



ICA News

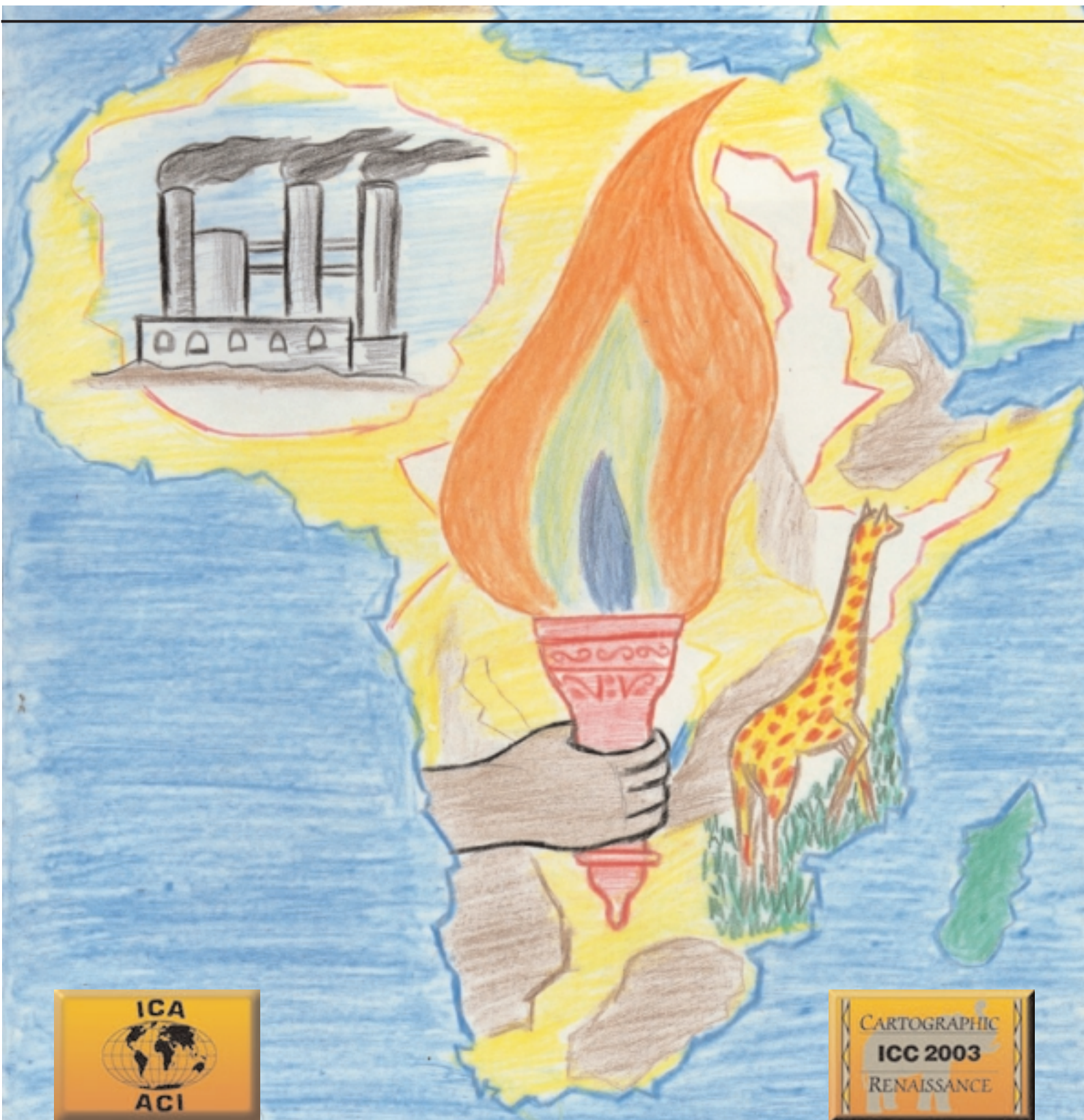
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International Cartographic Association

Association Cartographique Internationale

The Society for Cartography and Geographic Information Science



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ICA Executive Committee

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Cover: "Africa in hope (L'Afrique dans l'espoir)" by Alexandre Faber (16 years) from Guinea. One of the entrances of the 1999 Barbara Petchenik Children's Global Map Competition, 19th International Cartographic Conference, Canada.

Editorial

Dear colleagues, This issue is enriched with a variety of contributions from all around the world that shows the dynamism and flexibility to changes that our discipline and those who embrace it are facing nowadays.

The LOC of the 21st ICC has now everything 'ready to go'. Elri Liebenberg provides us with a good summary of all the bits and pieces we need to know before arriving in Durban (e.g. climate, visa, hotel accommodation, transportation). A total of seven pre-conference workshops dealing with the history of cartography, maps and the internet, contemporary map production, spatial competence at secondary schools, statistical and census mapping and standards for spatial data infrastructure, will be held at different locations around South Africa. The scientific and technical programme has also been finalised, with a total of 416 presentations scheduled from 46 countries (215 as oral and 160 as posters).

The 12th General Assembly will be held on Sunday 10 August and Saturday 16 August. It is important for national delegates and Chairs of Commissions to actively participate in this Assembly as the new Executive Committee and Chairs of Commissions will be elected. A total of 14 nominations for Vice Presidents have been received, and other issues at the core of the Association (e.g. individual memberships, new strategic plan) will be discussed as well. The provisional agenda, new strategic plan, and proposed changes to the ICA statutes are available for consultation at the Association's website (www.icaci.org, click on General Assembly).

On another matter, we are delighted to hear that one of our colleagues and longstanding ICA collaborator, Dr Michael Wood, has been appointed Officer of the Order of the British Empire for services to Cartography. Our warmest congratulations to Michael!! On the same note, we would also like to congratulate our fellow colleagues of the Nigerian Cartographic Association, as they celebrate their 25th anniversary.

Our Executive Committee members and Chairs of the ICA Commissions met in Budapest on the 2-4 May, 2003. Alberta Auringer Wood reports on the main topics discussed at the meeting. Likewise, several Executive Committee members represented ICA at international events held during the past eight months. Milan Konecny reports on his attendance to the 6th Conference on Global Spatial Data Infrastructure, the 9th meeting of the Secretariat of the International Steering Committee for Global Mapping, and the initiative on Geographic Information for Sustainable Development. Ferjan Ormeling summarises the main aspects of the 1st Congress of the Cartographic Association of Indonesia (AKI), where he participated last January.

Commissions have been active too, and this issue reports on the 3rd ICA Mountain Cartography Workshop, held last year in Oregon (USA). This issue also reports on the successful completion of books by two ICA Commissions, Maps and the Internet and Spatial Standards. Commissions like Marine Cartography, History of Cartography, Maps and the Internet and Map Production report on forthcoming events, coinciding with the 21st ICC, Durban.

Ferjan Ormeling presents the new ICA initiative for distribution of the so-called grey literature (e.g. proceedings of ICA seminars, workshops).

The special features section contains two very interesting developments in the area of the Spatial Sciences. The first comes from Australia, and summarises an exciting (and hot) debate held during the last year, which resulted in the creation of the Spatial Sciences Institute. After extensive consultations, members of the Mapping Science Institute of Australia, the Institution of Surveyors Australia, Institution of Engineering and Mining Surveyors Australia, Australasian Urban and Regional Information Association, and the Remote Sensing and Photogrammetry Association of Australasia voted overwhelmingly for the unification of these Associations into the new Spatial Sciences Institute.

The second article of the Special Features section describes very recent initiatives in the Spanish-speaking world of Cartography. Dr Miguel Bernabe of the Polytechnic University of Madrid presents a detailed report of current events linking Spain and Latin America in the area of education and professional development.

Finally, the Executive Committee of the ICA and the Local Organising Committee of the 21st International Cartographic Conference and 12 General Assembly wish to see as many of you as possible in Durban, participating in what promises to be a very exciting scientific and cultural event.

Graciela Metternicht
Editor

A colleague writes....

'Michael Wood, the immediate Past President of the ICA received the honour of being appointed Officer of the Order of the British Empire for services to cartography. Michael Wood was a student of John Keates under whom he completed the Diploma in Cartography in 1964. During his career teaching cartography first at the University of Glasgow and then at Aberdeen University he has written several influential papers on perception and visualization. As a Senior Lecturer in Geography since 1983, he has been much involved with course development including most recently an introductory one based on the World Wide Web. He has served as President of both the British Cartographic Society and the Society of Cartographers, and since 1991 has been a member of the Executive Committee of ICA. He has a deep interest in the cartography of mountains and is an accomplished creator of panoramas. His period as President of ICA was marked by many visits to member countries whose cartographic activities he was keen to support. He is greatly appreciated for the breadth of his understanding of the fundamentals of mapping as a human activity. Michael is much in demand as an external examiner at ordinary and higher degree level. His work with national organisations and international bodies such as the United Nations Organisation and the International Map Trade Association is bearing fruit. Michael has also been much involved with the development of the strategic plan for the ICA which will be discussed in the coming year. We are delighted to recognise that a cartographer of such high professional and ethical standards has been officially acknowledged'.

