



## president's report



### Dear Colleagues

It is my pleasure to address you as newly elected president of the International Cartographic Association (ICA). This is simply because I am personally excited about the discipline of cartography and the role an organization like ICA can play. I see Cartography as a discipline of high relevance to society. Maps are underpinning decisions, either on individual or collaborative level, they allow the understanding of patterns, trends and complex phenomena. Cartographic products are used as interfaces between models of phenomena of all kind and human activities and can very often also be seen as attractive artefacts. A world without maps would leave us somewhat

"spatially blind". The importance of maps and cartography is being detected more and more by decision makers and, for example, has been taken on board by the United Nations in their Global Geospatial Information Management Initiative.

As the work of cartographers is relevant and plays an important role in modern society, the cooperation and coordination of their efforts is equally relevant. This is the core aspiration of our Association as I see it. When we look back on ICA's successful history of more than 50 years we can also appreciate how it has developed into a global player in the domains related to geospatial information management. What ICA is offering us today is the uniqueness of an international forum for all with an interest and passion for cartography. It allows us to share and exchange our experiences, competencies, solutions, ideas and vision. It is

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## ica awards 2011

The International Cartographic Association (ICA) has instituted a number of awards for outstanding service to the ICA and to cartography generally. At the closing ceremony of the 25th International Cartographic Conference in Paris, France, the following awards were presented:

- The ICA Honorary Fellowship to **Professor Yasuo Masai** (Japan)
- The ICA Honorary Fellowship to **Dr Monique Pelletier** (France)
- The ICA Honorary Fellowship to **Professor Michael Peterson** (United States of America)



### Citation for Professor Yasuo Masai

Professor Yasuo Masai was born in 1929 in Tokyo. He studied geography at Tokyo Bunrika University (presently University of Tsukuba) and there he was awarded a masters degree (1953) and a doctoral degree (1962) in science. Before receiving his doctorate, he had studied in the USA at the Michigan State University, where he was awarded a PhD in geography in 1960. He is Professor Emeritus at the Ritssho University, where he has taught geography for 16 years. His previous appointments included the Ochanomizu University for 10 years and the University of Tsukuba for 9 years.

Professor Masai was Chair of the International Cartographic Association (ICA) Commission on Urban Cartography from 1980 to 1987. He organized numerous Commission meetings in Düsseldorf (Germany), Sofia (Bulgaria), Tokyo (Japan), Perth (Australia) and other cities. He was also a member of the ICA Awards Committee from 1994 to 1997. He served as a national delegate of Japan at many ICA conferences. He was president of the Japan Cartographers Association from 1993 to 2000, and he became an honorary member in 2007.

Professor Masai has published many books as an author or editor, including the *Atlas of Tokyo* (Heibonsha), *Travels with Urban Maps* (Hara-shobo), *Atlas of the World* (D Kindersley, Japanese edition), and others. One of his major academic contributions is the 1:20,000 *Restored Urban Land Use Map of Edo* (the old name of Tokyo as the feudal capital of Tokugawa Japan). This is

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Professor William Cartwright delivers a keynote address on behalf of the JBGIS at the First High Level Forum on Global Geospatial Information Management in Seoul, South Korea | *Photograph courtesy of William Cartwright*



Today's world puts more and more pressure on people working in many professions. This is also true for us cartographers.

Although there were always pressures in commercial and military cartography, these days they seem to be more intense and have spread further to include academic and experimental cartography. Universities and research institutes are subject to similar economic and performance requirements as industry, so all cartographers find themselves in the same boat.

But what is the consequence of these developments? How should we cartographers respond to these pressures? Some decision-makers want us to achieve the best outcome within certain (usually financial or temporal) constraints. Their argument is "80% quality in 20% of the time". But is this argument not an encouragement to 'cut corners' in our work and a recipe for mediocrity? How can we measure the quality of a map in percentages? How can a map serve its purpose with 80% of its potential? In considering responses to this dilemma, I believe we should not be satisfied with mediocrity. Mediocrity is simply not an option for a cartographer for whom professionalism, dedication and work ethics are the most important values. We are obliged to deliver the map that meets its purpose entirely, every time; there is no room for cutting corners for whatever reason. Mediocrity is quite simply the enemy of our integrity and leaves no room for professional pride and satisfaction.

This is the first issue of ICA News in the new 2011-2015 term and – what a start! 36 pages of exciting articles and reports, clear evidence of ICA's health and vitality. Apart from many familiar features, we have the first report from our new President Georg Gartner and interesting biographies of the recent ICA Honorary Fellowship awardees. We also introduce the new Executive Committee and comprehensively cover ICC 2011, held in Paris. As always, I am thankful to everyone for their wonderful contributions, and many constructive and encouraging comments.

Igor Drecki | Editor ICA News | ICA ●

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

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## president's report cont...

obvious that the importance of international organizations is growing in the age of globalization and this will necessitate the ICA Executive to harness the opportunities and prepare our organization for these developments.

One of the most important instruments of ICA in this context are the International Cartographic Conferences (ICC), which take place every second year. The most recent one, ICC 2011, was organized by our French colleagues of the Comité Français de Cartographie, namely by Anne Ruas, Hélène Richard and François Lecordix. The event took place at the Palais de Congrès in Paris, 3-8 July 2011, and brought a multitude of presentations, discussions, exhibitions and accompanying events. A great variety of relevant topics has been addressed and many excellent papers have led to stimulating ideas and ongoing discussions. The ICC 2011 has seen new ideas being taken on board like the new publication regime involving special issues of the ICA affiliated journals and a book of selected contributions in the Springer's *Lecture Notes on Geoinformation and Cartography* series. Events like the Meridian Walk and the Young Scientist Speed Presenting have enriched the conference. The Map Exhibition has again seen a variety of excellent maps and cartographic products. The winners are already being featured on the ICA website in the *ICA Map of the Month* section (see [icaci.org/map-of-the-month](http://icaci.org/map-of-the-month)). Preparing and organizing an event of this size always includes some risks, as decisions have to be made way ahead of the event itself. It is therefore on all of us to thank those who undertake countless efforts in preparing and running such conferences and also taking risks to make it happen. To our French colleagues, *Merci beaucoup!*

The 15th General Assembly of ICA held in conjunction with ICC 2011 has seen the change of the EC. The most successful presidency of Professor William Cartwright has come to an end. As ICA's President he was always a professional and charming face of ICA and steered the organization towards much needed modernization in several areas. New developments have been taken on board, including a new publication regime for the

ICC's, a relaunch of the ICA newsletter due to the excellent cooperation with ICA News Editor Igor Drecki, a new design of the ICA website with the help of Webmasters Manuela Schmidt and Felix Ortog, the publication and dissemination of the Research Agenda with the help of Vice President Menno-Jan Kraak and the implementation of a new Strategic Plan, to name just a few. Professor Cartwright will continue his involvement with the Association as Past President and ICA's representative to the Joint Board of Geospatial Information Societies (current Chair). ICA will no doubt benefit from his experience and involvement with our sister societies on issues of mutual relevance in the years to come.

The position of the Secretary General and Treasurer is key to our organization. From 2007 to 2011, Dr David Fairbairn has worked tirelessly to help running an international organization like ours, keeping track of all requests, needs and issues. Being the "voice" of ICA in uncounted emails, letters, minutes and other documents, Dr Fairbairn was also always able to include a particular noble "tone" in his communications and thus contributing substantially to the image and standing of our organization on the international scene.

To both Bill and Dave, the ICA is most thankful for all the efforts, time and energy you have devoted to the Association. Thank you!

The terms of Vice Presidents Pablo Gran and Zhilin Li ended in 2011 as well. They contributed substantially to the discussions and decisions being made in the last four years. Past President Milan Konečný left the EC after an unbelievable 16 years of service and is an exceptional example of a serious commitment being found within ICA. He will continue his strong association with ICA as Chair of the ICA Commission on Cartography in Early Warning and Crisis Management for the next four years.

The new Executive Committee comprises members that come from all corners of the globe: Georg Gartner (Austria) as President, László Zentai (Hungary) – Secretary General & Treasurer, seven Vice Presidents – Anne Ruas (France), Derek Clarke (South Africa), Menno-Jan Kraak (The Netherlands), Tim Trainor (United States of America), Sukendra Martha

The ICA Executive Committee 2011-2015 at the ICC 2011 Closing Ceremony; (from left) Anne Ruas, Derek Clarke, Tim Trainor, Menno-Jan Kraak, Sukendra Martha, Yaolin Liu, Paulo Menezes, László Zentai, Georg Gartner and William Cartwright (behind Georg Gartner) | Photograph courtesy of László Zentai



# president's report cont...



ICA President Georg Gartner at the 30th General Assembly of the International Council of Science (ICSU), Rome, Italy | *Photograph courtesy of Georg Gartner*

(Indonesia), Paulo Menezes (Brazil) and Yaolin Liu (China), and William Cartwright (Australia) as Past President. All of those colleagues have already expressed their strong commitment to serve the ICA for the next four years.

The 15th General Assembly of ICA voted Rio de Janeiro, Brazil as the venue of the next General Assembly in 2015. It also welcomed our new national member Uruguay and new affiliate members: Association of Polish Cartographers (Poland), Chinese Society of Cartography (Taiwan-China), Land Information New Zealand (New Zealand) and the United Nations' Cartographic Section. Welcome to the ICA family!

At the ICC 2011 Closing Ceremony, three prestigious ICA awards were presented. Monique Pelletier (France), Michael Peterson (USA) and Yasuo Masai (Japan) were awarded the ICA Honorary Fellowships. My congratulations to these award recipients.

It is my pleasure to congratulate all winners of the Barbara Petchenik Children's World Map Award 2011. This competition has developed into a very well received event, engaging children all over the world, their teachers and their parents, and is therefore a wonderful example of the relevance and attractiveness of maps and mapping. Congratulations!

ICA counts on the strong commitment of the newly elected 28 Commission Chairs and their deputies. Exciting terms of references have been presented and we can all look forward to their activities. In order to steer ideas, actions and vision, a joint meeting of Commission Chairs was held in Vienna, 24-25 November 2011. Results of the meeting will underpin decisions and developments of the Association in the next four years. I see the Commissions as the "powerhouse" of the ICA and a key element of ICA's success. I would like to invite everybody to get involved and support this work! Both, EC members and Commission chairs have already become active after the ICC 2011 in Paris and you will find their reports in this newsletter. You might also wish to check out the ICA website for further information ([www.icaci.org](http://www.icaci.org)).

I have started my Presidential duties in a number of ways. Several communications with

the Local Organizing Committee of the ICC 2013 in Dresden, Germany led to a site visit and some early decisions with regards to organization of the event.

I represented ICA at the 19th Joint Cartographic Conference of Slovak and Czech Cartographic Societies held at the Slovenská Technická Univerzita in Bratislava, Slovakia between 8-9 September 2011. The well organized event brought together over 100 cartographers and served as a venue for a number of exhibitions, including entries for the ICA Barbara Petchenik Competition.

Between 14-16 September 2011 I represented ICA at the 7th Croatian Conference for Cartography and Geoinformation at Split, Croatia. This very well organized national cartographic conference attracted a significant international audience. The conference programme developed by Prof Miljenko Lapaine included a dedicated SDI day and cartography day, allowing for the mixing of participants.

At the 59th German Cartographic Conference in Nürnberg, Germany, 27-28 September 2011 I was able to contribute to a session dedicated to the 60th birthday of the German Cartographic Society. An important Memorandum of Understanding between ICA and OSGeo was signed by the OSGeo President Arnulf Christl and myself fostering a leading role for ICA in making use of the open source geospatial activities.

The 30th General Assembly of the International Council of Scientific Unions (ICSU) took place at the FAO Headquarter at Rome, Italy between 29-30 September 2011. Currently ICA is an associate member of the Union. The opportunity to address the General Assembly and meet with several colleagues from other scientific disciplines clearly demonstrates EC's drive to seek full membership to ICSU. The steps starting the process are already being taken.

The very active and lively Indian cartographic community gathered at the 31st Conference of Indian National Cartographic Association (INCA) in Chandigarh, India, 14-16 October 2011. Apart from a well received keynote presentation, several contacts with key players in the Indian cartographic community have been established, including promising ideas for further cooperation between India and ICA.

The First High Level Forum on UN Global Geospatial Information Management (UNGIM) took place in Seoul, South Korea, between 24-27 October 2011. This new high-level meeting bundles UN activities into "geo-domains" and, as it turns out, the participation in this development is without doubt crucial for the ICA. The Association enjoyed high visibility through prominent roles of the ICA executives. Past President William Cartwright delivered a keynote address at the opening session and was appointed member of the Extended Board of the UN Secretariat of GGIM in his role as current Chair of JBGIS. Vice President Tim

Trainor chaired a session and contributed to the statistical sessions. Former President Fraser Taylor contributed substantially to several sessions and documents. As a result the so-called *Seoul Declaration* on Global Geospatial Information Management was published ([ggim.un.org/](http://ggim.un.org/)).

On 10 November 2011 I was able to convey greetings on behalf of the ICA to the Austrian Cartographic Commission at their 50th Anniversary event in Vienna, Austria. Apart from the scientific symposium, a celebration of the 150th Anniversary of the Kozenn-Atlas of the Austrian Cartographic Publisher Ed. Hölzel was organized and well attended.

The benefit of a small geographical distance between Secretary General Prof László Zentai, who is based in Budapest, and myself led already to three intensive face-to-face meetings, where we discussed strategies and developed routines to address day-to-day operation of the Association. It is at this stage where I would like to express my thanks to Prof Zentai for his dedication and full commitment to his new role as Secretary General of the ICA. Apart from a number of duties, requests, plans and document handling, it was by far the most sorrowful duty to express our deepest sympathy to the family and Russian colleagues of the late Professor Nikolay Komedchikov, who passed away in Moscow on 24 October 2011.



ICA President Georg Gartner receives a gift from Director General of Survey of India at the INCA Conference in Chandigarh, India | *Photograph courtesy of Georg Gartner*

Let me finish with some final remarks. As Professor of Cartography at the Vienna University of Technology I have always felt privileged to be able to work in cartography, a discipline with so many interesting challenges and possibilities. It is that passion I would like to commit to the ICA during my Presidency. But since there are so many challenges and possibilities ahead, which might only be addressed successfully by joint effort, I am asking for your active support. I see cartography as a modern, relevant and attractive discipline and I am convinced that commitment to cartography pays off personally and professionally.

Georg Gartner | President | ICA ●

## President

**Georg Gartner** | Technische Universität  
Wien | *Austria*

## Secretary General & Treasurer

**László Zentai** | Eötvös Loránd University  
| *Hungary*

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*South Africa*

**Menno-Jan Kraak** | University of Twente  
| *The Netherlands*

**Yaolin Liu** | Wuhan University | *China*

**Sukendra Martha** | National  
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Mapping (Bakosurtanal) | *Indonesia*

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### Submission Deadlines

**15 May** for June editions

**15 November** for December editions

# ica awards 2011

cont...

a multicoloured printed map, scientifically converted from an old, geometrically imprecise map to a modern, accurate map to show land use coverage.

For his outstanding contribution to cartography and ICA, the Association is pleased to award its Honorary Fellowship to Professor Yasuo Masai.



### Citation for Dr Monique Pelletier

Dr Monique Pelletier was born in 1934. She is a graduate of the Ecole des Chartes (National School of Palaeography and Archival Studies), the French school created in 1821 which contributes to the professional training of executives (chief archivists, librarians and curators) responsible for preserving and making available France's cultural heritage.

Monique Pelletier obtained her diploma of Archivist Palaeographer after defending her PhD on the *Great Council from Charles VII to François I*. Her studies on the history of cartography are founded on her extensive knowledge of the French monarchy and its institutions in the XVI century, a particularly complex period in Europe history. Appointed as Conservator at the French National Library in 1960, she was first in charge of

developing the Book Catalogue of the Library (1960-1969). In 1976 she became Chief of the Department of Maps and Plans, and transformed her department into a modern and open map library, encouraging and participating in the research activity on the history of cartography. These activities pushed her to contribute actively to several international networks (IFLA, LIBER, IMAGO MUNDI and the ICA).

Within ICA, she succeeded Helen Wallis to lead the Commission of History of Cartography from 1987 to 1995. She also led the French Committee of Cartography from 1988 to 1998. Today as an Honorary Member of the Committee she is directing the publication of the journal *Le Monde des Cartes*. Always keenly involved in her research activities, she has participated in conferences, organised meetings and published many reports.

Her bibliography is lengthy and includes major volumes on cartographic development in France. It is summarized in a book produced for her retirement and focused on her career in cartography: *Monique PELLETIER Tours et contours de la Terre: itinéraires d'une femme au coeur de la cartographie* (Monique PELLETIER - *Rounds around the Earth: the itinerary of a woman in the heart of cartography*), 1999. Her most recent book is entitled *De Ptolémée à La Guillotière XV-XVIe siècles. Des cartes pour la France: pourquoi? comment? (From Ptolemy to La Guillotière, XV-XVI century: maps for France: why? how?)*, 2009.

For her outstanding merits in the field of cartography, the Association is pleased to award its Honorary Fellowship to Dr Monique Petellier.



### Citation for Professor Michael Peterson

Professor Michael P Peterson has an outstanding record as Chair of the ICA Commission on Maps and the Internet and has provided significant accomplishments to the ICA through his work with the Commission and his other scholarly activities.

Professor Peterson earned a Bachelors of Arts degree from the University of Wisconsin River Falls, a Masters of Arts from Boston University and PhD in geography from the State University of New York at Buffalo. He began as an Assistant Professor at the University of Nebraska at Omaha in 1982, advancing to Associate Professor in 1988 and Full Professor in 1997. During his tenure he has also held visiting appointments at the University of Washington (1984-1985), Fulbright Professor at the Freie Universität Berlin in Germany (1990-1991), Visiting Associate Professor at the University of Hawaii at Manoa (1995), Visiting Fellow at the RMIT University in Melbourne, Australia (1998), several appointments at the University of Applied Science in Munich, Germany (1999-2001) and at the Technische Universität Vienna in Austria (1999) where he taught classes in German, and Visiting Research Professor at Carleton University in Canada (2004). He has taught many classes in cartography and geography, as well as short courses on maps and the Internet and other cartography and geographic information science subjects.

His record of scholarly work includes book and atlas publications: *International Perspectives on Maps and the Internet* (2007), *Locational Based Services and TeleCartography* (2007, co-edited with W Cartwright and G Gartner), *Multimedia Cartography* (2nd ed. 2006, co-edited with W Cartwright and G Gartner), *Geographic Hypermedia: Concepts and Systems* (2006, co-edited with E Stefanakis, C Armenakis and V Delis), *Animated Atlas of Air Traffic over North America* (2006, with J Wendel), *Maps and the Internet* (2006), *The Online Method to World Regional Geography* (2003), *Urban Atlas of Omaha - 2002* (2002), *Interactive and Animated Cartography* (1995), and *A Computer Atlas of Omaha: Sixty Maps of Social and Economic Characteristics* (1985).

Professor Peterson has published numerous book chapters, encyclopedia articles, and research articles in refereed journals as well as conference proceedings, web pages, animated maps, and

# ica awards 2011 cont...

workshops. His scholarly record of research is outstanding. His professional service includes editorial boards of scholarly journals, editor of *Cartographic Perspectives*, vice-president and president of the North American Cartographic Information Society (NACIS), and Chair of the ICA Commission on Maps and the Internet (1999-2011). He has served on many review panels for organizations such as the United States National Science Foundation and served as reviewer for many journals and books. His existing awards include distinguished teaching from the United States National Council on Geographic Education, a Distinguished Service Award from NACIS, and cartographic awards from Rand McNally. He has an extensive grant award list beginning in 1983 and progressing consistently to the present.

Professor Peterson has an outstanding career in education research and service to the disciplines of cartography and geographic information science. His record of teaching accomplishments and awards, his excellent research particularly with topics of maps and the Internet, and his significant record of service to the his university, the discipline, and the ICA are exemplary of an ICA honouree.

Professor Michael P Peterson is awarded the ICA Honorary Fellowship Award for his outstanding contributions to the disciplines of Cartography and geographic information science and to the ICA through his work as Chair of the Commission on Maps and the Internet.

László Zentai | Secretary General & Treasurer | ICA ●

# icc 2015



The 16th General Assembly of the International Cartographic Association (ICA) and the 27th International Cartographic

Conference ([www.icc2015.org](http://www.icc2015.org)) will be held in Rio de Janeiro, Brazil in August 2015. These events are being organised by the Brazilian Society of Cartography. Professor Paulo Menezes from Federal University of Rio de Janeiro and current Vice President of ICA has been appointed the Conference Director.

László Zentai | Secretary General & Treasurer | ICA ●

## ica news map of the month 2011 exposé

[www.icaci.org](http://www.icaci.org)

The *Map of the Month* feature introduced on the ICA website ([icaci.org/map-of-the-month](http://icaci.org/map-of-the-month)) and in the *ICA News* is already two years old! Included below are two winning entries (January and February) from the International Cartographic Exhibition held at ICC 2009 in Santiago, Chile (unfortunately we were unable to present the remaining winners from Chile).

The other four entries, from September through to December, are the winners from this year's International Cartographic Exhibition held at ICC 2011 in Paris, France. Next year we will continue this feature and publish further winning maps from Paris.

Again, the maps presented below are testimony to the outstanding cartography that

encompasses the innovation, talent, creativity and dedication of cartographers and designers worldwide. We hope you find them inspirational in your cartographic endeavours.

Manuela Schmidt | Web Developer | ICA Website | ICA | [icawebsite@cartography.tuwien.ac.at](mailto:icawebsite@cartography.tuwien.ac.at) ●

january



**Cordillera Huayhuash (Perú)** | Austrian Alpine Club | Austria

february



**New School Maps of Greece** | Pedagogical Institute Greece | Greece

september



**The Beautiful Game** | Kenneth Field | United Kingdom

october



**Katmai National Park and Preserve** | US National Park Service | USA

november



**Jacaranda Atlas** | John Wiley & Sons | Australia

december



**Guide Map of Karaj Municipality Areas** | Gitashenasi Geographical & Cartographic Institute | Iran

# ica news

## 25 years ago...

Twenty five years ago, the Executive Committee of ICA seemed to be as busy as today. The country names have changed, the cocktail parties and banquets have disappeared from the meeting programmes, but the commitment and dedication of the EC members has not diminished at the slightest; the EC carries on with its important ICA work, stronger than ever...

Igor Drecki | Editor ICA News | ICA ●

ICA Newsletter, No 8, October 1986

### EXECUTIVE COMMITTEE MEETING HELD IN PRAGUE

The Executive Committee, EC, met in the Club of Technicians, House of Technology in Prague during the week of September 21 [1986]. The host of the meeting was Dr Ing. M. Miksovsky, Chairman of the Czechoslovak Scientific and Technical Society of Geodesy and Cartography. This annual meeting of the Executive Committee includes an EC meeting with each of the four Standing Commissions in an executive session that reviews their accomplishments for the year and charts their plans for the coming year.

