symbology which created synergies with our American host US Fish & Wildlife Service, National Conservation Training Center. The participants had the possibility to visit the library where they could browse several maps and brochures dealing with preservation of

wildlife and natural habitat. On 19 November 2008, the US Fish & Wildlife Service received seven awards from the Interior Department for energy conservation and sustainability projects, a true testimony for their excellent work. During the presentation ceremony held in Washington DC, Deputy Interior Secretary Lynn Scarlett called the awards "the equivalent of the Department's Environmental Emmy awards."

Participants of the Workshop highly praised the opportunity for exchange of ideas between researchers and specialists to solve real problems in real emergency situations. It was agreed that the discussions will continue in Prague at the Symposium of ICA Working Group on Cartography in Early Warning & Crises Management in Prague, Czech republic, 19-22 January 2009 (c4c.geogr.muni.cz).

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

Census Cartography

cartography.tuwien.ac.at/ica/workinggroups/census/

New ICA Working Group on Census Cartography

The ICA Executive Committee approved terms-of-reference for a new Census Cartography Working Group at its February 2008 Executive Committee Meeting in Vienna, Austria. Tim Trainor from the US Census Bureau is chairing the WG. The first event, a two-day *Census Summit*, was organized and planned by ESRI and the ICA Census Cartography WG prior to the 2008 ESRI International User Group Conference. Approximately 45 registrants from around the world participated in the *Summit*. Richard Leadbeater and Dr Carmelle Terborgh from ESRI and Tim Trainor from the ICA organized eight sessions on a variety of topics of importance as nations prepare for censuses prior to and following 2010. Dr Paul Cheung, Director of the UN Statistics Division gave the keynote address in which he emphasized the need for a global data infrastructure that includes statistical data and related boundaries from national censuses and surveys. Other sessions focused on a set of diverse topics including:

- mobile GIS and data collection
- census data processing
- dissemination of census information
- statistical analysis and communication of census data
- a census data model

A second *Census Summit* is planned in conjunction with the 2009 ESRI International User Conference.

Timothy Trainor | Chair | ICA Working Group on Census Cartography | USA

reports cartographic meetings and events

4th Cartographic Science Congress and XI National Cartography Week

During the last week of June 2008, the 4th Cartographic Science Congress and XI National Cartography Week took place. It was organized by the Asociación Centro Argentino de Cartografía (Argentine Cartography Center Association), the Argentine representative body to the ICA, at the Instituto Geográfico Militar of Argentina (Argentine Military Geographic Institute) premises.

The Congress attracted 315 participants and special members from various organizations and institutions that either directly or indirectly engage in cartography, including representatives from ICA and many South American countries such as Brazil, Chile, Colombia, Uruguay and Venezuela.



Congress participants at the Instituto Geográfico Militar of Argentina, Buenos Aires

The Pre-Congress programme offered the following activities:

- three 2-day training courses, i.e. *Geographic data bases and IDE, Maps on the web-Map Server and Post GIS and GPS-GNSS Updatings*
- one updating seminar *GIS as an integrating tool for territorial planning and legislation technical support: Institutional support*
- 2nd Teaching Training Conference (CCC) directed at elementary and secondary level teachers

The technical sessions spanned between 25-27 June. 29 reports and 14 posters were presented, together with four technical and commercial exhibitions and nine institutional and commercial stands.

Pablo Gran, Vice President of the ICA, talks about the Association and the upcoming ICC2009 in Chile



Awards in two categories. In the Scientific Career and Cartographic Technology category the award was presented to María Adela Igarzabal de Nistal and in the Junior Researcher in the Cartographic Area category to Eugenia Mariana Wright. At the end of the ceremony, we all participated in a cocktail party.

Before the closing ceremony and the reading of conclusions, a Plenary Meeting took place where the audience exchanged ideas and approved nine decisions that will be sent to the appropriate organizations and institutions as suggestions.