25 Years of Nigerian Cartographic Association

On October 13-17, 2003, Nigerian Cartographers will gather in the oil rich city of Port Harcourt, to mark the Silver Jubilee anniversary of the Nigerian Cartographic Association (NCA). They are expected to dialogue on the critical issue of Cartography and GIS for Sustainable Environmental Management.

Aside that, it will be attempted to solve a series of issues begging for attention. Chief amongst these problems is the issue of a charter grant from the Government of Nigeria. A charter status for the NCA would give the body the legal status required to regulate the process of map making in Nigeria. Also, the body would be able to conduct professional examination for its prospective members. Additionally, it would enjoy an annual budgetary allocation from the government.

Nonetheless, the NCA has performed well above average this past twenty-five (25) years. First, there was a concerted effort to demystify the otherwise arcane image of cartographers through public information and public education. Hitherto, to the Nigerian public, the map maker is either the land surveyor or geographer or worst still some other creature from other celestial bodies.

The genesis of the image problem of cartographers in Nigeria is partly traceable to the antecedents of the nation's long colonial history. During the colonial era, most maps of Nigeria were compiled within the country, but designed for cartographic production in Great Britain. For sundry reasons, it was convenient for the colonial masters to establish craft schools to train Nigerians in land surveying to complement their efforts. When the country gained independence in 1960, mapping contracts were always given to foreign firms and that practice tended to hamper indigenous effort at cartographic manpower development.

However, in 1972, the Kaduna Polytechnic commenced a wide range of courses in Cartography. Today, Kaduna Polytechnic remains the only institution in Nigeria that offers a course program leading to the award of a HND in Cartography.

At present, only a few of the over sixty (60) Universities in Nigeria offer the M.Sc degree program in Cartography. The universities have either demonstrated a general lack of interest or willingness at handling first degree programs in Cartography. That anomaly no doubt exposes the ugly pattern of skilled manpower development in Nigeria. Consequently, the current rate of trained cartographers in Nigeria falls below the needed manpower level. That is a sad development that led to the general low level of map use and appreciation. Worst still, it contributed to the situation where persons who are not cartographers presently occupy most cartographic positions, and their advise to government at the various levels are often short-sighted.

Happily, so many Nigerian Cartographers were trained in the best institutions abroad. They returned home to discover an unfriendly operating environment. Their desire to ameliorate the situation led to the founding of the NCA in 1978. Some of the founding fathers of the NCA include MR. C. O. Andiferen, Prof. Isaac Adelamo, Mr. Jonathan Ekpendyoung, Mr. J. A. Ogunkoya, Mr. T. K. P. Amachree, Prof. O. Y. Balogun, Mr. Dairo, to mention but a few.

Since the birth of the NCA, Nigerian cartographers home have contributed immensely to the success of several government initiated programs. They include, topographical mapping, production of the soil map of Nigeria, the first National Atlas, pre and post census mapping, resource inventory maps, town maps and several other specifically directed maps.

So far cartographers in Nigeria have not disappointed the expectations of the founding fathers of the NCA. Today, they can be seen pioneering cartographic practice in relatively new private and government organizations. They have succeeded in breaking new grounds and consolidating old ones. Also the number of academic cartographers has continued to increase, from non-PhD holders in the 1970s, to over a dozen of them today. With such a positive development, the optimum size of the professional manpower needed to generate the critical mass capable of causing the desired change has been largely attained.

Furthermore, the annual conference of the NCA serves as a period for inward looking. The annual forum is like a journey into introspection, which has contributed tremendously to the recognition and respect that the body enjoys. The NCA have consistently published quality papers from the academia addressing selected areas of our national life. Indeed NCA publications have become a rallying point for experts in diverse but related professions. Presently, there are over twenty (20) of such publications. Granted that cartography in Nigeria is constrained by acute structural arthritis with its concomitant result of negative image perception and marginalization, the advent of the NCA some twenty-five (25) years ago have no doubt placed the profession on the path of progress. As soon as a charter status is granted to the Association, the NCA would be able to take its right full position in the comity of similar bodies. Nigeria would be richer for it.

As part of the activities marking the 25th anniversary of the NCA, seminar/workshop is organized for media practitioners and high school geography teachers. This event is scheduled to take place in Lagos and Port Harcourt in the month of August.

Meanwhile, it is celebration time for 25 years of active service to Nigeria. Bravo NCA!

Henry Fagbola, Secretary,
Nigerian Cartographic Association (NCA)
Lagos

Obituary

**Prof. Dr. Benjamin
Raymond Cohen**

(5. 05. 1930 – 29. 04. 2003)



Born in the city of Vidin, Bulgaria, in 1930, Benjamin Cohen graduated in Geodesy, Photogrammetry and Cartography in Sofia in 1953. He attained academic rank in 1963 and has worked since as head of the Cartography section at the Scientific Institute for Geodesy and Cartography. He successfully defended dissertations in 1965 and 1981. In 1978 he was nominated associated professor at the University of Architecture, Civil Engineering and Geodesy in Sofia and full professor in 1985. He served for two terms as head of its Department of Photogrammetry and Cartography.

Prof. Cohen has served as UNO expert in Somalia on cartography. His scientific interests were mainly in the field of theoretical and applied cartography; he participated as a regular member in a number of commissions of the International Cartographic Association. He authored more than 250 publications in cartography and was awarded a number of charters and medals for his scientific contributions to cartography.

During the whole existence of ICA he has supported it and contributed to it and participated in its meetings and this contribution did not diminish with his age: the series of international cartographic e-mail symposia was his latest initiative, and it was an optimal provision for scientific communication as well for those unable to defray the high costs of travel. He belonged to a previous generation that suffered from World War II and the Cold war, and as a builder of bridges between east and west he was able nevertheless to surmount the obstacles these caused to scientific communication and exchange.

Temenoujka Bandrova and Ferjan Ormeling

21st International Cartographic Conference and 12th General Assembly

Durban, South Africa

This is the first time that Africa will be hosting the world's premier cartographic conference. The theme of the 2003 conference is "Cartographic Renaissance" and, as such, it will expose the latest technologies, trends and innovations in cartography, Geographic Information Systems and spatial information management.

Durban, set on the shore of the Indian Ocean, is a major gateway to Africa and has an abundance on offer with its mixture of beaches, markets, botanical gardens and cultural diversities. It is one of the world's busiest ports and the third largest metropolitan complex in South Africa. Approximately 20 minutes from the bustle of the city centre is the breathtakingly scenery of the Valley of 1000 Hills and the vibrant rural life of Kwa-Zulu. Just a few hours north of the city is the Hluhluwe Umfolozi Game Reserve where the "Big Five" – elephant, giraffe, rhino, lion and leopard – and many more species can be seen. The nearby St Lucia Estuary is home to hippo and crocodile and should not be missed.

Conference venue

The Durban International Convention Centre is a world-class convention centre that it is fully integrated and flexible enough to meet any need, big or small. It is situated near Durban's central business district, minutes from hotels and beaches, and just 15 minutes from the Durban International Airport.

Climate

Durban and the Kwa-Zulu coast enjoy a subtropical climate, with abundant sunshine all year round. The mean temperature for August is 20°C (68° F) with a 60% humidity.

Visa

Foreign visitors to South Africa must have a valid passport and a visa if required. Enquiries can be directed to South African diplomatic representatives abroad. Prospective delegates who need an invitation letter for a visa should write to

Conference Secretary
ICC 2003
P O Box 13360
MOWBRAY
7705 South Africa
E-mail: ICC2003@dla.gov.za
Fax: ++27 21 689-1351

Registration and hotel accommodation

Registration and hotel accommodation forms can be obtained from the above address, but are also available on the conference website: <http://www.icc2002.gov.za>

Transportation

A private tour operator will provide an airport shuttle facility with a welcome desk inside the arrivals baggage area of Durban Airport to greet delegates and will have vehicles ready to transport them to their various hotels at a nominal fee. The airport desks are manned from first to last flights daily. On arrival, the return details of delegates will be taken and shuttles will be organised back to the airport from all hotels. There will also be a transport/tourist desk at the ICC.

Semi-luxury coaches will collect delegates from the conference hotels to transfer them free of charge to the ICC and back at the conclusion of the day's proceedings. Transport has also been arranged to the Conference Dinner and the Fun Evening.