The many hours of deliberation in executive session both by the EC and the four Standing Commissions were very rewarding. In addition, the Ad-hoc Commission on Tactual and Low Vision Mapping met in Prague. The Czech hosts provided a very intensive social schedule as well. The group of 65 attendees attended a theatre performance, had a city tour of Prague, and were treated to a cocktail party and a banquet. A tour of the Charles University and the Technical University gave visiting cartographers a chance to see the advanced education potentials in Prague. An exhibition entitled 'Czechoslovakia on Maps Yesterday and Today' was arranged at the National Technical Museum; old maps of the territory of Czechoslovakia were displayed at the Czechoslovak State Map Collection.

Following the ICA meetings, the Czechoslovak Committee on Cartography arranged a Cartographic Symposium at the same location. Many of the visiting foreign guests were asked to address the meeting and this enabled the cartographers of Czechoslovakia to meet and discuss their work with visitors from abroad. In total, 25 papers were presented in the one and one-half day program.

The Executive Committee wishes to publicly thank our Czechoslovakian hosts for inviting the ICA to meet in Prague and for the excellent organization of this meeting.

Joel L. Morrison / 21 October 1986

# ica news ica-osgeo memorandum of understanding

On 28 September 2011 at the 59th German Cartographic Conference in Nürnberg, Germany, the International Cartographic Association (ICA) and the Open Source Geospatial Foundation (OSGeo) have signed a Memorandum of Understanding (MoU) with the aim of developing on a global basis collaboration opportunities for academia, industry and government organizations in open source GIS software and data. The MoU aims to provide expertise and support for the establishment of Open Source Geospatial Laboratories and Research Centres across the world for supporting development of open-source geospatial software technologies, training and expertise. In the first phase five laboratories will be established, one each in Asia, Europe, Africa, the Americas and Australasia which will act as nodes for future expansion. It also aims to provide support for building-up and supporting development of open source GIS teaching and training materials, joint organization of open source GIS events and workshops through the ICA network for wider participation globally.

Professor Georg Gartner, President of the ICA, said: *The International Cartographic Association is committed to supporting society and governments by collaboratively facilitating initiatives and programmes that establish and grow the capacity to deliver timely, comprehensive and useful geospatial information. This MoU responds to the challenges and issues related to the use of open source cartographic and GI software and data. In considering this response, it is pertinent to note that ICA is interested in contributing to this initiative, and will champion the advancement of the initiative through their various individual and collaborative efforts.*

Arnulf Christl, President of OSGeo, said: *The Open Source Geospatial Foundation is committed to support and build the highest level Open Source geospatial technology. It is our pleasure to be able to serve as a platform and multiplier for the cartographic domain, an area which needs creativity beyond pure technology. This MoU intends to bridge the gap between technology and cartographic requirements and we very much look forward to work with members of the International Cartographic Association to improve this. A very much hands-on objective of this MoU is to jointly organize*

*walk-in events where cartographic professionals can access and use a set of software unencumbered by proprietary restrictions and vendor lock-in. Both organizations are also interested in supporting young academics by lowering the barrier to good cartography through collaborative efforts on both sides.*

Dr Suchith Anand, Chair of ICA Commission on Open Source Geospatial Technologies welcomed this excellent initiative: *This will be landmark opportunity for both OSGeo and ICA in building up synergies and bringing opportunities for lots of people worldwide to learn and benefit from geospatial technologies especially in developing countries. This will build upon the Open Source Geospatial Lab UK initiative started at the University of Nottingham. We are also pleased to announce that Open Source Geospatial Lab Malaysia is now being established by Dr Tuong Thuy Vu. We are pleased to see many Universities are rapidly following this example (such as University of Girona in Spain). Over the next few months we will be building collaborations with key Universities and research organisations worldwide for the establishment of Open Source Geospatial Research Laboratories and Research Centres for development of open-source geospatial software technologies, training, expertise and building up momentum in Open Source GIS education and research.*

This Memorandum of Understanding will be reviewed annually by both parties at which time revisions may be made and the agreement renewed.

Suchith Anand | Chair | ICA Commission on Open Source Geospatial Technologies | UK ●

Professor Georg Gartner (left), President of ICA and Arnulf Christl, President of OSGeo shake hands after signing the Memorandum of Understanding between the two organizations | Photograph courtesy of Georg Gartner



# profiles ica executive committee 2011-2015

On 8 July 2011, the second day of the 15th General Assembly of the International Cartographic Association (ICA) in Paris, France, member nations elected the new Executive Committee (EC) of the ICA for the 2011-2015 term. Its members represent all major regions of the world, from Africa to Europe and from Americas to Asia and Oceania.

Presented here are brief profiles of the newly elected EC members containing their vision for the ICA and what is "driving them" to be involved in the running of our Association. Professor **William Cartwright**, Past President of the ICA, is also member of the Executive. His profile has been published in *ICA News* No 49 (p 2), 2007, shortly after the 14th General Assembly of the ICA in Moscow, Russia. We hope these profiles give an insight of the people at the helm of ICA.

lászló zentai



I was interested in maps since my childhood, so my path into cartography was natural. Now I am Professor and Head of the Department of Cartography and Geoinformatics at the Eötvös Loránd University in Budapest. I specialise in teaching computer cartography, topographic maps and relief representation. I am a member and currently President of the Hungarian National Committee for ICA. My major international ICA activities included organization of three joint ICA Commissions' meetings in 1993, 2005 and 2011, and the Executive Committee meeting in Budapest in 2003. I am a member of the ICA Commission on Education and Training since 1999, a former Chair (2003-2007) and Vice Chair (2007-2011). I am an active orienteer and serve on the International Orienteering Federation's Council.

menno-jan kraak



Working with maps is my passion. As Professor at Twente University I teach about them and do research to find new cartographic representations to visualize time. Throughout my career, I have been active in professional organizations, first in the Netherlands only and later internationally. The ICA has been part of my professional life for a long time. I attended my first International Cartographic Conference in 1989. Since 1995 I have played a more formal role, first as Co-chair of the Commission on Visualization and since 2007 as Vice President of ICA. ICA brings me knowledge and a network of like-minded friends. What I try to bring to ICA is my (local) knowledge, my drive and energy to organize events, and enthusiasm to stimulate other (young) cartographers.

sukendra martha



ICA, as a professional and scientific international organization on cartography, is very interesting to me and worth being involved in. My studies, both in Indonesia and abroad, led me to completing degrees in Geography, Cartography and Remote Sensing. I am President of the Indonesian Cartographic Association (AKI) and Senior Researcher for Geography at the National Coordinating Agency for Surveys and Mapping (Bakosurtanal). I am also lecturing in the Postgraduate School of Geography at the Gadjah Mada University in Yogyakarta. My current Vice Presidency gives me the opportunity to engage myself in cartographic developments internationally by interacting with cartographers from all over the world and contributing my knowledge and experience to running and managing the ICA.

anne ruas



As Ingenieur in geomatics, I worked for the IGN France as a researcher and research director. My initial research interests were concerned with the scale change and automation of generalisation in particular. Since 2000 I expanded my research interests to include semiotics, spatio-temporal modelling and dynamics. I managed French projects on urban densification (GeoOpenSim) and currently on population and space growth (GeoPeople). I am working for the Institut Français des Sciences et Technologies des Transports (IFSTTAR) on urban geomatics. I strongly believe in the utility of research network to share knowledge, help young researchers to speed up their knowledge acquisition and strengthen research capacity. I think the ICA has the perfect size and structure for those purposes.

georg gartner



I am Professor of Cartography at Vienna University of Technology, Austria. I have always felt privileged working in cartography, a discipline with so many interesting challenges and possibilities. It is this passion which I would like to commit to ICA and my Presidency. I see cartography as a modern, relevant and attractive discipline, very gratifying personally and professionally. My experiences with ICA have proven to be rewarding, as I found it useful and stimulating to meet and cooperate with so many colleagues who share the passion and interest in cartography and maps. This was particularly true during my involvement in the Commission on Maps and the Internet and other Commissions, the ICA Executive Committee 2007-2011 and at the events like the International Cartographic Conferences.

derek clarke



I have been involved in cartography and geospatial information science for more than 30 years. My main interests are in the collection and representation of geospatial information for the optimal utilization of this critical information. More recently my focus has been the application of geospatial information in the development planning context and spatial data infrastructures. I am of the view that the ICA offers a good platform for cooperation and sharing of knowledge in the fields of cartography and geospatial information science. I hold a PhD and am professionally registered. I am active at the national and regional levels and am a member of the Global Advisory Committee of OGC. Organisationally I contribute a lot in governance.

yaolin liu



I am Chair Professor of GIS, Director of Ministry of Education Key Laboratory for GIS, and Dean of the School of Resources and Environmental Science at Wuhan University, China, which is regarded as China's base for cartography education. I am leading China's largest, longest, and most productive cartography and GIS program in the world's largest educational institute for surveying and mapping (formerly Wuhan Technical University for Surveying and Mapping), and have actively participated in the international cartographic community since 1990s. I have a family of cartographers and GIS specialists, which makes both my life and work cartography-centric.

paulo menezes



In 1977 I obtained an Engineer of Geodesy and Topography degree from the Brazilian Military Institute of Engineering, while working on several Amazonian mapping projects. I completed my MSc in digital cartography in 1987 and in 1994 I moved to the Geography Department at the Federal University of Rio de Janeiro. As Assistant Professor and Head of the Laboratory of Cartography, I was in charge of digital cartography, GIS, historical and thematic cartography programmes. In 2000 I completed my PhD in geography and took the position of Senior Professor. I am also a cartography consultant, working with private and government organizations. I am Vice President of the Brazilian Society of Cartography, Brazilian National Representative to ICA and ICA Vice President.

timothy trainor



As Chief of the Geography Division of the US Census Bureau, I am responsible for criteria and reference files for geographic entities in the United States, managing address and spatial data, fostering partnerships with other governments and commercial companies, mapping for data collection and dissemination operations, and standards development. I am passionate about the importance of statistical data to cartography and the agencies that collect the data in their NSDI role. I am actively engaged in topics such as data standards and infrastructures, crowdsourcing and VGI, visualization of statistical data, challenges for NMOs, a functional NSDI and effective data integration with thousands of partners. I also actively represent the ICA with the United Nations and PAIGH.

## agata ciolkosz-styk



My family home was always full of maps. As a young girl I liked to travel with my parents having a road atlas on my lap. Since then I became amazed how lines on maps turn into roads and symbols denote real objects. I realized that knowing the cartographic language the maps are constructed with leads to a better understanding of the surrounding world.

This desire for understanding the world, its environmental processes and human interactions, led me to study geography at the University of Warsaw. After graduating I decided to do my masters in cartography as I had a premonition that it would give me a broader perspective on geography and its various areas of specialisation. My masters thesis was devoted to Polish topographical maps and their social and political determinants. That work showed me that maps should be treated not only as an effective tool for studying reality but also as an artefact, i.e. a product of the human mind which reflects contemporary and historical situations. During my cartographic studies I engaged in many additional initiatives, e.g. mapping urban areas, co-establishing a cartographic section of the Students' Geo-Science Club and co-organising student conferences. These extra activities increased my hunger for cartography even more and eventually led me to pursue further studies. My PhD research takes a closer look at European city maps, their content, graphical complexity and effectiveness. It focuses on the quantitative estimation of graphical complexity based on a novel application of digital image processing using wavelet transformation and advanced convolution filtering. To the best of my knowledge this solution is the first of its kind in calculating the spatial distribution of a map's graphical complexity. This approach affects the effectiveness of maps and thus the psychological aspect of map usage is also part of my interests.

Currently I am working for the Institute of Geodesy and Cartography in Warsaw, where my scientific duties concern environmental urban transportation. What I truly like about my job is cooperation with scientists from various fields. I also thoroughly enjoy involving myself in the interdisciplinary work of my Institute.

**Agata Ciolkosz-Styk** | Institute of Geodesy and Cartography | Poland | [agata.ciolkosz-styk@igik.edu.pl](mailto:agata.ciolkosz-styk@igik.edu.pl)

[www.dgfk.net](http://www.dgfk.net)

*KN Kartographische Nachrichten – Cartography and Geographic Information News* – is the only cartographic journal of the German language area. The journal is among the oldest cartographic periodicals world-wide. It was established in 1951 as the journal of the German Society of Cartography (DGfK). In 1976, the journal has become the joint periodical publication of DGfK, the Cartographic Commission of the Austrian Geographical Society (ÖKK), and the Swiss Cartographic Society (SGK).

Apart from the early years, *KN Kartographische Nachrichten* is being published every two months, comprising about 60 pages per issue. It changed format several times and currently has a standard A4 (210 x 297mm) page size. Since 2004, the journal is reproduced in four process colours.

Each issue contains from four to six scientific articles on almost all aspects of cartographic development and research. So far, the articles are predominantly in German (with English summaries), but papers in English are also accepted. All articles are peer reviewed by relevant experts.

*KN Kartographische Nachrichten* also publishes short articles about recent technical developments in practical cartography and reports from national, as well as international cartographic conferences and other relevant events. Supplementary sections comprise regular accounts of activities in the German, Austrian and Swiss cartographic societies and business news from private companies, government agencies and academia. In addition, there are book reviews and a calendar of cartographically relevant events. Since 2009, the journal is indexed in Scopus, a bibliograph-



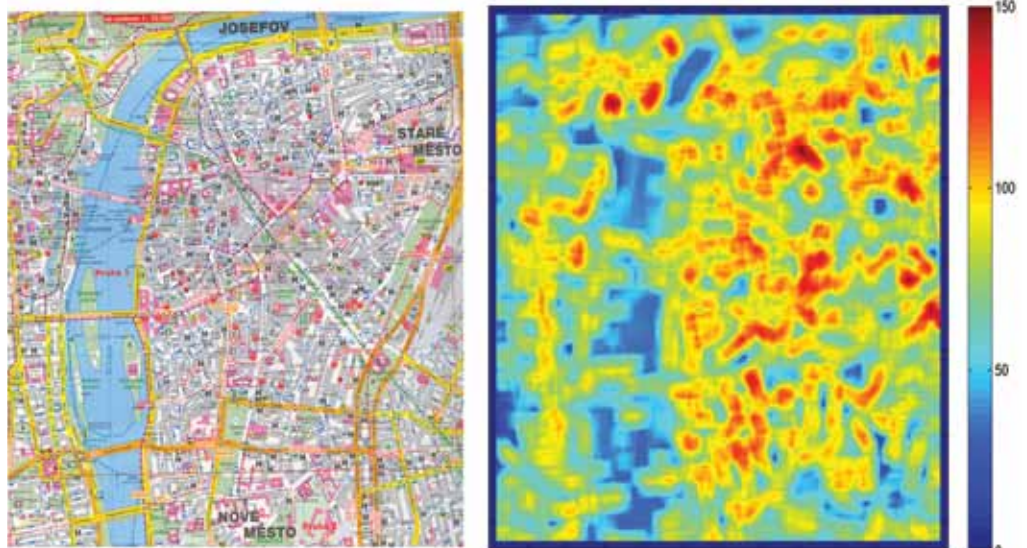
Recent cover of the *KN Kartographische Nachrichten* journal

ic database containing abstracts and citations for academic journal articles.

The aim of *KN Kartographische Nachrichten* is to be a platform for internal and external information exchange at a national level and a representative journal of the German speaking countries in the international cartographic community.

**Rolf Harbeck** | Editor | *KN Kartographische Nachrichten* | Germany

City map of Prague (published by ShoCart, 2007) and its corresponding graphical complexity map, evaluated using wavelet transformation and advanced convolution filtering. The dark blue spaces indicate sparse regions, while the red ones show dense graphical areas.



# profiles ordnance survey

[www.ordnancesurvey.co.uk](http://www.ordnancesurvey.co.uk)

Ordnance Survey is Great Britain's national mapping agency, providing the most accurate and up-to-date geographic data, relied on by government, business and individuals. In 2011 Ordnance Survey celebrated its 220th anniversary and also moved into a new purpose built head office, designed to meet the needs of modern map making and innovation.

Ordnance Survey is a dynamic organisation that provides a seamless digital representation

of the real world containing more than 450 million uniquely identified geographic features. Ordnance Survey's mapping database is updated daily with an average of 5000 changes, and is a consistent framework for the referencing of geographic information.

Ordnance Survey's flagship digital products make up the *OS MasterMap* family, one of the most advanced and comprehensive analytical tools of its generation. With topography,

Ordnance Survey's flagship product, *OS MasterMap*, which consists of four layers of mapping data including topography, addresses, imagery and transport | *Image courtesy of Ordnance Survey*



An Ordnance Survey surveyor outside the new head office in Southampton, England | *Photograph courtesy of Ordnance Survey*

transport, address and imagery layers, it provides consistent information down to address, street and building level.

To complement the premium datasets Ordnance Survey also provides free and unrestricted access to a large range of mapping via *OS OpenData™*, a service that helps underpin a range of applications, promote government transparency and encourage greater take up of GI. Its aim is to stimulate digital innovation in the reuse of our data to develop applications and solutions, drive new markets and unlock new potential for jobs in existing and new technologies.

Ordnance Survey data is relied on by us all. Today, Ordnance Survey's high quality, professionally maintained geographic data has never been more accessible or more widely used.

Robert Andrews | Ordnance Survey | UK ●

## reports ica commissions

### Art and Cartography

[artcarto.wordpress.com/](http://artcarto.wordpress.com/)

#### Events in Paris, France

During the 25th International Cartographic Conference in Paris in July 2011, the ICA Working Group on Art and Cartography was transformed into the Commission on Art and Cartography with Sébastien Caquard and Barbara Piatti as Chair and Vice Chair, and William Cartwright as the executive liaison. During the ICC 2011, we organized a series of events on top of two regular paper sessions. First, we ran a workshop entitled *Mapping Processes and Practices: Arts, Maps and Society* in collaboration with the ICA Commission on Maps and Society. About 20 participants contributed to this workshop that took place, thanks to Christine Zanin, in the Institute



Participants of the Commission on Art and Cartography workshop at the Institut de Géographie in Paris, 2 July 2011 | *Photography Anne-Kathrin Reuschel*

of Geography on 2 July 2011 (for the program, see [artcarto.wordpress.com/2011/05/09/workshop-paris-july-2nd-2011-program/](http://artcarto.wordpress.com/2011/05/09/workshop-paris-july-2nd-2011-program/)). Secondly, Barbara Piatti and Anne-Kathrin Reuschel have organized a very successful

experimental walk / drift in with some Parisian artists on 4 July (more details about this activity below). Finally the commission organized a screening of the movie *Zig-Zag - A didactical fiction about cartography*

> 10

directed by Raul Ruiz (1980). This short surrealist movie (22 mins) tells the story of a man caught in a nightmare involving maps, scales and territories. The screening was done on 5 July and attracted a small audience of about 15 people.

The book entitled *Mapping Environmental Issues in the City: Arts and Cartography Cross-Perspectives* co-edited by Sébastien Caquard, Laurene Vaughan and William Cartwright was published during the fall 2011 by Springer-Verlag in the *Lecture Notes in Geoinformation and Cartography* series. This book compiles the work of artists and cartographers developed during and after the workshop that took place in Montréal in September 2010. Another important publication of the commission is the forthcoming special issue of *The Cartographic Journal* on *Cartographies of Fictional Worlds* co-edited by Barbara Piatti and Lorenz Hurni. This special issue should be published before the end of 2011 (see [www.springerlink.com/content/978-3-642-22440-9](http://www.springerlink.com/content/978-3-642-22440-9) for details).

## Experimental Walk in Paris

This Art and Cartography Commission workshop was announced under the title *Exploring visible and invisible borders in Paris – a dialogic walk with cartographers and artists*. 26 cartographers and artists, among them textile designers, graphic artists, musicians and photographers, participated in this activity. They all started at the Palais de Congrès on 4 July 2011, in the late afternoon – equipped with maps, instructions, quotations and some hints. In mixed groups of 4-6 people they were supposed to solve a creative task: during an experimental journey through the nearby neighbourhoods of Paris they should witness and document invisible and visible borders, limits, ruptures, clashes of the Paris topography (inspired by Eric Hazan's wonderful book *The Invention of Paris. A History told in footsteps*, 2002). About one of the areas selected for this workshop he notes: *The*



Map detail: rue St Martin and rue St Denis with their flow of pedestrians | Photography Anne-Kathrin Reuschel

*boundaries between the districts of Paris are often drawn with surgical precision. Sometimes the reference points are (...) again major arteries, of which the Boulevards Rochechouart and Clichy are an extreme example, forming such a firm demarcation between Montmartre and Nouvelles-Athènes that it is not so much two districts that face each other here, but more like two worlds.* Another destination was rue St Denis and Rue St Martin, only a few steps away from each other – the first a stronghold of prostitution and amusement industry, the latter a village-like, idyllic and quiet part of Paris.

While strolling through those urban “borderlands” all sorts of impression were collected: not only visual, but also noises, smells, atmosphere, light conditions, textures and much more. And on the way, challenging questions have been discussed such as *Where and why exactly the district changes its face? Why this transition from literally one world to another?*

Around 8pm the groups gathered in LA RUCHE, a co-working space situated by the romantic canal St Martin. During an actual “mapping party” a series of largely plotted background maps (designed by Anne-Kathrin Reuschel) of the given areas have been transformed into colourful, sometimes three-dimensional collages – according to the experiences the participants have just made in the streets of Paris. Sketches, notes, photos, objects were arranged, supported by a range of handicraft items such as various papers, cardboards, foils, writing utensils, needles, wire, yarn and a mobile printer allowing to print digital pictures onto postcard or stamp format instantly. The pictures here capture the vivid atmosphere and the inventive products. The idea, that cartographers and artists might have a lot to tell each other came to full bloom... Majority of participants were bent over the maps until late in the evening. More impressions are available from [artcarto.wordpress.com/2011/07/12/impressions-experimental-walking-tour-in-paris/](http://artcarto.wordpress.com/2011/07/12/impressions-experimental-walking-tour-in-paris/).

## Future Plans

The Art and Cartography Commission is planning to organize a workshop entitled



Presentations of the maps | Photography Anne-Kathrin Reuschel

*Mapping Narrative Cartographies* that will take place in Zurich between 11-13 June 2012. This workshop aims to bring together artists, scholars and students from cartography, geography, the humanities and the arts interested in exploring further the relationships between maps and narratives. The main outcome of this workshop will be the production of a collective movie dedicated to narrative cartography. This movie will be made of the different contributions of the participants of the workshop. The deadline for submitting proposals to this workshop is 15 January 2012 (for more details see [artcarto.wordpress.com/cartography-narratives/](http://artcarto.wordpress.com/cartography-narratives/)).