Business companies, organizations and institutions have collaborated to make the meeting shine by sending their delegates, making donations of products and materials for the Teaching Training Conference and granting the support and sponsorships for the event.

Ana Maria Garra | Asociación Centro Argentino de Cartografía | Argentina

Quincentenary of the 1508 Montalboddo Map of Africa

On 24 August 2008, the South African National Committee for the ICA, in collaboration with the Chief-Directorate of Survey and Mapping of the South African Department of Land Affairs, celebrated the quincentenary of the Montalboddo Map of Africa of 1508. This special event took place in Cape Town and was also attended by the President of the ICA, Prof William Cartwright.



1508 Montalboddo Map, the oldest known printed map of Africa

The Montalboddo Map is the oldest known printed map of Africa as a separate continent instead of being depicted as part of the world map. The name of the map is derived from the fact that it was first printed in Milan, Italy in 1508 in a book edited or compiled by the Italian monk Fraacanzano Montalboddo. The Latin edition of the book is the only one boasting a map of Africa. The map was drawn a mere nine years after Vasco da Gama had circumnavigated the southern tip of Africa to reach India and is the oldest known map of

Africa as depicted by the western world. Although the African outline on the map is crude, it is easily recognizable. The fact that the rare book in which the map was published was unavailable in South Africa, was overcome by obtaining a high-resolution digital scan, courtesy of the British Library.

At the celebratory event an enlarged, framed print of the Map was presented to the Minister of Land Affairs who was represented by the Director-General of the Department, Mr Thozzi Gwanya. The Deputy Director-General for Land Planning and Information, Dr Nozizwe Makgaleme, also addressed the meeting whereafter the Chair of the ICA Commission on the History of Cartography, Prof Elri Liebenberg, provided a brief presentation on the importance of the Montalboddo Map in the development of the mapping of Africa.

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

GeoCart'2008 National Cartographic Conference

Cartography, GIScience and... Geospatial Vision

The 4th National Cartographic Conference GeoCart'2008 convened at The University of Auckland, New Zealand, on 1-3 September 2008. For the first time, the Spatial Information Research Centre (SIRC) at the University of Otago organised their 20th Annual Colloquium SIRC 2008 in conjunction with GeoCart'2008. The Conference was endorsed by the International Cartographic Association and gathered over 70 cartographers and GIScience experts from New Zealand and overseas, including Australia, Austria, Croatia, Poland, Russia, Slovenia, Switzerland, Thailand and USA.

The programme delivered 45 keynote, paper and poster presentations coupled with the National Cartographic Exhibition, GeoExpo'2008, a commercial exhibition, and a rich social programme, including a Gala Dinner featuring a rock concert courtesy of Prof Mark Gahegan (University of Auckland) and David DiBiase (Pennsylvania State University, USA).

GeoCart'2008 keynote speakers and acclaimed guitarists Mark Gahegan (front left) and David DiBiase (front right) entertain guests at the Conference Gala Dinner rock concert | Photography Marney Brosnan





A silhouette of Roger Smith from Geographx NZ Ltd against a relief map of northern Italy produced for the EARTH Millennium World Atlas, one of the GeoCart'2008 presentations in Auckland | Photography Piotr Martynski

The highlight of the Conference was a keynote address by the President of the International Cartographic Association Prof William Cartwright (RMIT University, Australia). His talk on the role of geographical information communication in Web 2.0 sparked a lot of discussion amongst the participants.

Prof Mark Gahegan's opening keynote address *Mapping Knowledge: Representing and visualising conceptual understanding in the geo-realm* was very well received and left the attendees with plenty to think about. With cartography well and truly having embraced the digital age, it was a pleasant reminder of the heritage of our profession when Prof Lorenz Hurni (ETH Zurich, Switzerland) was talking about relief shading for the new Swiss school atlas. In testing they tried to match Eduard Imhof's original 1950's hand shaded plates, rescanned - it just goes to show sometimes it is difficult to improve on excellence! David DiBiase on the other hand, invited us all into a virtual classroom of distance learning and shared his experiences with regards to

Sarah Rickards and Tim Nolan at GeoSmart NZ Ltd commercial stand, GeoExpo'2008 | Photography Marney Brosnan



performance and attitudes of undergraduates and adult professionals in an online course in Geographic Information Science and Technology.