Pre-conference workshops

The following workshops have been scheduled:

History of Cartography of Africa

Time: August 4 – August 6, 2003.
Venue: National Library of South Africa, Cape Town
Contact: Christopher Board, Chair
ICA Commission on the History of Cartography
E-mail: c.board-alumni@lse.ac.uk

Maps and the Internet

Time: August 5 – August 7, 2003
Venue: Stellenbosch, South Africa
Contact: Michael Peterson, Chair
ICA Commission on Maps and the Internet
E-mail: geolib@unomaha.edu

Developing Spatial Competence at Secondary School

Time: August 6 – August 8, 2003
Venue: Cape Town, South Africa
Contact: Ms Lauren Cox
ICA Commission on Children and Cartography
E-mail: lcx@sli.wcape.gov.za

ICA/IMTA Joint Workshop on Contemporary Map Production

Time: August 6 – August 8, 2003
Venue: Pretoria, South Africa
Contact: Sjef van der Steen, Chair
ICA Commission on Map Production
E-mail: steen@itc.nl

Incremental Updating and Versioning of Spatial Databases

Time: August 8 – August 10, 2003
Venue: Durban, South Africa
Contact: <http://www.geo.haifa.ac.il/~icaupdt/>
Working Group on Incremental Updating and Versioning

Workshop on Statistical/Census Mapping

Time: 9 August 2003
Venue: Durban, South Africa.
Contact: Timothy Trainor, Chair
ICA Commission on National and Regional Atlases
E-mail: Timothy.F.Trainor@census.gov

This workshop will be sponsored by the US Census Bureau and should be attended by representatives from national mapping organisations to learn more about the mapping needs of statistical offices in conducting national censuses and surveys. Representatives from Statistical Agencies should attend to share information about different approaches for census mapping. Two categories of general map requirements will be covered: field mapping to support enumeration activities, and publication mapping to accompany dissemination of the statistical data to users, including the NMOs. Cost US\$50.

Workshop Implementing Geographic Information Standards in Africa

Time: 10 August 2003
Venue: Durban, South Africa
Contact: Kate Lance (klance@usgs.gov) or
Liz Gavin (egavin@csir.co.za).

This workshop will cover the status of implementation of geographic information standards in Africa, as well as identifying ways in which the implementation of standards may be facilitated. Apart from presentations covering the development of relevant international standards and the experiences of African institutions and countries in implementing international and national standards, time will be allocated to focussed discussions on the topic. The workshop should be of interest to those working with geographic information in Africa.

It will be conducted by FGDC/USGS, EIS-Africa and others, with partial financial support from the UN Economic Commission on Africa (ECA). Cost US\$30.

Scientific and Technical Programme

The Scientific and Technical Programme consists of two plenary sessions on Monday, 11 August and 256 oral presentation papers and 160 poster presentation papers during the ensuing week. The plenary sessions will give

Executive Committee

keynote speakers the opportunity to comment on how Cartography and GIScience can contribute to Sustainable Development and how the ICA can contribute to a better world. Oral presentation sessions are organised in parallel sessions and according to technical topics. Each oral presentation session is 90 minutes in length and contains 4 papers. Authors will have 15 minutes to present their papers with 5 minutes discussion time. Each poster presentation session contains 20 papers and lasts 210 minutes during which each speaker has 3 minutes to introduce his/her paper.

Exhibitions

The Local Organising Committee has planned four exhibitions as concurrent activities, namely

An **International Map Exhibition** which will be open to conference participants and the general public following the official opening of the ICC on Monday, August 11, 2003. The maps and other cartographic products contributed by participating countries will be arranged thematically and nationally. Since these nations employ a rigorous selection process, this exhibition will provide a worldwide sampling of the best map products from both commercial and government cartographic agencies.

The **Barbara Petchenik Children's Map Competition** is held every second year and has as aim to promote children's creative representation of the world, to enhance their cartographic awareness and to make them more conscious of their environment. The selected maps for the 2003 competition will be on display at the Durban ICC 2003, where they will be judged by an awards committee previously established by the ICA Executive Committee.

A **Historical Exhibition** will capture highlights in the development of mapping in South Africa during the 20th century.

A **Commercial Exhibition** will enable participants to view and discuss the latest state-of-the-art systems and equipment for cartographic and geo-information products.

Technical tours, a social programme, an accompanying persons programme, and a children's programme have been arranged for conference participants and accompanying persons. Interesting optional bus tours with qualified and knowledgeable guides will also be available on a daily basis from 12 to 15 August 2003.

Looking forward to seeing you in Durban!
Elri Liebenberg Vice President: ICA

ICA Executive Meeting Report on Meeting of the Executive Committee and Commission Chairs of the International Cartographic Association

The EC and Commission Chairs met on May 2 and 3, followed by a meeting of the EC on May 4, 2003 in Budapest.

Present: Bengt Rystedt (President), Ferjan Ormeling (Secretary-General and Treasurer), Michael Wood (Immediate Past President), Robert McMaster (Vice President - USA), Elri Liebenberg (Vice President - South Africa), Takashi Morita (Vice President - Japan), Milan Konecny (Vice President - Czech Republic), Kirsi Virrantaus (Vice President - Finland), Alberta Auringer Wood (Vice President - Canada), Jonathan Rowell (Commission on Maps and Graphics for Blind and Visually Impaired People), Kira Shingareva (Planetary Cartography), Alexander Wolodtschenko (Theoretical Cartography), Harold Moellering (Spatial Data Standards), Christopher Board (History of Cartography), Menno-Jan Kraak (Visualization & Virtual Environments), Patrick Wiegand (Cartography and Children), Sjeff van der Steen (Map Production), Ammatzia Peled (Incremental Updating and Versioning), Lorenz Hurni (Mountain Cartography), William Cartwright (Maps and the Internet), Georg Gartner (Maps and the Internet), Timothy Trainor (National and Regional Atlases), Ronald Furness (Marine Cartography), Ewa K.-Blum (Gender and Cartography), Laszlo Zentai (Education and Training)

Apologies: Li Li (Vice President - China)

Some highlights

- Reports of achievements of Commissions are to be sent to the Secretary General by May 31st
- Proposed terms of reference for Commissions are also needed by May 31st by the Secretary General
- A presentation of a poster version of both is expected for the General Assembly in Durban on August 10th and 16th
- 9 book projects are underway with Elsevier
- Data Standards
- Incremental Updating
- Geovisualization Synergy Multi-disciplinary Perspectives
- Maps and the Internet
- Map Generalization
- Mapping from Satellite Data
- Compendium of Cartographic Techniques
- Selected Problems in Theoretical Cartography

- Spatial Data Quality
- Strategic Plan prepared for distribution, discussion, finalization, and a vote in Durban
- Possible arrangement for publication of smaller books and general distribution of ICA publications through RMIB
- Three journals proposed to be adopted as official ICA journals
- 416 total presentations accepted for Durban (256 oral, 160 poster)
- Barbara Bartz Petchenik Children's Map Competition Judging Committee will consist of Jacqueline Anderson, Patrick Wiegand, Elri Liebenberg, Alberta Auringer Wood, and one other from the LOC
- A prize for the "best" national report will be established and one selected at Durban
- New ICA ties and scarves will be developed

Details

The first day was primarily spent in reports by Commission Chairs or their delegates on their activities and progress during the period of 1999-2003. Oral or written reports were received from these Commissions (chair and presenter's name, if different): Education and Training (Vladimir Tikunov/Laszlo Zentai), Map Production (Sjeff van der Steen), History of Cartography (Christopher Board), Spatial Data Standards (Harold Moellering), Theoretical Cartography (Alexander Wolodtschenko), Visualization & Virtual Environments (Alan MacEachren / Menno-Jan Kraak), Maps and the Internet (Michael Peterson / William Cartwright & Georg Gartner), Map Generalization (Robert Weibel / Robert McMaster), Mapping from Satellite Imagery (Serge LeBlanc / Michael Wood), National and Regional Atlases (Tim Trainor), Census Cartography (Tim Davis / no representative), Marine Cartography (Ron Furness), Mountain Cartography (Lorenz Hurni), Planetary Cartography (Kira Shingareva), Gender and Cartography (Ewa K.-Blum), Maps and Graphics for Blind and Visually Impaired People (Andrew Tatham/Jonathan Rowell), Cartography and Children (Jacqueline Anderson/Patrick Wiegand), and the Working Group on Incremental Updating and Versioning (Ammatzia Peled). In several of these cases, the presenters were the co- or vice-chair of the Commission. Of particular importance is that the chairs should send to the Secretary General by May 31st nominations for co-chairs or vice-chairs, along with CVs, as well as the written report for the term of the Commission. Some highlights of items follow.