Barbara Piatti, Anne-Kathrin Reuschel and Sébastien Caquard | ICA Commission on Art and Cartography | Switzerland / Canada ●

## Atlases

[www.univie.ac.at/cartography/karto/project/cnra/](http://www.univie.ac.at/cartography/karto/project/cnra/)

## Workshop in Paris, France

The ICA Commission on Atlases (formerly known as the ICA Commission on National and Regional Atlases) organized a pre-ICC 2011 workshop on 2 July 2011. The workshop was devoted to presentations of new national, regional, city, thematic and school atlases, and reports on new developments with existing atlases. The workshop took place at the Institut Géographique National (IGN) in Vincennes and was well supported by the local organizers. 17

Participants of the pre-ICC 2011 workshop in Paris | Photograph courtesy of Peter Jordan



The “experimental walkers” gather at Palais de Congrès | Photography Anne-Kathrin Reuschel



colleagues from seven countries attended the workshop which delivered 15 paper presentations.

René Sieber from Switzerland reported on the Atlas of Switzerland 3.0, Pilar Sanchez-Ortiz Rodriguez (Spain) on the National Atlas of Spain's (1955-1985) digital facsimile version, and Eric Losang (Germany) on recent developments with the National Atlas of Germany. Christian Hanewinkel from Germany presented the online regional geography *Germany in Maps*. Qingwen Qi elaborated on various editions and technical achievements of the national and provincial atlases in China, while Dongmei Yu (both from China) highlighted the Atlas of Gender Equality and Women's Development in China. Petr Kubiček (Czech Republic) presented the Landscape Atlas of the Czech Republic and Thomas Schulz (Switzerland) the Statistical Atlas of Switzerland together with the Political Atlas of Switzerland (Election Atlas 2011). Dorothea Wiktorin from Germany presented a national, a regional as well as a city atlas, supported by the examples of Luxemburg, the Ruhr Region and Nuremberg (Nürnberg) plates. The workshop ended by the presentations by Alexander Wolodtschenko (Germany) on minidisplays and Peter Jordan (Austria) on two new instalments of the Atlas of Eastern and Southeastern Europe.

Sufficient time for social contacts and discussions contributed to the success of this small workshop.

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

## Cartography and Children

[lazarus.elte.hu/cac/cac.htm](http://lazarus.elte.hu/cac/cac.htm)

### Business Meeting in Paris, France

The ICA Commission on Cartography and Children held its business meeting in the afternoon of 6 July 2011, during the International Cartographic Conference (ICC) 2011 in Paris, France. The meeting gathered 27 colleagues from 15 countries (Argentina, Austria, Brazil, Bulgaria, Canada, Czech Republic, France, Hungary, Indonesia, Lithuania, Poland, Sweden, the Netherlands, Turkey and USA).

Commission activities between 2007 and 2011 were summed up by Jesús Reyes, Commission Chair. First of all, some statistics about the membership were presented: in July 2011 the Commission had a total of 56 members from 25 countries (14 full members and 42 corresponding members). Short report was also given about the Commission meetings organized in the last four years:

- Commission meeting at the 2nd International

Conference on Cartography and GIS, held in Borovets (Bulgaria) in January of 2008

- Commission meeting at the Joint Symposium on Cartography and Geoinformatics for Early Warning and Emergency Management in Prague (Czech Republic) in January 2009
  - Commission meeting during the ICC 2009 in Santiago de Chile in November 2009
  - Commission meeting at the 3rd International Conference on Cartography and GIS, held in Nessebar (Bulgaria) in June 2010
- Some of the themes presented during the meeting were:
- One of our aims for the 2011-2015 term is the possible organization of regional Commission meetings on different continents, or participation of members in regional events involving the Commission. The Commission members often experience difficulties to participate in a Commission meeting due to travel distances between venues. For this reason, the Commission Chair exhorted members to organize smaller (regional) Commission meetings to facilitate the personal participation of those colleagues without financial support, but interested on our activities. Commission Chair offered his personal help to obtain any kind of information or material related to the Commission activities that members would present in these events.
  - The Commission considers the development of stronger links between ICA Commissions and Working Groups, as well as international and regional organizations, as a very important goal. During the last four years the Commission deepened its' traditional links with the ICA Commissions on Education and Training, Maps and the Internet, National and Regional Atlases and Planetary Cartography, as well as with the Working Group on Cartography on Early Warning and Crisis Management. We aim to remain open to any kind of interest group and enhance our contacts with other ICA Commissions. During the Joint ICA Symposium held in Orleans some days before our business meeting, the participants voiced a need to strengthen our contacts with the Commission on Maps and Graphics for Blind and Partially Sighted People. On the international level, it was suggested to focus on forging contacts with the IGU Commission on Geographical Education, to promote activities of our Commission to regional organizations and to attract interest of other colleagues working on projects and research initiatives related to our field. Other suggestions included deepening our relationship with ESRI, not only to publish the Barbara Petchenik Competition books, but also to capitalise on their role in the organization of activities related to GIS in schools (e.g. the popularization of GIS Day).
  - Relating to the last point (GIS in schools initiative), the Commission Chair encouraged

members to organize or participate in the GIS Days, an international event organized every year in the middle of November. Meeting participants were also asked to report their experiences in this kind of activities, sending the information for the Commission newsletter and/or the *ICA News*.

- In 2008 and 2009 the Commission contributed to the publication of the 2nd volume of the *Children Map the World* book, a collaboration between ICA and ESRI (see *ICA News* No 53, December 2009, p 5 for details). ICA and Commission representatives wish to maintain contacts with ESRI and publish a new volume in this series. In 2010 another significant contribution was made by Temenoujka Bandrova (Bulgaria), Commission Co-Chair 2007-2011, who organised printing of a poster commemorating the 10th Barbara Petchenik Exhibition (2011) and the 20th anniversary of the Competition to be celebrated in Dresden (Germany) in 2013.



Commission members attending the Business Meeting at ICC 2011 in Paris, France

Other tasks for the next term were also discussed and confirmed:

- Commission members were asked to send their contributions to the on-line bibliography and forward relevant web links on Cartography and Children to make them accessible for all Commission members and interested parties. The contributions can be sent in any language following the rules of the Harvard Reference System.
- Contacts with the Commission on Education and Training to detail our collaboration and participation in the Biennial Award for Educational Cartography, an initiative that started from a proposal written by our colleague Patrick Wiegand (UK) in 2005, are on-going. During the last term the Commission participated in drafting the rules for this new competition and the proposal was approved by the previous ICA Executive Committee.

The presentation followed with the Barbara Petchenik Competition discussion, especially relating to the proposals for improving the organisational aspects, possible changes in the rules of the competition and the selection

of a new theme for the next two competitions in 2013 and 2015. All participants acknowledged the importance of the Commission to support the ICA Executive Committee in relation to the rules and judging of the competition. All Commission members were asked to send their opinions and proposals regarding the competition and especially the new theme as soon as possible to allow their processing in January 2012.

The first publication in the 2011-2015 term relates to the Joint ICA Symposium organized in Orleans before ICC 2011. László Zentai (ICA Secretary General) and Jesús Reyes (Commission on Cartography and Children) selected 23 papers for the book entitled *Maps for the Future: Children, Education and the Internet*, to be published by the Springer-Verlag at the beginning of 2012.

The entire presentation made at the meeting can be downloaded from the Commission website [lazarus.elte.hu/ccc/pdf/p11-meeting.pdf](http://lazarus.elte.hu/ccc/pdf/p11-meeting.pdf).

## Future Plans

All Commission members were invited to participate in the next Commission meeting, planned to be held within the 4th Conference on Cartography and GIS in Albena, Bulgaria in June 2012.

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

## Cognitive Visualization

[www.geo.uzh.ch/microsite/icacogvis/](http://www.geo.uzh.ch/microsite/icacogvis/)

### Commission Activities

The newly constituted ICA Commission on Cognitive Visualization (CogVis) began its research and networking activities by soliciting papers on "cognition, behaviour, and representation" for the world's largest annual gathering of geographers, the Association of American Geographers Annual Meeting, where more than 8000 people will gather in New York City in February 2012. A special journal issue might be one documentation of this activity.

The CogVis Commission chairs Sara Fabrikant (Switzerland) and Amy Griffin (Australia) together with US colleagues, organized seven paper sessions with a total of 41 papers, of which ten papers are co-hosted in two sessions together with the newly formed ICA Commission on Map Design.

Paper presenters, from Europe, North America, Australia, and Asia, offer a wide range of issues for discussion related to map design, map cognition and perception in the broadest sense, including human perception and cognition of graphics, human-map interaction, space-time reasoning and understanding,

projection distortion comprehension, as well as evaluation of 3D maps and virtual spaces, navigation and wayfinding issues, and mobile mapping.

One interactive short-paper session will feature eleven research agenda setting 5-minute talks, aimed at beginning community discussions about the directions of the Commission's research work over the next four years.

Another project has seen setting up a website to disseminate the Commission's activities to an international audience. The website allows visitors to sign up to the Commission's email listserv. Please visit the CogVis website at [www.geo.uzh.ch/microsite/icacogvis/](http://www.geo.uzh.ch/microsite/icacogvis/).

**Sara Fabrikant** | Chair | ICA Commission on Cognitive Visualization | *Switzerland* ●

## Digital Technologies in Cartographic Heritage

[xeee.web.auth.gr/ICA-Heritage/](http://xeee.web.auth.gr/ICA-Heritage/)

### Commission Activities

The ICA Commission on Digital Technologies in Cartographic Heritage started its second term (2011-2015), after the ICA General Assembly decision taken in Paris in July 2011.

Two Vice Chairs, Dr Alastair Pearson from Portsmouth and Dr Carme Montaner from Barcelona kindly accepted to support our work during this period. The Commission's website has been refreshed and updated and the list of membership reviewed, although membership is always open for new members working in the Commission's area of interest.

The second period of the Commission's life sees an introduction of two "groups" in the structure of the Commission, i.e. the "Supporting Institutions" and the "Commission Desk".

The Supporting Institution (SI) group consists of mainly single public institutions (university, library, agency, etc.) with an interest relevant to the Commission's Terms of Reference, which were actively involved in our work during the Commission's first term. This collaboration was either institutional or involved a number of people from a particular SI who contributed to the Commission's work. The current SIs from Barcelona, Venice, Edinburgh, Budapest and Thessaloniki are open to welcome other institutions from all over the world willing to join and, as a group, to actively participate and support the Commission's work until 2015.

The SIs are also open to a private sector dealing with research and development associated with the Commission's interests. We have successful examples in this category that systematically followed the Commission's activities in the past. The Commission is always open to discuss participation of these private

firms in its work.

The Commission Desk (CD) is the second innovation introduced in the Commission's structure. It consists of a group of colleagues and doctoral candidates who are working with the Commission Chair as a local voluntary team who help in organisational and implementation issues related to the Commission's work. I am deeply thankful to this group for their assistance and enthusiasm.

One of the fundamental tasks of our Commission is the organization of the annual international series of Workshops on *Digital Approaches to Cartographic Heritage*. In the first period we managed to organize 6 successful and enjoyable Workshops (Thessaloniki, Athens, Barcelona, Venice, Vienna, The Hague) all kindly supported by corresponding hosting institutions. Thanks to these Workshops we managed to:

- formulate and advance the concept of Cartographic Heritage and its place in the Digital Technologies mainstream
- expand the horizons and open new avenues in cartographic heritage research
- inspire partnerships and joint ventures
- contribute in the development of new products in the field of services and digitalization
- encourage and promote the dialogue between the world of digital technologies and the worlds of history of cartography, map librarianship, map archives and map collections

The experience gained by the Commission members at our first Tutorial last July in Paris, thanks to the Venice SI (the IUAV group) and our hosts in the BnF, was very valuable. The Tutorial was an excellent systematic laboratory-type presentation on the 3D scanning of globes and deformed old maps, utilizing leading-edge modern instrumentation and computer visualization facilities on-site. It highlighted the importance of organizing such Tutorials and the Commission is open to discuss any relevant proposals.

The intent is to continue with similar annual Commission Workshops and Tutorial, but instead of leaving the theme open (which was necessary in the first term), the idea now is to focus on a major area of interest, according to the Terms of Reference (similarly to the Paris Tutorial). Of course, the sessions will still be open for eventual minor themes. For example, the 2012 Workshop, organized by the ICC in Barcelona, will focus on map librarianship to take advantage of the LIBER-GdC Conference which will meet in Barcelona at the same time.

The feedback from the Commission members and wider community on any subject relating to our Commission's work is not only invited but highly expected.

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

## Education and Training

[lazarus.elte.hu/cet/](http://lazarus.elte.hu/cet/)

### Introduction

The ICA General Assembly in Paris 2011 marked the start of the new four-year term (2011 to 2015) for the ICA Commission on Education and Training (CET). It also brought some changes that affected our Commission.

The long standing member and former Chair of CET Professor László Zentai became the new Secretary General and Treasurer of the ICA. Congratulations go to him from the CET. He has taken over from Dr David Fairbairn who did a magnificent job in this role in the previous term, during which time he was the liaison person between the CET and the Executive. Professor Zentai will continue on as the Hungarian member of the CET and Dr Fairbairn will come on to the CET as the Vice Chair. David Fraser will continue as Chair of the Commission until such time that Dr Fairbairn is in a position to take over this role. Mr Sukendra Martha who served on the Commission on Education and Training has become one of the Vice Presidents of the ICA. This is a magnificent honour and a fine reward for years of service to the ICA and the CET.

The members of the CET from 2007-2011 are to be congratulated on a fine effort in assisting the Commission to grow its breadth and depth of activities during this period.

### Commission Projects 2011-2015

In the new term (2011-2015) of the CET the focus will be on developing the following projects:

#### Category 1 – Primary focus

- **Website:** Maintenance of the website. Professor Zentai has agreed to continue to undertake this task.
- **Regional Workshops:** The CET will seek more opportunities to run workshops in developing countries. This is seen as a valuable contribution to the up-skilling of individuals in cartographic principles and practices. The workshops will be based on the model originating from the Iran workshop organised in 2009 and duplicated for the Viet Nam and Indonesia workshops (2010). Assistance will be sought from CET members, and from other Commission members, with this project.
- **On-line Education and Training Modules:** There are many on-line modules and resources available from around the world. The focus of this project will be to bring many of these resources together using a web-based framework which will align the resources under specific themes. This will, in turn, enable individuals with Internet access to undertake the development of their own



Participants of 14th ICA generalisation workshop in Paris, France | Photograph courtesy of William Mackaness

cartographic knowledge, during their own time, and at their own pace.

- **Newsletter:** Continue to produce a regular e-newsletter (eCET) on cartographic education.
- **ICA Research Agenda:** Create research publications and develop research projects jointly with CET members and other commissions.

#### Category 2 – Secondary focus

- **Listing of Cartographic and GIS Programs:** This project was started some years ago. The listing appears on the CET website but now needs to be updated.
- **Academic papers:** Develop and maintain the repository of academic papers on education and training in cartography.
- **Cartographic Resources:** Develop and maintain a webpage dedicated to teaching and learning resources.

Other projects will be attempted if the need arises or as recommended by the ICA Executive Committee or CET members.

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

## Generalisation and Multiple Representation

[aci.ign.fr/](http://aci.ign.fr/)

### Workshop in Paris, France

The 14th Workshop of the ICA Commission on Generalisation and Multiple Representation was co-organised with ISPRS. It was held in Paris immediately preceding the ICC 2011 and was attended by 40 international delegates from Scandinavia, Europe, Turkey, South Korea, USA – researchers and practitioners alike. As with previous workshops, all papers were selected based on peer review and are available in full via the Commission's website. The papers covered such topics as: characterising space through cartometric analysis, modelling of map complexity, continuous 'vario scale' mapping,

data integration, web services and mashups, map and user evaluation, constraint based mapping, and 'orchestration' methodologies. However, taking a more synoptic view it is possible to group the papers under four key themes: Pattern recognition and enrichment, Workflow schematisation of the generalisation processes, Production environments, and Mashups and Generalisation.

The workshop included break out sessions in which a number of topics currently in vogue were discussed. These were:

- An Agenda for Automated Generalisation Research
- Mashups and Map Generalisation
- Industrial Strength Algorithms
- The Future of Multi Agent Systems
- Data Enrichment and Semantic Modelling
- Continuous Generalisation

The Commission is hugely grateful for the involvement of the ISPRS which bought new perspectives to this research; to the work of reviewers; to IGN France in the local organisation of the workshop, and to all the participants for their constructive engagement and sharing of ideas. The workshop papers very much reflect current issues and research efforts. There remains a strong interest in web based mapping (together with all the associated challenges of defining user needs, of dynamic processing, in workflow modelling, in web services and open source solutions). This year it was exciting to see research that has become mainstream in production environments and in 'off the shelf' technology.

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Break out group during the ICA generalisation workshop | Photograph courtesy of William Mackaness



## Future Plans

The next 15th ICA generalisation workshop will take place from 13-14 September 2012 in Istanbul, Turkey. In 2013 the 16th workshop will take place in Dresden, Germany, immediately prior to the ICC 2013.

**William Mackaness** | ICA Commission on Generalisation and Multiple Representation | UK ●

## Geographic Information for Sustainability

### International Workshop in Russia

The International Workshop on *GIS Support for Modernization. Organizational, Technological, and Human Resources Potential*, 25 September - 9 October 2011, was conducted with financial support from the Russian Foundation for Basic Research. The workshop was attended by 78 students and experts in the field of GIS and remote sensing to discuss challenges of sustainable development, integrated management, environmental management, and ecology. There were 16 reports, 8 workshops and role-playing games, as well as a conference for young scientists.

The International Workshops on Geoinformatics and Sustainable Development, as part of the ICA Working Group and now Commission on GI for Sustainability activities, have been held since 2005, previously in Ukraine, Turkey, and China (four times). As a rule, technical visits relevant to geoinformatics are arranged during the workshops. The Russian Workshop was held on board of a ship en route Perm-Astrakhan-Perm, covering a distance of 5,130km. The Workshop programme included reports delivered in the cities along the way: Kazan, Saratov, Astrakhan, Volgograd, and Samara. Each day, while the ship was sailing, invited speakers delivered lectures and workshops, and role-playing games were conducted. Along the way, students visited universities to learn about the activities in the field of geoinformatics, met with local experts, and made presentations to local academics and students.

The Workshop's activities started in Perm on 25 September and included a presentation by Professor Vladimir Tikunov (Russia) on the use of modern technologies in models of sustainable development. Professor Tikunov stressed the need to integrate the efforts of Russian and foreign scientists in joint international projects, particularly in the Arctic. R Stampach (Czech Republic) in his report presented the International Society for Digital Earth and its development prospects. Issues of formation of spatial databases based on international experience were also addressed.

In Kazan (28 September), A Koshkarev talked about issues of creating spatial data



A cruise ship, the venue of the International Workshop in Russia | Photograph courtesy of Vladimir Tikunov

infrastructures in Russia while A Saveliev presented the use of GIS in ecology and environmental management. In Saratov, Professor A Chumachenko reviewed issues of analysis and synthesis of spatially distributed geo-environmental, geo-demographic, and socio-economic information of various territorial and sectoral levels, which are necessary to ensure sustainable economic growth in a stable economic environment with positive social and demographic processes. A report by D Ermakov outlined problems facing modern society in the implementation of the concept of sustainable development.

At Astrakhan State University (2 October), V Gershenzon spoke about modern technology and technical solutions in operational space monitoring and pointed out geo-portal solutions and possible thematic application of remote sensing for the regional economy of Russia.

Scientists of Volgograd State University (4 October) shared their achievements in the introduction of GIS methods in practical and theoretical activities. In particular, a report by S Khrapov was devoted to issues of developing a mathematical modelling of the dynamics of surface water to describe flooding of territories. It also discussed the development of computer models based on GIS methods to model the dynamics of surface water and particulate matter transport in air and water. A Plyakin dealt with issues of improving the stability of the region, while T Gribtsova described the experience of using GIS in the design of spatial data infrastructure, with emphasis on creating a system to monitor the use of agricultural land.

Representatives of Samara State Aerospace University (e.g. Professor V Sergeev) spoke about mathematical methods used in the automated interpretation of remotely sensed data. A Chernov emphasized the problems of spatial data infrastructures at the regional level and D Mayer spoke about a practical implementation of GIS in agricultural management in the country. A tour to the Volga Center for Receiving and Processing Remote Sensing Data complemented the visit.

On board the ship, a role-playing game was conducted based on the results of the presentations. The game focused on features of designing spatial data infrastructure, using an

international project in the basin of the river Amur as a case study. A discussion of the usage of modern technology in practical activities has led to a conclusion that it is necessary to develop national standards for spatial data infrastructure.

A lecture on *Visual and aesthetic representation of a base map for online mapping services* delivered by staff of the Engineering Technical Center "ScanEx" demonstrated web map features, their structure, content and symbolic space. A subsequent seminar has reinforced the students' skills in creating digital cartographic symbols. There was a seminar on a forecast of the world's population, where students had the opportunity to develop a computer system with demographic scenarios for Russia, as well as to consider possible scenarios of changes in Latvia and Tajikistan.

S Pyankov spoke on the development of geoinformatics in the Perm region and its relationship with the development of the GIS technology market in Russia was demonstrated. The resulting discussion was devoted to the place of geoinformatics in the Earth Sciences and characteristics of the object of research.

A two-day conference *The use of GIS and remote sensing to solve spatial problems* was organised for young scientists from Russia, Belarus and Czech Republic. There were 11 reports by eight organizations on the use of modern technical and software solutions in their work. The Conference generated wide interest of participants on the topics covered at the workshop. The most interesting were reports by the Belarus team on the use of remote sensing for the internal land management.

Workshop participants made the following recommendations:

- to support organisational and management efforts to create new teaching units (departments) and to increase a number of students in cartography and geoinformatics at higher education institutions in Russia, considering that, currently, the demand for specialists is two to three times greater than the number of graduates in this field
- to intensify the implementation of inter-institutional and inter-regional scientific and educational projects, and to promote active

participation of students, teachers, and professionals in the international educational projects

- recognising the importance of participation in the international conferences and use the *InterCarto-InterGIS* conferences as a platform for scientific, practical, and educational exchange
- to organise future workshops that addresses issues of interdisciplinary studies in geographic information technologies, creation of distributed databases, the use of mobile GIS, unmanned aerial vehicles, high-precision positioning systems, cloud technologies, and GIS in urban planning and design activities
- to publish in recognised international journals on geoinformatics
- to consider new forms of participation of experts in the workshops including the use of Internet technologies
- to support the promotion of this form of training and expertise exchange in the future and to propose the next workshop to be held at Stavropol State University in September 2012.

