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International Cartographic Association

Association Cartographique Internationale



Children Map the World

*Selections from the Barbara Petchenik
Children's World Map Competition*



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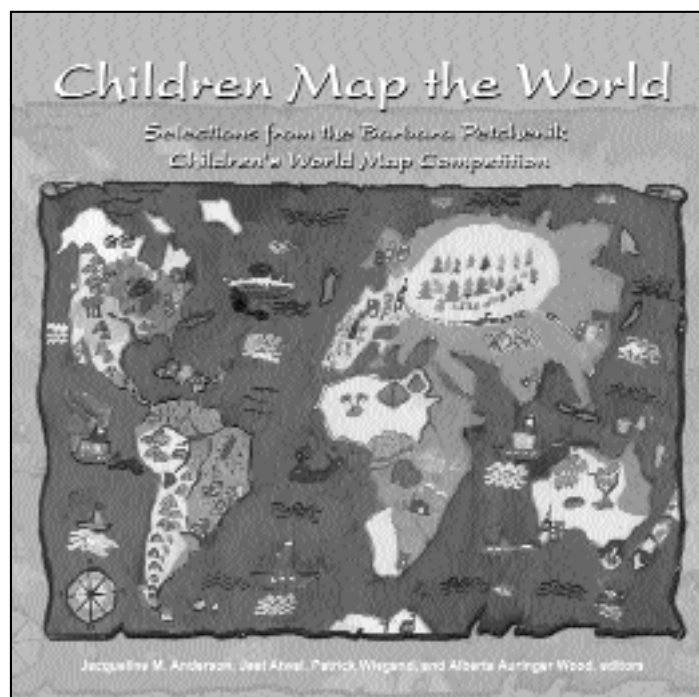
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Children Map the World: Selections from the Barbara Petchenik Children's World Map Competition. ESRI Press, www.esri.com/esripress

Editorial

Dear Colleagues,

The Organising Committee of the 22nd International Cartographic Conference and the ICA Executive Committee are looking forward to seeing you in A Coruña, in July 2005. More than 1,500 participants are anticipated and an exciting programme of around 750 presentations is already in place. As reported in this newsletter and previous editions, several commissions are organising meetings before or during the conference, and time is still available to register for workshops.

The social programme is appealing with promise of a mixture of good food, wine, and culture. For the first time and as requested by ICA members, the Executive Committee is calling a General Assembly after only 2 years since the previous one was held in Durban. The reason for this is of great importance: discussion is to be held as to whether or not the ICA will incorporate a name change to ICA/ACI, International Association for Cartography and Geographic Information/Association Internationale de Cartographie et d'Information Géographique.

Over the last six months several important events have occurred and are reported by members of our Executive Committee, as well as the ICA's current and past Presidents. Amongst the more important are the signing of memoranda of understanding with the Pan-American Institute for Geography and History, as well as the United Nations Office for Outer Space Affairs. Texts of both memoranda are included in this issue.

Commissions' reports are included in this issue, in addition to a joint paper by Vladimir Tikunov, Ferjan Ormeling and Milan Konecny commemorating the centenary of the birth of Konstantin Alexeevich Salishchev (1905-1988).

I hope you enjoy this issue of the Newsletter,

Graciela Metternicht

Editor, ICA Newsletter.

President's Report

Dear Colleagues and friends,

The cartographic community is 'warming up'. The growing activities of the ICA Commissions, Working Groups, individuals, Executive Committee members, and organizers of the ICC 2005 under the excellent leadership of ICA's Vice-President Ramon Lorenzo, are largely responsible for this increased dynamism. In my home country, the Czech Republic, we have a say: 'Do not bless the day before the evening'. Although we are yet to hold our 22nd International Cartographic Conference, I am getting plenty of signals to be optimistic that A Coruña ICC will be one of the best conferences in the ICA history, with participants expected to be around 1,500 to 2,000. The organizers also expect the attendance of members of the King of Spain family.

Hereafter I like to briefly comment on some of my recent activities.

Executive Committee

The Executive Committee discussed at length the preparation of the event with the Chairman of the Organising Committee, Ramon Lorenzo. Amongst others, on the basis of K. Virrantaus suggestion, the EC decided that the Commission Chairs will select the best papers presented by young researchers at the ICC. These papers will subsequently be peer reviewed for incorporation in a special conference issue of ICA journals (CaGIS and The Cartographic Journal). The EC also fully accepted B. Cartwright's ideas on Art and Equity, which inspired the EC for forthcoming activities in these fields.

The idea of having a Council of Past Presidents (and perhaps also Secretary Generals) leading ICA has been suggested by Vice-President V. Tikunov. I will endeavour to find an appropriate path for its implementation, particularly in what regards the financial support needed to this end. I am certain that such meetings would enable sharing experiences and knowledge that would greatly benefit our Association.

Another innovative idea is the establishment of the ICA Foundation which would facilitate new possibilities for supporting ICA from outside. Ferjan Ormeling, Ammatzia Peled and me are working on this idea.

I am pleased that ICA is internationally more visible now. Our current cooperation with the GIM International journal (cared by D. Fairbairn in cooperation with G. Metternicht), as well as with other journals is providing a place for showing our activities, especially scientific results of our members (GIS Development, Geo-Informatics, etc.). I am also glad for the two new cartographic books from the fields of geovisualization, maps on Internet, and the forthcoming on Data Standardisation (activities coordinated by R.McMaster).

The most important message from the Executive Committee meeting held in Mexico City is that it was decided to organize a General Assembly in A Coruña. It is the first time in the history of the ICA that the EC organises a general meeting after two years. Because we would like to be more flexible and more sensitive to requests expressed by our members, we reacted to a request that ended unsolved at the General Assembly of Durban, that is, the change of the ICA name and subtitle. We decided offering the National Delegates this version for voting: ICA/ACI, International Association for Cartography and Geographic Information/ Association Internationale de Cartographie et d'Information Géographique.

It is a matter of fact that the trend mentioned in the Strategic Plan and supported by the EC, i.e. 'better cooperation and coordination of the commission activities' will realize at the Five-Commissions meeting to be held in Madrid from July 5, just before ICC in A Coruña. I expect very fruitful discussions and the formulation of the ICA research agenda.

After a joint effort of the ICA's Executive Committee represented by Ramon Lorenzo and me, Wilber Ottichilo, and Ute Dymond we could organise a special session on Early warning and Risk management at A Coruña.

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Events and Conferences

One of the most difficult duties of a President is to travel and contact members of the ICA, and to propagate and create awareness about ICA's activities.

At the end of February I visited the Department of Information and Education of Teachers at Sofia's university 'St. Kliment Ohridski', and on behalf of ICA I supported the preparation of a training school of Cartography and GIS for Geography teachers at all high schools of Bulgaria.

On March 3, I visited the United Nations Office for Outer Space Affairs (OOSA) in Vienna, for a meeting on Global Navigation and Satellite System (GNSS). At that time, I signed a Memorandum of Understanding with UN-OOSA (see information and photo in this issue). ICA was asked to coordinate the participation of sister organizations in GNSS efforts.

On March 1, I participated in the conference of the International Hydrographic Association (IHO) in Monaco. Accompanied by the President of IHO, Admiral Maratos, and M. Huet I handed over awards for the best hydrographic maps from the Map Exhibition held at the ICC 2003 in Durban, South Africa. The IHO is good at propagating cooperation with ICA, as well as supporting the ICC 2005.

The ICA is supporting and giving endorsement to the International Steering Committee on Digital Earth. From the 28-31 March 2005, I attended the 4th Symposium on Digital Earth, 'Digital Earth as a Global Commons', held in Roppongi Hills Mori Tower, Tokyo, Japan. I gave a welcoming address on behalf of the ICA, and a paper on development trends in Digital Earth.

Accompanied by ICA's Past President Rystedt, I also participated in the FIG Working Week and 8th International Conference of the Global Spatial Data Infrastructure (GSDI-8) held in Cairo, Egypt, from the 16-21 April 2005. I gave a paper prepared jointly with ICA's Secretary General Ferjan Ormeling, entitled 'The Role of Cartography in the GSDI World'. In there we not only express our thoughts about ICA approaches, but also remind that the first SDI (the Ortelius and mainly Mercator atlases) were developed in 16th century. Concurrently we emphasised the fact that cartography is customized, individualized and able to prepare products just according to user's requirements.

Part of the Cairo agenda was another meeting of the initiative started in Durban by ICA, that is, the Joint Board of Geo-spatial Information Societies (JBGIS) and Global Mapping project (ISCGM) meetings (you can read our Past President's report in this issue).

Just after events in Egypt I visited the Map Middle East event. This is the first Annual Middle East Conference and Exhibition on Geospatial Information, Technology and Applications, held in Dubai, UAE. The title of the conference was 'Geospatial Information and Knowledge Economy'. I found there a lot of specialists, not only from UAE but also neighbouring countries willing to be part of our community, combining their GI and GIS efforts with cartographic knowledge. The keynote speakers were: M.P. Narayan, president of CDMS, India; Gottfried Konecny, University of Hannover, Germany; Mohammed Al Zaffin, Director, Dubai GIS Center, UAE; Terrence J Keating, Vice-President, Intergraph Mapping and Geospatial Solutions; Martin Molenaar, Rector, ITC, The Netherlands; David Coleman, Dean of Engineering, New Brunswick University, Canada; Vanessa Lawrence, Director General and Chief Executive, Ordnance Survey, UK; M Gopal Rao, Additional Surveyor General, Survey of India; Milan Konecny, President, International Cartographic Association; and

Li Deren, Wuhan University, China. My presentation was entitled 'Cartography and Geospatial Infrastructures: Lessons from Hazard Situations'. In the technology trends session we heard papers from David Maguire, Director Products, ESRI; Albert Godfrind, Oracle Corporation; and Mark Reichardt, President, Open Geospatial Consortium. In Large Scale Mapping session a contribution from Saliem M Khalifeh, Director General, Royal Jordanian Geographic Centre, Jordan was presented. I began discussions with representatives of several countries of that region and I hope that some of the countries will be soon active members of the ICA.