The Map Production Commission proposes to concentrate on production management and economies for mapping processes and will cooperate more with the International Map Trade Association. The History of Cartography Commission is holding a pre-Durban conference. The Theoretical Cartography group has an interest in mobile mapping (sending and using maps by mobile phones) which led to a proposal for a new commission. The Visualization Commission also plans a pre-conference meeting before the Durban meeting. They have done four special issues of journals (Computers and Geography, Cartography and Geographic Information Science -2, International Geographic Information Systems) and are working on a book. The Maps and the Internet Commission is meeting along with the Visualization Commission before Durban and have a book in process at Elsevier. Spatial Data Standards has a book in process. The Generalization Commission just held a workshop in Paris and a new chair and co-chair will be nominated. They have a comprehensive online bibliography and have contributed papers to various journals. The Planetary Commission has produced maps of Mars and Venus and plans to have another similar map done by Durban. The Satellite Imagery report is being considered for publication. The National and Regional Atlases Commission has produced several proceedings and plan collaboration with Maps and the Internet Commission in the future. Nigeria has proposed a chair and terms of reference for the Census Commission. The Marine Cartography Commission is providing liaison with International Hydrographic Association and FIG. The Mountain Cartography Commission produces a web site with links to related sites and has a special issue of *Cartographica* forthcoming on mountain geomorphology. The Gender and Cartography Commission will propose changing their name to Commission for Under-represented Groups and have produced an atlas. The Maps for the Blind and Visually Impaired Commission will propose a change of name to Commission on Maps for the Blind and Partially Sighted and are working on a catalogue of tactile symbols for which they have obtaining a grant of £600,000 for developing it. The Cartography and Children Commission want to do more with atlases for schools, GIS and Cartography in schools, including working with software developers, and are working on a special issue of the *Cartographic Journal*. They are considering offering a prize for the best atlas for children. The Working Group on Incremental Updating has a book in process at Elsevier.

Some time was spent on discussions of proposals already received for commissions

and chairs. In addition, there were small group discussions about how we might group commissions, about cooperation between commissions, topics that were missing from commission scopes, terminology used by commissions, and gender. Some felt that terminology and gender should be dealt with by all the commissions.

In late afternoon, about two hours were spent in a visit to the National Library of Hungary where we saw an exhibit relating to the first printed map of Hungary. It was published 475 years ago and influenced numerous cartographers for many years. It was on display along with maps based upon it and influenced by it. The National Library has done a group of facsimiles, including this map, which are available from them for 8000 Forints, which includes an explanatory text. As part of an annual tradition, there was another exhibit of maps produced in 2002 with indications of the jury designations of the best ones. Their large and spacious map library reading room was open for us to view. Particularly striking were an early map of Vienna in multiple sheets joined together that filled one wall and a very large free-standing globe, but numerous interesting and rare maps and atlases were on display. The geography department of the Eotvos University is celebrating its 50th anniversary and we were invited to a dinner as part of this special occasion.

The morning of the second day of the meeting was spent in discussions of the proposed strategic plan. This plan has been done because of the changes over the last 50 years that have occurred in the discipline, activities, operating contexts, and the rise of geographical information systems to geographical information science, as well as the effects of the perception of such changes on current member nations, on potential new members, and on the activities of the organization, all of which have financial implications. Influences on its creation were Australia's 'corporate plan' communicated by former Secretary General Don Pearce and the strategic plan prepared by the ISPRS. A general discussion was held with each Commission chair being given an opportunity to comment and raise issues. Generally, it was felt to be a very good document. Some issues raised included a need to indicate who will be held accountable, by whom, how and when; terminology; how the name of the association may be affected; and the need for more cooperation with other societies. Break-out sessions were held to talk about particular areas such as theory and concepts, benefits for members, accountability, and introductory materials. One problem is the perception of the need to create new definitions for map, cartography, etc.

Interaction with other societies and global initiatives was the focus of some discussion after a presentation by Vice President Milan Konecny, Czech Republic. The strategic plan emphasizes such activities.

The chair of the Publications Working Group, Robert McMaster reported on activities related to this topic. A new contract was negotiated with Elsevier during the past year. As a result, commission chairs are not required to submit materials proposed for a journal issue to Elsevier, but all books must go to Elsevier first. If Elsevier does not wish to accept a book proposal, then commission chairs are free to go elsewhere for publication. For either books or journals, however, the Publications Working Group chair must be notified, and a new form has been developed for this purpose. There is a new contact, Linda Versteeg, who resides in Amsterdam. A problem reported by the Publications Working Group chair and various commission chairs is the length of time that a review of publication proposals has been taking. The nine items in process were noted: Data Standards - in process at Elsevier awaiting the final chapter; Incremental updating - proposal approved by Elsevier and expecting the manuscript soon; Geovisualization synergy: Multi-disciplinary perspectives - approved by Elsevier and expected to be in press in 2003; Maps and the Internet - the manuscript is with Elsevier with some copyright problems being resolved; Map Generalization - manuscript expected in summer 2004 and likely publication in 2005; Mapping from Satellite Data - a manuscript is in hand from Serge Le Blanc; Compendium on cartographic techniques - may be produced for the web; Selected Problems in Theoretical Cartography - a proposal is being considered; Spatial Data Quality - consideration is being given to production of an updated edition.

It was also noted that another firm has expressed interest in serving as a distributor for ICA publications. This is RMIB (Rudolf Muller International Booksellers) which is a subsidiary of Nilsson and Lamm and which specializes in getting maps and atlases for university libraries. They will provide a cost-model for printing small ICA publications (i.e. ones that Elsevier does not wish to publish) and for their distribution work. Possibilities for this relationship will continue to be pursued.

Perhaps, the most significant activity was in relation to the attempt to create a new journal. In Fall 2002, Publications Working Group Chair Robert McMaster submitted a proposal to four leading international cartographic journals - *Cartographica*, *The Cartographic Journal*, *Cartography* and

Executive Committee

Geographic Information Science, and Kartographische Nachrichten. It is possible that other journals may be contacted as interest is expressed. Positive responses were received from the first three. The next step will be to create a memorandum of understanding with each journal. Once this is accomplished, an editorial board and process will be established. It may offer the possibility for joint subscription to all these journals, as well as online access potentially, as most of them are in one stage or another of plans for that. This activity will impact the strategic plan, as cooperation with other societies and benefits for members.

Further to the Publications activities, the proposed statutes changes came under discussion. Nearly everyone felt that the President and the EC would have additional flexibility if the wording of Article 27 was changed from "none" to "one" and from "shall" to "may" to read:

"For consideration of other publications, the Executive Committee shall appoint a Publications Committee consisting of a Chairperson and three members, one of whom may be a member of the Executive Committee. The President and the Secretary General and Treasurer shall be additional members ex officio. The tenure of office of the Committee shall be the same as the Executive Committee, but may be re-appointed. The Publications Committee will examine proposals for publications (including commission Reports), approve plans in terms of production, format and style, budgets and expenditure and arrangement for distribution."

The Executive Committee met further on May 4th with several commission chairs in attendance as guests. The absence of our Vice President from China, Li Li, was noted, and the hope was expressed that conditions in China would soon return to normal. The minutes from the last EC meeting were discussed and approved. We were all asked to check the web pages. Some additional comments were made in relation to the

meetings with the commission chairs. The Planetary Commission has a web site, and James Zimbelman will continue as co-chair. Forthcoming meetings were noted, especially mentioning the Executive Committee meetings beginning on August 8 and continuing through August 16. It was felt that there should be an early meeting with commission chairs for the 2003-2007 period similar to what has just been held, perhaps in Fall 2003 or early in 2004. There will be brief meetings for current and proposed commission chairs in Durban, as well. Any comments or observations on the just held meeting are needed very soon, as documents must go out by May 16 for the meetings in Durban.

Detailed information regarding finalization of plans for the 12th General Assembly and 21st cartographic conference in Durban was presented by President Rystedt in collaboration with Vice President Liebenberg. Only 16 countries have submitted maps for the exhibition, so far. All the booths for the technical exhibition have been sold. There will be a small historical exhibit. There will be an area for the Barbara Bartz Petchenik Children's Map Competition entrants to be displayed with 20 countries having indicated a coordinator to the Secretary General. There will be CDs made of photographs of maps submitted for the competition that will be sent to the Judging Committee which will consist of Jacqueline Anderson, Patrick Wiegand, Elri Liebenberg, Alberta Auringer Wood, and one other from the LOC. A total of 416 presentations have been accepted, 256 for oral and 160 for poster presentations from 46 countries. The largest numbers have come from China (68), USA (62), South Africa (38), and Germany (32). Eight countries have between 10 and 18 presentations, while all the rest have less than 10. More than half of the countries have five or less presentations. There have been 14 nominations for Vice President positions, and the EC will propose having seven Vice Presidents. It was suggested that each candidate be asked to

submit a "manifesto" statement along with their biographical information. It is expected that each of the current Vice Presidents will take an active role in the General Assembly. The work of the Awards Committee, chaired by Judy Olson, was noted. All such awards must be approved by the EC and it was suggested that there be a deadline in advance of the conference and that recipients be notified in time to make attendance more likely. There will be a Plenary session of double-length on the Monday of the Conference with presentations by Jack Dangermond, Vanessa Lawrence, Yang Kai, Haggai Nyapola, Santiago Borrero, and a member of the EC on the Strategic Plan. There will be a meeting especially for students, which will be put in the program.