**Sergey V Pyankov and Vladimir S Tikunov** | ICA Commission on GI for Sustainability | Russia ●

## Geospatial Analysis and Modeling

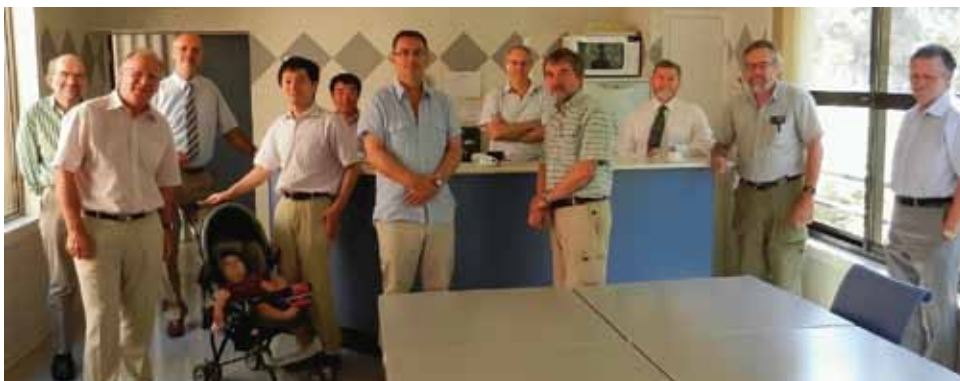
[fromto.hig.se/~bjg/ica/](http://fromto.hig.se/~bjg/ica/)

### Commission Activities

The 4th ICA Workshop on Geospatial Analysis and Modeling was held 10-12 August 2011, at Simon Fraser University, Canada. It was a joint event with an ISPRS working group in collaboration with several other ISPRS working groups. It was the first time that we combined on-site presentations and video presentations using Skype. For more details about the event, please visit the workshop website at [www.sfu.ca/dragicevic/workshops2011/](http://www.sfu.ca/dragicevic/workshops2011/).

A Full-Day Tutorial on Modeling Urban Complexity and Hierarchy was delivered by Prof

Some participants of the 4th ICA Workshop on Geospatial Analysis and Modelling in Canada | *Photograph courtesy of Bin Jiang*



A short break during the ICA Commission on Geoinformation Infrastructures and Standards annual meeting, Monaco | *Photograph courtesy of Antony Cooper*

Bin Jiang and Prof Yanguang Chen on 23 June 2011, in conjunction with GeoInformatics 2011, 24-26 June 2011, Shanghai, China. There were about 20 participants mainly young researchers. For more details about the tutorial, please refer to the tutorial website at [fromto.hig.se/~bjg/tutorial/](http://fromto.hig.se/~bjg/tutorial/).

A special issue on data-intensive geospatial computing edited by Bin Jiang has been published recently in the *International Journal of Geographical Information Science*, 2011, 25(8), 1217-1322. Please refer to [fromto.hig.se/~bjg/ijgis/](http://fromto.hig.se/~bjg/ijgis/) for more details and supplementary materials.

The ICA Commission on Geospatial Analysis and Modeling will continue its second term (2011-2015) following the approval by the 15th General Assembly of ICA in Paris, France. We welcome Professor Xiaobai Yao (USA) to be a Co-chair of the commission. Professor Yao is currently with the Department of Geography at the University of Georgia. Both Chairs encourage researchers who share interests in geospatial analysis and modeling to participate in and/or initialize Commission activities.

### Future Plans

We are planning the 5th ICA Workshop on Geospatial Analysis and Modeling probably in 2013. We are also planning a Workshop on Modeling Complexity in 2012 in conjunction with AGILE 2012, and a Session on Network Modeling and Human Mobility at the AAG Annual Meeting 2012. You are welcome to join us for these events!

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

## Geoinformation Infrastructures and Standards

### Commission Activities

The Commission, under the former name of ICA Commission on Geospatial Data Standards,

held its annual meeting from 29 to 30 June 2011 at the International Hydrographic Bureau (IHB) in Monaco, preceding the 25th International Cartographic Conference (ICC 2011). We were hosted by Michel Huet and Alberto Costa Neves of the IHB, and we would like to thank them very much for the arrangements.

At the Monaco meeting there were three major items on the agenda. The first was finalization of a paper *An initial formal model of a spatial data infrastructure from the Computational Viewpoint*, which was then submitted to the *International Journal of Geographic Information Science*. The second item on the agenda was preparing the paper *Extending the formal model of a spatial data infrastructure to include volunteered geographical information*, for both presentation at the ICC 2011 conference and becoming an article for publication in a peer-reviewed journal. The last and third major point on the agenda was discussion of the future work in the Commission, which included the following options:

- Land-sea data integration, that is, combining terrestrial and marine data, particularly as there can easily be different versions of the coastline
- Data harmonization, is a key issue for the International Hydrographic Organization and within SDIs such as INSPIRE
- Ontologies and semantics in an SDI
- Looking at an SDI from the Engineering Viewpoint of the Reference Model for Open Distributed Processing, specifically for choreography and orchestration of Web services. Web services should be in atomic form but we want to solve complex tasks, which requires chaining these services together.
- Define the current concepts of an SDI – identify the factors that are crucial for the successful development of an SDI; new actors; the SDI of the future
- Standards for thematic cartography, to achieve interoperability
- Quality in an SDI

The Commission also held an open business meeting during the ICC 2011 itself in Paris, France, on 4 July 2011. Presentations there were made by Antony Cooper, Jan Hjelmager

and Adam Iwaniak. At the 15th General Assembly of the ICA in Paris, the Commission was approved, but with a new name: the Commission on Geoinformation Infrastructures and Standards.

The Commission holds mini-meetings during the year, when some members of the Commission happen to be together at other meetings. We find these useful to maintain momentum in our work and collegiality. We met in Centurion, South Africa, on 18 November 2011, attached to the Plenary of ISO/TC 211 (see separate report on page 25 in this issue), Geographic information/Geomatics.

## Future Plans

For our meeting in 2012, we are considering holding a seminar in the last week of May 2012 at the IHB, on ontology, semantics, SDIs, data harmonization and land-sea integration. Hopefully, this will be done in partnership with the IHO's Marine SDI Working Group.

**Antony Cooper and Jan Hjelmager** | Chair and Co-Chair | ICA Commission on Geoinformation Infrastructures and Standards | South Africa / Denmark ●

## History of Cartography

[www.icahistcarto.org/](http://www.icahistcarto.org/)

### Workshop at the Bibliothèque Nationale, Paris, France

On Saturday, 2 July 2011, pre-empting the ICA Conference in Paris, the ICA Commission on the History of Cartography presented a successful one-day Workshop at the Bibliothèque Nationale de France (BNF) in Paris (Richelieu-site). The Workshop was attended by 26 members as well as non-members from as far afield as Japan, South Africa, the USA, Egypt and Spain.

The workshop programme entailed the following:

- A demonstration of the capability and potential of the software package *MapAnalyst* by Dr Alastair Pearson of the Department of Geography, Portsmouth University, UK. This computer programme was developed by Dr Bernhard Jenny of the Kartographisches Institut in Zürich and is known as "The Map Historian's Tool for the Analysis of Old Maps".
- A presentation by Dr Paul van den Brink of the University of Utrecht, The Netherlands, on *The Internet as a resource for carto-bibliographic research*.
- A presentation by Lucia Lovison-Golob on the *The Exploration of African Cartography at the Afriterra Foundation*. The speaker is Project Director of the Afriterra Foundation, a non-profit cartographic library and archive in Boston, Massachusetts, USA.



Olivier Loiseaux from the Map Department of the Bibliothèque Nationale de France explains some particulars of a 19th century French atlas to members of the ICA Commission on the History of Cartography, Paris | Photograph courtesy of Elri Liebenberg

During the afternoon of 2 July 2011 members of the ICA Commission visited the Map Department of the Bibliothèque Nationale where a selection of maps of Africa relating to the colonial period from the BNF's collection was presented and commented on by a senior librarian of the Map Department, Mr Olivier Loiseaux. Mr Loiseaux also kindly took a group of Commission members to the François Mitterrand site of the BNF at the Quai François-Mauriac, Paris 13e, to view the Exhibition on *Carnets de Route des Explorateurs d'Afrique* (African Explorers' Itineraries) which took place concurrently with the ICA Conference.

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

## Map Design

[mapdesign.icaci.org/](http://mapdesign.icaci.org/)

### Introduction

A new International Cartographic Association (ICA) Commission on Map Design was approved at the 15th General Assembly of ICA in Paris July 2011. It is designed to foster discussion, exchange of ideas and the development and spread of the principles and practice of high quality, effective cartographic and infographic design.

Good design and better mapping is core to effective spatial communication and the Commission is focused on engaging international experts from a wide range of fields to provide a body of knowledge that guides cartography as it tackles the challenges brought about by GIS, the internet, cloud-based

computing, pervasive web-based map services and the mashup culture. Such changes bring with them new map-makers who have not been formally trained in cartography yet still require knowledge of the basic tenets of good cartographic design; and new principles that are required for emerging cartographic landscapes (e.g. temporal, animated, interactive and 3D). Additionally, emerging production and display environments require new approaches to effectively implement well-understood design techniques alongside tackling the challenges and harnessing the opportunities brought about by new technologies. In particular we will be exploring issues of the value of aesthetics in map design and begin to tackle the issue of affective design, that is the assessment of the extent to which the look and feel of a map contributes to its success as a communication device. Design is perhaps one way in which cartography can reassert itself as a discipline based on strong scientific principles but which is applied through clear artistic means. In this sense, we might find a way to both maintain uniqueness amongst the world of map-makers who have little or no formal cartographic training and also offer a knowledge base and set of practical skills and advice to those seeking to better their mapping. Design could be the focus for what sets cartographers apart from map-makers and this is an area we will explore during our initial four year term.

Our intent is to work alongside and in cooperation with other relevant Commissions to make explicit the map design work that underpins much of what we do in cartography but to provide a specific focus on it. We held an initial scoping meeting in Paris that was

attended by a dozen people where we engaged in a productive discussion that will help shape the initial work of the Commission. A further scoping meeting was held at the Esri International user Conference in San Diego in July. Again, this was attended by a dozen or so people and helped to clarify issues of concern that people are dealing with. The Commission is chaired by Kenneth Field, formerly of Kingston University London and now at Esri as a Research Cartographer in Redlands, California. Ken is also Editor of *The Cartographic Journal*. The Commission welcomes Vice Chairs Bernhard Jenny of Oregon State University in the US, Alexander Kent, of Canterbury Christ Church University in the UK and Anja Hopfstock of the Federal Agency for Cartography and Geodesy, Germany. Together, this team brings a strong design background and a wealth of cartographic experience from thematic mapping to relief depiction and symbol evaluation. We also have strong backgrounds in both academic cartography and commercial cartography which will serve to give a cross-cutting insight into map design. We are committed to ensuring the Commission is vibrant, active and inclusive.

The Commission website is currently in its initial stages of construction and we invite people with an interest in map design to register to be alerted to the work and activities of the Commission. The web site provides more details on the plan of work we wish to establish and the core team members.

A number of papers at the recent North American Cartographic Information Society (NACIS) conference in Madison, Wisconsin (October 2011) touched on pressing design issues and serves as a reminder of the relevance and timeliness of the Commission. The conference theme was *Does design make a difference?* so our proposal for a new Commission is entirely in line with the thoughts of numerous learned societies. Kenneth Field co-authored a paper with Aileen Buckley on *Affective design in cartography* as part of a collection of papers that explored the research to date and offered some thoughts on future work to develop understanding in this area. Additionally, the Commission has organized two paper sessions at the forthcoming meeting of the Association of American Geographers in New York, February 2012 where ten papers exploring relevant themes in map design will be presented. These will further help to shape the research agenda of the Commission and provide an opportunity to encourage more people to develop closer ties to our work.

We very much look forward to discussing our ideas with the wider ICA community at meetings over the next few years and hope to welcome you as a supporter and participant of the work we wish to develop.

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

## Map Projections

[ica-proj.kartografija.hr/](http://ica-proj.kartografija.hr/)

### Introduction

The 15th General Assembly of the ICA held in Paris in July 2011 approved the new Terms of Reference for the Commission on Map Projections for the next four year period 2011–2015. Map projections are mathematical procedures that enable the mapping of the earth's or other celestial bodies' curved surface to a plane. The theory of map projections is often referred to as the mathematical cartography. The goal of studying map projections is the creation of mathematical basis for making maps and solving theoretical and practical problems in cartography, geodesy, geography, astronomy, navigation and related sciences.

In each country, topographic mapping has its own traditions, including selection of map projections and datum. Nowadays, geocentric WGS84 based systems are applied in many countries, but it is still an important part of cartography to know the properties and applications of various projections and manage their application and conversions between them. In practice, many GIS software tools offer transformations from projections and coordinate systems to others, while mobile and ubiquitous applications might sometimes require transformations on the fly. Map projections and transformations along with associated mathematical studies of distortion are valid areas of cartographic research. It is noteworthy that it is not only topographic mapping which must address these issues: the importance of reference frames to mobile applications and the study of transformations of raster imagery are also essential.

The new Chair of the Commission on Map Projections is Professor Miljenko Lapaine from the University of Zagreb, Croatia. The Commission's Vice Chair is E Lynn Usery from United States Geological Survey, USA.

**Miljenko Lapaine** | Chair | ICA Commission on Map Projections | Croatia ●

## Mapping from Remote Sensor Imagery

[mailer.fsu.edu/~xyang/ica/](mailto:mailer.fsu.edu/~xyang/ica/)

### Commission Activities

The 15th International Cartographic Association General Assembly of Delegates has approved our commission name change from "Commission on Mapping from Satellite Imagery" into "Commission on Mapping from Remote Sensor Imagery." This allows the inclusion of a variety of airborne remote sensing products. The General Assembly has elected Xiaojun Yang

(USA) and Jonathan Li (Canada) as Commission Chair and Vice Chair respectively for the 2011-2015 term. The General Assembly has also approved our Commission Terms of Reference for 2011-2015 (see the Commission's website for details).

Our Commission held a business meeting in Paris, France on 6 July 2011, and more than 10 delegates from Brazil, Canada, Hong Kong, Hungary, Germany, Slovakia, Sweden, UK, United Nations and USA attended the meeting. We discussed several agendas including two forthcoming remote sensing and mapping conferences our Commission sponsors and an ongoing book project that reviews the progress in remote sensors and data processing techniques applied for topographic and thematic mapping.

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

## Maps and Graphics for Blind and Partially Sighted People

### Symposium on Touch Mapping in Brazil

The IV Symposium on Touch Mapping and School Mapping for Crianças was held in Vitória, Espírito Santo, Brazil, between 26-28 October 2011. Researchers from the Geography Department, University of Sao Paulo and the UNESP, Experimental Ourinhos Campus, Brazil, presented cartographic materials and teaching programmes that being used at the Tactile Mapping Center, as part of the research project of the of Panamerican Institute of Geography and History (PAIGH-OAS) *Tactile maps and materials generation for understanding global warming and its relationship to natural events*.

The cartographic materials presented by Brazilian researchers are under evaluation in schools for the deaf and blind in Chile, Argentina, Brazil and Peru. They are currently

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Waldirene Ribeiro and Carla Gimenes with Jesús Reyes from the ICA Commission on Cartography for Children | Photograph courtesy of Alejandra Coll



under review and a set of recommendations for optimization and improvement will follow later in 2012. Once these didactic materials are fully evaluated and finalised, they will be released to benefit other countries in Latin America.

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

## Maps and the Internet

[maps.unomaha.edu/ica/](http://maps.unomaha.edu/ica/)

### Future Plans

The ICA Commission on Maps and the Internet will be holding a one-day commission meeting in conjunction with AutoCarto 2012 in Columbus, Ohio, 16-18 September 2012. Commission members are encouraged to attend and present their research at both, AutoCarto 2012 and the Commission meeting. Abstracts for the AutoCarto are due on 1 February 2012 with notice of acceptance by 15 March. The one-day Maps and the Internet Commission meeting will be organized by Dr Rex Cammack and abstracts are due on 1 April 2012.

People interested in the Commission work should contact Dr Cammack at [rcammack@unomaha.edu](mailto:rcammack@unomaha.edu) to be added to the mailing list.

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

## Planetary Cartography

[www.univie.ac.at/cnra/](http://www.univie.ac.at/cnra/)

### Commission Activities

In space research, realization of plans depends on the actual success or failure of space missions. Today more nations are involved in *in situ* planetary discoveries than ever before. The entry of newcomers into the field of planetary cartography is changing this field. New nations, new cultures, new mapping institutions with new approaches to the visual and textual aspects are appearing in planetary cartography. This field has not lost any of its excitements, but its goals and opportunities are changing. During the next four year term (2011-2015) ongoing missions will provide new raw materials for the planetary mapping communities throughout the world, such as higher resolution images from Mars, Mercury and the moons of Saturn. New missions will reveal the maps of worlds unknown before. In 2014, the surface of Comet Churyumov-Gerasimenko will be visited, in 2015, Dawn will visit and go into orbit around Ceres, the largest asteroid. In 2015 Pluto will be visited by a spacecraft for the first time. Merging old and new datasets, and using new techniques for analysing old



Front page of the virtual planetary maps website: [planetologia.elte.hu/globes/](http://planetologia.elte.hu/globes/) | Image courtesy of Henrik Hargitai

data can also provide new information for the armchair cartographer.

The entry of new nations into space discoveries will trigger a new wave of interest in planetary surfaces, especially that of the Moon, by the general public. Books and maps will be and are needed in countries that have not developed a system of nomenclature in their language for planetary features. We believe that it is important that readers of a planetary map understand the nature of features displayed and we will work on this topic. It will also be interesting to see how new visual representation methods will emerge which incorporate old traditions and new infographical visual methods.

A new project on the creation of the online database of international planetary maps is already available online at [planetologia.elte.hu/ipcd/](http://planetologia.elte.hu/ipcd/). This database is now the only online source for some of the best Russian planetary maps produced during the Soviet space era.

Another focus is planetary maps for children, who are very much interested in space and maps are a perfect medium for discovering these far, and unreachable lands. But for this armchair discovery purpose, a different approach is needed than for tourist maps. Alien surfaces, landforms never seen on Earth are difficult to visualize. How can we design the visuals and the content appropriate for children that enables them to make discoveries using planetary maps – this is one of the key questions for the next term.

As for the professional audience, we will be editing a new – actually, the first - encyclopedia of planetary landforms, which will provide an indispensable resource for planetary cartographers. This is a major and huge task for commission members, to participate in both the editorial and cartographic work of this encyclopedia.

At the 26th International Cartographic Conference in Dresden, 2013, we plan to show the public the full series of the multilingual maps of the terrestrial planets and their moons. This series was initiated ten years ago. Two series have been completed: one edited in Dresden, in world languages, and one in Budapest, in central European languages. The series was extended into virtual reality:

interactive maps of Mars, Venus, the Moon and Titan are now downloadable from the website [planetologia.elte.hu/globes/](http://planetologia.elte.hu/globes/).

We plan to start a newsletter about planetary cartography, which will include information about related events, conferences and publications, as well as regular information about newly released scientific and popular planetary maps.

For realizing such plans we need new volunteer members, individuals and those representing organizations, to start a detailed discussion about current topics between the national and international groups involved in any aspects of planetary mapping. It is also important to inform each other about current and future activities. So if you are interested in or already are involved in planetary cartography, please contact us and we can start a new and exciting work together

**Henrik Hargitai** | Chair | ICA Commission on Planetary Cartography | *Hungary* ●

## Theoretical Cartography

[rcswww.urz.tu-dresden.de/~wolodt/tc-com/](http://rcswww.urz.tu-dresden.de/~wolodt/tc-com/)

### Seminar in Paris, France

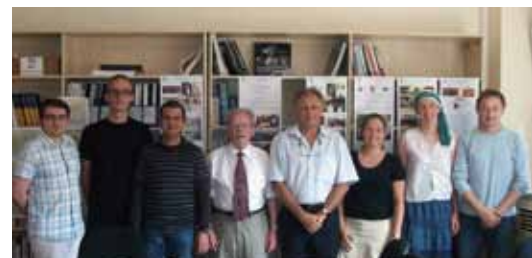
The ICA Commission on Theoretical Cartography held a one-day Seminar on 1 July 2011 at the Institut Géographique National (IGN) in Paris, France before the 25th International Cartographic Conference. The local facilitators were Charlotte Hoarau (Paris) and Alexander Wolodtschenko (Dresden).

At two oral sessions six papers were presented by Florian Hruby (Austria), Dmirty Nikolaenko (Ukraine), Irina Rotanova (Russia), Hansgeorg Schlichtmann (Canada), Evgeny Shokhenmayer (France) and Alexander Wolodtschenko (Germany).

Four posters complemented the Seminar programme. The round table discussion on *Quo vadis theoretical cartography?* finished the meeting. It was the last event of the Commission on Theoretical Cartography in the 2007-2011 term.

**Alexander Wolodtschenko** | ICA Commission on Theoretical Cartography | *Germany* ●

Participants of the ICA Commission on Theoretical Cartography seminar in Paris | Photograph courtesy of Alexander Wolodtschenko



## Use and User Issues

[www.univie.ac.at/icacomuse/](http://www.univie.ac.at/icacomuse/)

### Recent Activities

The ICA Commission on Use and User Issues is looking back with great pleasure and satisfaction to all that has happened this summer at the 25th International Cartographic Conference in Paris, France.

It all started with an exciting pre-conference workshop on User Issues in Public Transport Geoinformation, held on 1 and 2 July 2011 at IGN in Saint-Mandé. The workshop was organized by Commission Vice Chair David Forrest and Catherine Domingues of IGN provided logistical support. The company Steer, Davies and Gleave made a financial contribution (thank you!). Some 25 attendees, a good mix from academia, information design and the private sector, shared their insights through presentations, demonstrations and discussions. A special element was a provision of a realistic user experience with the information given (or not) to aid travelling within the Paris' public transport system. All workshop participants got the task to travel to certain destinations within Paris, using different modes of transport. In doing so, their use of and comments on public transport geoinformation (disseminated through map displays, signs, announcements, etc.) were recorded by an observer. The results of this realistic user test are going to be published and the workshop may form the foundation stone for a new Project Group that is going to pay specific attention to user issues in public

transport geoinformation under the facilitating wings of the Commission.

As far as the ICC 2011 is concerned, we are looking back at six very well attended oral sessions focussing on use, users and usability (at ICC 2009 there were four sessions and at ICC 2007 only one). The presentations are accessible through our website. There is a booming interest in this subject indeed, which was also obvious from the well-attended open meeting of the Commission which attracted some 50 colleagues.

Commission member Jenny Harding of the Ordnance Survey in Southampton represented the Commission at the special meeting of representatives of National Mapping Organizations at ICC 2011 and asked whether those organizations would be interested in sharing knowledge, thoughts and information on use and user issues related to the geographic information they provide. As a follow-up, Jenny has set up, in consultation with OGC, a dedicated on-line survey (also accessible through our website). This initiative may lead to the formation of yet another Project Group under the wings of the Commission.