The good news is that some countries are coming back to our family, as is the case of Ukraine and several countries that have shown interest to become members. ICA is also active in Africa (responsibility of our Vice-President H. Nyapola) and Past President B. Rystedt (CODI report in this issue).

Several Summer schools are coming and it will be necessary to coordinate them for profit of ICA members: Russia (V. Tikunov), Hungary (L. Zentai, B. Markus), Bulgaria (T. Bandrova) and possibly in the central European region.

Last May, UNESCO and the Club of Rome organized the event 'ICT for Capacity Building: Critical Success Factors for Education and Training'. The discussions with people from developing countries organised by videoconference in order to understand their real situation and most appropriate forms of providing help and concepts related to education should set a good example for ICA.

I also continue looking for a possibility of our Association being more visible at the forthcoming World Summit of Information Society (WSIS) which will be held at the end of this year in Tunisia.

Amongst many other activities, I am preparing a MoU with GISIG, and have begun strategic discussions with the president of OGC, Mark Reichardt, about possible cooperation between our organizations in the near future.

I hope to meet you all at A Coruña, and I will be glad to contact you personally and hear your suggestions, critical comments and recommendations about how to continue improving ICA's image and activities in the future.

Milan Konecny
President

Children Map the World: Selections from the Barbara Petchenik Children's World Map Competition

This book presents one hundred favourite drawings submitted by children from around the world. This is an imaginative collection by young artists ranging in age from five to fifteen that reflects artistic, cultural, social, and cartographic awareness. In these drawings, young people express their hopes, wishes, and fears for their world. The images show young people's enduring interest in maps and the excitement to be had from them.

For children, parents, and teachers, these drawings will inspire and delight. The International Cartographic Association (ICA) created the Barbara Petchenik Children's World Map Competition in 1993 as a memorial for Barbara Bartz Petchenik, a cartographer who studied how children comprehend maps. To date, thousands of children from fifty-two countries have been involved in this competition. Proceeds from

the sale of this book will go toward graphic literacy promotions that target developing countries and disadvantaged learners. Available in June 2005 from ESRI Press, www.esri.com/esripress, or at better bookstores and online retailers worldwide, for \$24.95.

The book will be featured at two upcoming international events: ICC 2005 at A Coruña, Spain is hosting a ten year (1993-2003) retrospective exhibition of the winners of the Barbara Petchenik Children's Map Competition organized by Jeet Atwal from Carleton University and the Local Organizing Committee. There will also be an accompanying display describing the history and archive of the children's maps at Carleton.

The 25th Annual ESRI International User Conference, San Diego, California, July 25-29, will host a reception on Monday night for the opening of an exhibition of maps and map inspired artworks from the book *Children Map the World*. Attendees can meet Jeet Atwal, one of the book's editors, and receive a free poster commemorating the books publication with every book purchase.

Steve Hegle
ESRI Press

H.R.H The Prince of Asturias has accepted the Honorary Presidency of the XXIIth International Cartographic Conference

The Organizing Committee of the XXIIth International Cartographic Conference has the honour of communicating that H.R.H The Prince of Asturias, consented to the petition made by the Organizing Committee, has accepted the Honorary Presidency of the XXIIth International Cartographic Conference, which will take place in A Coruña from 11th to 16th next July, with the motto "Mapping Approaches into a Changing World".

We are sure that the satisfaction we, the Organizing Committee, feel is shared by the members of the Spanish Association of Cartography, Photogrammetry and Remote Sensing and of the International Cartographic Association. This is the reason why we would like to express our gratitude to H.R.H. The Prince of Asturias for accepting the Honorary Presidency of our Conference.

Ramon Lorenzo Martinez
Conference Director

Presentations in the provisional programme for A Coruña according to country

Countries	Oral presentations	Posters	Total	Countries	Oral presentations	Posters	Total
Algeria	3	1	4	Kenya	2	-	2
Argentina	3	-	3	Korea	-	1	1
Australia	15	3	18	Latvia	1	-	1
Austria	14	2	16	Lithuania	1	1	2
Belgium	8	-	8	Mexico	3	1	4
Botswana	1	1	2	Moldova	-	1	1
Brazil	18	21	39	Netherlands	15	3	18
Brunei Daressalaam		1	1	New Zealand	1	-	1
Bulgaria	1	1	2	Nigeria	4	6	10
Cameroun	4	3	7	Norway	2	4	6
Canada	15	3	18	Peru	1	-	1
Chile	1	3	4	Poland	18	11	29
China	25	23	48	Portugal	1	4	5
Colombia	3	-	3	Romania	1	-	1
Croatia	6	2	8	Russia	18	3	21
Cuba	3	-	3	Saudi Arabia	-	1	1
Czech Republic	5	1	6	Serbia	2	-	2
Denmark	5	1	6	Slovakia	-	1	1
Fiji	1	-	1	Slovenia	2	-	2
Finland	10	1	11	South Africa	7	1	8
France	9	2	11	Spain	106	42	148
Germany	32	6	38	Sudan	-	1	1
Ghana	-	1	1	Sweden	12	5	17
Greece	11	4	15	Switzerland	23	1	24
Honduras	-	1	1	Tunisia	1	2	3
HongKong	1	1	2	Turkey	2	5	7
Hungary	4	2	6	Ukraine	2	2	4
India	9	3	12	United Kingdom	3	27	
Iran	-	1	1	United States	54	8	62
Ireland	1	-	1	Uruguay	1	1	2
Israel	7	1	8		540	206	746
Italy	10	3	13				
Japan	11	6	17				

Executive Committee

Memoranda of Understanding



MEMORANDUM OF UNDERSTANDING
between the
UNITED NATIONS OFFICE FOR OUTER SPACE AFFAIRS
and the
INTERNATIONAL CARTOGRAPHIC ASSOCIATION

THE UNITED NATIONS OFFICE FOR OUTER SPACE AFFAIRS (OOSA)
AND
THE INTERNATIONAL CARTOGRAPHIC ASSOCIATION (ICA)

HAVING a common interest in supporting developing countries, especially through the promotion and provision of education and training for the use of space-supported systems and services for the management of sustainable development tasks;

WISHING to increase the awareness of the use and applications of global navigation satellite systems (GNSS) to support sustainable development in all its aspects: economical, environmental, social, technological, cultural and ethical;

WISHING to build capacity and support the distribution and the sharing of best practices in case of Geographic Science for developing countries to enable them to respond to the social, economic, environmental and technological needs of their countries by increasing access to education and training in space-related areas, in particular the applications of GNSS in cartography and GI fields, and also the areas of early warning and disaster management;

NOTING that the ICA conducts its activities through 20 Commissions and several working groups, whose members, from more than 70 countries, are experts in the subject areas that are relevant to the objectives of OOSA, and that OOSA and ICA have mutual interest in facilitating collaboration between international organizations;

HEREBY AGREE as follows:

1. To collaborate, particularly through the United Nations Programme on Space Applications (UNPSA) of OOSA, in the promotion and conduct of activities that are of mutual interest and take into consideration the limited resources available to each organization to conduct such activities;
2. To coordinate the feasibility, scheduling, types of events, topics and/or specialist needs in pre-planning and delivering related activities;
3. To jointly identify relevant high quality specialists and lectures for United Nations led events (particularly UNPSA activities and special lectures at the Committee on the Peaceful Uses of Outer Space and in particular, its Scientific and Technical Subcommittee);
4. To jointly seek opportunities to include OOSA activities to be organized within the framework of UNPSA in the biannual ICA conferences and in relevant ICA and/or common ICA and sister organizations commissions meetings and events;
5. To utilize, when appropriate, the scientific technological expertise of ICA through reviews, evaluations or recommendations on matters relating to the use and applications of GNSS, early warning and disaster management and management of natural resources;
6. To facilitate collaborative research on the applications of Internet cartography, of ubiquitous cartography for providing early warning mechanisms for broadcasting early warnings and for supporting disaster management and natural resource monitoring and management;
7. That this Memorandum will not of itself give rise to any financial implications for the United Nations or for ICA;
8. That this Memorandum may be modified or amended by written agreement between OOSA and ICA respectively;
9. That this Memorandum shall enter into force upon signature by the authorized representative of OOSA and ICA and may be terminated by either OOSA or ICA by written notification to the other party six months in advance of the date of termination.

IN WITNESS WHEREOF, the parties hereto have signed this Memorandum of Understanding on the 3rd day of March 2005.

Sergio CAMACHO-LARA
Director, Office for Outer Space Affairs
United Nations Office at Vienna

Milan KONECNY
President
International Cartographic Association



ICA President, Milan Konecny, and Director, Office for Outer Space Affairs of the United Nations; Sergio Camacho-Lara signing the MoU between OOSA and ICA.



MEMORANDUM OF UNDERSTANDING
 Between the
PANAMERICAN INSTITUTE OF GEOGRAPHY AND HISTORY (PAIGH)
 and the
INTERNATIONAL CARTOGRAPHIC ASSOCIATION (ICA)

1. Parties

This document constitutes a Memorandum of Understanding between the Pan-American Institute of Geography and History (PAIGH) and the International Cartographic Association (ICA).

2. Background

The PAIGH and the ICA each recognises that the other is an international organisation with many complementary activities serving similar professional constituencies.

PAIGH is an Inter Governmental Organisation of consultative and technical nature comprising over 21 member states represented by their respective officers. PAIGH objectives include to encourage, coordinate and publicize cartographic, geographic, geophysical and historical studies as well as related sciences of interest to the Americas. To promote and carry out studies, projects, and training in these disciplines and to promote cooperation among the institutes of these disciplines in the Americas, as well as with related organizations.