There were additional discussions about publications. Of the items on the list as projects at Elsevier, it was felt that one might be out by Durban. An ICA Editorial Board will be sought with representation on a regional basis. The MOU must be done by the end of June. It was noted that national reports are very important for communication of cartographic activities of countries. A jury will be selected to choose the best one for which there will be a prize. Several names were suggested.

The budget was discussed. While income has been lower due to lack of dues payments by some nations, expenses have also been lower, resulting in a positive balance. Considerations of proposals for new ICA ties and scarves were taken based upon mock-ups provided by Marianne Hinckle whose firm had created a tie for the Society for the History of Discoveries. She will be requested to prepare a cost estimate for three ties and two scarves all of which will also incorporate the ICA logo. It may be best to do something like this in conjunction with one or more other organizations due to minimum numbers required to be printed. Site visits were noted for potential bids for future meetings.

Alberta Auringer Wood ICA Vice-president



ICA Executive Committee and Commission Chairs with Hungarian hosts at Buda Castle after visit to the National Library



ICA Executive Committee and Commission Chairs visiting exhibit of early maps of Hungary in the National Library

ICA and Global Spatial Data Initiatives

ICA is participating actively in all global projects linked with spatial data. As such, ICA President, Bengt Rystedt, and vice-president Milan Konecny participated at 6th Conference on Global Spatial Data Infrastructure that was held in Budapest on September 16-19, 2002. ICA members can contribute to this type of initiatives by providing their experience and knowledge in the areas of spatial data infrastructure. However, one matter that needs to be solved soon is the high fees attached to the participation in this type of initiatives. Therefore, ICA has initially agreed to be in the position of a non-paying member. Professor Ian Masser (UK) has been appointed as the new president of the GSDI. Further information about GSDI can be found at www.gsdi.org.

Likewise, Bengt Rystedt and Milan Konecny participated at the 9th meeting of the Secretariat of the International Steering Committee for Global Mapping (ISCGM), held in Budapest on September 20, 2002. Amongst other issues, it is worthwhile mentioning the appointment of Professor Fraser Taylor, former ICA president, as new director of the Global Mapping (GM) initiative, for the next three years. The number of countries participating at the GM project is growing steadily. The Global Mapping project was approved as a part of the World Summit on Sustainable Development (WSSD) Action Plan, that took place in Johannesburg last year. As for March 25, 2003, 129 countries/regions participate in this initiative, while an additional 18 countries/regions are considering their participation. The Global Mapping Forum 2003, will be held in Okinawa (GMF03), and it is sponsored by the International Steering Committee for Global Mapping. Further information about this event can be found at <http://www.iscgm.org>.

Furthermore, Milan Konecny represented ICA at the pre-conference event of the WSSD, held in Bali in 2002, as well as the WSSD held in Johannesburg. Milan also participated at the Geographic Information for Sustainable Development (GISD) initiative, whose objective is to apply a new generation of earth observation data, state of the art GIS-linked technologies, and field-tested geographic knowledge to ongoing sustainable development problems in diverse target areas of Africa. This initiative is organized in close

cooperation with the Open GIS Consortium (<http://www.opengis.org/gisd>).

Digital Earth – Information Resources for Global Sustainability

Knowledge, Networks, technology, Economy, Society, Natural and Human Resources, Policy and Strategy

Brno, Czech Republic, 21-25 September 2003

The 3rd International Symposium on Digital Earth deals with: Earth observation and processing technologies for Digital Earth, the meaning of sustainability and policy of its formulation, delivery, monitoring and evaluation in the conditions of the Information Society. As a cartographer with a geographic education and knowledge, I believe that our world needs global spatial data, information and knowledge support for solution of global problems. One of the main tasks of the coming 3rd Symposium on Digital Earth is to strengthen the link between development of geographic (spatial) information that is specific, full of knowledge and wisdom, and other aspects of the emerging Information Society.

Other important parts of the symposium are the Global Society Dialogue as well as e-government, e-governance and e-parliament as accompanying factors of a networked knowledge society. Topics about global sustainability versus homeland security will also be very interesting. Finally, there are topics linked with delivery of services to citizens and digital cities, communities and localities. The 3rd International Symposium on Digital Earth is organized by Masaryk University in Brno, Czech Republic in close co-operation with the newly established International Society on Digital Earth. Several international organizations serve as patrons for the symposium, such as the International Cartographic Association, ISO, and the Open GIS Consortium. In addition, several ministries of the Czech government are included in the organization of the symposium. U.N. organizations such as FAO, UNEP, and UNESCO have been invited and all activities of the U.N. connected with sustainable development, Information Society and global spatial data projects (GM, GSDI, GISD) are included. At the European level several Directorate Generale such as Information Society, Environment, Agriculture, Regio, Enlargement and Research have been asked to be part of the preparation process of the symposium and its

program. A discussion about necessary conditions, processes and barriers of creation of the Global Sustainable Information Society is planned at the symposium.

Our Symposium takes place at very important time, between World Summit on Sustainable Development in Johannesburg and World Summit on the Information Society which will be held on 10-12 December 2003 in Geneva, Switzerland.

Further information about this event is available at <http://digitalearth03.geogr.muni.cz>

Milan Konecny
Vice-president of ICA

1st Congress Asosiasi Kartografi Indonesia

It was in 1997 that ICA president Michael Wood visited Indonesia on the occasion of the International Seminar Modern Cartography: Maps for Navigating the Information Highway, organized by the ICA Commissions on Map Production, Education and National and Regional Atlases, and on the other hand by the renowned Institut Teknologi Bandung, Indonesia's foremost Technical University. It was a 'joint' event in another sense as well, as the chair of the Local Organizing Committee, Dr Klaas Villanueva, was at that time also chairing Commission VI, Education, of the ISPRS.

One of the important effects of this meeting in Bandung was that the first seeds were sown for the establishment of an Indonesian cartographic society; in a sense a preliminary foundation meeting was held with the attendance of the ICA president. Now this seed has blossomed as the Asosiasi Kartografi Indonesia, founded officially in December 1999, and it held its first congress in Cibinong, at the headquarters of Bakosurtanal, the National Mapping Organization on January 23, 2003. At this meeting, under the direction of the first president, Al Susanto, the board for the period 2003-2005 was elected and constituted. It consists of:

President :Mr Sukendra Martha
(Bakosurtanal)

Vice President: Drs D.K.Riadika Mastra
(Bakosurtanal)

Secretary General Mr: Priyadi Kardono

Vice sec. General: Mr Agus Hermawan
Atmadilaga (Bakosurtanal)

Treasurer Mrs: Tuty Handayani (Geografi,

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Universitas Indonesia)

Vice Treasurer :Mr G. Haryuatmanto (PT Waindo Spec Terra)

As heads of AKI working groups were nominated:

WG on Toponymy : Mr Hardjito Saroso (Bakosurtanal)

WG on Cartographic data bases: Mr Bebas Purnawan (Bakosurtanal)

WG on Cartographic Visualization : Ir.Y. Sri Handoyo (Bakosurtanal)

WG on Atlases and Public Maps: Mr Asmarul Amri (PT Aerokarto Indonesia)

WG on Education and socialization of cartography: Drs Noorhadi Rahardjo (Fakultas Geografi UGM)

Prepared for this congress were a report on the work achieved since 1999, a proposed list of tasks for the AKI officers, and there was a proposal for the statutes. The first membership list was handed out; it lists over 100 AKI members. The members are mainly from the National Mapping Organisation (Bakosurtanal), the Geography institute of the Universitas Indonesia in Depok (near Jakarta), the Geography faculty of Gadjah Mada

University (Yogyakarta), the Cadastre (BPN, Jakarta), other universities and ministries and some from private enterprise. Since its inception in December 1999, there have been amongst others several meetings on school atlases (22 March 2000, with representatives of the Ministry of Education, Universities and private publishers), meetings on the cartography curriculum in Indonesian universities and on toponymy.

During the morning programme of the 1st Congress, attended by Bakosurtanal director Rudolf Matindas and his deputy Klaas Villanueva, there was also a presentation of the aims, objectives and procedures of the International Cartographic Association, by its Secretary-General. This was most timely, in view of the AKI vision and mission presented during the afternoon programme:

AKI Vision: Creating professionalism and competence of Indonesian cartographers as members of the international community.