This year, the ICA Commission on Use and User Issues completed its first term (2007-2011) in which many activities were executed. Because of the increasing interest in the subject, and because we have not completed all of our objectives (the book publication being the main one), the members of the Commission applied for a second term and we are now happy that the ICA General Assembly approved this. We will start the second term (2011-



Test subject and Use and User Issues Workshop participant finding her way with local geoinformation on the public transport system in Paris | *Photography Kristien Ooms*

2015) with partly revised terms of reference and with three Vice Chairs: Kristien Ooms (Belgium), Alex Pucher (Austria) and David Forrest (UK). Our first activities in the second term are some business meetings in November in Vienna (main subject being the book publication) and supporting the 4th Workshop on Usability of Geographic Information, which will be held on 17 January 2012 at Northumbria University in Newcastle, England. The topic of this workshop is *2D, 3D and moving usability findings into information design*.

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

## reports ica working groups

### International Map Year

At the 15th General Assembly of the ICA in Paris, July 2011, Sweden put forth a motion to promote and organise the International Map Year. To allow sufficient time, 2015 was proposed as a target year. The motion received endorsement of the General Assembly and the ICA Executive Committee has recently formed a Working Group and accepted the following terms of reference:

- Create a textbook on Cartography and Geographic Information for the general public
- Elaborate plans for national activities and establish national contacts
- Involve the ICA Commissions and Working Groups in the initiative
- Find sponsors among the affiliate members
- Establish contacts with the UN and the sister organizations (through the ICA Executive Committee and the Joint Board of Geospatial Information Societies (JBGIS))
- Produce information that can be used at national Map Days
- Follow up and update the working plan at the ICC 2013 in Dresden

One of the main tasks of the Working Group is to produce a book on cartography for the general public that can also be used as a textbook for

secondary schools and as a promotion to encourage interested students to take up cartographic and geomatics courses at tertiary level. The proposed content includes chapters on how to collect geographic information, how to produce a map both on paper and in electronic form for a homepage, and also describes map use and explains how maps work. It is hoped, the book will give students means to produce maps and introduce them, as well as the public, to geographic names, their source and spelling. The book is intended to be distributed via the Internet or transportable electronic media. Later, a printed version may be possible.

The other initiative involves organization of national programmes during the International Map Year. The ICA Working Group will prepare examples of activities that can be arranged by the national members. This might involve finding local organizers such as municipalities, universities and other interested partners. The Swedish Map Year in 2008 was a great success and the organizers really enjoyed demonstrating their work. Representatives from the local municipality, Karlstad University and Lantmäteriet (the National Land Survey of Sweden) organized the event. A local orienteering club displayed their maps and demonstrated the skill of orienteering.

The International Map Year to be successful requires active promotion and cooperation of all members and sister organizations. The ICA

## reports ica working groups cont...

Commissions, Working Groups and affiliated members have to be involved in different ways. The ICA has to cooperate with sister organizations directly and take advantage of its JBGIS membership. An idea to involve United Nations (UN) and present a paper at the UN Regional Cartographic Conference to be held in Bangkok in October 2012 has been tabled.

The ICA Working Group on International Map Year plans to set up a website and organize a meeting, probably at the AutoCarto in Columbus in September 2012, to discuss the content of the proposed book.

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

## Toponymy

During the ICC 2011 in Paris, a new Joint ICA/IGU Working Group on Toponymy was proposed. The following terms of reference were presented:

- To foster geographic/cartographic research in the field of place names
- To disseminate the scientific knowledge on processing and use of place names within geography and cartography
- To link the toponymy concepts used by other sciences such as anthropology and linguistics to those used in cartography and geography
- To support the establishment of national and regional boards on geographical names
- To support the efforts of international standardization of geographical names, such as undertaken by UNGEGN
- To maintain contacts and scientific exchange with UNGEGN and ICOS, such as by organizing joint events
- To support and encourage the elaboration and publication of gazetteers, toponymic data files and place-names reference systems (such as EuroGeoNames)

For the ICA part, Prof Paulo Menezes was asked to chair the Working Group. The IGU was contacted to organise the first joint meeting at the UGI 2011 in Santiago, Chile. According to the arrangements, the meeting date was set for Thursday, 17 November 2011 at the Conference venue. The meeting gathered Prof Ron Abler, President of IGU, Prof Paulo Menezes, Vice President of ICA, Prof Cosimo Palagiano and Prof Peter Jordan.

Opening the meeting, Prof Paulo Menezes made a short presentation covering the background, proposed terms of reference, relevant documen-



(From left) Cosimo Palagiano, Ron Abler, Paulo Menezes and Peter Jordan at the Joint ICA/IGU Working Group on Toponymy meeting in Santiago, Chile | *Photograph courtesy of Paulo Menezes*

tation, and meeting Agenda. Prof Peter Jordan explained the meaning of several terms and the importance of the joint ICA/IGU Working Group. The link between cartography and geography was also discussed with particular attention given to differences in the specific meaning of each term relating to both fields. However these differences can be addressed by interdisciplinary and even multidisciplinary approaches, which were of particular interest to ICA/IGU Working Group.

Prof Ron Abler proposed Prof Cosimo Palagiano as the IGU Chair of the Joint Working Group, which was subsequently accepted by the meeting. Following this, the Working Group consolidation was discussed mainly relating to the differences in the structure of Working Groups in the ICA and the IGU. An IGU Working Group has a Chair and a Co-chair, and seven to eight full members, forming a core group; other regular members, limited to a defined number (20-30) and restricted to one member for a country, complement the core group. It was agreed to adopt such composition in principle for the Joint ICA/IGU Working Group with two Chairs, each representing its association. Other aspects of the WG operation, such as a website, admissions to the WG, selection of full members, etc are still being worked on.

The next meeting of the Joint Working Group is scheduled for the 32nd International Geographical Congress of IGU, to be held in Cologne, Germany, 26-30 August 2012. A call for papers will be made soon with deadlines and submission formats. Relevant information will be published on the Congress website and also by the ICA and the new Joint Working Group.

**Paulo Menezes** | Chair | Joint ICA/IGU Working Group on Toponymy | Brazil ●

## reports cartographic meetings and events

### HYDROIND 2011

The Indian Naval Hydrographic Department (INHD) of the National Hydrographic Office (NHO), an affiliate member of the International Cartographic Association (ICA), organised an International Hydrographic Seminar HYDROIND 2011 under the theme *Hydrography – An Instrument for Regional Cooperation and Maritime Safety*. The Seminar was organised at the Manekshaw Centre at New Delhi on 3 and 4 March 2011. The Defence Minister of India, Shri AK Antony inaugurated the Seminar. The

Chief of the Naval Staff Admiral Nirmal Verma delivered the keynote address, to the eminent gathering during the inaugural function. The President of International Hydrographic Organisation Vice Admiral Alexandros Maratos also graced the occasion.

An Exhibition was organised along with the International Hydrographic Seminar. The exhibitors comprised participants from the industry who showcased the latest developments in the field of hydrography and cartography. Most of the leading hydrographic equipment manufacturers from all over the world had put up stalls showcasing their products. A stall showcasing

the services and products including ENC's marketed by the Indian Naval Hydrographic Department was also on display in the exhibition. The seminar attracted a varied participation from a wide diaspora of hydrographers, cartographers and professional in allied fields including the maritime industry.

A total of 30 papers were presented by representatives from the hydrographic and cartographic community, and also the industry. The topics covered varied from models for hydrographic data and information sharing at regional level (existing scenarios and future plans) to the topic of peculiarities and nuances

of human resource management in hydrographic surveying. The seminar was a huge success and attracted wide participation from national and international hydrographic, oceanographic communities, the academia, researchers and the delegates from related industries. The inaugural session attracted around 750 people. The other sessions attracted around 300 delegates. Presentations were delivered concurrently in ten sessions, five in each stream with minimum of three speakers per session. All sessions were well attended.

A gala evening and dinner was organized at the Naval Officers Mess, Varuna, New Delhi on 3 March 2011. The participants were enthralled with the display of folk dances and relished the cuisine thereafter.

At the closing session of the International Seminar HYDROIND 2011, Vice Admiral BR Rao, the Chief Hydrographer to the Government of India summarised the event as follows:

- Acknowledge and accept the “user aspiration” as the utmost important factor in all our dealings
- Harness the available technology to provide the best possible hydrographic services: accurate, reliable and up to date
- Carry on board all stake holders in the business of providing for hydrographic services to keep our marine environment safe and clean, duly respecting their individual concerns
- Respect intellectual property rights and dovetail them in our business
- Promote cooperation in hydrography in a “win-win” model to fructify the vision of International Hydrographic Organisation.

The International Hydrographic Seminar provided a good exposure to showcase the capabilities of the Naval Hydrographic Department and gave an insight into the growing technologies the world over. The Seminar provided a forum for healthy discussions and deliberations on the various important issues in the field of hydrography and related sciences. The Seminar provided the apt platform to highlight the importance of ‘hydrography’ in the field of regional cooperation and maritime safety. The wide participation

Keynote address by Admiral Nirmal Verma at the opening session of HYDROIND 2011, New Delhi, India | Photograph courtesy of RB Menon



from hydrographers and professionals alike and the goodwill generated amongst the participants during the Seminar epitomises the successful completion of ‘HYDROIND 2011’.

**R. B. Menon** | Joint Director of Hydrography | National Hydrographic Office | India ●

## Joint ICA Symposium on Maps for the Future

In 2005, before the International Cartographic Conference (ICC) in A Coruña, five ICA Commissions organized a successful Joint Conference at the Technical University of Madrid, Spain. Following this tradition, four ICA Commissions (Cartography and Children, Education and Training, Maps and the Internet and Planetary Cartography) and a Working Group (Cartography on Early Warning and Crisis Management) organized a Joint Symposium entitled *Maps for the Future: Children, Education and Internet*. The event was held at the University of Orléans, France on 31 June and 1 July 2011. The organization of the professional aspects of the event, i.e. the website, call for papers, gathering of presentations, preparing the programme and publication of the proceedings was assumed by the Department of Cartography and Geoinformatics at Eötvös University (Budapest, Hungary). The event was supported by colleagues from the Laboratory Centre d'Etudes pour le Développement des Territoires et l'Environnement (CEDETE) and especially by Vanda Turczi, who was responsible for the organization of local activities and public relations. The low registration fee (100 EUR) included the participation in a Wine and Cheese Tour after the first day of activities, the Farewell Cocktail on the second day and a guided tour of the city the day after the event ended.

Each day began with a Plenary Session given to nearly 60 participants from 19 countries.

Keynote speakers included:

- William Cartwright (Australia): *International Associations and the Provision of Outreach Programmes for Education and Training*
- Ferjan Ormeling (The Netherlands): *Exercises in Cartography*
- Milan Konečný (Czech Republic): *Research Agenda of Early Warning and Disaster Management: Cartographical and geoinformatics aspects*
- Georg Gartner (Austria): *Mobile Internet Cartography*

26 oral presentations divided into six thematic sessions, a workshop on *School Cartography* and the poster session were delivered during this two-day event. The session titles give an idea about the variety of themes presented during the Symposium:



Participants of the Joint ICA Symposium on Maps for the Future in Orléans, France

Cartography in Education (4 papers), Internet and Cartography (5 papers), Tactile Cartography in Schools (3 papers), Children map the world (5 papers), Development of Brazilian Cartography for Children (4 papers) and Diversity in Cartography (5 papers).

All papers and posters were published in the CD-Rom Proceedings. A soft copy version of the proceedings can be downloaded as a PDF document from the ICA Commission on Cartography and Children website ([lazarus.elte.hu/ccc/pdf/orleans2011.pdf](http://lazarus.elte.hu/ccc/pdf/orleans2011.pdf)). A selection of papers from the Symposium will be published by Springer-Verlag under the title *Maps for the Future (Children, Education and Internet)* in the Lecture Notes in Geoinformation and Cartography series. The tentative date for publication is 31 January 2012.

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

## 19th Joint Slovak and Czech Cartographic Conference

The 19th Joint Slovak and Czech Cartographic Conference was held at the Faculty of Civil Engineering, Slovak University of Technology (SUT) in Bratislava, 8-9 September 2011. These joint conferences are organized every two years alternatively in Slovakia and Czech Republic. The conference was attended by 110 cartographers, geo-information scientists and guests, including President of the International Cartographic Association (ICA) Prof Georg Gartner. This was his first journey abroad > 22



Representatives of the Cartographic Societies of the Slovak Republic and Czech Republic together with President of the ICA; (from left) Ján Feranec, Miroslav Mikšovský, Georg Gartner (President of ICA), Róbert Fencík and Jozef Čížmar | Photograph courtesy of Jan Feranec

in the office after election in Paris. Prof Gartner in his introductory address *Modern Cartography: Technology and Implications* pointed out the importance of Central Europe in the development of cartography, support for ICA in the area of modern technologies, acquisition of spatial data and their interpretation, cooperation with the ICA commissions and participation at the ICA conferences and seminars. His talk received a deserved attention of the audience. Prof Gartner was also received by Prof Alojz Kopáček, Dean of the Faculty of Civil Engineering at SUT.

The Conference delivered 30 papers in plenary sessions and 18 posters in the poster session. Papers were predominantly devoted to the processing and generation of different types of spatial data and the possibilities of their presentation in analogue and digital forms including web services. The specialised programme contained presentations by the sponsoring organizations, which demonstrated their activities and offered solutions for cooperation in preparation of maps.

An important part of the conference was the exhibition of cartographic publishers and schools, which produce future cartographers. Another accompanying event of the Conference was the national exhibition of the artistic and cartographic drawings, part of the Barbara Petchenik Children's World Map Competition 2011 organized under the auspices of the ICA. The theme of the competition was *Living in Globalized World*.

The conclusions of the Conference emphasized the importance of cartography in information society and its tasks in processing and provision of geographical information in the context of different spatial activities. The 20th Cartographic Conference of Czech and Slovak Cartographers will take place in 2013 in the Czech Republic.

Róbert Fencík, Ján Feranec and Jozef Čížmar | Cartographic Society of the Slovak Republic | Slovakia ●

## 3rd Croatian NSDI and INSPIRE Day 7th Cartography and Geoinformation Conference

The 3rd Croatian NSDI and INSPIRE Day and the 7th Cartography and Geoinformation Conference, organized by the Croatian Cartographic Society and the State Geodetic Administration were held at the Faculty of Civil Engineering, Architecture and Geodesy of the University of Split, 14-16 September 2011. Co-organisers of the conference were: the Faculty of Civil Engineering, Architecture and Geodesy of the University of Split, the Faculty of Geodesy of the University of Zagreb and the Hydrographic Institute of the Republic of

Croatia. The Croatian NSDI (National Spatial Data Infrastructure) and INSPIRE (Infrastructure for Spatial Information in the European Community) Day was organized for the third time with an idea to speed up the implementation of SDI in Croatia and to develop a geo-enabled society. This time activities on the transposition of the INSPIRE directive into the national legislative were emphasized.

After the conferences in Zagreb in 2004, 2005 and 2006, the conference in Zadar in 2007, in Varaždin in 2009, and in Opatija in 2010, the Croatian Cartographic Society organized the 7th Conference in Split in collaboration with the State Geodetic Administration. The conference was attended by about 180 participants, including guests from Austria, Bosnia and Herzegovina, Bulgaria, Czech Republic, France, Japan, Hungary, Macedonia, The Netherlands, Germany, Slovenia, Serbia and Sweden. 48 presentations were held during the two day conference.

After the participants were welcomed, the Opening Ceremony continued with signing the *Agreement on Exchange of Cartographic Materials* between the Institute of Geodesy, Cartography and Remote Sensing of Hungary and the State Geodetic Administration of Croatia.

Thirteen presentations were held during the first day of the conference. The conference continued by visiting the Map Archive of Istria and Dalmatia, the Croatian Maritime Museum and the newly opened Museum of the Hydrographic Institute of the Republic of Croatia. At the end of the first working day, all participants were invited to enjoy the welcome reception.

The second day of the conference was dedicated to cartography and geoinformation. The President of the Croatian Cartographic

Participants of the 3rd Croatian NSDI and INSPIRE Day and the 7th Cartography and Geoinformation Conference in Split, Croatia | Photograph courtesy of Miljenko Lapaine



Society, Nada Vučetić, addressed the participants. The conference continued with the following keynote presentations:

- Georg Gartner, President of the International Cartographic Association (ICA): *Modern Cartography and the Role of the International Cartographic Association*
- Temenoujka Bandrova, President of the Bulgarian Cartographic Association: *Three-Dimensional Mapping – Conceptions and Challenges*
- Dušan Petrovič, President of the Section for Cartography of the Slovenian Geodetic Association: *Use of Airborne Laser Scanning Data for Updating Topographic Maps and Databases*

A short break was followed by the Spatial Data Infrastructures Workshop, organized by the Association for Geospatial Information in South-East Europe (AGISEE). During the workshop, Ulrich Boes (AGISEE President) held the keynote lecture *Spatial Data Infrastructure in South-East Europe-Challenges and Solutions*.

Two sessions took place at the same time in the afternoon, with presentations on INSPIRE, Spatial data infrastructure in European countries, National spatial data infrastructure, Development of spatial databases, Spatial data quality, Spatial data visualization, GIS in local community and enterprise, Cartography and geoinformation in geosciences, Cartography and geoinformation in crises management, Maritime, military and topographical cartography, Cartography and Internet, Cartographic generalization, History of cartography and geoinformation, and other themes. A very interesting talk was given by Milan Konečný, former President of the ICA, on cartographic potentials in disaster management.

A full-day tour to the island of Vis was organized on the last day of the conference. The tour started in the Lora military harbour aboard the Croatian Navy ship *Andrija Mohorovičić*. During its journey to the island of Vis, the ship performed control of the protected ecological and fishing zone of the Republic of Croatia.

The conference was accompanied by the map exhibition *Split and Dalmatia on Plans and Maps*, which was set up in the entrance hall of the Faculty of Civil Engineering, Architecture and Geodesy.

The Program and Proceedings of the 3rd Croatian NSDI and INSPIRE Day and the 7th Cartography and Geoinformation Conference were published in Croatian and English. Presentations of all participants and photographs from the conference can be viewed on the Croatian Cartographic Society website [www.kartografija.hr](http://www.kartografija.hr).

Miljenko Lapaine | Croatian Cartographic Society | Croatia ●

## Barbara Petchenik Children's Map Award Goes to New Zealand

Monday, 26 September 2011 started very early for Michelle Cooper, New Zealand coordinator of the Barbara Petchenik Children's Map Award, and Igor Drecki, Vice President of the New Zealand Cartographic Society, as they both had to get up at 5am in order to meet the logistical demands ahead of them. Michelle had to get to Wellington Airport and catch a plane to Tauranga, while Igor had to leave Auckland before 6am by car to get to Tauranga Airport and collect Michelle at 9.20am. From there, together, they had to get to Tauranga Boys College by 9.30am. An easy plan that required logistical planning, fine tuning and precise execution. They made it, and the glorious day was a reward for their effort.

Tauranga Boys College has amongst its pupils someone extra special, particularly for us – cartographers and New Zealanders. His name is Hayden Livingstone, a Year 11 student, who had already won the national mapping competition twice, but this time in the 13-15 age group category. His incredible drawing (reproduced on the back cover of this issue of *ICA News*) showing hands rotating a Rubik cube with the map of the world plastering its sides, ingeniously titled *The World at my Fingertips - Remains a Puzzle* has won again, this time at the international level. The International Cartographic Association's (ICA) Barbara Petchenik Children's World Map Award for 2011 was awarded to Hayden in Paris, in front of the entire assembly of cartographers from around the globe.

Hayden's award was truly a special one. Not only he was the first ever New Zealander to win this Award, but he also did it in 'style'! For the first time ever, seven members of the international jury independently selected Hayden's drawing as a winner. This has not happened before in the competition's 18-year history (since 1993). But that wasn't all! The best drawing selected by the official jury was also selected as the best by public vote. Again, this has not happened before in all nine international competitions so far (the Barbara Petchenik Children's World Map Award in Paris was the 10th anniversary competition).

As you can imagine, both Michelle and Igor could not resist coming to Tauranga to meet Hayden, congratulate him on his achievement and hand over the certificate and a monetary award from the ICA. As it turned out, Hayden is a modest young man, very humbled by the stir he created with his map. Perhaps there is something for us, professional and academic cartographers, to learn from this budding cartographer – strive for the best and always be surprised by recognition.



Hayden Livingstone (centre) being congratulated on his achievement by Michelle Cooper (left) and Igor Drecki | Photograph courtesy of Tauranga Boys College

It was truly a glorious day, not a cloud in the sky...

Igor Drecki | New Zealand Cartographic Society | New Zealand ●

## UN First High Level Forum on Global Geospatial Information Management

The United Nations First High Level Forum on Global Geospatial Information Management (GGIM) was held in Seoul, South Korea from 24 to 26 October 2011. The International Cartographic Association was well represented at the Forum by President Georg Gartner, Vice President Tim Trainor and Immediate Past President William Cartwright, in his position as Chair of the Joint Board of Geospatial Information Societies (JBGIS). Also at the meeting were ICA 'family' members, i.e. Professor Fraser Taylor, former President of ICA and current Chair of the International Steering Committee for Global Mapping and Professor Ferjan Ormeling, former ICA Secretary General and Treasurer and a member of the United Nations Group of Experts on Geographical Names (UNGEGN).

The Seoul meeting followed from Resolution 2011/24 of the United Nations Economic and Social Council, which formally recognised that international cooperation in the field of global geospatial information was needed. The Economic and Social Council established a new intergovernmental body – the UN Committee on Global Geospatial Information Management (GGIM).

The first High Level Forum on Global Geospatial Information Management was jointly organised by the National Geographic Information Institute (NGII) of the Republic of Korea, the United Nations Statistics Division of the Department of Economic and Social Affairs (UNSD) and the United Nations Cartographic Section of the Department of Field Support (UNCS). The meeting was supported by

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Representatives of the Joint Board of Geospatial Information Societies at the United Nations First High Level Forum on Global Geospatial Information Management (GGIM), Seoul, South Korea | Photograph courtesy of William Cartwright

the Permanent Committee on GIS Infrastructure for Asia and the Pacific (PCGIAP), the Permanent Committee for Geospatial Data Infrastructure of the Americas (PC-IDEA) and the Committee on Development Information, Science and Technology (CODIST) for Africa.

The meeting was organised to address the *"...global coordination of geographic information management, including consideration of the possible creation of a United Nations global forum for the exchange of information between countries and other interested parties, and in particular for sharing best practices in legal and policy instruments, institutional management models, technical solutions and standards, interoperability of systems and data, and sharing mechanisms that guarantee easy and timely accessibility of geographic information and services."*

The focus of work that needs to be done is to develop a global strategy on the vision for global geographic information management. In order to progress this global initiative the first World Conference focusing on Global Geographic Information Management was held in Seoul, along with complementary meetings.