ICA is the world authoritative body for cartography and Geographic Information (GI) Science. The ICA works with national and international governmental and commercial bodies and with other international scientific societies to contribute to the understanding and solution of world-wide problems through the use of cartography and GIScience in decision-making processes; to foster the international dissemination of environmental, economic, social and spatial information through mapping; to provide a global forum for discussion of the role and status of cartography and GIScience; to facilitate the transfer of new cartographic and GI technology and knowledge between nations, especially to the developing nations; to carry out or to promote multi-national cartographic and GIScience research in order

3. Purpose

The purpose of this Memorandum of Understanding is to provide a framework for a continuing liaison between the two organisations. This will be achieved by maintaining and increasing the opportunities of scientific, technical and professional as well as academic and educational exchange between their members, through a continuing programme of co-operation leading to mutual sharing of knowledge and expertise to the advantage of both organisations.

4. Programme of Activities

In accordance with the background and purpose described above, both organisations agree to endeavour to intensify their co-operation for mutual benefit. The following steps will be taken, among others:

1. Regular contact is to be established between the two organisations in order to institute and maintain a continuing liaison to address matters of common interest.
2. Each organisation should inform the other of all academic, scientific or operational established bodies such as commissions, committees or working groups, that it has established and invite representation from the other where it is agreed that it would be appropriate.
3. Each organisation should inform the other of its programme of proposed scientific, academic or professional activities such as conferences, seminars and workshops, to enable joint participation should it be of mutual benefit and inform its members of these events as appropriate.
4. Both organisations should identify opportunities to organise specialised seminars or workshops under joint sponsorship.
5. Both organisations confirm their commitment in the work to advance spatial data infrastructures at multi levels, as in the Global SDI and Global Mapping initiatives.
6. Each organisation should invite a representative from the other organisation to attend respective General Assemblies/Conferences and offer complimentary registration.

5. Financial Commitment

It is understood that neither organisation can commit the other to any expenditure, save that from administering this MoU, without the specific written consent of both organisations.

6. Legal Status

This Memorandum does not create a legal link between the two organisations who will maintain their mutual independence.

This Memorandum of Understanding is valid until PAIGH or ICA proposes changes to it. Each organisation has the right to propose changes to this Memorandum at any time. Any changes shall be subject to the consent of both organisations.

This Memorandum of Understanding can be terminated at any time for any reason by one party writing to the other party, signifying its intention to withdraw from the terms of the MOU.

Signed: February 7, 2005 in Mexico City, on the occasion of the ICA EC Meeting

On behalf of PAIGH

On behalf of ICA

Dr. Santiago Borrero
 PAIGH Secretary General



Dr. Milan Konecny
 President ICA



ICA President, Milan Konecny, and Panamerican Institute of Geography and History Secretary General, Santiago Borrero signing the MoU between PAIGH and ICA.



Milan Konecny handing over the anniversary gift (the first 1609 Blaeu map of Mexico) on behalf of PAIGH's 77th birthday.

Conferences

FIG Working Week and 8th International Conference of the Global Spatial Data Infrastructure (GSDI-8) in Cairo, Egypt, 16-21 April 2005

FIG Working Week

Every year FIG organises a working week. It is a conference with plenary sessions and parallel sessions devoted to the work undertaken within the commissions. This year the conference was organised by the Egyptian surveyors and combined with GSDI-8. Together with other meetings it was a busy week. The conference was well attended and documented. Reports and proceedings are available at www.fig.net. FIG also organises regional conferences. In September this year one for Latin America will be held in Havana, Cuba and in March 2006 one for Africa in Accra, Ghana. The next International Conference and General Assembly will be held in Munich, Germany, in October 2006 in conjunction with InterGeo. My experiences of mixed conferences are not good and I do hope that ICA will not fall into the trap of organising the International Cartographic Conference as a parallel event with another organisation.

GSDI-8

Global Spatial Data Infrastructure (GSDI) is now an association with President, Executive Director and a Board. ICA has an Ex Officio seat in the board. During the FIG Working Week in Cairo the board conducted several meetings from April 16 to April 21. President Konecny participated April 17 and Past President Rystedt participated April 16 and 21.

The board is rather big with representatives from different parts of the world and different types of organisations as well as different fields of the society. At the moment, the position as representative for International Geographic Associations is vacant. New President is Harlan Onsrud, USA, who took over after Mukund Rao, India. New Executive Director is Allan Doyle, who succeeded Alan Stevens. It was also decided to appoint a Secretary. Until now USGS has provided secretariat services.

GSDI operates via six standing committees. The Technical Committee chaired by Doug Nebert has developed the GSDI Cookbook with a special edition for Africa. These products have been and still are of great importance for the development of National Geospatial Data Infrastructures all over the world. Carmelle Cote, ESRI presented a strategy and action plan for getting more industry sponsored project that was very well received by the board members. The Conference Planning Committee presented a draft programme for GSDI-9 to be held in Santiago de Chile in beginning of November, 2006. At the end of the meeting the board decided to reject the invitation to join the Joint Board of Geospatial Information Societies. The decision was based on a rather negatively flavoured report given by Allan Doyle.

Bengt Rystedt
ICA Past President

Joint Board of Geo-spatial Information Societies (JBGIS)

The Joint Board (JB) of Geo-spatial Information Societies is constituted by the Presidents of FIG, IAG, ICA, IHO, IMTA, ISCGM and ISPRS. It was formed in 1999, when the International Union of Surveying and Mapping (IUSM) was dissolved. JB meets once a year to discuss matters of common interest. This year the meeting was held in Cairo during the FIG Working Week. The first topic of the agenda was the organisation and strategic position of JBGIS. Based on a Green Paper produced by Ian Dowman, President of ISPRS, and a lively discussion the following decisions were taken:

- The JB will have a Chairperson, who will be appointed by the JB. The term of office is two years with option for extension with one term.
- The Chairperson can speak on behalf of the JB externally after consultation with members of the JB.
- All decisions of the JB need to be confirmed by all member associations.
- The JB can establish ad hoc committees on important topics of common interest. In urgent issues an ad hoc committee can be established by the Chairperson after consultation with members of the JB.
- All members can propose chair and appoint members to an ad hoc committee.
- The JB will have a permanent address, which is the permanent office of FIG (responsible for minutes of the meetings, administration and web site).

In response to the first item, Professor Magel was appointed Chairperson for the coming two years, until the meeting 2007. In order to clarify the role of JBGIS the Green Paper will be condensed to a steering document with a set of rules. After the meeting a draft has been circulated and is now ready to be adopted.

It was also decided that new members can be accepted based on invitation or application. Actual members on invitation are GSDI, OGC, Digital Earth and IEEE (though at the GSDI board meeting the following day GSDI decided to deny the invitation).

With regard to future activities we discussed how to be visible at the World Summit for Information Society to be held in Tunis next November. Fraser Taylor reported that so far the final document does not include geo-spatial information as part of information society. An option would be to have a slot on geo-spatial information in the ICSU side event. ICSU has been informed about the interest from JBGIS to contribute.

Another upcoming event is the UN Regional Cartographic Conference for Americas in the end of June in New York. ICA will be represented by Menno-Jan Kraak, Netherlands and Carmen Reyes, Mexico. Most of the other members will also send representatives.

A third activity of common interest is that of the ad hoc Group on Earth Observations (GEO) established by a declaration of 33 nations plus the European Commission on the occasion of the Earth Observation Summit (EOS I) in Washington DC on July 31, 2003. The declaration is a commitment towards the development of a comprehensive, co-ordinated and sustained Earth observation system(s). The ad hoc group met the days after and have until now had 7 meetings in order to develop a 10-year implementation plan of a Global Earth Observation System of Systems (GEOSS). IAG is heavily involved, but also ISPRS and ISCGM participate. The implementation of GEOSS will bring us a lot of geo-spatial information that can be used in many different fields of applications such as: disaster management, health, energy and water resources, climate change, weather, agriculture, forestry and bio-diversity.

In some areas the member organisations have overlapping activities. For this meeting, disaster management and capacity building in Africa were on the agenda. The JB decided to establish one ad hoc group for each one. Bengt Rystedt was appointed to chair the disaster management group and Ian Dowman to chair the education and capacity building in Africa group. The first task of the two groups is to collect information from the member organisations. Hopefully, a first report on disaster management will be presented at the meeting of the ICA working group on Risk Management in A Coruña.

The JB will have its next meeting in Vienna on July 11, 2006 prior to the joint SDH and ISPRS Symposium on Theory and Concepts of Spatio-Temporal Data Handling.

Bengt Rystedt
ICA Past President

ISCGM Meeting in Cairo

The International Steering Committee for Global Map (ISCGM) conducted its 12th meeting in Cairo in conjunction with the FIG Working Week. The Global Map Project is a Japanese initiative presented to Agenda 21 in 1992. The project was recognised by the World Summit for Sustainable Development in Johannesburg 2003 and UN has adopted ISCGM as an "NGO in Special Consultative Status with the Economic and Social Council of the United Nations".

The main objective of the Global Map Project is to achieve a database with geo-spatial data at a resolution of 1 km or better. In April, 2005 the list of participating or considering organisations contained 142 countries. The aim is to get global coverage by 2007. Global Map data have 8 layers: Boundaries, Drainage, Transportation, Population Centres, Elevation, Land Cover, Land Use, and Vegetation. A basic idea with the project is the educational and capacity building aspect. The project provides training, technical support and advice to the National Mapping Organisations (NMO) how to compile the data. When data are verified they will be available to everyone at "a marginal cost".