AKI Mission:

1. Developing the institute of the Asosiasi Kartografi Indonesia into an efficient and effective professional organisation

2. Developing and raising the knowledge and the technology in the field of cartography for all its members through joint research, training and upgrading of the quality of human resources, along with information exchange.
3. Forming co-operation with professional organisations and institutions that operate in the field of mapping, especially of cartography, for the national as well as international welfare.
4. Building the society of Indonesia into a map-conscious one. (any mistake in the translation of vision and mission are due to this reporter's insufficient knowledge of Indonesian)

In the afternoon, the elections for the AKI board and for the chairs of the working groups were held, and the tasks for the working groups were reviewed; the statutes were discussed and agreed upon and the course for the next term was set out.

Ferjan Ormeling

ICA Secretary General



Conference registration desk: From left to right are Any Purwanti, Susatyowati, Daru Sri Nurkasi and Mardijani Nugrahaningsih.



The outgoing president, Drs Al.Susanto, with ICA SG, Bakosurtanal Director Mr Rudolf Matindas and his deputy Dr Klaas Villanueva.

Cartosemiotic Seminar in Vilnius University

The ICA Commission on Theoretical Cartography (CTC) held its last Seminar before the 21st ICC in Durban, on March 21, 2003 in Vilnius University (Lithuania). It was a joint Seminar with theme "Cartography and Cartosemiotics", organized by CTC, the Lithuanian Cartographic Society (LCS) and

the Cartographic Center (CC) of Vilnius University.

Over 40 participants from Germany, Poland, Ukraine, USA and the host country Lithuania met at the Vilnius University (Department of Natural Science) to discuss selected cartographic and cartosemiotic problems. The agenda of the one-day meeting included two sessions with 8 papers, 6 posters

and discussions. The following papers were presented and discussed:

Session 1

New Cartosemiotics, A.Wolodtschenko (Dresden);

Gnoseological Aspects of Geographical Space Perception by 17th and 18th Century Maps of Lithuania, by A. Česnulevicius (Vilnius);

Stateless Culture, Power and Cartography, D. Katz (New York/Vilnius)

Methodology for Evaluation of the Communicative Quality of Thematic Maps (the Lithuanian Experience), M. Dumbliauskienė & P. Kavaliauskas (Vilnius):

Session 2

Semantic Modelling for Thematic Mapping, G. Beconyte (Vilnius)

Some problems of Elaboration of Maps for the Visually Impaired People, J. Paslawski (Warsaw)

Color Perception in Topographic Maps, A. Bautrenas (Vilnius)

Cartosemiotics in the Nautical Cartography, A. Gordyeyev (Kyiv/Moscow).

The goals for the seminar were also to enthuse and to support young scientists with cartosemiotic interests, and to develop the traditional cooperation between West and East cartographers and geographers.

The organizers are going to publish results of the Seminar as a collection of papers. The next joint Seminar is planned in the Vilnius University in 2004.

Alexander Wolodtschenko

Chair, ICA Commission on Theoretical Cartography



Participants of the Vilnius Seminar on Cartography and Cartosemiotics



Organizers of the joint Seminar from left to right: A. Čėsulevicius (LCS), G. Beconyte (CC), A. Wolodtschenko (CTC) and A. Pilipaitis (CC)

International Conference on National and Regional Atlases

The National Atlas and Thematic Mapping Organization (NATMO) of India sponsored a cartography event commemorating the memory of Professor S. P. Chatterjee, February 22-24, 2003 in Kolkata, India. The ICA Commission on National and Regional Atlases and the Memorial Foundation to Prof. S.P. Chatterjee collaborated with the organizers of the NATMO on their International Conference on National and Regional Atlases.

Dr. Prithvish Nag, Surveyor General of India, and Dr. Shri G.N. Saha, Joint Director of NATMO coordinated the conference with the assistance of many NATMO staff. Representatives from the ICA included Dr. Bengt Rystedt, President; Professor Ferjan Ormeling, Secretary General; and Mr. Timothy Trainor, Chair of the Commission on National and Regional Atlases. Nearly two hundred registrants from government agencies,

academic institutions, and private sector companies participated in the conference.

The conference began with a very moving ceremony commemorating the life of Professor S.P. Chatterjee and his outstanding and varied contributions to geography and cartography in India. Several papers and presentations by notable geographers and family and friends acknowledged the work of the late Professor. He was a leader in geography and cartography through his accomplishments in establishing the National Atlas Organization in India in 1956. He was responsible for producing many atlases on characteristics of India such as the Economic Atlas of Andhra Desa (now Andhra Pradesh) in the 1950's. Professor S. P. Chatterjee served as the President of the International Geographical Union and as President of the IGU Congress in New Delhi in 1968.

Technical presentations outlined many atlas products and development within India. Dr. Rystedt outlined the history of the ICA Commission on National and Regional Atlases and its varied accomplishments during the last 15 years. Professor Ormeling related the valuable work of Professor Chatterjee to

current models of atlas design and production. Mr. Trainor offered the benefits of automated mapping environments in support of atlas production.

A technical exhibition and a display of atlas products provided participants with the opportunity to browse current works and technology offerings. Social events gave everyone in attendance an occasion to informally interact and to enjoy the varied Indian cuisine.

A panel discussion led by Dr. B. K. Roy posed the question of contemporary approaches to atlas cartography in India. Dr. Nag challenged the participants with maintaining the high standards of past atlas practice while acknowledging the need for modern methods of automated cartography to support increasing interest in maps and mapping. The International Conference on National and Regional Atlases was a huge success in the sharing of past accomplishments combined with setting a path for future possibilities.

Timothy Trainor,
Chair, ICA Commission on National and Regional Atlases

Commissions' Report

Marine Cartography

The organizing committee for the Fifth International Symposium on GIS & Computer Cartography for Coastal Zone Management (CoastGIS'03) is fully focused on the successful running of this event in Genova, Italy during 16th – 18th October, 2003. The Commission works with the IGU Coastal Systems Commission and others to bring about this event. The main organisers for CoastGIS'03 are the team at GISIG-Geographical Information Systems International Group in Genova.

You are invited to attend – please check the website at www.gisig.it/coastgis/

Ron Furness,
Chair

History of Cartography Symposium on the History of Cartography of Africa Cape Town, South Africa, 4-5



Map of Africa by Sebastian Münster, 1542.
Coloured woodcut.

August 2003

The Commission on the History of Cartography has organised a Symposium on the History of Cartography in Africa which will be held as a pre-ICC2003 event in Cape Town, South Africa from 4-6 August, 2003. The venue will be the National Library of South Africa, Cape Town Campus, situated at the northern end of the Company Gardens near St George's Anglican Cathedral and the Housers of Parliament.

The Symposium will be officially open on Monday, 4 August 2003 at 9:00 by the Hon. Dr Frene Ginwala, Speaker of the South African Parliament. Dr Ginwala is a map enthusiast who was instrumental in the staging of the Parliamentary Millennium Project (www.pmpsa.gov.za) which also comprised an exhibition called *Perspectives on and of Africa*. As part of this exhibition, the South African Parliament exhibited facsimiles of

well-known and lesser known maps, one of them being a facsimile of the Da Ming Hun Yi Tu or Amalgamated Map of the Great Ming Empire, the original which resides in the First Historical Archive of China. This map, which delegates to the Symposium will have the opportunity to view, allegedly dates back to 1402 and is interesting in that it shows the shape of the African continent relatively accurately.

The Symposium will comprise two days of papers, on Monday 4 August and Tuesday 5 August, with adequate time for discussion after each. There will also be an opportunity to examine the programme of the Commission since it was relaunched in 1999, anticipating the Chairman's report to the ICA General Assembly at ICC2003 in Durban in 10-16 August 2003.

There will be a Map Exhibition in the National Library of South Africa which will emphasise the cartography of Southern Africa up to about 1920 when the South African Trigonometrical Survey was established. The Exhibition will draw on maps from the South African Archives (Cape Archives Repository) and the South African National Library and will be curated by Margaret Cartwright, formerly Map Librarian at the National Library of South Africa and author of two bibliographies on maps of Africa and Southern Africa. The Exhibition will be open to all who are interested in the history of mapping in Africa before 1920 and is particularly aimed at those delegates who wish to see something of the cultural heritage of South Africa before travelling to the main ICA Conference in Durban which starts officially on 10 August 2003.

On Wednesday, 6 August there will be an optional excursion to visit historic towns and winelands in the vicinity of Cape Town. Places on the itinerary are Stellenbosch, a famous university town situated in the heart of the winelands; Paarl, the home of the world-renowned KWV wines, and Franschhoek, the picturesque valley where many of the French Huguenots settled in the late 17th century. This tour will only take place if there is sufficient demand for it.