GeoExpo'2008 attracted a good array of exhibitors, with Geographx NZ Ltd plastering the walls with beautiful maps, and GeoSmart NZ Ltd providing thought provoking demonstrations of their geospatial technology. The National Cartographic Exhibition attracted very few, but quality entries from leading domestic cartographers and mapping companies.

The internationally reviewed Conference proceedings *Geospatial Vision: New Dimensions in Cartography* were edited by Antoni Moore (University of Otago) and Igor Drecki (University of Auckland) and published in the prestigious *Lecture Notes in Geoinformation and Cartography* series by Springer Verlag.

Tim Nolan and Igor Drecki | New Zealand Cartographic Society Inc | New Zealand

AutoCarto 2008

The US Fish and Wildlife Service's National Conservation Training Center was a venue of the well established AutoCarto 2008 Conference, 8-11 September 2008 in Shepherdstown, West Virginia, USA.

The International Cartographic Association was very well represented at the event. Milan Konecny, Past President of the ICA, discussed current situation of the Association using special presentation prepared together with William Cartwright, President of the ICA. The Conference programme included several workshops of the ICA Commissions. They were

organized under the leadership of their respective Chairs and included:

- 3rd International Joint Workshop on Ubiquitous, Pervasive and Internet Mapping, ICA Commissions on Ubiquitous Mapping and Maps and the Internet, chaired by Takashi Morita and Michael Peterson respectively
- Commission on Map Projections Workshop, chaired by Daniel Strebe
- Workshop on Cartography in Early Warning and Crisis Management, chaired by Milan Konecny

Other ICA Commissions including Cartography and Children (represented by its Co-chair Temenoujka Bandrova) and Geospatial Data Standards (represented by Hal Moellering and David Danko) were also present.

Members of the ICA Executive Committee Georg Gartner and Milan Konecny participated in the meeting of the US National Committee (USNC) to ICA, chaired by its President Lynn Uesry with Cindy Brewer (Past President) and Aileen Buckley, President of the Cartography and Geographic Information Society also attending. Timothy Trainor, Vice President of the ICA, participated in the meeting via video link. The discussions between ICA and USNC were fruitful identifying new projects, possible common business and events.

Milan Konecny | Past President of ICA | Czech Republic

5th International Symposium on LBS & TeleCartography

The 5th International Symposium on LBS & TeleCartography took place in Salzburg, Austria, 26-28 November 2008. It was jointly organized by Salzburg Research and Vienna University of Technology.

Karl Rehr, the local organizer from Salzburg Research opens the Conference | Photography Salzburg Research



More than 50 presentations provided a general overview of research activities related to location based services. These activities have emerged over the last years, especially around issues of positioning, sensor fusion, spatial



The symposium took place at Salzburg Residenz, a former royal residence built in the 16th century | *Photography Salzburg Research*

modeling and cartographic communication, as well as in the fields of ubiquitous cartography, geo-pervasive services, user-centered modeling, and geo-wiki activities. The innovative and contemporary character of these topics has led to a great variety of interdisciplinary contributions, from academia to business, from computer science to geodesy. Topics covered an enormous range with heterogeneous relationships to the main issues. Whilst contemporary cartography aims at looking at new and efficient ways for communicating spatial information, the development and availability of technologies like mobile networking, mobile devices or short-range sensors lead to interesting new possibilities for achieving this aim. By trying to make use of available technologies, cartography and a variety of related disciplines look specifically at user-centered and context-aware system development, as well as new forms of supporting wayfinding and navigation systems.