ISCGM has several working groups, who reported to the meeting. WG1 works with the Strategic Plan and WG2 with the specifications. Progress in feature selection criteria, encoding and data format were reported from WG2. The group aim to have a new revision finalised in March, 2006. WG3 works with the definition of "commercial use". Since copyright to data in most cases remains with the NMO, who has provided the original data, the group proposes that commercial use is narrowed to reselling Global Map Data and that a web portal is established to manage this. If these proposals are accepted, it will be necessary to put in place licence agreements and procedures to order, download and pay. However, it is assumed that viewing the data over the Internet is free. WG4 works on Raster Data Development i.e. Land Cover, Land Use and Vegetation. The Land Cover Classification System (LCCS) developed by UN-FAO will be used in the future and the group presented a work plan for the production of a global land cover layer by December, 2007.

ISCGM is active in the adoption of the GEOSS 10-year implementation plan and in the integration of earth observation data with socio-economic data. ISCGM will also be represented at the World Summit for Information Society in Tunis in November, 2005.

ISCGM will hold its next meeting in Santiago de Chile in November, 2006 in conjunction with GSDD-9.

*Bengt Rystedt
ICA Past President*

CODI IV in Addis Ababa, April 25-28, 2005

The committee on Development Information (CODI) is a unit within the UN Economic Commission for Africa. CODI has three subcommittees: Statistics, Information Communication Technology and Geo-Information. The first CODI meeting took place in 1999 and since then the CODI meetings substitute the UN Cartographic Conference for Africa.

CODI meetings are held every second year at the UN Head Quarters in Addis Ababa. Members of CODI are the African nations. ICA and some more organisations are affiliate members. The meeting has some plenary sessions for all delegates, but most of the time is devoted to sub-committee meetings. But first of all, as usual at UN meetings the presidium has to be elected. Sudan was elected to chair and the representative of Sudan, Dr Amna Hamid took on her duties as chair until the next meeting.

One of the more important discussions concerned how to improve the awareness of the importance of geo-information at higher political level and how to include geo-information in the African Information Society Infrastructure (AISI) and the National Information and Communication Infrastructure (NICI). Another main topic was Mapping Africa for Africa. The findings from the discussions are summarised in the following resolutions:

On Integration

Recognising that Geo-information is part of the AISI, yet the developments of Geo-information policies have been going independently from the overall information policies of member states; that there is need to include Geo-information in the National Info-structure content in order to fully realise the objectives of AISI.

Noting that a physical mapping infrastructure needs to be in place before Geo-information can be collected and processed.

Recommends

- That member states that have not yet started to develop SDIs and NICIs should adopt an integrated approach when developing their national e-strategies;
- That member states that have already started SDIs and/or NICIs, should ensure that links are created between the two with strong coordinating mechanisms;
- That governments allocate necessary resources to extend and maintain the mapping infrastructure, including geodetic framework and core datasets:

On Mapping Africa for Africa

Recognising that a) up-to-date, relevant, standardised and integrated Geo-information and statistical information are critical for sound decision-making; b) there is a lack of a programmatic approach to the collection, maintenance and dissemination of such information; c) most of the Info-structure content for Africa is the responsibility of member states and institutions; d) the availability of National Administrative Divisions as a fundamental dataset is crucial for the analysis and management of socio-economic phenomena;

Recommends

The adoption of the Durban Statement on Mapping Africa for Africa (MAfA).

Welcomes

- The efforts of the Second Administrative Level Boundaries (SALB) project activated by the UN Geographic Working Group as a basic platform for the collection, management, visualisation and sharing of socio-economic data at sub-national level;
- The efforts of the ICA working group on MAfA.

Urges

Member states, particularly through their National Mapping Agencies (NMAs), to

- Implement the recommendations of the Durban Statement on MAfA, and
- Support the SALB project and provide the necessary data and information it requires.

Furthermore, resolutions were adopted to recommend On Situs Addressing and participation in the African Resource Management Constellation System on Earth observation and communication satellite systems.

Meetings were also held for the sub-groups of CODI Geo-Information. Such one, was a joint meeting with the ICA Working Group on MAfA and the sub-group on Fundamental Datasets, chaired by Derek Clarke, of South Africa. A list of activities were discussed and actions taken to move ahead.

The last day was devoted to technical papers. On behalf of ICA I presented the paper Maps and Geographic Information to Everyone Everywhere, in which I gave a short summary of the work within the ICA and stressed the progress in standards in the field of Geo-Information and that new developments in wireless communication open up the possibility to deploy data communication also in rural areas to affordable costs.

*Bengt Rystedt
ICA Past President*



Participants of CODI IV. From left to right: Dr. Amna Hamid, Director of the Sudan Remote Sensing Authority and current Chair of CODI Geo-Information, Dr Dozie Ezigbalike, responsible for CODI Geo-Information at UN-ECA in Addis Ababa and Mrs Hind Mahmoud, WHO in Khartoum.

Commissions' Reports



3rd Symposium on LBS & TeleCartography

The ICA Commission on Maps & Internet in cooperation with the Cartography Research Group of the Vienna University of Technology is announcing the 3rd Symposium on LBS & TeleCartography, to be held from Monday, 28th to Wednesday, 30th November, 2005 at Vienna University of Technology, Vienna, Austria. This event is co-sponsored by the ICA Commission on Ubiquitous Cartography, the IAG WG 4.1.2 Indoor and Pedestrian Navigation and the ISPRS Working Group 5-Communication and Visualization of Spatial Data, Technical Commission II.

Contributions of Cartography, Geoinformation, Computer Sciences, Telecommunication, Geodesy, Spatial Cognition, GeoVisualization address current topics of:

- Location Based Services
- TeleCartography (Map based LBS)
- Applying Multimedia to LBS
- Ubiquitous Mapping
- Wearable Mapping
- Positioning Methods
- Navigation Systems
- Mobile Mapping
- Cartographic Theories and Techniques
- Visualization, VR and Augmented Reality
- Personalization & Adaptive Methods
- Spatial Decision Support
- Persistent Spatial Assistants
- Smart Environments and Active Landmarks

All contributions will be reviewed by the program committee for inclusion in an upcoming book on Location Based Services & TeleCartography.

Important Dates

Conference Dates: 28 – 30 November 2005

Abstract Submission: 1st July 2005. Send your abstract (600 words) as *.rtf, *.htm, *.pdf or *.doc file to office@cartography.tuwien.ac.at

Final Paper Submission: 1st September 2005

Conference Committee

William Cartwright, RMIT, Australia
Keith Clarke, UCSB, USA
Jürgen Döllner, HPI Potsdam, Germany
Andrew Frank, TU Wien, Austria
Georg Gartner, TU Wien, Austria (Chair)
Bin Jiang, Univ Gävle, Sweden
Liqu Meng, TU Munich, Germany
Takashi Morita, Hosei Univ, Japan
Michael Peterson, UNOmaha, USA
Jonathan Raper, CityUniv, UK
Günther Retscher, TU Wien, Austria
Tiina Sarjakoski, FGI, Finland
Dieter Schmalstieg, TU Graz, Austria
Markus Uhlirz, Nokia, Finland
Edward Verbree, TU Delft, Netherlands
Stephan Winter, UMelb, Australia
Sisi Zlatanova, TU Delft, Netherlands

Conference Venue

The Symposium will take place at TU Vienna. An accompanying social program will give you the opportunity to enjoy the prechristmas ("Advent") atmosphere of Vienna.

Further Information: <http://cartography.tuwien.ac.at/symposium2005/>
or georg.gartner@tuwien.ac.at

George Gartner

ICA Commission on Spatial Data Standards

Our ICA book, "World Spatial Metadata Standards" is nearly through the galley proof process. The five Parts with text have now been processed, and the large Crosstable of the 22 standards by the 70 crucial variables is now being analyzed in galley proof. At the Berlin Plenary meetings a copy of the "ICA Prototype V 6.0 Spatial Metadata Standards Crosstable" was presented to TC211 Chair Olaf Østensen as part of the ICA Spatial Data Standards Commission Report to the TC211 Plenary Meetings. This metadata crosstable is another tangible contribution that the ICA Standards Commission has made to the work of TC211 over the years.

Planned ICA/TC211 Standards Session at Coruña ICC Meetings

The Commission in cooperation with the TC211 Outreach Committee headed by Henry Tom will present a joint standards session in the main ICC scientific sessions in Coruna, Spain the second week in July. This scientific session aims to acquaint the ICC participants with the wide range of standards activities being undertaken by ISO/TC211 and related organizations, including the ICA Standards Commission.

Harold Moellering

Chair, ICA Commission on Spatial Data Standards

ICA Commission on Maps and the Internet

Over 20 participants attended a hands-on workshop on contemporary web-mapping technologies in Tehran, Iran. The meeting held November 28-30, 2004 was organized by the National Cartographic Center of Iran and conducted by the Commission on Maps and the Internet, represented by the co-chair Georg Gartner and Markus Jobst, both from

the Department of Geoinformation and Cartography at the Vienna University of Technology, Austria. The workshop was divided into four major topics with presentations and hands-on sessions. Topics included "Introduction to Web Cartography", "Authoring Interactive Maps", "Vector-based Web Mapping" and "Server-side Web Mapping." The workshop focused on the technological and methodological aspects of delivering maps on the web, including such topics as tools, design questions, interactive functions, animated maps, client/server-architecture, vector-formats and map server technology.

The workshop was organized and hosted by the Cartography Department at the National Cartographic Center. It represents only the first step in a long-term cooperation between Iran's National Cartographic Center and the ICA Commission on Maps and the Internet.

George Gartner

ICA Commission on Maps and Graphics for Blind and Partially Sighted People

Current Commission Activity

Reflecting the isolation felt by people who work with tactile graphics, much commission activity over the past year has concentrated on improving communication. The commission considers it vital that a means to find out what other producers are doing exists, and this is chief amongst its aims. It is possible to identify useful progress in several key areas that show how this goal is being achieved.