At the opening of the meeting, formal addresses were given by the Prime Minister of the Republic of Korea, Mr Hwang-Sik Kim, the Under-Secretary General of United Nations Department of Economic and Social Affairs, Mr Sha Zukang and Professor William Cartwright. Professor Cartwright also presented a keynote paper on *International Coordination and Cooperation in Meeting Global Needs* on behalf of the JBGIS.

At the completion of the Seoul meeting, the Seoul Declaration on Global Geospatial Information Management (GGIM) was issued.

The declaration noted that the participants at the first High Level Forum on Global Geospatial Information Management resolved to:

- express support for the initiative of the United Nations to foster geospatial information management among UN Member States, international organizations, and the private sector; and in this regard:
- take actions to foster and strengthen national, regional and global cooperation with the aim of developing an interconnected global community of practice on geospatial information under the umbrella of the United Nations
- devise effective processes for jointly and collaboratively promoting common frameworks and standards, as well as harmonized definitions and methods for the treatment of national geospatial data in order to enhance geospatial information management at the national, regional and global level
- share experiences in policy-making, supporting legislation, and funding strategies, to encourage and develop best practices in geospatial information management (i.e. collection, storage, maintenance and dissemination) at all levels, including integration of spatial data with thematic data from other sources, and to facilitate and promote capacity development in the developing countries.

Attendance and presenting at this meeting provided the opportunity for ICA to be involved in the development of foundation aspects and to support the development of the GGIM.

**William Cartwright** | Chair | Joint Board of Geospatial Information Societies | Australia ●

## ICA Commission Chairs Meeting

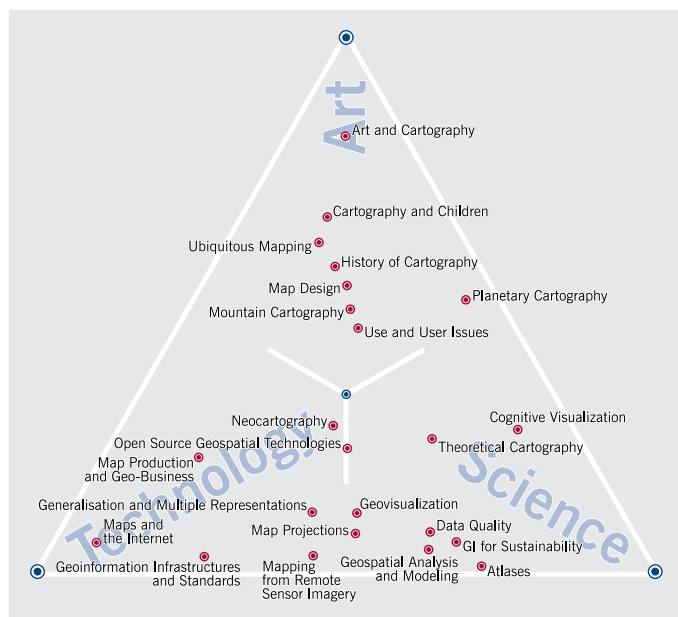
Following on from the requests made by the commission chairs at the General Assembly of the International Cartographic Association (ICA) in Paris, the ICA Executive Committee (EC) invited all commission chairs, vice chairs and commission representatives to an intensive two-day meeting. The meeting took place at the Vienna University of Technology in Vienna, Austria, between 24 and 25 November 2011. At the end, 45 participants representing almost all ICA Commissions and the EC came to Vienna.

The overall aim of the meeting was to get to know each other better, share and exchange information, enhance the fundamental understanding of our discipline, discuss the role of ICA, and learn about practical aspects of running an ICA Commission successfully. The meeting's aims and structure followed that of similar meetings held in Budapest in 2003 and Prague in 2004.

The first day focused on "discussing and sharing" and concentrated on strategic issues. In the introductory session, all participants were invited to introduce themselves and share their motivation for being affiliated with the ICA. In an open floor discussion, many Commission chairs took the opportunity to express their opinions and offered constructive remarks or comments regarding ICA business in general, as well as making many useful suggestions and proposals relating to more detailed issues. Later on, all participants were invited to share their views on a set of identity questions. In a so-called "positioning" exercise the participants were asked to "name" themselves. The majority identified themselves as "cartographers", followed by "geographers" and "geoinformatics experts". Other terms like "mappematician", "geovisualizer" or "spatial technology communicator" were also mentioned.

In another exercise, the Commission chairs were asked to define relationships between a particular commission and other ICA commissions, and identify the position of their own commission within a triangle which had art, science and technology at its extremities (see Figure at the top left of page 25). Participants were also asked to identify fields and domains relevant to cartography, point out links and relationships with external organisations that are important to ICA, and finally identify the benefits of having an international organisation such as the ICA. A joint dinner in a typical Viennese restaurant finished off the first day.

The second day was dedicated to the operational issues. Going through the relevant statutes, by-laws, guidelines and documents, all aspects of operating an ICA commission were discussed. Members of the EC clearly stated all requirements and expectations to commission chairs, while chairs voiced a



ICA Commissions (selection) matrix in the Art – Science – Technology space

number of useful comments and suggestions relating to some particular practical issues. Evaluation of these ideas will be undertaken, possibly leading to the actual operational changes within the 2011-2015 term.

The ICA Research Agenda is a useful instrument of ICA operation. All participants were offered the opportunity to comment on the relationship between the existing ICA commissions and potential development of a Body of Knowledge for the cartography domain.

Next, the ICA publication programme was discussed. Apart from reminding the participants about the role of the ICA Publications Committee and web masters, some controversial ideas about future plans related to ICA publications were discussed in detail. These discussions will be followed up in the near future.

Finally every participant had the chance to give a final statement on any matter relating to the meeting or the ICA in general. Those statements reflected very nicely the bonding spirit which was present during this two-day meeting. A mutual understanding of cartography and ICA related issues was reached by all participants. This understanding of our discipline and its relevance in today's world, as well as the important role of the ICA, is a solid foundation for strong collaboration and support of the entire ICA community in the coming years.

**Georg Gartner and László Zentai** | President / Secretary General & Treasurer | ICA ●

## 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 recent ISO/TC 211 activities.

ISO/TC 211 has now published 36 International Standards, eight Technical Specifications and three Technical Reports (see <http://www.isotc211.org>). Over the last two years, the following were published:

- ISO 19110:2005/Amd 1:2011, *Geographic information – Methodology for feature cataloguing – Amendment 1*
- ISO 19118:2011, *Geographic information – Encoding* (also available in French)

- ISO/TS 19130:2010, *Geographic information – Imagery sensor models for geopositioning*
- ISO 19131:2007/Amd 1:2011, *Geographic information – Data product specifications – Amendment 1* (also available in French)
- ISO 19142:2010, *Geographic information – Web Feature Service*
- ISO 19143:2010, *Geographic information – Filter encoding* (also available in French)
- ISO 19146:2010, *Geographic information – Cross-domain vocabularies* (also available in French)
- ISO 19149:2011, *Geographic information – Rights expression language for geographic information – GeoREL*

New projects that have commenced over the last couple of years are:

- ISO/TS 19150-1, *Geographic information – Ontology – Part 1: Framework*
- ISO 19150-2, *Geographic information – Ontology – Part 2: Rules for developing ontologies in the Web Ontology Language (OWL)*
- ISO 19154, *Geographic information – Ubiquitous public access – Reference model*
- ISO 19156, *Geographic information – Observations and measurements*
- ISO 19157, *Geographic information – Data Quality*
- ISO/TS 19158, *Geographic information – Quality assurance of data supply*
- ISO/TS 19159-1, *Geographic information – Calibration and validation of remote sensing imagery sensors – Part 1: Optical sensors*
- ISO 19160, *Addressing*
- Revision of ISO 19101-1:2002, *Geographic information – Reference model – Part 1: Fundamentals*

- Revision of ISO 19110:2005, *Geographic information – Methodology for feature cataloguing*
- Revision of ISO 19109:2005, *Geographic information – Rules for application schema*
- Revision of ISO 19115-1:2003, *Geographic information – Metadata – Part 1: Fundamentals*
- Revision of ISO 19119:2005, *Geographic information – Services*

Five of these new projects are actually led by members of the ICA's Commission on Geoinformation Infrastructures and Standards, namely Dr Jean Brodeur (ISO 19101-1, ISO/TS 19150-1 and ISO 19150-2), Mr Dave Danko (ISO 19115-1 – ISO/TC 211's best-known standard) and Dr Serena Coetzee (ISO 19160).

Of particular interest to the cartographic community should be ISO/TC 19158, which provides a framework for the production relationship between a producer and their customer. It identifies methods of managing the quality of production more efficiently and effectively, drawing on ISO 19157 and ISO 9000:2005, *Quality management systems – Fundamentals and vocabulary*. ISO 19157 combines and revises the three standards, ISO 19113:2002, *Geographic information – Quality principles*, ISO 19114:2003, *Geographic information – Quality evaluation procedures*, and ISO/TS 19138:2006, *Geographic information – Data quality measures*.

ISO 19160 is a Stage 0 project, which means that it has been reviewing the standards that are needed for all types of addressing, be they for post, emergency response, utilities, financial or other services, or just visiting people. The project team has proposed that five standards be developed: ISO 19160-1, *Addressing – Conceptual model*, ISO 19160-2, *Addressing – Good practices for address assignment schemes*, ISO 19160-3, *Addressing – Quality management for address data*, ISO 19160-4, *Addressing – International postal address components and templates*, and ISO 19160-5, *Addressing – Address rendering for purposes other than mail*.

ISO/TC 211 has also compiled a comprehensive Standards Guide, which provides a detailed overview of all the standards published by ISO/TC 211. The guide is now available in six languages: Arabic, Chinese, English, Japanese, Russian and Spanish.

The 33rd Plenary was held in Centurion, South Africa, on 17 and 18 November 2011, preceded by Working Group, Project Team and other meetings. The 34th Plenary is scheduled for Toulouse, France, on 7 and 8 June 2012, and the 35th Plenary for Jeddah, Saudi Arabia, on 11 and 12 December 2012.

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

## ICC 2011: Some personal views and experiences

It was fitting that this Congress and conference were held in Paris, 50 years since the first formal congress. How much has changed since 1961? Cooler than usual, fine summer weather welcomed the early cartographers to the French capital.

On 1 July, my first full day I worked out how to get to the Palais des Congrès and also to the Bibliothèque National de France (Richelieu). At BnF I met a group discussing intellectual property and cartography in the Russian Federation. This was an excellent start to a free exchange on information by experts. On the following day after a short Metro journey back to BnF, this time to the scheduled workshop of the Commission on the History of Cartography. Paul van den Brink from Utrecht opened proceedings with a useful review of what he had found the most useful sources of information on maps. After coffee we settled into a demonstration and a hands-on session on Bernhard Jenny's easy to use MapAnalyst. Calling it a map comparison package Alastair Pearson reviewed its aims and potential for critiquing old when compared with contemporary maps of similar scales. He soon had us working on two versions of some 1:1 million maps of Baluchistan to undertake a point-by-point comparison, leading to a visualisation of ways in which the older map differed from the newer, without cumbersome overlays. The value of MapAnalyst for exploring the nature of older maps was immediately evident. After a convivial lunch in the BnF staff canteen we reconvened for visits to the reading room of Cartes et Plans or after a interval to the new BnF François Mitterand. A small but elegant exhibition of aspects of exploration, mostly in French Africa, awaited us at the Mitterand site. Olivier Loiseaux took us through it at break-neck speed to convey the impression of notes taken despite the hardships of travel in tropical Africa. The other exhibition some distance from the Palais des Congrès was held at St Mandé town hall.

Sunday, 3 July was marked by the first session of the ICA General Assembly, postponed by two hours because buses replaced Line 1 of the Metro which is being refurbished. Fortunately the prompt arrival of all the senior delegates encouraged serendipitous conversation. When we squeezed into Room 250, observers like me, had to sit at the back next to the empty seat for Yemen. Apart from the routine items on the agenda, things became lively when delegates listened to reasons for and against the General Assembly's changing the adhering body for Bulgaria. The drama was reduced by the absence of the sitting representative who had submitted a statement to be read out. Voting on this and other issues was left until Friday. A pleasant picnic lunch and glass of wine put us all in a better mood. Resuming after lunch, business was dispatched efficiently. Registration desks opened and gave us bags with personal ID badges, a memory stick with proceedings, programme and exhibition catalogues. Digital compilation obviously made this all possible with additions and alterations made at the last minute.

In the main hall the exhibitions and commercial stands were fast taking shape to be ready for the official opening in the Blue Room, easily found on the map of the venue in the A4 paper programme. Although extremely comprehensive and useful, the attractive colour coding was tempered by the small text used for details of scientific sessions. Without perfect vision, even with glasses, I made several mistakes about room numbers. The integrity of the programme sessions was maintained by their chairs to allow delegates to switch from room to room because every speaker was given 17 minutes. I heard no complaints about missing someone's paper because the chair had rescheduled the session.

Our only visit to the Blue Room was for the Opening Ceremony. Unlike most ICA conferences I have been to, it avoided the cultural entertainment. I appreciated how it was business-like, headed up by representatives of the relevant Ministry for Sustainable Development, sponsors and the organisers and included a keynote address by Jean Christophe Victor all in 90 minutes. Lunch was taken standing up as a change from sitting through

the first session. All the seats seem to have been taken by those who were emailing in what turned out to be a free wi-fi zone.

Monday's programme featured a special series of sessions devoted to the work of the late Jacques Bertin. Here translations were essential as many of the contributors were French, with considerable effort to explain aspects of his *Sémiologie Graphique* and its importance for cartography internationally. There was plenty to discuss even up to 7pm! I would not have missed this for any of the seven alternative sessions.

That was the problem: the rich mix of eight parallel sessions was overwhelming. However most of the papers were in the proceedings. Some were also in the ICA official journals, *Cartographica* and *The Cartographic Journal*, and others in two volumes specially published for ICA by Springer Verlag. Called oral presentations, these papers fall into two categories: full or long papers; and those which comprise bullet points and illustrations to accompany the actual oral presentation. There are still too many presenters who read their PowerPoint texts word for word. Some have no illustrations at all! I felt that it was unfortunate that one had to have a laptop to read the papers.

Tuesday's programme offered the chance of sampling the work of more than one group of young researchers investigating well designed projects. Location based services with intimidating paper titles masked some fascinating insights into work on how individuals could navigate with LBS devices in small cities. I found time to sample a UK paper on national styles of topographic maps – hazy mirrors of the countries? I also managed to get onto the BnF visit to the Richelieu site.

On Wednesday morning I chose cognition and mental map but found little appealing. After the break, network and route brought me back to the city streets and navigation with some genuine analysis of mental mapping in a small Brazilian city. After lunch representations of space over time brought some disappointment on collecting, but an illuminating series of New Zealand map-based imagery by a non-cartographic designer posing questions and hazarding answers. Late afternoon was for the exhibitions. The Barbara Petchenik



competition was well lit, so easy to pick winners. That could not be said for the national map exhibits, some almost in darkness. Quirky and conventional, new and old, large and medium scale were all on offer. My favourites were not those which won the prizes in the end, but that was not unusual. Future exhibitions must secure adequate illumination and enough space to be set aside. Atlases and books were well displayed just beyond the 1:100,000 scale paper carpet of France by IGN. That was at just the scale to allow the appreciation of the different "pays" and the modern axes and conurbations: a useful balance between detail and the vision of more than one could see from the intercontinental flight crossing the country.

Thursday was digital heritage and history of cartography day where I learned how to operate the digital lecterns. Two sides of the same coin with fascinating, highly technical research using maps animated by Prof Livieratos. In the afternoon more conventional history of cartography was well represented. As with some other sessions presentations were often short on illustrations of the maps talked about.

There was plenty of time to walk back to the hotel and change for the Gala Evening, not feeling too overdressed for the Metro to Bibliothèque National. Cooler and windy near the river we moved into what looked like a back door into a long gallery. Our exhibition was 700m away. The fear of missing out on cocktails in the presence of the Sun King's three-metre globes kept us together. Mingling, gossiping and politicking in between modest glasses of champagne and exquisite canapés and mini-desserts could have been over in an hour and a half. I heard no speeches and the baby grand piano could barely be heard above the buzz of conversation and recrimination. The brasseries near the Metro did well that evening. Unfortunately the *Daily News* had mentioned a Gala Dinner...

Friday started with my helping to chair sessions on the history of cartography. It is traditional that chairmen get ready to ask the first question. Fortunately I had help from the audience – even better. Issues such as map use, field work jostled with geo-referencing. I always find it fascinating to see familiar

## ICC 2011 :: General Reflections and Afterthoughts

- All participants who attended paper sessions would have been impressed by the visual presentation. Technical help was on hand and so were microphones. The Conference's *Daily News* appeared for four days starting with 5th July (see page 34 for ICC 2011 publications). Its content was eclectic and combined important events in the scientific programme as well as "breaking news" alerting us to what was about to happen. Posters were treated seriously and were hard to miss. The same system usefully enabled Commission chairs to report on their work since 2007.
- Although there were many papers approved for presentation or posters, it was and is still difficult to contact authors of those one has not been able to listen to. Perhaps future proceedings will include email addresses, at least to the digital versions.
- It seems strange that there was no list of delegates, yet again. If this had been available on line via the conference web site subject to the registrant's password, it would also have helped to establish some useful contacts. Scanning the list by country

of residence, or just by name could have enhanced the conference experience.

- Hands-on workshops did occur, but are not yet common. Attention should be given to advice for contributors.
- Commission meetings before (or after) the main conference have long been a feature of ICCs. Consideration should be given to persuade those who go to these meetings to also attend all or part of the main conference. Perhaps a discounted registration fee would help. Bear in mind that Commissions also have to charge a registration fee to cover their costs. The scientific value of such specialised meetings is unquestionable.
- Apart from there being insufficient seating, the entire agenda of the Closing ceremony worked well. It was very useful for the chairman of the exhibition judges to be able to remind us of what the prize winning maps looked like. It also provided some variety of approach and speaker. Too much time was lost with applause.

techniques employed to tease out the significance of available evidence. We were treated to rural Arab settlements in Palestine, remnants of Byzantine cities in Macedonia, the (re)discovery of a world map found in Morocco, relief shading of the Grand Canyon, the accuracy of pre-19th century maps of the Gulf coast in North America. Meanwhile the second session of the General Assembly was deciding on the future shape of the ICA.

There was still one more session of papers between lunch and the closing ceremony. For the history of cartography there was a useful summary of the origins of the Institut Géographique National (France) with reference to some of the memoirs produced by retired employees of IGN. We discovered that some of the early modern mapping of Japan was done by French cartographers invited there to assist Japan's modernisation in the second half of the 19th century. Finally the history of Recife in Brazil was explored through maps, both Dutch and Portuguese.

Such intellectual effort left one tired and not prepared for the last minute change of venue for the Closing ceremony, which included some neat reports on the awards made to winners of the Barbara Petchenik children's mapping, the

categories of items in the map exhibition and ICA awards. A large group of us waiting outside the Blue Room mostly had to stand for well over an hour while all the reports and results of votes were delivered. Apart from the discomfort, the ability to see images of winning exhibits helped enormously. Voting for the venue of the 2015 Congress went in favour of Brazil. An overwhelming impression was that the careful planning and thoughtfulness of the bid from Washington, DC including a guaranteed budget cut no ice against the promise of a spectacular site in Rio de Janeiro, which was as vague as it was appealing. Despite budgetary difficulties affecting the Paris congress, member countries voted with their hearts.

After the proceedings were over and the ICA flag handed over to Dresden, the top table was besieged by well-wishers and old friends, cards and promises were exchanged and that normal sense of anti-climax took over. The walk back to the hotel, past shops that were open for business was a novelty. After packing I succumbed to the temptation of a decent dinner of steak and frites just across the street.

**Christopher Board** | British Cartographic Society | United Kingdom ●



*Left to right*

Opening Ceremony of the 25th International Cartographic Conference at the Palais de Congrès, Paris, 4 July 2011 | *Photography Bernard Delbey*

Visit to the Map Room of the Bibliothèque National de France at Richelieu site | *Photography Christopher Board*

Display of maps at the International Cartographic Exhibition, ICC 2011 | *Photography Bernard Delbey*

The 1:100,000 scale "Carpet map" of France by IGN at the main Conference Hall served as a meeting point for many participants | *Photography Bernard Bezes*

## 15th General Assembly of ICA

The 15th General Assembly of the International Cartographic Association (ICA) took place in Paris, France, on 3 and 8 July 2011. ICA wishes to express its appreciation to delegates representing the ICA member nations who attended the 15th General Assembly and took part in the important business of receiving reports of ICA officers and Commission Chairs for the 2007-2011 term, accepting national reports on cartographic activities from member nations, approving the financial management of our Association and confirming ICA awards bestowed by the Awards Committee. In addition, at the 8 July session, representatives of the ICA member nations voted on the location of the next General Assembly of the ICA in 2015, election of the ICA Executive Committee for the 2011-2015 term and establishment or continuation of ICA Commissions and their Chairs.

Prior to voting, the Executive Committee recommended two individuals to act as scrutineers for the voting. Prof Monika Sester (Germany) and Prof Necla Uluğtekin (Turkey) were elected by acclamation.

Voting on ICA membership included exclusions, new member nations, change of a national representative and new affiliate members. The vote on exclusion resulted in withdrawal of membership and all membership rights from the following nations: Albania, Guinea-Conakry, Nicaragua, Panama, Qatar, El Salvador, Sudan and Tunisia. The unanimous vote on new member nations resulted in the election of Uruguay as a new national member of the ICA. Full list of the current National Members of the ICA is on the right.