The contributors presented their work in the following sessions:

- Modeling
- Awareness and TeleCartography
- Wayfinding
- LBS Showcases

LBS companies and developers presented their devices in the LBS showcase session | *Photography Salzburg Research*



- Positioning
- LBS in Practice
- LBS Applications
- LBS Studies
- LBS Ideas

Selected papers of the conference were published in a book in the *Lecture Notes on Geoinformation and Cartography* series by Springer entitled *Location Based Services and TeleCartography II – From Sensor Fusion to Context Models*. More information about the Symposium can be found online at www.lbs2008.org.

Georg Gartner | Organizer | International Symposium on LBS & TeleCartography | *Austria*

10th Hellenic Cartographic Society Conference

The 10th Hellenic Cartographic Society Conference was held in the northern Greek city of Ioannina from 12 to 14 November 2008. Committed to regularly visiting every regional centre in Greece, the conference was attractive to local cartographers from the province of Epiros. The Society reflects the dynamic nature of academic cartography in Greece, but no academic study of cartography takes place in Ioannina. Instead many local planners, environmentalists, historians, students and educators joined the strong participation from elsewhere in the country, to produce an intensive and interesting meeting in a fine setting and with excellent organisation.

Being close to international boundaries, the conference had sessions on borders and their geographical influence and representation. In

addition, there were sessions on the links between cartography and archaeology, geological cartography, historical issues, toponymy, and digital cartographic modelling.

At a ceremony marked with virtuoso Epiros music, honorary memberships of the Society were presented to Prof Carlo Monti (University of Milan), Dr Ioannis Alavanos (President, Technical Chamber of Greece), and Prof Ferjan Ormeling (past Secretary General of ICA, and Emeritus Professor at the University of Utrecht). Such awards highlight the strong and open research, administrative and educational links between the Society and the international world of cartography.

David Fairbairn | Newcastle University | *UK*

ISO/TC 211 Activities

ISO/TC 211 is the International Organization for Standardization's Technical Committee developing standards for Geographic Information/Geomatics. The following is a brief report of the ISO/TC 211 activities since they were last reported on in the ICA News No 49, in December 2007.

ISO/TC 211 has now published 29 International Standards, six Technical Specifications and three Technical Reports (see www.iso211.org). Over the last year, the following were published:

- ISO 6709:2008, *Standard representation of geographic point location by coordinates*
- ISO 19101-2:2008, *Geographic information – Reference model – Part 2: Imagery*
- ISO 19119:2005/Amd 1:2008, *Geographic information – Services – Amendment 1*
- ISO 19141:2008, *Geographic information – Schema for moving features*

Of particular interest to the cartographic community might be ISO 6709, a complete revision of the original standard (published in 1983), that extends it and provides more rigour. It aims at the efficient interchange of data about geographical point locations, including details of the representation of coordinates.

New projects that have commenced over the last few months are:

- Revision of ISO 19125-1:2004, *Geographic information – Simple feature access – Part 1: Common architecture*
- Revision of ISO 19125-2:2004, *Geographic information – Simple feature access – Part 2: SQL Option*
- Amendment of ISO 19131:2007, *Geographic information – Data product specification*
- ISO 19152, *Geographic information – Land Administration Domain Model (LADM)*
- ISO 19153, *Geospatial Digital Rights Management Reference Model (GeoDRM RM)*
- ISO 19154, *Standardization Requirements for Ubiquitous Public Access*

ISO 19152 will provide a reference model catering not only for formal cadastres and land ownership, but also for social tenure and other informal land administration. ISO 19153 will define the conceptual framework and rights model for future standards for digital rights management for geospatial data sets and services. ISO 19154 is not developing a standard at this stage, but will clarify the requirements for standards needed for ubiquitous public access, that is, providing access to one's required geospatial information anytime and anywhere, regardless of the hardware or communication method used, and allowing any user to use the geospatial information, whether or not they have any in-depth knowledge of geospatial information.