Commission Website

In order to provide guidance on and encourage good practice in design and production the commission website INTACT (<http://www.surrey.ac.uk/~pss1su/intact/>) continues to expand. A repository for general information about the commission, it also includes an archive of conference papers and a regularly updated page of links, particularly useful for accessing information on map design guidelines, a hot topic in tactile graphic circles. Simon Ungar, a psychologist at University of Surrey continues to be responsible for upkeep and maintaining the site. His involvement represents the close ties the commission seeks with other subjects, associations that strengthen tactile cartography, which is notable for the interdisciplinarity that defines it.

Internet forum

Though the commission does not have its own dedicated electronic discussion group, Accessible Image (<http://www.freelists.org/archives/accessibleimage/>) moderated by Lisa Yayla a commission member from Norway is the main Internet forum and place to go for asking burning questions or sharing ideas about tactile graphics.

Commission Newsletter

With a 1st issue appearing in June 2004, the commission newsletter TacNews, currently running to 8 hardcopy pages, and available in alternative formats for blind readers, is published three times annually. Edited by UK based Ann Gardiner in conjunction with the commission chair, both are keen for the publication to be seen as informal, but with international relevance for its global readership. TacNews represents an attempt to generate greater levels of interest and participation in the commission by giving corresponding members a sense of involvement. Regular features include "Where can I find it- a guide to tactile resources", pen pictures of leading figures in the field of tactile cartography and a conference calendar.

Conferences

A recent upsurge in tactile map research is reflected by an unprecedented response to the call for papers for the forthcoming International Cartographic Conference in A Coruña in July 2005. For the first time in recent memory the commission will have three sets of oral presentations at the conference comprising 14 papers in themed sessions that include Tactile Maps: Use and Production; Tactile Mapping Perceptual & Cognitive Approaches; and Technological Innovation. Marking a strand of current activity, the final theme is particularly important to the commission. New developments in ways of gathering, representing and providing spatial information pertinent to visually impaired users are constantly being monitored (GPS looks very exciting in this regard). In addition a further 6 papers have been accepted for poster presentation at ICC2005. The commission chair also organised a session on tactile mapping at the recent Association of American Geographers Conference in Denver 2005, a further indication of renewed interest in tactile mapping.



Participants and organizers of the Workshop on Internet Cartography, held in Tehran, Iran, November 2004. Workshop presenter, Dr. Georg Gartner, is second from the right. Photo courtesy of co-workshop presenter, Markus Jobst (far left).

Commissions' Reports

Tactile Surveys

Two surveys previously reported as core to the commission's work; one intended to learn something about the international nature of tactile mapping, the other to investigate user perspectives and the implications these will have for tactile map design are progressing well. Data collection for both surveys is now complete and analysis at an advanced stage. Initial results from the tactile map production survey have been published in the British Journal of Visual Impairment a leading practitioner journal in the UK, a summary has also appeared in the Cartographic Journal. "Entre dos mundos: Revista de traducción sobre discapacidad visual" a journal published by ONCE, a Spanish organization representing blind people have also reprinted the initial reports (<http://www.once.es/home.cfm?id=353&nivel=3&orden=5>). This is particularly important given levels of tactile map activity identified in the survey from the Spanish-speaking world, especially Latin America.

Other Tactile News

The two major providers of tactile graphics in the UK have recently merged. The National Centre for Tactile Diagrams (NCTD) has combined resources with the Royal National Institute of the Blind (RNIB) and relocated to Birmingham.

NCTD has also announced the 3rd International Conference on Tactile Diagrams, Maps and Pictures will be held in Birmingham, UK, 1-2 December 2005. An interim meeting of the commission will be arranged to coincide with those dates. For further information visit the NCTD website (<http://www.nctd.org.uk>).

The Royal National College for the Blind Hereford, UK has recently launched a Talking Tactile Tablet in the UK. This digital pad that provides supplementary verbal information explaining tactile graphics that overlay it, builds on previous similar developments. Details can be found at (<http://www.talktab.org>).

At the end of 2004 the Head Office of Geodesy and Cartography in Warsaw, Poland published a school tyflogical "Geographical Atlas of Poland" for blind and partially sighted people. A full description of the atlas will be provided when the atlas is presented at ICC2005.

For people interested in using new technologies to create tactile maps, Joshua Miele of the Smith Kettlewell Institute for Eye Research, San Francisco, US, has recently been promoting Tactile Map Automated Production (TMAP) using GIS to automatically generate raised-line street maps. More details and examples of maps produced by this interesting project are available at (<http://www.ski.org/tmap/>).

Future Commission Activity

The main focus of commission activity in future will centre on; formalizing the way tactile map research is shared to ensure no overlap occurs; investigating ways of making information more widely available, especially in the developing world, and developing a training programme for tactile map use, particularly as education is the one area where little or no research appears to have been conducted. High on the agenda for the commission meeting in A Coruña will be an initial proposal to hold a tactile mapping symposium in a developing country.

Jonathan Rowell

*Chair, Commission on Maps and Graphics for
Blind and Partially Sighted People*

ICA Commission on Marine Cartography

A short meeting of the Commission will be held during ICC 2005 in Spain. The main agenda item will be discussion about the future of the Commission. Since the term of the Commission concludes in 2007 it remains to be seen what will be the future of the Commission as the current Chair is unavailable after then to continue.

The Chair will update those present on the forthcoming CoastGIS meetings to be held in Aberdeen, Scotland (July 2005) and in Sydney and Wollongong, Australia (July 2006).

Ron Furness

Chair, Commission on Marine Cartography

ICA Commission on Gender and Cartography

On 11th and 12th February 2005 the commission on "Gender and Cartography" of the International Cartographic Association organised a meeting in Wrocław, with participants from the ICA's commissions: "Gender and Cartography" and "Theoretical Cartography", geographers, geodesists, ethnologists, sociologists - workers of the higher education schools, and the Institute of Geodesy and Cartography. The meeting was held at the laboratory of GIS of the Department of Geodesy and Photogrammetry of the University of Agriculture in Wrocław.

Professor Andrzej Drabiski, Dean of the Faculty of Environmental Engineering and Geodesy, opened the forum and wishes were sent by: the President of International Cartographic Association, Andrzej Makowski, Chairman of national international cartographic association committee, and Jerzy Albin, chairman of Head Office of Geodesy and Cartography.

Sessions were devoted to definitions of terms and characteristics of socio-demographic factors, demographic data and perception-usage of properties of applied methodological solutions.

The discussion about terminology was opened by Anna Jerkiewicz representing the Sociological Association, Danuta Komarowska. The Director of the Department of Statistical Data Compilation of the Statistical Office, was a moderator of the session devoted to data, while the introduction to the methodological session was led by the director of the Department of Cartography of the Wrocław's University, Wiesawa yszkowska. During the last session, participants had the possibility to acquaint themselves with the proposition of applying mobile automats to the construction of socio-demographic anamorphic maps, as proposed by Adam Michalski. They could also familiarize with the examples of maps' usage in current works of UNHCR.

The final report reflects current important issues connected with the content, form and the function of socio-demographic maps, with the special attention to the cartographic models of not balanced social structures. The report presents the standpoints in thematic order, including comments received from participants:

1. Reliability and usability decide about the importance of cartography. That is why we should pay attention to the development of new picture models of environment's elements, which can be recognized using remote sensing methods, as well as modelling social phenomena and processes, whose spatial distribution and intensity are presented by maps elaborated on the basis of census or questionnaire data, obtained as a result of full or representative researches.

2. In socio-demographic analyses of spatial character, the structural divisions of population inhabiting the territory are used. The criteria of divisions are adjusted to the subject of research. Apart from many unconditioned criteria's features, also sociologically important issues, especially those connected with culture, are described using blurred or conditional characteristics and notions. It creates the danger of using maps lacking objectivity as models of reality. By taking advantage of the group of correctly defined terms and features accepted by international organizations (for example UNHR when it comes to migrations, UNICEF - education, MOP - unemployment, WHO - health and old age, Blind Union - the blind), cartographers should elaborate an open system, that include the set of maps in scale line adjusted to their application functions. Works should begin with analytical maps based on unconditioned criteria features such as gender, age and family state. In synthetic considerations, the dominant features in spatial distributions should be taken into account. Elaboration of such maps requires definitely the presence of specialist on given subject.

3. The natural consequence of maps transfer is a visible comeback to research of perception, which was characteristic of the 1970s. The development of methods and graphic tools creates the need of constant development of their classification. At the same time the importance of criteria's functions increases. When elaborating maps, special attention should be paid to the choice of methods of presentation, which guarantee modelling features of the maps, together with the choice of appropriate graphic media and the map's legend that will allow arriving at a pre-established aim and hierarchy of perception.

4. The development of cartographic methods is not accompanied by proper care of the scope of geographical knowledge realised in school programs. Too often map users treat coloured points as an occurrence area, even when it indicates just the "territorially generalized" level of intensity, which is adjusted to the unit of the reference scale. When it comes to detailed holistic perception of concentration differences, the well-known dot method has been confirmed. That is why, high school education should popularise the ways of choosing weight suitable for data distribution and the scale of map elaboration. Accuracy of information increases the usage of net cartographs, which means equalling the sizes of reference fields of coded quantitative information.

5. In professional studies of not balanced social structures, the participants of the Forum pointed to the usefulness of anamorphoses and topological methods. In the studies of bipartite populations structures, the carto-diagrams presented in the traditional form of diagrams of feature distribution (for instance, number of women at reproductive age) could be changed to diagrams standardizing the graphic key of the map (e.g. the number of people at reproductive age). That means creating correct conditions for receiving and evaluating quantitative relations between two component subpopulations studied due to the certain social aspect. It may concern studies of differentiated access to labour market or to education. Anamorphic conversions of the background can also be used in cartograms, which allow understanding the thematic unity of the model. Such a methodological solution can be used in studies over the structure of observed religious or language minority, comparing to the totality inhabiting given territory (for example Muslims in France).