The vote on member nation representation resulted in a change of organisation representing Bulgaria from the Union of Surveyors and Land Managers to the Bulgarian Cartographic Association. Finally, unanimous votes on new affiliate members resulted in the following organisations being approved: Association of Polish Cartographers (Poland), Chinese Cartographic Association (Chinese Taipei), Land

### National Members of the ICA :: 2011-2015

<ul style="list-style-type: none"> <li>Algeria</li> <li>Argentina</li> <li>Australia</li> <li>Austria</li> <li>Belgium</li> <li>Benin</li> <li>Botswana</li> <li>Brazil</li> <li>Bulgaria</li> <li>Cameroon</li> <li>Canada</li> <li>Chile</li> <li>China</li> <li>Colombia</li> <li>Croatia</li> <li>Cuba</li> <li>Cyprus</li> <li>Czech Republic</li> <li>Denmark</li> <li>Ecuador</li> </ul>	<ul style="list-style-type: none"> <li>Finland</li> <li>France</li> <li>Germany</li> <li>Ghana</li> <li>Greece</li> <li>Hong Kong-China</li> <li>Hungary</li> <li>Iceland</li> <li>India</li> <li>Indonesia</li> <li>Iran</li> <li>Ireland</li> <li>Israel</li> <li>Italy</li> <li>Japan</li> <li>Jordan</li> <li>Kazakhstan</li> <li>Kenya</li> <li>Latvia</li> <li>Lithuania</li> </ul>	<ul style="list-style-type: none"> <li>Macedonia (FYROM)</li> <li>Madagascar</li> <li>Malaysia</li> <li>Mexico</li> <li>Mongolia</li> <li>Montenegro</li> <li>Morocco</li> <li>Mozambique</li> <li>Netherlands</li> <li>New Zealand</li> <li>Nigeria</li> <li>Norway</li> <li>Pakistan</li> <li>Peru</li> <li>Poland</li> <li>Portugal</li> <li>Romania</li> <li>Russia</li> <li>Serbia</li> <li>Slovakia</li> </ul>	<ul style="list-style-type: none"> <li>Slovenia</li> <li>South Korea</li> <li>South Africa</li> <li>Spain</li> <li>Sri Lanka</li> <li>Sweden</li> <li>Switzerland</li> <li>Tanzania</li> <li>Thailand</li> <li>Turkey</li> <li>Ukraine</li> <li>United Kingdom</li> <li>United States of America</li> <li>Uruguay</li> <li>Venezuela</li> <li>Vietnam</li> <li>Yemen</li> </ul>
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77 national members

Information New Zealand (New Zealand), United Nations Cartographic Section (United Nations) and United States Geological Survey (USA) – for the full list of ICA Affiliate Members please refer to page 35.

Voting on ICA officers included election of the President, Secretary General and Treasurer and Vice Presidents. The unanimous vote for the position of President resulted in Prof Georg Gartner (Austria) being elected as ICA President and the unanimous vote for the position of Secretary General and Treasurer resulted in Prof László Zentai (Hungary) being elected as ICA Secretary General and Treasurer for the 2011-2015 term.

Prior to the vote on the nominations for Vice Presidents, the Secretary General noted that it was necessary to vote on the number of Vice President positions. The reasons for recommending a total of seven Vice Presidents were presented: global coverage, precedence, coverage of tasks (including addressing of fields, liaison with Commissions), effectiveness in supporting the President with expanded tasks such as outreach, liaison with international bodies, sister societies and ICSU. A proposal to elect seven Vice Presidents was passed unanimously by the General Assembly.

The result of the election was that the following candidates were elected as Vice

Presidents: Derek Clarke (South Africa), Menno-Jan Kraak (Netherlands), Yaolin Liu (China), Sukendra Martha (Indonesia), Paulo Menezes (Brazil), Anne Ruas (France) and Timothy Trainor (USA). Brief profiles of the elected ICA Executive Committee members are included on page 7, while their current affiliations are listed on page 4.

In addition, nominations had been received for two Honorary Auditors, Prof Hal Moellering (USA) and Dr Nikolai Komedchikov (Russia). These two nominations were tabled and both were elected by ballot (regrettably Dr Nikolay Komedchikov passed away in October 2011, see page 34 for his obituary).

Next, the ICA Commission proposals for 2011-2015 term were tabled, together with Terms of Reference and nominations for Chairs. The result of voting was that all Commissions and their Chairs were voted in. Here is the full list of the ICA Commissions and their respective Chairs:

- Art and Cartography, Chair: Sébastien Caquard (Canada)
- Atlases, Chair: Peter Jordan (Austria)
- Cartography and Children, Chair: José Jesús Reyes Nuñez (Hungary)
- Cartography in Early Warning and Crisis Management, Chair: Milan Konečný (Czech Republic)



- Cognitive Visualization, Chair: Sara Irina Fabrikant (Switzerland)
  - Data Quality, Chair: Xiaoyong Chen (China)
  - Digital Technologies in Cartographic Heritage, Chair: Evangelos Livieratos (Greece)
  - Education and Training, Chair: David Fraser (Australia)
  - Generalisation and Multiple Representations, Chair: Dirk Burghardt (Germany)
  - Geographical Information (GI) for Sustainability, Chair: Vladimir Tikunov (Russia)
  - Geoinformation Infrastructures and Standards, Chair: Antony Cooper (South Africa)
  - Geospatial Analysis and Modeling, Chair: Bin Jiang (Sweden)
  - Geovisualization, Chair: Gennady Andrienko (Germany)
  - History of Cartography, Chair: Elri Liebenberg (South Africa)
  - Map Design, Chair: Kenneth Field (USA)
  - Map Production and Geo-Business, Chair: Philippe De Maeyer (Belgium)
  - Map Projections, Chair: Miljenko Lapaine (Croatia)
  - Mapping from Remote Sensor Imagery, Chair: Xiaojun Yang (USA)
  - Maps and Graphics for Blind and Partially Sighted People, Chair: Alejandra Coll Escanilla (Chile)
  - Maps and Society, Chair: Chris Perkins (UK)
  - Maps and the Internet, Chair: Rex Cammack (USA)
  - Mountain Cartography, Chair: Karel Kriz (Austria)
  - Neocartography, Chair: Steve Chilton (UK)
  - Open Source Geospatial Technologies, Chair: Suchith Anand (UK)
  - Planetary Cartography, Chair: Henrik Hargitai (Hungary)
  - Theoretical Cartography, Chair: Qingyun Du (China)
  - Ubiquitous Cartography, Chair: Masatoshi Arikawa (Japan)
  - Use and User Issues, Chair: Corné van Elzakker (Netherlands)
- In November 2011, the ICA Executive Committee approved three ICA Working Groups, together with Terms of Reference and their Chairs:
- International Map Year, Chair: Bengt Rystedt (Sweden)

- Technology Outreach, Chair: Lynn Usery (USA)

• Toponymy, Chair: Paulo Menezes (Brazil)  
The ICA Working Group on Toponymy is jointly run with the International Geographical Union (IGU) Commission on Toponymy (IGU Chair: Cosimo Palagiano (Italy)).

The final voting in Paris concerned selection of the place for the 16th General Assembly of the ICA and the 27th International Cartographic Conference. After the votes were counted, Rio de Janeiro, Brazil was selected as the host city (see the announcement on page 5).

**Igor Drecki** | New Zealand National Representative | New Zealand ●

## ICA Travel Award Recipients

ICA offers travel awards to a number of eligible young scientists to ensure their active participation in the biennial International Cartographic Conferences. Many cartographic students and young people have started their active career in cartography as award winners, and ICA believes that it is important to confirm the vitality of the discipline by offering such support.

In 2011, there were a large number of expressions of interest in the travel award scheme, and eventually eight awards of travel, registration and accommodation were made to the successful applicants, each of whom was allocated an oral presentation in the conference programme. The winners, with the title of their paper, were:

- Andrius Balciunas, Lithuania, *The possibilities of functionality research of interactive internet maps*
- Haosheng Huang, China, *Incorporating context-aware collaborative filtering into Location Based Services*
- Adonis Kouame, Ivory Coast, *Cartographie du risque bilharzien à partir de l'utilisation combiné de la télédétection et du SIG*
- Silviya Marinova, Bulgaria, *Cross border maps and disaster management*



Recipients of the ICA Travel Awards: (from left) Andrius Balciunas (Lithuania), André Mendonca (Brazil), David Fairbairn (former Secretary General of ICA), Silviya Marinova (Bulgaria) and Haosheng Huang (China) | Photograph courtesy of David Fairbairn

- André Mendonca, Brazil, *What do people prefer and what is more effective for maps? A decision making test*
- Jean Marc Philius, Haiti, *Création d'une plateforme technique de SIG en Haïti: définition des référentiels de base*
- Maythm Al Bakri, Iraq, *User Generated Content and formal data sources for integrating geospatial data*
- Mirad Niroumand, Iran, *Optimal visualization of satellite imagery and superimposed vector data; a new trend to the conceptual visualization of land-use maps*

We were delighted to welcome six of the eight winners to Paris where they engaged with the ICC 2011 formal programme; we look forward to following their subsequent careers in cartography with interest. Hotel accommodation was booked for the award winners together, so that they could form themselves into a group; their combined negotiation with the Métro system in Paris on their daily trip to the conference centre showed that a small group of talented young visitors from all over the world can jointly tackle cartographic problems with ease! It is unfortunate that visa problems meant that the winners from Iraq and Iran were unable to travel to France.

Each Travel Award winner was recognised at the ICC 2011 closing ceremony and given copies of the formal conference publications.

**David Fairbairn** | Former Secretary General & Treasurer (2007-2011) | United Kingdom ●



Left to right

ICA Executive Committee and Commission Chairs at the ICC 2011 Closing Ceremony | Photograph courtesy of László Zentai

ICC 2011 International Map Exhibition Jury: (from left) Cynthia Brewer (USA), Corné van Elzakker (Netherlands, Chair), Arezki Kesraoui (Algeria), Necla Uluğtekin (Turkey), Philippe De Maeyer (Belgium), François Lecordix (France) and Sukendra Martha (Indonesia) | Photograph by Julie Pattrier-Joly

Speed presenting session at ICC 2011 | Photography Firas Bessadok

## International Cartographic Exhibition

One of the highlights of the ICC 2011 in Paris was again the International Cartographic Exhibition. The exhibition was located near the 2nd floor entrance at the Palais des Congrès and therefore well visited. In total 35 countries, one more than at ICC 2009 in Santiago de Chile, submitted 602 entries.

François Lecordix and Julie Patrier-Joly, both from the Local Organizing Committee, produced a very useful exhibition catalogue and available in digital format to all conference participants on a USB stick (supplied with conference proceedings), and also as a hard copy book of 140 pages. This time, the organizers found a solution for the display of digital cartographic products, a problem that had hindered previous exhibitions. Instead of having to install different software, or to play DVD's and CD-ROM's, an impression of a digital cartographic product was obtained through a short Flash movie, a result of a student project by Aurore Salmon, and displayed on a TV screen. Although it was possible to let visitors select movies at will, all entries were put in a sequential order instead and played in a loop mode. Further improvements may in this respect be made at future exhibitions.

An international jury had a difficult task to select the best products in 13 exhibition themes. Judging was based on the following criteria: cartographic design, production method, usability, suitability for use in education and training, innovation, cost effectiveness, aesthetics, unique theme, use or user group. The jury:

- Corné van Elzakker, The Netherlands (Chair)
- Cynthia Brewer, USA
- Arezki Kesraoui, Algeria
- Philippe De Maeyer, Belgium
- Sukendra Martha, Indonesia
- Necla Uluğtekin, Turkey
- François Lecordix, France (LOC)

Babak Shamei (Iran) was also invited to be part of the jury but regrettably could not come to Paris due to visa problems.

The jury selected winners and second places in each of the 13 categories with the exception of Globes category where only one entry was announced a winner with no 2nd place (full list is included on the right).

The jury recognizes the overall quality of the exhibition and would like to thank all countries for their participation.

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

## international cartographic exhibition winners

### MAPS

#### Topographic maps

- 1 Bohinj (Julian Alps-Trigla-Krn-Crna prst) 1:25,000, Slovenia (SVN-02): bilingual map with a legible and clear design
- 2 O53 – Dolomiti di Brenta 1:25,000, Italy (ITA-01): with a pleasing and effective representation of the 3rd dimension

#### Maps based on satellite images and remote sensing

- 1 Bhutan 1:200,000, Austria (AUT-04): production based on free satellite data, combined with GPS tracks
- 2 Antarctic 1:8,000,000, Norway (NOR-04): integration of variety of international Remote Sensing data sources, resulting in a subtle design

#### Hydrographic or maritime navigation charts

- 1 452 Oslo Havn 1:10,000, Norway (NOR-05): innovative design of the land, without overshadowing the main topic
- 2 Port de Djibouti – 7546 – INT 7120 1:10,000, France (FRA-04): attractive representation of the many required details

#### Maps and plans of towns and urban areas

- 1 Hong Kong Street Map 1:10,000 (Series SM10C), Hong Kong-China (HKG-03): black & white map, demonstrating that for a clear design the use of colour is not always required
- 2 Guide Map of Karaj Municipality Areas 1:19,000, Iran (IRN-01): colourful and well-designed informative map

#### Thematic maps

- 1 The Beautiful Game: a World of Football, United Kingdom (GBR-07): world map transformed into an original cartogram through a proper application of semiological rules; each country is represented as its own football, scaled to reflect the number of professional football teams that play in the country
- 2 Geological Map of SADC 1:2,500,000, South Africa (ZAF-03): new map of the geology of the Southern African Development Community (SADC) countries, purely based on a lithological classification; technically challenging and good use of the visual variable colour

#### Maps for tourism, orienteering and parks

- 1 Panoramic Tourist Map of Resort Sunny Beach – Bulgaria, Bulgaria (BUL-03): based on a real 3D digital model of terrain, buildings and facilities, which are represented with their actual proportions and visual characteristics; the map is updated annually
- 2 Hiking Routes between Salmi and Oittaa (Nuuksio National Park, Finland) 1:16,000, Finland (FIN-10): innovative experimental way of generating usable information about potential hiking routes between two popular entrances. Usable outcome despite the questionable application of the visual variables of colour

### Educational cartographic resources on paper

- 1 South America 1:8,000,000, Italy (ITA-14): effectively designed wall map
- 2 France: Physical Administrative 1:1,500,000, Ukraine (UKR-16): usable way to inform Ukrainian secondary school children about the geography of France

### Other maps

- 1 Kii-Kinki 360° Panorama Map 1:50,000, Japan (JPN-09): full 360° bird's eye view as a next step in this Japanese panoramic design tradition
- 2 Carte en Relief d'Afrique 1:9,500,000, Algeria (DZA-06): fine example of the exhibited plastic relief maps; produced semi-automatically

### ATLASES

#### Atlases

- 1 Landscape Atlas of the Czech Republic, Czech Republic (CZE-36): outcome of the collaborative work of a large number of experts; the large format gives good overviews
- 2 New Zealand Photo Atlas, Australia (AUS-14): fine integration of two media: photography and cartography

### Educational cartographic resources

- 1 Grosser Kozenn Atlas, Austria (AUT-12): latest edition of the 150 years old school atlas which has been modernized continuously during its history, based on new insights in geography, cartography and education
- 2 Jacaranda Atlas, 7th Edition, Australia (AUS-16): well-designed (in conjunction with local geography educators) multimedia atlas on paper, produced with GIS methods

### GLOBES

- 1 Globe of the Moon, China (CHN-17): clear real 3D model of the moon

### DIGITAL PRODUCTS

#### Digital products

- 1 Litto 3D sur l'île de Ré et sur les îles Éparses, France (FRA-IGN-13): continuous 3D representation of submarine and terrestrial relief with high precision. May be used, for instance, to study the consequences of sea-level rises
- 2 Katmai National Park and Preserve, USA (USA-33): digitally generated panorama in which the curved horizon gives a realistic impression of the large distances

### Educational cartographic resources

- 1 eAtlas of Global Development, United Kingdom (GBR-21): interactive website ([data.worldbank.org/atlas-global](http://data.worldbank.org/atlas-global)) with a variety of functions to visualize and compare progress on the most important development challenges facing our world
- 2 Columbus, School Maps, Sweden (SWE-23): fine example of user-centred design of a product for primary and secondary school children

## ICC 2011 Orienteering Event

For people interested in maps, orienteering is a good choice for sport and outdoor activities and, on the other hand, many orienteers have ended up taking a professional career in cartography. As a result, it has become natural to arrange orienteering events at the International Cartographic Conferences (ICC) and the ICC 2011 in Paris was no different! For many years, the driving force behind ICC orienteering events is László Zentai from Hungary. He is a member of the International Orienteering Federation Council and has the necessary contacts and experience when it comes to arranging orienteering events worldwide.

For those of us who had an exceptional experience participating in the orienteering competition in Santiago, expectations for the Paris event were high. About 100 people have signed up suggesting great interest in the competition. Unfortunately less than twenty eventually turned up. One important reason for reduced participation was undoubtedly the timing; the competition was arranged in parallel with the ICA General Assembly on Friday morning, 8 July. In the future, better scheduling and announcements during the conference, and payment of a small registration fee to filter out people who sign up to anything that is free, could also improve the participation.

The event was initially planned to take place in Bois de Boulogne. However, because the orienteering map for this park was quite poor, the event was moved to Parc du Tremblay outside Paris, which had a brand new map and a suitable terrain for the ICC orienteering event. The organizers prepared three different courses – 2.7, 3.7 and 4.9km. For the first time at ICC orienteering competition, the participants were equipped with electronic devices enabling registration of the control points around the course. Although the event attracted some high profile competitors from the Swiss national team(!), the course was prepared with runners and walkers displaying all levels of experience in mind.

The organisers did a fantastic job and participants were very satisfied with the course and perfect weather conditions. I recommend to everyone considering participation in the next ICC orienteering events in Dresden and Rio de Janeiro. And the new ICA Secretary General made a promise never to allow ICC orienteering event to be run concurrently to the General Assembly as long as he is involved!

**Terje Midtbø** | Participant of the ICC 2011 Orienteering Event | Norway ●

## children's map award winners

### Under 9 years old

- ▶ **Auguste Kriščiunaite** | 7 | *A Message to a Blind Friend* | Peledos Primary School: Vilnius | Lithuania (LT-4)
- ▶ **Alisa Yurchenko** | 7 | *We and Our World* | Center of Creativity and Arts Education, drawing group 'Fantasy': Omsk | Russia (RU-6)

### 9–12 years old

- ▶ **Juan Edwin Kusmartin** | 10 | *Living in a Globalized World in One Ark* | Damai Primary School: Tambora, West Jakarta | Indonesia (ID-4)
- ▶ **Robert Breebaart** | 11 | *Global Heartbeat* | Laerskool Wierdapark: Wierdapark | South Africa (ZA-4)

### 13–15 years old

- ▶ **Helena Väinmaa** | 13 | *See the World Shining in Your Eyes!* | Sally Studio: Tallinn | Estonia (EE-5)

- ▶ **Hayden Livingstone** | 15 | *The World at my Fingertips - Remains a Puzzle* | Tauranga Boys College: Tauranga | New Zealand (NZ-3)

### Public vote

- ▶ **Ana Carolina Otton Sarmanho** | 12 | *The World in a Click* | Instituto de Educação Cenecista Marquês de Herval: Osório RS | Brazil (BR-5)
- ▶ **Arian Karimi Jahromi** | 15 | *Living in the Globalized World is Like a Music Playing and Continents are its Alphabets. When You Play all Together it Has Meaning* | Allameh Helli High School: Brojerd | Iran (IR-5)

**Jury:** Temenoujka Bandrova (Bulgaria, Chair); Ana Maria Garra (Argentina), Jasmine Desclaux-Salaches (France), José Jesús Reyes Nuñez (Hungary), Diah K Kresnawati (Indonesia), Giedre Beconyte (Lithuania), Dariusz Dukaczewski (Poland) and Tanya Buckingham (USA).

▶ reproduced on the back cover

## orienteering competition results

### Class A 4.9km circuit | 25 check points

- 1 **Hubert Klauser** | M | Switzerland
- 2 **Sabine Hauswirth** | F | Switzerland
- 3 **Gian-Reto Schaad** | M | Switzerland
- 4 **Filip Antos** | M | Czech Republic
- 5 **Julien Gaffuri** | M | Italy
- 6 **Cyril Romieu** | M | France
- 7 **Blaz Petrovič** | M | Slovenia

### Class B 3.7km circuit | 21 check points

- 1 **Terje Midtbø** | M | Norway
- 2 **Kristoffer Kristiansen** | M | Norway

### Class C 2.7km circuit | 17 check points

- 1 **Karin Granas** | F | Sweden
- 2 **Gasper Petrovič** | M | Slovenia
- 3 **Ana Vallarino Katzenstein** | F | Uruguay
- 4 **Louise Cotterall** | F | New Zealand

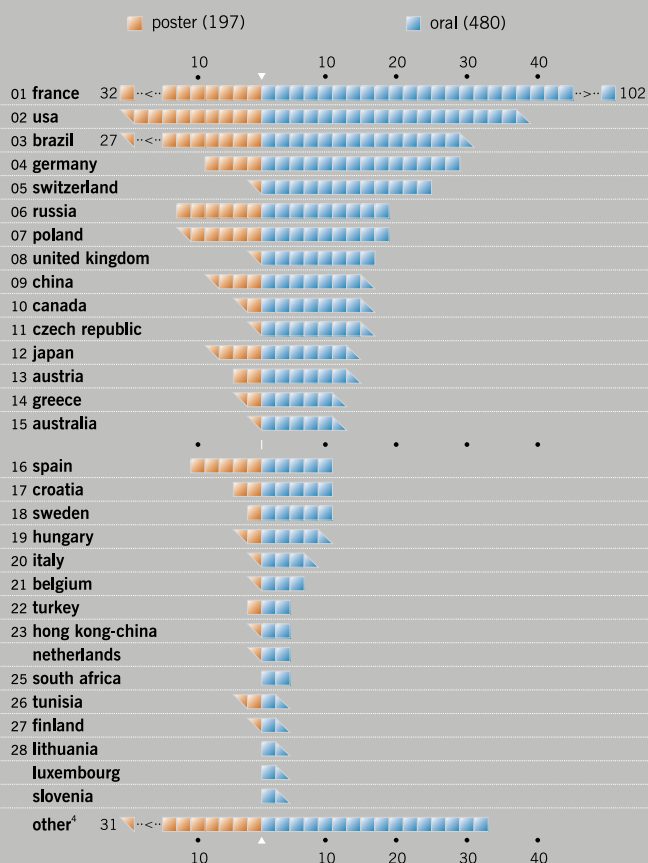
Participants of the orienteering event | Photograph courtesy of Terje Midtbø



## ICC 2011 :: Facts and Figures<sup>1</sup>

<b>icc 2011 participants</b>	<b>1,498</b>
full	740
senior / student / africa	278
one / two days	416
accompanying persons	64
<b>visitors / press</b>	<b>92</b>
<b>commercial exhibitors' personnel</b>	<b>134</b>
<b>participants at technical visits</b>	<b>162</b>
bibliothèque nationale de france (bnf)	45
institut de recherche pour le développement (ird)	20
institut géographique national (ign)	90
service hydrographique et océanographique de la marine (shom)	7
<b>meetings</b>	<b>16</b>
ica commission and working group workshops and tutorials	14
other events	2
<b>exhibits at international cartographic exhibition<sup>2</sup></b>	<b>602</b>
maps	442
atlases	110
digital products	48
globes	2
<b>maps at children's map exhibition</b>	<b>186</b>
5-8 years old	46
9-12 years old	82
13-15 years old	58

## ICC 2011 :: Origin of Presentations<sup>1,3</sup>



<sup>1</sup> Source: Report from the 25th International Cartographic Conference (ICC 2011), Paris, France, July 2011.