Details as regards registration and accommodation can be found on the Commission's website (<http://www.stub.unibe.ch/ica-chc/> or by contacting either Dr Christopher Board (c.board-alumni@lse.ac.uk) or Prof Elri Liebenberg (elri@wordonline.co.za).

Elri Liebenberg
Vice-President

Maps and the Internet

Joint meeting with the Commission on Visualization and Virtual Environments, in Stellenbosch, South Africa.

The Maps and the Internet Commission will hold its annual meeting in Stellenbosch, South Africa, from August 5-7, 2003. This will be the fourth continent for the commission meetings, having met in North America (Tennessee in the USA in 2000), Asia (Guangzhou, China, in 2001) and Europe (Karlsruhe, Germany in 2002). The meetings will begin on the evening of Tuesday, August 5 and will continue through Thursday August 7. The commission will meet with the Commission on Visualization and Virtual Environments on August 7 for a combined session.

The meetings will be held at the University of Stellenbosch. The city (see map) is the oldest town in South Africa after Cape Town. It is one of the most scenic and historically well-preserved towns in Southern Africa. The city is situated in a magnificent mountain valley and boasts a mild Mediterranean climate. Forty-five minutes from Cape Town, Stellenbosch is the center of the country's wine industry. An optional post-meeting tour will leave the morning of August 8th and travel along the coast to Durban. There will be an overnight stop in Port Elizabeth, South Africa. The group will arrive in Durban on the evening of August 9th.

Proposed programme:

August 5th informal gathering in the evening;

August 6th Commission meeting, paper presentations and discussions;

August 7th joint meeting of the Commission on Maps and the Internet and the Commission on Visualization and Virtual Environments.

A draft schedule can be seen at: www.ikgeom.tuwien.ac.at/stellenbosch. Abstracts (500 words) for the Maps and the Internet meeting should be sent to: Michael.Peterson@unomaha.edu and georg.gartner@tuwien.ac.at

For more information, contact the commission chair, Michael Peterson, at Michael.Peterson@unomaha.edu.

Completion of the book 'Maps and the Internet'

The commission completed volume 1 in an edited book series entitled "Maps and the Internet." The book, to be published in the summer of 2003 by Elsevier Scientific Press, consist of 27 chapters by authors from 16 different countries. Divided into four parts, the length of the book is 454 pages. Chapters deal

with a variety of aspects dealing with the distribution of maps through the Internet.

Part 1 of the book consists of six chapters and provides a contemporary perspective. Part 2 deals with a variety of technical matters. Part 3 addresses user issues and Part 4 introduces a theoretical perspective.

Work on Volume 2 will begin after the meeting in Durban.

Michael Peterson, Chair, ICA Commission on Maps and the Internet

Spatial Data Standards

The book entitled 'World Spatial Metadata Standards' (ISBN – 0080439497), to be published by Elsevier Science/Pergamon, has been finished. Harold Moellering (Editor-in-Chief), Henri J.G.L. Aalders (Associate Editor) and Aaron Crane (Associate Editor) have compiled the state of the art in metadata standards. The book's table of contents, chapters' titles and contributors for each chapter were published in the previous issue of the ICA Newsletter.

Harold Moellering, Chair
ICA Commission on Spatial Data Standards

ISO/TC 211 activities

ISO/TC 211 is the International Organization for Standardization's Technical Committee developing standards for Geographic Information/Geomatics. The following is a brief report of the ISO/TC 211 activities since they were last reported on in the ICA News.

The following have now been published as International Standards during the last six months:

- ISO 19107, Geographic information - Spatial schema;
- ISO 19111, Geographic information - Spatial referencing by coordinates;
- ISO 19113, Geographic information - Quality principles; and
- ISO 19115, Geographic information - Metadata.

In addition, the following Review Summary has also been published, which provides an overview of location based services (LBS) and identifies standards needed: *ISO 19132, Geographic information - Location based services possible standards.*

There are also several more ISO/TC 211 documents that will be published shortly. The 16th Plenary of ISO/TC 211 was held in the attractive setting of Thun, Switzerland, on 22

and 23 May 2003, preceded by Project Team, Working Group and other meetings. A highlight from the meetings is that the Food and Agriculture Organisation of the United Nations (FAO) has joined ISO/TC 211 as a Class A liaison.

ISO/TC 211 is taking on more work, with the following projects having been approved at the Plenary in Thun:

- ISO 19115-2, Geographic information – Metadata – Part 2: Extensions for imagery and gridded data; and
- The long-standing standard, ISO 6709, Standard representation of latitude, longitude and altitude for geographic point locations, last published in 1983, will be revised, particularly to maintain its relevance to the usage of coordinates in geographical information systems.

On the Wednesday before the Plenary, an interesting half-day workshop was held on standards in action, which provided an opportunity for Swiss spatial scientists and others to learn about the ISO 19100 standards and their implementation. All the presentations are available from the ISO/TC 211 Web site, as are all other ISO/TC 211 documents, though access to the actual draft standards is restricted:
<http://www.isotc211.org/>

The 17th Plenary of ISO/TC 211 will be in Berlin, Germany, on 30 and 31 October 2003.

Antony Cooper,
ISO/TC 211 liaison to the ICA

Map Production

With the issuing of this ICA Newsletter the Commission on Map Production ends with its four-year term. In order to distinguish it from other ICA commissions, CMP likes to begin a new term with a different scope and perspective: from map production, to production management. My suggestion is that, due to the proposed changes the commission representation has to be changed, as well. Further I recommend dropping the number of representatives to a limited number, so that higher effectiveness in the work undertaken by the commission can be achieved.

My second term for CMP is over. Through this newsletter I wish to thank all who cooperated with the commission for their efforts, but also for the energy that was put into projects undertaken, regardless of their success. I wish my successor good luck with the new commission on production management and economics (CPME)

Terms of Reference 1999-2003

In order to get the proposed terms of reference executed, they were transformed into projects, which are described hereafter.

a. Project Compendium of Cartographic Techniques

The project focuses on contents. Publication of the project outcomes by Elsevier is too expensive, therefore we would try to find our own sources for publication, and means of publication: CDROM and/or Website.

b. Project Flow charting

This information is already available for some time. However, I really doubt whether it makes sense to continue with this kind of symbology. During the past years an other concept has been developed and new symbology has been established in the topic of Work Flow Management (WFM). The establishment of WFM standardisation is a worldwide topic.

Proposed: introduce new standardisation in ICA to be executed by future CMP commission.

c. Project Production management overview

Good progress. The context report is ready and it will be presented in Durban. The project deals with economics, planning and organisation, production guidelines, and quality assurance for management of map production. It also aims to handle topics dealing with the practical execution of the management at the level of production execution, to provide employers a guide for production overview, to produce and explain tools for appropriate production management, to introduce economic aspects for map production management, to introduce terms like quality control, quality assurance, quality management and to provide guides for applying such aspects of quality.

d. Project New ways for publications.

No progress. To be transferred to next term of reference. Due to further development the objectives will be discussed in Durban. The major answer to this topic must be given on the topic: A comparison of quality and economics of mapping data dissemination.

e. Project Seminars/workshops.

This project is running as the most successful and continuous activity, and the Commission intends to carry on with it. The proposal is to convert the project into a continuous main term of reference for unlimited time until termination required. The following Seminars and/or workshops were delivered in the period 1999-2003:

Special Features

1999: Spain, Barcelona, jointly with the ICA Commission on Generalisation: *On-demand mapping*.

2000: Cuba, La Habana, jointly with the ICA Commission on Education and Training and the ICA Commission on National and Regional Atlases: *Mapping in 2000 and further*.

2002: Cuba, La Habana, jointly with the ICA Commission on Education and Training: *A preliminary pilot project on the processing of spatial data to user oriented topographic Production*

2003: South Africa, Pretoria, jointly with IMTA: *Marketing, Management and Quality aspects to be considered for the creation of cartographic products*.

Sjef van der Steen

Chair, ICA Commission on Map Production (1995-2003)

New distribution centre for ICA publications

RMIB (Rudolf Muller International Booksellers) Geoscience BV in Weesp, the Netherlands, is a firm specializing in the distribution of maps and atlases. It used to be well-known in ICA circles, as it acted as publisher and distributor of ICA publications before Elsevier was contracted to act as publisher. Presently, RMIB Geoscience is an affiliate of Nilsson & Lamm, the largest book importer in the Netherlands. Mr Muller still acts as consultant to the firm, which is now located at the following address: Pampuslaan 212, 1382 JS Weesp; postal address P.O.Box 273, 1380 AG Weesp, phone #31 294 239810, fax #31 294 239811, e-mail info@rmib-geoscience.nl.