6. Methodological and graphic correctness are not always sufficient for a map to guarantee informational reliability. It concerns mainly maps, showing complicated phenomena (e.g. culture of a given nation) with characteristics are based upon blurred features, such as race or language, or conditioned ones such as nationality or religion. The participants of the discussion paid attention to the process of

development of terms and their significance for the description of currently important social phenomena. It can be referred to the nowadays important term of "nationality". As symptomatic examples, auto declarative data have been listed. These are data concerning Poles in Zaolzie, which in 20th century has changed its national membership six times, or valid regulation of rating Poles, whereby people born before II World War joined to ZSRR, among people of foreign origin. Another reason for the lack of objectivity of information included in the map can be age incompatibility of the groups of respondents. For example in Poland people aged 13 and in Bulgaria people aged 18 have the rights of determining the nationality.

In socio-demographic studies, social and cultural characteristics cannot be treated separately from the nation's model. For example, during democracy they cannot be separated from patriarchal, national or participatory models. Only the certain set of characteristics creates conditions for correct evaluation of social relationships. That is why the role of specialists in the process of elaborating cartographic synthetic models should not be limited. Operational usability of socio-demographic models increases. Data, which concern health, unemployment, religious structure, education, included in the system, have definite usefulness for governing the city. Demographic and social data concerning refugees migrating through the east border of UE, have usefulness for organising coordination systems (UNHR, Kosowicz - Budapest project), and those concerning age and gender structure of unemployed people, to aid systems of securities (e.g. Caritas). It can be observed that the attempts towards synthetic cartographic aspects are rare and usually concern states. Only confirmed reliability allows for treating them as the basis for the prognosis and not the method of cartographic modelling. However, the unequivocal character of definitions and objectivity of criteria set the level of usefulness of cartographic documentation, steering the processes of social conversions of human environment.

Ewa Krzywicka-Blum
Chair, Commission on Gender and Cartography

Joint Seminar in Madrid: Internet-Based Cartographic Teaching and Learning: Atlases, Map Use, and Visual Analytics

Five ICA commissions (Education and Training, Cartography and Children, National and Regional Atlases, Maps and the Internet, Visualization and Virtual Environments) organize a joint Seminar before the ICC2005. The Seminar will take place in Madrid, 6-8 July 2005 (see http://redgeomatica.rediris.es/ICA_Madrid2005/ for more details).

The organizers have accepted around 40 abstracts and it is planned to publish the proceedings for the seminar. The registration had to be closed before the official deadline in order to be able to manage the large number – around 70 – of participants.

The seminar will be held at the Surveying Engineering School, Politechnical University of Madrid, the local organizer is Rufino Perez Gomez (MERCATOR Group).

László Zentai
Chair, Commission on Education and Training

Commissions' Reports

4th Conference on Spatial Data Infrastructures in Spain

The 4th Conference on Spatial Data Infrastructures in Spain (JIDEE), organized by the Geomatic Commission of the Geographic Superior Council, will be held in the Universidad Politécnica de Madrid (Spain) November 4 – November 25, 2005.

The Geomatic Commission has entrusted the commission of the event to the Research Group MERCATOR. The Conference has the following aims:

- Settling the subject matters discussed in previous meetings;
- Showing the progress of the different working groups;
- Promoting the exchange of ideas;
- Enhancing the network of geo-information experts;
- Having communication tools available;
- Transferring of ideas and technologies,

thus expanding knowledge about Spatial Data Infrastructures in Spain (IDEE) and showing its importance in the process of incorporation of Spain to the Information Society. For this reason the Conference issued a general appeal to:

- Persons in charge of geographic information in all public administrations;
- Innovative working groups and research groups within institutions and organizations related to Geographic Information (GI);
- Professionals interested in updating their knowledge;
- Politicians with information and decision-making ability.

Miguel A. Bernabé

MERCATOR Group, Polytechnic University of Madrid

INTERCARTO-INTERGIS 11

The Federal Service of Geodesy and Cartography of Russia, the International Cartographic Association, the International Geographic Union, the Southern Scientific Centre of RAS, Stavropol State University, Lomonosov Moscow State University and Central European University (Budapest) are arranging the international conference INTERCARTO-INTERGIS 11: 'Sustainable development of the territories: GIS in theory and practice'. The activities of the conference are scheduled for September 25-30, 2005 in Stavropol and Dombai (Russia) and October 1-3, 2005 in Budapest (Hungary). All the scientists and personnel working with geoinformation systems in the field of sustainable development, geo-sciences and social studies are highly welcome to participate.

The concept of sustainable development was first put forward by The International Environment and Development Committee (headed by G.H. Brundtland) in its report and approved by the international community as a universal model at the Rio de Janeiro summit in 1992. Working out the conception and its ratification have become an integral part of the modern humankind history. Indeed, the very fact of its acceptance implied the need for the purposeful reconsideration of all the main sides of human community's life, the need which is apparent from the Johannesburg declaration on sustainable development.

The modern state of geoinformation research, creating and using GIS-technology in practice verify the need to constantly co-ordinate the works on GIS combining the efforts of scientists, specialists and governmental bodies in terms of both Russian Federation and the whole international community in order to form an information-oriented

society. The aim of the conference is to help scientists and specialists share information, ideas and experience concerned with creating and using GIS as an efficient means of carrying out the strategies of sustainable development on different levels – local, municipal, regional, etc. Both theoretical and applied aspects of creating and using GIS in socio-economic, demogeographic, geo-ecological research, nature conservation mapping, data banks and bases development are planned for discussion. Leading scholars and top-level professionals are invited to participate which is a valuable chance to get acquainted with the most up-to-date achievements and establish new business and creative relations.

The main subjects of InterCarto-InterGIS 11

- *Using geoinformation systems to supply sustainable development (from local to global)*
Questions to examine: GIS and ecological, economic, social and political constituents of sustainable development. Network technology, OLAP as applied to GIS-technology. Ecological GIS: development experience. GIS for sea and ocean studies. GIS for extraterrestrial research.
- *Mountainous countries: settling, ethnodemographic and geopolitical processes.*
Questions to examine: demographic potential, depopulation, migratory processes, ethnic processes and settling. Comparatory analysis of various countries' highlands (Caucasian and Balkan Mountains in particular) are supposed to be the focal points of discussion. National models and experience of sustainable development. Integration tendency and decomposition bias in European Community. Political and legislative conditions of sustainable development in highlands.
- *Sustainable development and tourism*
Questions to examine: economic perspectives of tourism for sustainable development. Tourist industry and state. The need for government control of the tourist industry. The limits of state interference in the tourist industry. Social and cultural perspectives of tourism for sustainable development. Interrelations between local(residential, locals) population and visitors. Ecological perspectives of tourism and sustainable development. Mass tourism and its ecological after-effects (analyzing natural complexes). Nature-oriented(-based, ecotourism) tourism.
- *Education and sustainable development*
Questions to examine: national education policies in the field of sustainable development, experience in conducting educational courses on sustainable development, methods of distant education.

Roundtable discussions

Roundtable discussions are to follow the main activities in Budapest (Hungary). The subject of the discussion is the following: "Europe facing sustainable development challenges". Questions to be discussed:

1. National models and sustainable development experience
2. Integration tendencies and decomposition bias in European Community
3. Political and legislative conditions of sustainable development in mountainous areas
4. Education and problems of sustainable development in European countries
5. Demographic trends and problems of sustainable development in European countries.

"Scanex" research and development centre is also planning to conduct a roundtable discussion within the framework of the conference. The topic of it goes as follows: "Practical experience in applying space photography data to decision-making (by the example of the Southern federal okrug)". Discussions are planned concerning the ways of accomplishing practical tasks with the help of satellite monitoring data and the possibility of introducing such data to control systems of various levels and the significance of on-line monitoring for forecasting and eliminating emergencies.

Student paper competition

The schedule of the conference also includes student paper competition on the following subject: "Aerospace snapshooting for geographical studies". Winners will be awarded prizes, diplomas and given assistance in publishing their works and announcing the results at scientific conferences including "IterCarto-InterGIS 11".

For more details, please, visit
<http://www.transparentworld.ru/edu/stud-konkurs2004.htm>

You can also view the proceedings of the previous contest at
<http://www.transparentworld.ru/edu/stud-konkurs.htm>

The following websites are recommended visiting before sending an application:

1. Non-profit and non-governmental partnership "Transparent World": www.transparentworld.ru
2. R&D center "Scanex": www.scanex.ru
3. Space photographs interactive catalogue by Scanex: 195.2.92.178/dewb/step1.pl
4. Earth on-line monitoring stations: www.eostation.irk.ru and www.eostation.scanex.ru

Conference participant's registration fee

Russian Federation and CIS: sum equal to 30 Euros in roubles.

Others: sum equal to 180 Euros in roubles.

The fee is to be paid upon participant's arrival to the conference.

Please, address your questions on participation in the conference to:
 Professor Vitali Belozarov, Stavropol State University vice-president
 Email: vsbelozarov@yandex.ru

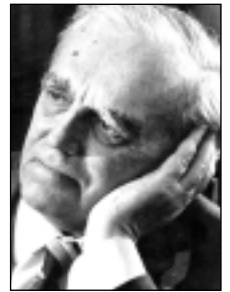
Professor Vladimir Tikunov, Lomonosov Moscow State University
 Tel: +7 095 939 13 39
 Email: tikunov@geogr.msu.ru

Excursions (sightseeing)

Conference participants are invited to join in a trip from Stavropol to Cherkessk and Dombai. The endpoint of the trip is the Airport of Mineralniye Vody. It is planned to visit several privately owned industrial and agricultural enterprises founded after the Soviet Union collapse. The participants will also have the opportunity to get acquainted with ethnic, political and economic challenges which Karachai and Circassian Republic is facing nowadays.

Dombai located in Teberdinsky Reserve is one of the most picturesque and famous mountain-skiing resorts of Russia. There our participants will make a cable-way trip to Mussa Achetar peak (3,000 metres above sea level), Alibek glacier and mountain lake Turie.