<sup>2</sup> Source: International Cartographic Exhibition Catalogue, ICC 2011, Paris France. The number of maps and atlases listed in the Catalogue has been corrected to 442 and 110 respectively, as 2 maps were erroneously allocated to the Atlases category.

<sup>3</sup> Source: ICC 2011 Conference Proceedings (USB flash drive).

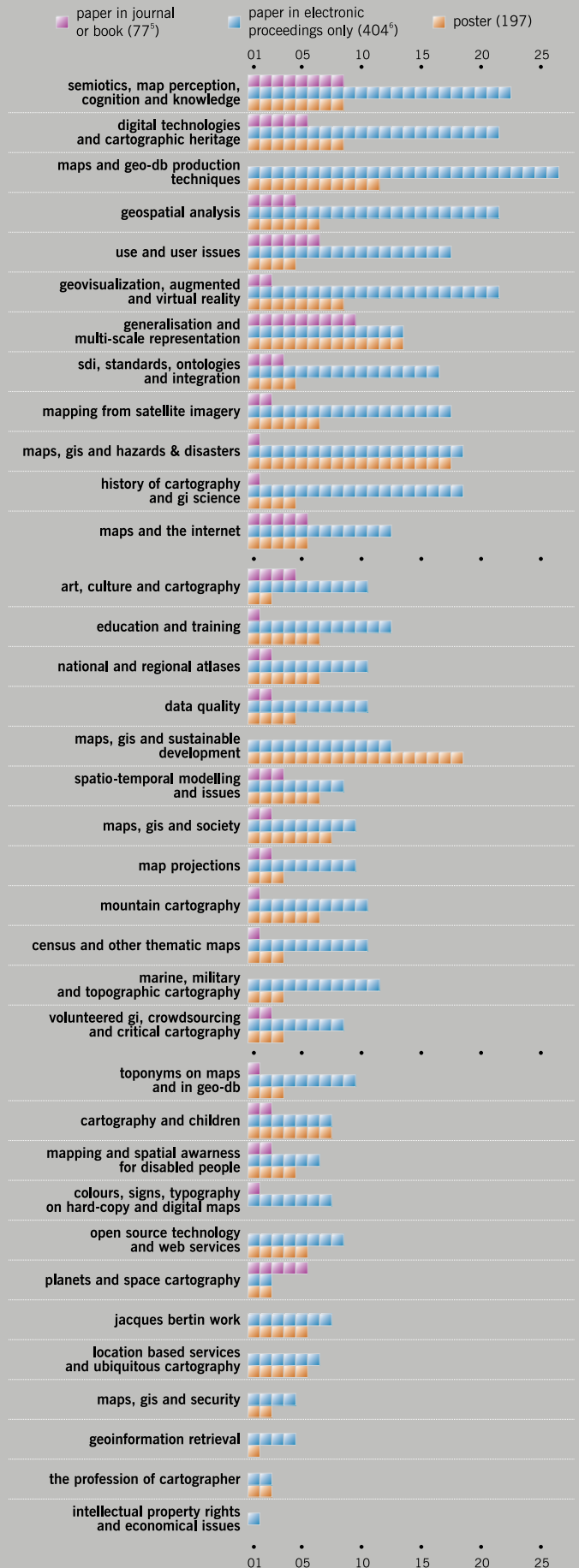
<sup>4</sup> Other countries include Chile, Cote d'Ivoire, India (2 oral / 2 poster presentations each), Bulgaria, Iran, New Zealand, Norway (2/1 each), Indonesia, Portugal, Taiwan-China (2/0 each), Romania (1/5), Algeria, Israel, Ukraine (1/1

each), Afghanistan, Bosnia and Herzegovina, Haiti, Lebanon, Macedonia, Mexico, Saudi Arabia, Uruguay (1/0 each), Argentina, Benin, South Korea, Latvia, Morocco, Nigeria, Peru, Senegal, Serbia, Slovakia, Sudan, Syria and United Arab Emirates (0/1 each).

<sup>5</sup> Journals: *Cartographica*, Vol 46, Issue 2, Summer 2011 (7 papers) and *The Cartographic Journal*, Vol 48, No 2, May 2011 (8 papers). Book: Anne Ruas (ed), *Advances in Cartography and GIScience*, Vol 1 and 2, Springer-Verlag Berlin Heidelberg, 2011 (62 papers).

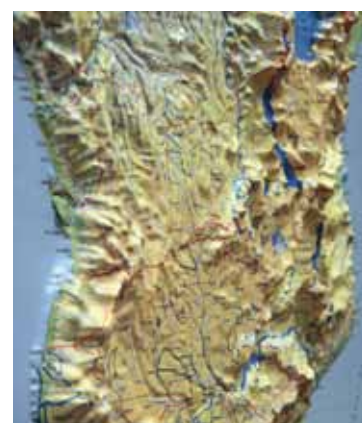
<sup>6</sup> The number of papers published in the ICC 2011 Conference Proceedings is 481 (77 in journals and book, and 404 exclusively on USB flash drive), one more than in the ICC 2011 Conference Programme.

## ICC 2011 :: Published Papers and Posters<sup>3</sup>



## conference in pictures

a short film from icc 2011 is accessible from [www.icaci.org/icc2011/](http://www.icaci.org/icc2011/)



Photography Bernard Bezes, Louise Cotterall, Bernard Delbey, Wanda Drecki and Julie Patrier-Joly

## conference publications

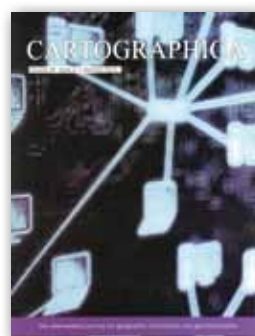


Anne Ruas (ed), *Advances in Cartography and GIScience*, Vol 1 and 2, Springer-Verlag Berlin Heidelberg, 2011

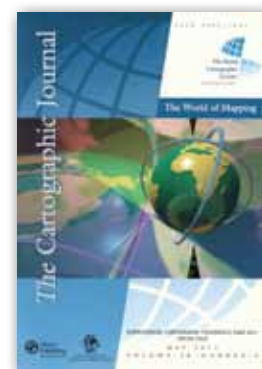
International Cartographic Exhibition Catalogue



ICC 2011 Proceedings (USB flash drive)



*Cartographica*, Vol 46, Issue 2, Summer 2011



*The Cartographic Journal*, Vol 48, No 2, May 2011



ICC 2011 Daily News



**2013 FROM POLE TO POLE**

**26<sup>th</sup> INTERNATIONAL CARTOGRAPHIC CONFERENCE**

August 25-30, 2013 | Dresden, Germany

Dear colleagues,

The preparatory activities for the 26th ICC taking place in Dresden, Germany, are well on their way. In order to keep abreast of the latest developments feel free to check [www.ICC2013.org](http://www.ICC2013.org). This site will continuously be updated and show the major issues of the ICC programme.

See you in Dresden!

Manfred Buchroithner,  
Congress President





[www.icc2013.org](http://www.icc2013.org)



## obituary

### Nikolay Komedchikov

24.11.1959 – 24.10.2011



After a brief illness, our friend and colleague Nikolay Komedchikov died at the age of 52 years. He was a great Russian cartographer, author and editor of many cartographic works and atlases. He was the founder

of several projects in the history of cartography, a member of the editorial boards of the *Geodesy and Cartography* and *Environmental Planning and Management* journals, chairman of the Commission on Cartography and Space Methods, member of the Scientific Council of the Russian Geographical Society, deputy chairman of the National Committee for Cartography of Russia, member of the International Cartographic Association's (ICA)

Commissions on the History of Cartography and Theoretical Cartography, and a United Nation's expert on Geographic Names of the Intergovernmental Council for Geodesy, Cartography, Cadastre, and Remote Sensing of the Commonwealth of Independent States.

Nikolay Komedchikov was born in 1959 in Vyshny Volochok, Kalinin (now Tverskaya) region, in a family of teachers. In 1982 he graduated from the Department of Cartography, Faculty of Geography, MV Lomonosov Moscow State University. In 1984 he started working for the Institute of Geography, where he prepared and published several books (together with Alexander A Lyuty). Between 1987-1990 he studied at the Faculty of Geography, MV Lomonosov Moscow State University, where, in 1990, he defended his PhD thesis (his research advisor was Vladimir S Tikunov). Since 2002 he headed the Laboratory of Cartography in the Institute of Geography.

It is said that there are no irreplaceable people. However, this does not apply to Nikolay Komedchikov. His death is an irreparable loss. In recent years, he has actively participated in the ICA and the National Committee of the Russian Federation's cartographers and often represented Russia at mapping forums. His international reputation has grown over the

years. He has accomplished a great deal: more than 120 publications, including seven monographs, over 50 large maps in the atlases *Our Earth* (1997), *The Nature and Resources of the Earth* (1998), *The National Atlas of the Russian Federation* (2004-2008), and *Atlas of the Kuril Islands* (2008).

He supervised graduate students, as well as student internships in the Laboratory. He taught courses on *Educational Cartography* (since 1998) and *Historical Cartography* (since 2008) at the Faculty of Geography, MV Lomonosov Moscow State University, and led classes in cartography and GIS at the State University of Land Management (since 2002).

Nikolay Komedchikov was extremely friendly, helpful, talented, and hard-working individual and he will remain such in our hearts. In recent years, probably realizing that he had only a short time to live, he worked vigorously, travelled half the world and participated at many important international forums. We grieve together with his family, relatives, friends and colleagues. His memory will live on in our hearts.

**Cartographers and Geographers** | Institute of Geography of Russian Academy of Sciences and Faculty of Geography at MV Lomonosov Moscow State University | Russia ●

# calendar

## march 2012

26-30: 6th International Congress  
GeoTunis 2012 | Tunis | *Tunesia* | [www.geotunis.org/2011/](http://www.geotunis.org/2011/)

## april

17-19: 8th International Exhibition & Scientific Congress "Interexpo Geo-Siberia 2012" | Novosibirsk | *Russia* | [www.expo-geo.ru/](http://www.expo-geo.ru/)

19-20: 7th ICA Workshop on Digital Approaches to Cartographic Heritage | Barcelona | *Spain* | [xeeee.web.auth.gr/ICA-Heritage/2011\\_2015/BARCELONA\\_2012/index.htm](http://xeeee.web.auth.gr/ICA-Heritage/2011_2015/BARCELONA_2012/index.htm)

23-27: Geospatial World Forum | *Geospatial Industry and World Economy* | Amsterdam | *The Netherlands* | [www.geospatial-worldforum.org/](http://www.geospatial-worldforum.org/)

25-28: Mercator Revisited | *Cartography in the Age of Discovery* | Sint-Niklaas | *Belgium* | [www.mercatorconference2012.be/](http://www.mercatorconference2012.be/)

## june

11-13: ICA Commission on Art and Cartography Workshop | *Cartography & Narratives* | Zurich | *Switzerland* | [artcarto.wordpress.com/cartography-narratives/](http://artcarto.wordpress.com/cartography-narratives/)

18-22: 4th International Conference on Cartography and GIS | Albena | *Bulgaria* | [www.cartography-gis.com/4thConference/Index.html](http://www.cartography-gis.com/4thConference/Index.html)

25-29: 6th Congress of the Cartographic Science | Buenos Aires | *Argentina* | [www.centroargentinodecartografia.org/sccc2012.html](http://www.centroargentinodecartografia.org/sccc2012.html)

28-29: 4th International Symposium on the History of Cartography | Budapest | *Hungary* | [www.icahistcarto.org/](http://www.icahistcarto.org/)

## july

08-11: 2012 International Geospatial Forum | *Global Connections through Mapping* | Brisbane | *Australia* | [www.imtamaps.org](http://www.imtamaps.org)

## august

29-31: GeoCart'2012 / 2nd ICA Regional Symposium on Cartography for Australasia and Oceania | *Cartographic Convergence: Interweaving Data and Knowledge* | Auckland | *New Zealand* | [web.env.auckland.ac.nz/public/geocart2012/](http://web.env.auckland.ac.nz/public/geocart2012/)

## september 2012

01-05: 8th ICA Mountain Cartography Workshop | *Mapping Mountain Dynamics: From Glaciers to Volcanoes* | Taurewa, Tongariro National Park | *New Zealand* | [web.env.auckland.ac.nz/public/mcw2012/](http://web.env.auckland.ac.nz/public/mcw2012/)

16-18: 2012 AutoCarto International Symposium on Automated Cartography | Columbus, Ohio | *USA* | [www.cartogis.org/autocarto.php](http://www.cartogis.org/autocarto.php)

## august 2013

25-30: 26th International Cartographic Conference | *From Pole to Pole* | Dresden | *Germany* | [www.icc2013.org/](http://www.icc2013.org/)

# 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:

Association of Polish Cartographers | *Poland* | [www.polishcartography.pl](http://www.polishcartography.pl)  
Attn: Dr Ing Joanna Bac-Bronowicz | [joanna.bac-bronowicz@igig.up.wroc.pl](mailto:joanna.bac-bronowicz@igig.up.wroc.pl)

Bundesamt für Kartographie und Geodäsie | *Germany* | [www.bkg.bund.de](http://www.bkg.bund.de)  
Attn: Prof Dr Ing Hansjörg Kutterer | [hans-joerg.kutterer@bkg.bund.de](mailto:hans-joerg.kutterer@bkg.bund.de)

Centro Argentino de Cartografía | *Argentina* | [www.centroargentinodecartografia.org](http://www.centroargentinodecartografia.org)  
Attn: Prof Carmen Alicia Rey | [cac@centroargentinodecartografia.org](mailto:cac@centroargentinodecartografia.org)

Chinese Cartographic Association (Chinese Taipei) | *Taiwan-China* | [www.ccartoa.org.tw](http://www.ccartoa.org.tw)  
Attn: Dr David Ding | [ycdding@yahoo.com](mailto:ycdding@yahoo.com)

Dubai Municipality | *United Arab Emirates* | [www.dm.gov.ae](http://www.dm.gov.ae)

East View Cartographic | *United States of America* | [www.cartographic.com](http://www.cartographic.com)  
Attn: Matthew Tabaka | [matthew.tabaka@cartographic.com](mailto:matthew.tabaka@cartographic.com)

Eko-Graf Cartographic Publishing House | *Poland* | [www.ekograf.pl](http://www.ekograf.pl)  
Attn: Roman Janusiewicz | [ekograf@ekograf.pl](mailto:ekograf@ekograf.pl)

ESRI | *United States of America* | [www.esri.com](http://www.esri.com)  
Attn: Mark Cygan | [mcygan@esri.com](mailto:mcygan@esri.com)

Faculty of Geo-Information Science and Earth Observation (ITC) | *The Netherlands* | [www.itc.nl](http://www.itc.nl)  
Attn: Corné van Elzakker | [elzakker@itc.nl](mailto:elzakker@itc.nl)

Geospatial Information Authority of Japan | *Japan* | [www.gsi.go.jp](http://www.gsi.go.jp)  
Attn: Miho Takagi | [miho@gsi.go.jp](mailto:miho@gsi.go.jp)

Indian National Cartographic Association (INCA) | *India* | [www.incaindia.org](http://www.incaindia.org)  
Attn: Shri KC Rout | [routkc@yahoo.com](mailto:routkc@yahoo.com)

Institut Cartografic de Catalunya | *Spain* | [www.icc.es](http://www.icc.es)  
Attn: Jaume Miranda i Canals | [miranda@icc.es](mailto:miranda@icc.es)

Institut Géographique National | *France* | [www.ign.fr](http://www.ign.fr)  
Attn: Jean-Philippe Lagrange | [jean-philippe.lagrange@ign.fr](mailto:jean-philippe.lagrange@ign.fr)

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Intergraph | *United States of America* | [www.intergraph.com](http://www.intergraph.com)  
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Land Information New Zealand | *New Zealand* | [www.linz.govt.nz](http://www.linz.govt.nz)  
Attn: Chris Kinzett | [ckinzett@linz.govt.nz](mailto:ckinzett@linz.govt.nz)

Moscow State University of Geodesy and Cartography | *Russia* | [www.miigaik.ru](http://www.miigaik.ru)  
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National Hydrographic Office | *India* | [www.hydrobharat.nic.in](http://www.hydrobharat.nic.in)  
Attn: BR Rao | [incho@dataone.in](mailto:incho@dataone.in)

National Land Survey of Finland | *Finland* | [www.nls.fi](http://www.nls.fi)  
Attn: Heli Ursin | [heli.ursin@nls.fi](mailto:heli.ursin@nls.fi)

Ordnance Survey | *United Kingdom* | [www.ordnancesurvey.co.uk](http://www.ordnancesurvey.co.uk)  
Attn: Paul Naylor | [paul.naylor@ordnancesurvey.co.uk](mailto:paul.naylor@ordnancesurvey.co.uk)

Polskie Przedsiębiorstwo Wydawnictw Kartograficznych (PPWK) | *Poland* | [www.ppwk.pl](http://www.ppwk.pl)  
Attn: Dr Beata Konopska | [b.konopska@ppwk.pl](mailto:b.konopska@ppwk.pl)

Regional Centre for Mapping of Resources for Development (RCMRD) | *Kenya* | [www.rcmr.org](http://www.rcmr.org)  
Attn: Dr Hussein O Farah | [rcmr@rcmr.org](mailto:rcmr@rcmr.org)

Regional Centre for Training in Aerospace Surveys (Rectas) | *Nigeria* | [www.rectas.org](http://www.rectas.org)  
Attn: Prof Isi Ikhuoria | [rectas@oauife.edu.ng](mailto:rectas@oauife.edu.ng) or [edrectas@rectas.org](mailto:edrectas@rectas.org)

Star-APIC Publishing Solutions | *Belgium* | [www.star.be](http://www.star.be)  
Attn: Paul Duré | [paul.dure@star.be](mailto: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](http://www.hkmo.org.tr)  
Attn: Prof Dr Necla Ulugtekin | [hkmo@hkmo.org.tr](mailto:hkmo@hkmo.org.tr)

United Nations Cartographic Section | *United Nations* | [www.un.org/depts/cartographic/english/htmain.htm](http://www.un.org/depts/cartographic/english/htmain.htm)  
Attn: Ayako Kagawa | [kagawa@un.org](mailto:kagawa@un.org)

United States Geological Survey | *United States of America* | [cegis.usgs.gov](http://cegis.usgs.gov)  
Attn: Lynn Usery | [usery@usgs.gov](mailto:usery@usgs.gov)

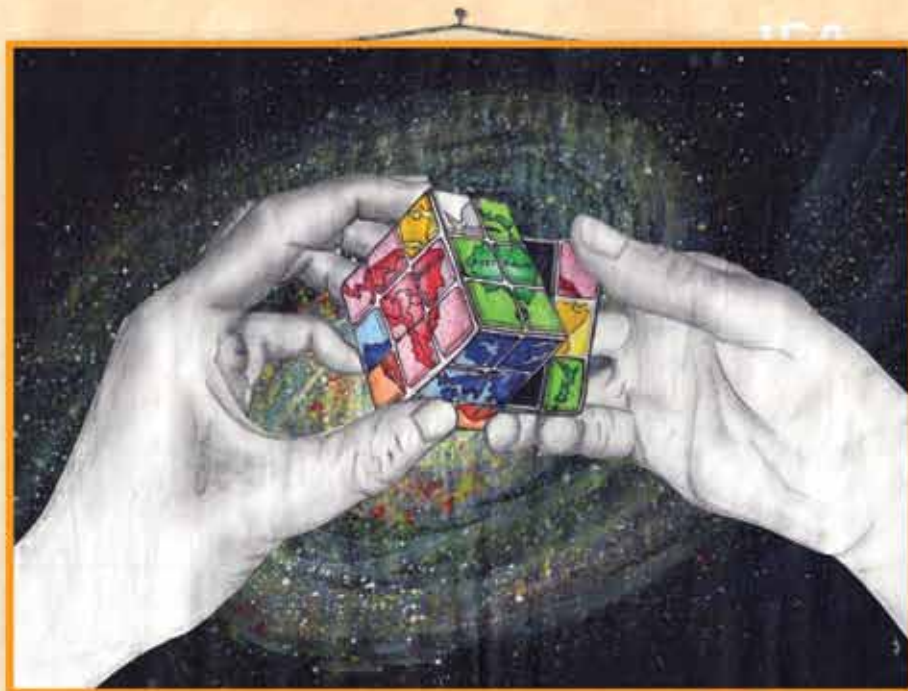
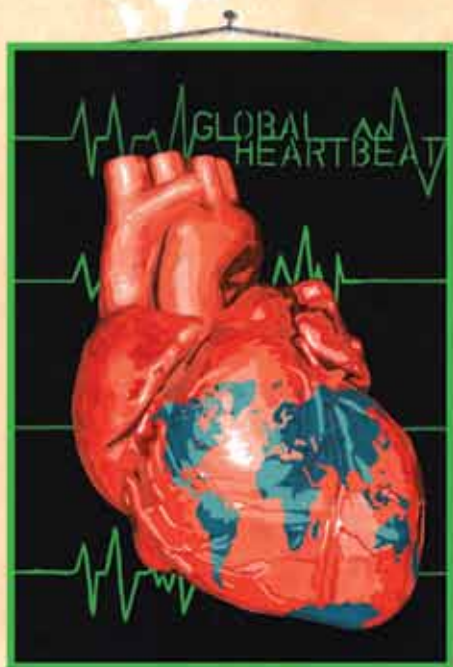
University of Architecture, Civil Engineering and Geodesy, Faculty of Geodesy | *Bulgaria* | [www.uacg.bg](http://www.uacg.bg)  
Attn: Dr Temenoujka Bandrova | [bandrova\\_fgs@uacg.bg](mailto:bandrova_fgs@uacg.bg)

University of Balamand | *Lebanon* | [www.balamand.edu.lb/english/GIS.asp](http://www.balamand.edu.lb/english/GIS.asp)  
Attn: Prof Oussama Jadayel | [info@balamand.edu.lb](mailto:info@balamand.edu.lb)

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

László Zentai | Secretary General & Treasurer | *ICA* | [sg@icaci.org](mailto:sg@icaci.org) ●

# children's map gallery 2011 winners



Robert Breebaart | 11 |  
*Global Heartbeat* | Laerskool  
Wierdapark: Wierdapark |  
South Africa

Hayden Livingstone | 15 | *The World  
at My Fingertips - Remains a Puzzle*  
| Tauranga Boys College: Tauranga |  
New Zealand

Ana Carolina Otton Sarmanho | 12  
| *The World In a Click* | Instituto  
de Educação Cenequista Marquês de  
Herval: Osório RS | Brazil

Helena Väinmaa | 13 | *See  
the World Shining In Your  
Eyes!* | Sally Studio: Tallinn |  
Estonia

Auguste Kriščiunaite | 7 | *A Message  
To a Blind Friend* | Peledos Primary  
School: Vilnius | Lithuania