The 26th Plenary was held in Copenhagen, Denmark, on 29 and 30 May 2008, preceded by Working Group, Project Team and other meetings. A highlight was the *ISO Workshop on address standards: Considering the issues related to an international address standard*, held on 25 May 2008, which featured presentations from various countries and international organizations developing address standards. An address should be considered more broadly than just a set of directions for delivering post or for courier services – it is also used for a wide range of other public and private services. More information can be found at www.isotc211.org/address/address.htm.

The 27th Plenary is scheduled for Tsukuba, Japan, on 4 and 5 December 2008, and the 28th Plenary for Molde, Norway, on 28 and 29 May 2009.

Antony Cooper and **Dave Danko** | ISO/TC 211
Liaisons to the ICA | *South Africa / USA*

Professor Fraser Taylor Elected Fellow of the Royal Society of Canada

Professor Fraser Taylor has been elected a Fellow of the Royal Society of Canada. He is the first cartographer to achieve this honour.

Prof Taylor was elected President of the International Cartographic Association in 1987, having served three years as Vice President since 1984. He was again elected President for a further 4-year term of office in 1991. In 1999, to recognise his outstanding contributions to the Association, Prof Taylor was elected an Honorary Fellow of the ICA. As well, Prof Taylor has represented the ICA on Joint Boards. In 1989 he was elected President of the International Union for Surveys and Mapping and in 2004 he was appointed a member of the Joint Board of the Geospatial Information Societies.

His innovative and ground-breaking research in the fields of cartography and geography have



Professor Fraser Taylor

set an agenda for research initiatives in these research communities. His research publications have provided key theoretical knowledge that has served as the 'tipping point' that has set research directions for contemporary cartography and geographical information access and representation.

Prof Taylor has undertaken research and development and published in areas where his expertise is internationally recognised, namely:

- The application of geomatics to socioeconomic development in a national and international context with special reference to the Canadian North, Africa, Latin America, China and Antarctica
- The theory and practice of Cybercartography
- Electronic atlases, interactive cartographic systems and visualization
- The preservation and archiving of geospatial data
- Mapping for the blind and visually impaired
- Regional and rural development theory and practice with special emphasis on sustainable development and indigenous development strategies in Africa and Latin America
- Canada's international policies towards developing nations

As well, he was appointed member of the Advisory Board for Volume Six of the History of Cartography Series, University of Chicago Press in 1999, as Series Editor of the book Series entitled *Modern Cartography* published by Elsevier Science in 1991 and Editor, *Progress in Contemporary Cartography Series*, Wiley & Sons in 1980.

Prof Taylor is currently on the International Steering Committee for the *OneGeology Project*, an initiative of the geological surveys of the world to create a digital geological map of the world for the International Year of the Planet Earth. He is also Chair of the International Steering Committee for Global Mapping, an international project by world national mapping agencies of the to produce a 1:1 million digital map of the world to support environmental and sustainable development decision-making. This work supports international collaboration and decision-making by ensuring that appropriate, current and timely geospatial information is available.

He has contributed to regional cartographic and geographical activities, particularly the application of geomatics to socioeconomic development in a national and international context with special reference to the Canadian North, Africa, Latin America, China and Antarctica. He has also advanced regional and rural development theory and practice with special emphasis on sustainable development and indigenous development strategies in Africa and Latin America.

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

At Carleton University, Prof Taylor's research achievements have been recognised by a number of prestigious appointments. In 2002-2003 he was appointed Chancellor's Professor, which recognised outstanding researchers at Carleton. In 2003 he was made Professor Emeritus and for 2003-2006 appointed Distinguished Research Professor in Geography and Environmental Studies, a category reserved for outstanding active researchers after retirement. He was reappointed Distinguished Research Professor for 2006-2009, and recently reappointed to 2011.

The International Cartographic Association congratulates Professor Taylor on his election to Fellow of the Royal Society of Canada.