Centenary of the birth of Konstantin Alexeevich Salishchev (1905-1988)



On November 20, 2005 will be the centenary jubilee of Konstantin A. Salishchev – the well-known Russian cartographer, who did a lot for the development of cartographic science and the International Cartographic Association (ICA). From 1956 till 1972 he chaired the Commission for National and Regional Atlases of the International Geographical Union; in London/Edinburgh (1984) he was elected Vice-President of ICA, and in Delhi (1968) President for the next 4-year period.

The activities of Prof. Salishchev were focused on geography and cartography. When young, he actively participated in expeditions to North-East Asia under the leadership of S. Obruchev. As a result of this work which was carried out from the end of the 1920's till the middle of the 1930's, detailed maps of the Anadyr, Kolyma and Indigirka river basins and a considerable part of Chukotka were produced. The discovery and mapping of the Chersky mountain-range and of the 'pole of cold' near Oimyakon were the most important results of the research during that period. The world community got acquainted with these studies through Salishchev's publications of 1933-35 in *Petermanns Geographische Mitteilungen* and in the *Geographical Review*.

The compilation of the Great Soviet Atlas of the World was the next stage of his work (1936-38). Since then he was deeply interested in atlas theme for all his life. He chaired the editorial board of the Atlas on the History of Geographic Discoveries and Investigations (1959) and was a member of editorial boards of the Sea Atlas (1950-53), Physical-Geographical Atlas of the World (1964) and Atlas of Oceans (1974-80). Prof. Salishchev was the author of many articles dealing with atlas mapping. Among the most fundamental results of activities of the IGU National and Regional Atlases Commission chaired by Prof. Salishchev for 16 years were the monographs National atlases: their history, analysis, ways of improvement and standardisation (1960 - in Russian and French, 1972 - in English) and Regional atlases: trends of development, content of maps of natural conditions and resources (1964 - in Russian and English).

Prof. Salishchev initiated the organization of the Laboratory of Integrated Mapping at the Moscow State University Faculty of Geography in 1964. A number of scientific and reference atlases have been created there: of Irkutsk oblast (1962), Kustanay oblast (1964), Northern Kazakhstan (1971), Tumen oblast (volume 1 - 1971, volume 2 - 1976), Altai Territory (volume 1 - 1978, volume 2 - 1980). Recently, the Environmental Atlas of Russia (2002) was compiled there, as well as a series of atlases for secondary; the Atlas of Khanty-Mansi Okrug is being prepared there now for publishing. The Laboratory rendered methodological assistance in the creation of the national atlases of Moldavia, Kirgizia, Uzbekistan, Tadjikistan and Lithuania, and of atlases of the oblasts of Perm, Tomsk, Sakhalin and others.

In 1974 the Laboratory started a new fundamental research on maps for high schools, as Prof. Salishchev came to chair the Scientific and Editorial Council on maps for high schools. The work has resulted in the series of general geographic and thematic maps of the World (1:15 000 000), the USSR (1:4 000 000 and 1:8 000 000), the European part of the USSR (1:2 000 000), foreign countries of Eastern Europe (1:1 000 000), geographic maps of the world, continents and of regions of the USSR as well as the series of educational topographic maps at different scales. By 1996 7 thematic maps of the world, 21 maps of the USSR and its regions, 4 maps of East-European countries, 12 general geographic maps and 6 sets of topographic maps had been created.

Prof. Salishchev always took a keen interest in the theory and methodology of cartography which became the topic of many articles and of a monograph (Salishchev K.A. Ideas and theoretical problems of cartography of the 1980-s. – M.: VINITI of the USSR Academy of Sciences, 1982, v. 10, 156 p.). He actively upheld his views and ideas in polemics with foreign and Russian cartographers and geographers. In 1967 he became the laureate of the Anuchin Prize for his works on the theory of cartography.

Special Features

He suggested the idea of using maps to get knowledge about the environment. His first article on this topic was published in 1948, and he discussed this idea for many times (see the bibliography of Salishchev's works for 1955-1984 in the anniversary collection of papers *Geographical Cartography, a look at the future*. Ed. by G.I.Rychagov, A.M. Berlyant, V.S.Tikunov. M., MSU, 1986, and other publications till 1988).

He was always ready to respond to new ideas and trends in cartography, such as cartographic modelling or the application of remote sensing methods for thematic mapping, and a great number of his contributions concerned the prospects of automation in cartography – it is on this base that the development of geoinformation science started in Russia.

Textbooks by Prof. Salishchev were translated and published in China, Germany, Poland and Cuba. His textbook *Basics of cartology* was rewarded with the Golden Medal of N.M. Przhevalsky (1963) and in 1984 it was rewarded with a second Golden Medal. Prof. Salishchev was honorary member of scientific societies in the USSR, Azerbaijan, Serbia, Columbia, Scotland, Poland, USA, Bulgaria, Italy and Hungary and Honorary Doctor of Berlin's Humboldt University and Warsaw University. He was the laureate of many awards both in Russia and abroad. Prof. Salishchev was one of the first to receive the Carl Mannerfelt Medal, in 1980, which is awarded by the ICA for outstanding achievements in the international collaboration of cartographers. In 1965 he was nominated Honored Scientist of Russia. He was also awarded the State Prize of the USSR for his contribution to the compilation of the *Atlas of Oceans* (1980).

We would like to recall our personal contacts with Prof. Salishchev
Milan Konecny

The first time I met Professor Salishchev in Moscow, MGU was in 1980 at his office. At that time I was going through a 3-month stage in the Geographical faculty, dividing my interests between anthropogenic geomorphology and cartography. I used many mathematical-cartographic approaches started by prof. Salishchev and further developed by his successors. At the time of our meeting, Prof. Salishchev was a pleasant and attentive host, but in matters of cartography he was very convinced of his own truth. His ideas were based on the „Theory of reflection“ but at the same time he looked also into philosophical sources from all parts of the former USSR and abroad.

He had an excellent cartographical overview of domestic, European and World development and he was a very temperamental disputant.

As a former president of ICA, he had a very good reputation in both parts of the world divided by the iron curtain. He was also a strong symbol of cartography in the former Central and Eastern Europe.

Very interesting were Prof. Salishchev's comments and ideas on the coming "scientific-technological revolution". His school was prepared for the new technological situation by developing the idea of mathematical-cartographical modelling, the role of satellite images in cartography, discussions about the role of the map image as a resource for data and information for geographical research as well as research in other scientific disciplines. In personal talks he welcomed new technologies and expected them to bring new and progressive development of cartography, but at the same time he stressed that cartography had to take care about the content and quality of data and information. He did not expect any crises of cartography at the end of 80s and 90s when our science lost its previous strong positions and did not deal well with new technologies like GIS, remote sensing, GPS and others. Today the importance of cartography is growing up again. Globally operating companies need cartographical methodology and knowledge for the time when ambient technologies are coming, big GIS vendors again invest millions of dollars into the development of cartographical tools. The question how to use cartography effectively for cartographic visualisation and representation of geographic data, information and knowledge on the basis of so called SDIs is the topic of the day on most of the continents. And also here Prof. Salishchev is with us. His ideas to create maps and atlases according to unified legends, at the same scales, his thoughts about necessary creation of metadata were in fact ideas about "SDIs" in cartography. In his time the World was different and our societies and various communities were not sufficiently prepared. Therefore, some of his ideas are realized today simultaneously with the development of Information/Knowledge-Based Societies and as well as in different political, economical and social

conditions compared to Salishchev's times. I am certain that if he was still with us nowadays, he would have been preparing a representative presentations of Russian cartography for the coming ICC's in A Coruna (2005) and Moscow (2007). Prof. K.A. Salishchev was one of the best cartographers in the world and contributed a lot to development of the world cartography.

Ferjan Ormeling

The first time I participated in a conversation with Prof Salishchev was when he visited our home in 1967, during the Amsterdam ICA conference. I still remember that he was rather skeptical at the way my father had acquired this house, and did not believe my father's claims that he had earned it himself; university professors were well-paid at the time in the Netherlands. The second time was in 1976, during the Moscow ICA conference. In 1974 I had published a paper on 50 years of Soviet Cartography (1917-1974), that had been translated in *The American Cartographer*, and that claimed, as an aside, that there were conscious distortions on those topographical maps and town plans of the USSR, that were available to foreigners. This publication was rather awkward for my father who at the time was Secretary-General of the ICA, and who hastened to tell Salishchev (who was organizing the next ICA conference in Moscow) that it was not he who had written the article (we have the same initials). Salishchev had not forgotten this and when he saw me next in Moscow he told me he found my contribution rather unscholarly. But this did not detract from my admiration for him: for me he was a man of grand ideas, and the best one was his on national atlases.

You see, Salishchev worked for a long time on the unification and standardization of national atlases. He initiated studies on the scales and on the legends of the various map themes these atlases contained: economic maps, traffic and transportation maps, manufacturing maps, etc. And the grand idea behind all this was, that if all these aspects (scales and map legends and ways of presentation) of national atlases would be standardized, then we would – by putting these atlases side by side - have one big thematic atlas of the world.

It is only now that, through the new digital possibilities we have at our disposal that we are finally able to make this dream of Salishchev come true, but that does not diminish his endeavours: as a visionary he showed us the directions where to go!

Vladimir Tikunov

The first time I saw Prof. Salishchev in 1966, when I became a student of Geodesy and Cartography Department he was the head of. And I was fortunate enough to maintain good contacts with him till his death in 1988. His wide knowledge and, above all, fantastic dedication to work always produced a tremendous impression. He acquired information for his articles and textbooks grain by grain working without holidays and vacations, usually from 4 or 5 in the morning – "when everyday concerns do not pull you away", as he often explained. However it might be well to point out that he took an interest in many other aspects of life. He was, among other things, an expert in painting and chinaware and had a good collection of it. Famous galleries, such as Tretyakov, for example, and large exhibition halls of this country asked him from time to time to exhibit some of his works. He collected post stamps too, with map images, of course. When I was in London in 1977-78 for training at the Experimental Cartographic Unit of the Royal College of Arts (the idea was initiated by Prof. Salishchev and I'm still grateful to him for it) he personally asked me to bring him some particular post stamps he was interested in. He also was an expert in Georgian wines and dishes. Of course he had a large collection of maps and atlases and was very proud of it. Although Prof. Salishchev looked cool and restrained, he could talk with colleagues and even students for hours. And his eyes shone when he managed to have a look at old maps which were another passion of him. During his visits abroad, which unfortunately never took very long, he spent a lot of time in libraries and book depositories, feeling enjoyment from working with maps which had been inaccessible to him before.

All together we'd like to thank our lucky stars for the chance to have had contacts with Professor Konstantin A. Salishchev.

Milan Konecny, ICA President

Ferjan Ormeling, ICA Secretary General

Vladimir Tikunov, ICA Vice-President

CD-ROM "Map Graphics and Generalisation" – a new tool for cartographic design

Map graphic and generalisation have the common aim to generate an indisputably legible and understandable map image for the user, in which individual statements are combined into a logically constructed, informative, positionally correct overall image, which is – after all – also attractive. Confusing, un-coordinated, incorrect, overloaded and illegible maps are frustrating for the user and are often useless.

The Swiss Society of Cartography decided to publish a fully revised version and to replace the significant publication "Cartographic Generalisation – Topographic Maps" which has been out of print for a long time. To allow for a versatile use of this publication, it is offered in pdf-format on a CD-ROM. The pages can be printed in colour or displayed on screen. The digital format allows for a user-friendly guidance through the list of contents and additional search functions.

The topics treated in this publication are an important module for each training step in map graphics. It is an essential component in the formation of every map designer, independent of the working tool used and of the presentation media. The publication is directed at all those working in the field of Cartography and in related fields such as GIS, Geomatics and Web-graphics.

The intention was to concentrate and limit itself to real core statements. The vast extent of the topic required a restriction to examples in map graphics and generalisation for topographic maps at medium scales. This however, does not exclude the application of many statements to other scales and map types. The presented principles and recommendations are essentially based on traditional methods, applied to the production and the up-dating of the Swiss Topographic Map series. As topographic maps of this scale range have more or less the same aim, the emphasis here is put on the generalisation due to different map scales. It is characterized by a drastically increasing reduction of the available space for the same initial information. In the smallest scales and in the group of thematic maps, the kind and degree of generalisation is based on different aims and therefore richer in variation and more individual.

For the purpose of a clear systematic approach in generalising the individual elements, the principles of selection and of classification of the represented objects, defined also as model generalization, are treated first, followed by graphic generalisation and individual solutions. The problems and methods of the interaction between different elements are demonstrated. The initial model for the different generalisation steps is either a map at large scale or a digital landscape model.

The minimum dimensions and distances, and the representation of the illustrations are primarily developed for printed maps. Special conditions for the display of maps on computer screens are indicated. The aim is to offer, in spite of the restricted available space, an optimum solution for complex original data, using a well adapted degree of generalisation, independent of the media in use.

How to purchase this CD-ROM

For details of the CD-ROM "Map Graphics and Generalisation" (Swiss Society of Cartography: Cartographic Publication Series No.17) access: www.cartography.ch or: www.kartographie.ch

Price: Euro 35.00 (plus shipping)

National Societies of Cartography can get an impressive price reduction by ordering a larger amount of CD-ROM's for their institutions.

For more information contact hans-uli.feldmann@swisstopo.ch

Hans Uli Feldman

President, Swiss Cartographic Association

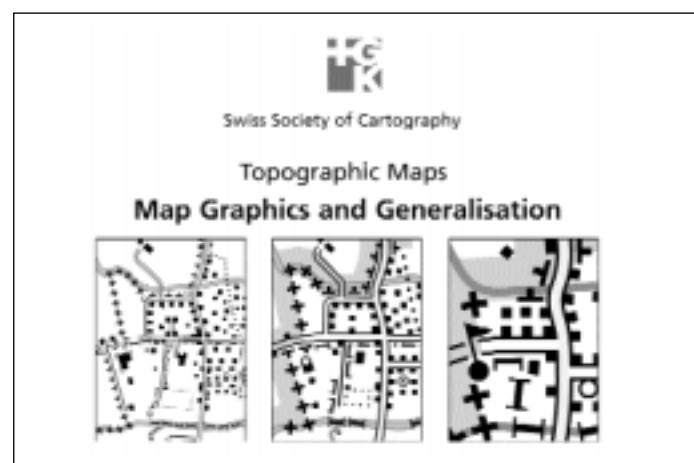
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RMIB website at www.rmib-geoscience.nl has a complete listing of materials available for purchasing.



Forthcoming Events

XXII Brazilian Cartographic Congress - Cartography as a Tool for Sustainable Development

Macaé, State of Rio de Janeiro, Brazil
26 – 30 September 2005
Sociedade Brasileira de Cartografia - SBC
Email: sbc.rlk@terra.com.br
Website: www.cartografia.org.br

Remote Sensing & GIS Applications in Water Resource Management

IIT Campus
4 – 8 July 2005
Organiser: Institute of Engineers (India)
Email: hsieirlc@datainfosys.net
Website: <http://www.ieindia.org>

North Australian Remote Sensing and GIS (NARGIS)

Charles Darwin University
4 – 7 July 2005
Darwin, Australia
Email: gmesser@norgate.com.au
Website: <http://www.nargis05.cdu.edu.au/>

Forthcoming Events

22nd International Cartographic Conference

A Coruña, Spain
11 – 16 July 2005
Contact: www.icc2005.org
Email: secretary@icc2005.org
Website: <http://www.icc2005.org>

Map Asia 2005

Hotel Mulia, Senayan, Jakarta, Indonesia
22 – 25 August 2005
Organiser: GIS Development
Email: info@mapasia.org
Website: <http://www.mapasia.org>

2nd International Workshop on Geographic Information Management (GIM '05)

Copenhagen
22 – 26 August 2005
Copenhagen
Website: <http://www.geoinfo.uji.es/gim05/>

International Symposium on Spatial Data Quality

Beijing University
25 – 26 August 2005
Email: issdq05@pku.edu.cn
Website: <http://www.lsgi.polyu.edu.hk/issdq2005/>

GITA Annual Conference 2005 Geospatial Information & Technology Association

Sydney, Australia
15 – 17 August 2005
Email: imsevent@bigpond.net.au
Website: www.gita.org.au

International Symposium on Spatial-temporal Modelling, Spatial Reasoning, Analysis, Data Mining and Data Fusion (STM'05)

Peking University Conference Center
27 – 29 August 2005
Beijing, China
Website: <http://isstm2005.casm.ac.cn/>

X Iberoamerican Conference of Geographic Information Systems

Normandie Hotel, San Juan, Puerto Rico
6 September – 9 September 2005
Email: jseguinot@rcm.upr.edu
crimson_metal@hotmail.com
Website: <http://www.atlantea.org>

The 6th Arab Map conference "towards improved Governance and a better Environment"

Cairo Marriott Hotel, Cairo, Egypt
12 – 13 September 2005
Organiser: Information Technology Institute (ITI)
Email: arabmap2@iti-idsc.net.eg
Website: <http://www.ngisc.gov.eg>

5th International PHOTOMOD User Conference

Hotel "Lielupe", Moscow, Russia
13 – 16 September 2005
Organiser: Racurs company, State Land Service of the Republic of Latvia
Email: galsap@racurs.ru
Website: <http://www.racurs.ru/?page=271>

GEA'2005 The XI International Geodesy Fair and Spatial Information Technologies

Bukowca street 12
15 – 17 September 2005
Organiser: Biuro Organizacji GEA
Email: biuro@gea.com.pl
Website: <http://www.gea.com.pl>

4th FIG Regional Conference for Latin America and the Caribbean

Havana, Cuba
25 – 29 September 2005
Email: fig@fig.net
Website: www.fig.net/havana/

International Workshop Series in GeoInformation Science

The Chinese University of Hong Kong
27 September – 15 October 2005
Organiser: Joint Laboratory for GeoInformation Science
Email: jlgis@cuhk.edu.hk
Website: <http://www.jlgis.cuhk.edu.hk/events/TrainingWorkshop2005/>

AfricaGIS 2005

CSIR International Convention Centre Tshwane (Pretoria), South Africa
31 October – 4 November 2005.
Email: fduplessis@openspatial.co.za
Website: www.africagis2005.org.za/

26th Asian Conference on Remote Sensing

Hanoi, Vietnam
7 – 11 November 2005
Email: eisa.ig@fpt.vn
Website: www.acrs2005.ac.vn

South East Asian Survey Congress

The Mall Abdul Razak Complex - Sheraton Utama
21 – 25 November 2005
Bandar Seri Begawan, Brunei
Email: secretarygeneral@seasc2005.org.bn
Website: <http://www.seasc2005.org.bn/congven.html>

First International Conference on Geospatial Semantics (GeoS 2005)

Centre for Computing Research Mexico City, D.F., Mexico
29 – 30 November 2005
Email: miguel@geosco.org
Website: <http://www.geosco.org>

First International Symposium on Health GIS

Montien Riverside Hotel, Bangkok, Thailand
1 – 2 December 2005
Organiser: Association for Geoinformation Technology
Email: healthgis@gmail.com
Website: <http://www.j-geoinfo.net>

Gulf Traffic - GIS Zone

Dubai International Exhibition Centre Dubai
United Arab Emirates
12 – 14 December 2005
Email: davyd.farrell@iirme.com
Website: <http://www.gulftraffic.com>

Contributions

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TURKEY

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<http://www.incaindia.org/membership.htm>

*The International Cartographic
Association welcomes new affiliate
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