William Cartwright | President | ICA

calendar

january 2009

19-22: **Joint Symposium of ICA Working Group on Cartography in Early Warning & Crises Management and JBGIS Geo-information for Disaster Management** | Prague | Czech Republic | c4c.geogr.muni.cz

february

10-13: **Map World Forum** | Hyderabad | India | www.mapworldforum.org

11-13: **Location Summit 2.0** | Hyderabad | India | www.locationsummit.com

11-15: **Workshop on Mapping Different Geographies** | Puchberg / Schneeberg | *Austria* | www.univie.ac.at/cartography/mdg/
 16-17: **ICA Symposium on Cartography for Central and Eastern Europe** | Vienna | *Austria* | cartography.tuwien.ac.at/cee2009/

march

03-05: **Contribution of Geovisualization to the concept of the Digital City** | Hamburg | *Germany* | www.geovisualisierung.net/geoviz_hamburg/

april

13-16: **Seminar on Generalization of Spatial Information** | Dagstuhl | *Germany* | *ica*.
ign.fr/dagstuhl2009/seminar.php

14-16: **Map Middle East 2009** | Dubai | *United Arab Emirates* | www.mapmiddleeast.org

may

20-22: **Joint Urban Remote Sensing Event 2009** | Shanghai | *China* | www.urban-remote-sensing-2009.org.cn

25-29: **2nd International Conference on Earth Observation for Global Changes EOGC2009** | Chengdu | *China* | www.eogc2009.com.cn

june

29-05 July: **InterCarto 15** | Perm / Gent | *Russia* / *Belgium*

july

12-17: **23rd International Conference on the History of Cartography** | Copenhagen | *Denmark* | www.ichc2009.dk

august

06-07: **3rd ICA Workshop on Geospatial Analysis and Modelling** | Gävle | *Sweden* | www.hig.se/~bjg/ica2009/

18-20: **Map Asia 2009** | Singapore | *Singapore* | www.mapasia.org

24-28: **ICA Symposium True 3D in Cartography** | Dresden | *Germany* | kartographie.geo.tu-dresden.de/true3Dincartography09/

october

08-09: **Meeting of the ICA Commission on National and Regional Atlases** | Algiers | *Algeria*

november 2009

15-21: **24th International Cartographic Conference** | *The World's Geo-spatial Solutions* | Santiago | *Chile* | www.icc2009.cl

september 2010

23-27: **7th ICA Mountain Cartography Workshop** | *Mountain Mapping and Geospatial Information Retrieval* | Borsa | *Romania* | www.mountaincartography.org/activities/workshops/

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.edamatmil@ea.mde.es

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

East View Cartographic | *United States of America* | www.cartographic.com
 Attn: Mike Candy | mcandy@cartographic.com

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

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

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

Indian National Cartographic Association (ICA) | *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 | *United States of America* | www.intergraph.com
 Attn: Florence Smith | florence.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 for Geodesy and Cartography | *Russia* | www.miigaik.ru
 Attn: Professor Malinnikov, Rector | lgm@miigaik.ru

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

Navionics Hydrographer | *Italy* | www.navionics.com
 Attn: Cdr (ret) Guglielmo Mammucari | mammucari@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.rcmr.org
 Attn: Dr Wilbur K Ottichilo, Director General | rcmr@rcmr.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: Assoc Prof Dr S Gospodinov, Dean

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 2007 winners



Svitlana
Moskalenko | 14
| *Merry Dancing* |
Secondary School
No 2: Bashtanka |
Ukraine

Katarzyna Fojcik | 11 | *Music Joins Us* | Szkoła Podstawowa Nr 1 im Adama Mickiewicza: Marklowice | Poland

Samuel Zúñiga Vélez | 9 | *I Want an Equal World For All* | Colegio San Ignacio de Loyola: Alcalá de Henares | Spain

Marta Londzin | 13 | *We Have Different Colours of Skin, But We Are All Children* | Szkoła Podstawowa Towarzystwa Ewangelickiego: Cieszyn | Poland

Alexandra Gavin | 11 | *Many Nations, One World* | St Hughs Primary School: Timperley, Cheshire | United Kingdom