ICA has a publications contract with Elsevier Science, which implies that all proposed ICA publications have to be offered for Publication to Elsevier Science first, through the ICA Publications Committee. As many ICA commissions compile reports and proceedings that are not accepted by Elsevier Science for publications because they do not fit in Elsevier's publisher's list (as they are too small or too specialized), this grey literature that is now mostly produced by university departments, has no optimal distribution channels both within and outside ICA, and we would like to improve on this situation. ICA was looking therefore for someone to store all these ICA publications and act as central 'clearing house', from which these publications can be ordered and obtained.

RMIB Geoscience is willing to play that role, at a small handling charge, plus regular postage costs of course. So from 2003 onwards we expect all ICA commissions to transfer at least part of their publications to RMIB for stocking and distribution.

As an example, the ICA directory (\$5.00) will cost \$14.30 in Europe and \$18.80 outside Europe (including postage, invoice and banking charge), the proceedings of the 1st ICA joint commissions meeting in Visegrad, Hungary in 1993, the renowned "Electronic Atlases", edited by Istvan Klinghammer and colleagues, at a price of US\$10, will be shipped by RMIB for \$19.50 when distributed in Europe, and for \$23.50 when shipped outside Europe. Postage (surface mail) and Bank handling charges will be included. For a package of 5 publications, for example 1 ICA directory (\$5.00), 2 copies of Electronic atlases (\$10.00), 2 of Atlas production for Southeast Asia (at \$10) (so \$45.00 altogether) this would amount to \$56.30 within Europe and \$71.80 when outside Europe. These are initial prices; it is expected that RMIB will be able to reduce prices before long; it will announce the prices both at its website (<http://www.rmib-geoscience.com/>) and in the ICA News.

Here follows a list of the publications they will start taking in stock:

- ICA directory 1999-2003. 80 pp (\$5.00).
- Mapping the World for 2000 and after. Proceedings ICA joint commissions seminar, La Habana, Cuba 2000. It deals with map production and atlases. 148 pp. (\$10.00).
- Teaching the history of cartography IV and V. (Proceedings of ICA sessions at the International Conferences on the History of Cartography held in Lisboa and Athens) 1999. 55 pp. (\$5.00)
- Atlas production for Southeast Asia. Bandung 1998. Deals with the production of school atlases for a developing country. 87 pp (\$10.00).
- Teaching cartography for environmental mapping. Proceedings ICA session in the Intercarto 4 conference, Barnaul 1998. 55 pp. almost sold out (\$5.00).
- Maps for special users, Proceedings of joint ICA commission meetings on cartography and gender, Maps for blind people and Cartography and children. Wroclaw, 1998. Price to be announced.
- Electronic atlases and national atlas information systems. Proceedings of a

meeting of the ICA Commission on National and Regional Atlases, held in Reykjavik 1998. 72 pp. (\$10.00)

- Teaching cartography for GIS for Cadastre. Proceedings of the ICA session in the Intercarto 3 conference, Novosibirsk, 1997. 38pp. (\$3.00)
- Cognitive maps, children and education in cartography. Proceedings of the ICA joint commissions seminar in Gifu, Japan. 170 pp. (\$15.00)
- Teaching animated cartography. Proceedings of a successful seminar in Madrid, 1995. 118 pp. (\$10.00)
- Teaching the history of cartography III, Vienna 1995. 42 pp. (\$5.00)
- Teaching conventional and digital map production lines. Commission on map production, Istanbul 1994. 124 pp. (\$10.00). Compares traditional to digital map production techniques.
- Teaching the history of cartography II. Chicago 1993. 51 pp. (\$5.00)
- Teaching surveying and mapping aspects of visualization and GIS. College Park, Maryland, 1992 (seminar about joint concepts of the mapping sciences). 132 pp. (\$10.00).

We hope that, eventually, RMIB will also be able to stock and sell ICA publications produced by Elsevier.

Ferjan Ormeling

Unification of the Spatial Science Knowledge Base – committing to an enhanced Australian spatial information industry

The new millennium has heralded significant change in the Australian Spatial Information Industry and provided a "window of opportunity" for bringing together the various professional organisations, collectively representing the participants of the Industry, and in doing so provide a Spatial Sciences profession. A series of events have occurred, some sequential, others concurrently that collectively has set the path for what is clearly an exciting and new era for our Industry and its participants.

In May 2000, the Spatial Information Industry Action Agenda (SIIAA) was

announced by the Commonwealth Government seeking to reposition the Australian spatial information industry over the next 5 to 10 years through the adaptation to and adoption of new technologies under the global information economy; alleviation of impediments to growth; and creation of greater synergies between industry and Commonwealth, State and Territory government agencies.

At about the same time, the members of ANZLIC (Australian New Zealand Land Information Council), the peak council for public sector spatial information management, had formed a standing committee to identify ways in which governments could remove barriers to the development of a vibrant spatial information industry in Australia. They found that they had no single organisation to turn to for an industry voice. None of the numerous professional bodies could claim to represent the broad range of professional activity in the industry.

In December 2000, at the national conference of the Mapping Sciences Institute Australia (MSIA), the national presidents of five spatial science institutions met to discuss issues of common interest. The organisations involved being MSIA, Institution of Surveyors, Australia, (ISA), Institution of Engineering and Mining Surveyors, Australia (IEMSA), Australasian Urban and Regional Information Systems Association (AURISA) and Remote Sensing and Photogrammetry Association of Australasia (RSPAA)

They found they were beset by the same problems: declining memberships; difficulty in attracting young graduates; difficulty in attracting registrants and sponsors for major conferences; difficulty in attracting new volunteers to take on management roles at the national and regional levels; declining revenues and, hence, pressure to raise member subscriptions; etc.

Unanimous agreement was provided from this meeting to consider the establishment a single body to cater for the professional development of practitioners in the industry and this saw the creation of the Spatial Sciences Coalition.

Since this meeting we have been pursuing a unification proposal to form a single Institution with the aim "To serve the spatial sciences community: the members, the profession and the public". A final prospectus and vote by all members was held March 2003, with a successful outcome.

The SIIAA was developed successfully with input from professional bodies, industry bodies and government agencies and the resulting plan, "Positioning for Growth" was published in September 2001 containing a large number of recommendations to achieve the vision: "Australia will be a global leader in the innovative provision and use of spatial information"

The Australian Spatial Information Business Association (ASIBA) has been established, a specific outcome of the SIIAA, to provide a single voice for private sector businesses in the industry.

Implementation of the SIIAA is progressing with the Spatial Sciences Coalition, together with ASIBA and ANZLIC, forming the SIIAA Joint Steering Committee, operating with the support of the Commonwealth Department of Industry, Tourism and Resources. This committee has prioritised the recommendations of the Action Agenda and produced a draft work plan, which gives the Spatial Sciences Coalition particular responsibility for implementation of recommendations dealing with professional development, education and training, and Research & Development. This role will be taken over by the Spatial Sciences Institute after its creation. Information on progress to date of the unification process can be found at www.spatialscience.org.

Peter J Bowen

Chair, National Executive Mapping Sciences Institute Australia & Interim Board Member Spatial Sciences Coalition

Linking Europe and Latin America: Current initiatives in the area of Cartography

Some events are stirring the still waters of the Geomatic relations between Spain and Latin America, and the effects seem to be promising.

The first event is the creation of a teaching net called "Red Cartovisual", <http://redgeomatita.rediris.es/cartovisual> which has strengthened links between the Cartographic Departments of three leading Spanish universities:

- Universidad Politécnica de Madrid,
- Universidad Politécnica de Barcelona and Universidad de Jaén, and three Southamerican universities:

- Universidad del Valle in Cali (Colombia),
- Universidad Nacional Mayor de San Marcos in Lima (Perú) and
- Universidad Nacional de La Plata (Argentina).

These six universities are fostering educational exchanges and have been hosting visits and providing courses for professional development of staff as part of a three year program (July 2001 - February 2004) whose central topic is the Visualization of Cartographic Information, but it has extended to cover Cadastre, GPS, Quality in Cartography, and Close Range Photogrammetry. The next course of professional development will take place from the 15th of August to the 15th of September 2003, at the Universidad Nacional de La Plata where, in cooperation with the Professional Association of Surveyors, courses will be given free of charge to anybody interested in this field.

The positive results of the work of this Net have already started to appear:

- The Universidad del Valle in Cali has set up a program on Spatial Data Infrastructure which benefits from the experience of the Universidad Politécnica de Madrid on this subject, and the support given by the Instituto Geográfico Nacional Agustín de Codazzi (Colombia). They are also planning to extend their academic programs to include doctoral postgraduate studies.
- Lecturers from the Universidad Mayor de San Marcos have received specialization in the digital photogrammetric software DIGI3D; and staff of the Remote Sensing Laboratory of the Faculty of Physics will work together with colleagues of the Faculty of Geography in the implementation and teaching of Photogrammetry at the University.
- The Universidad Nacional de La Plata will establish a full photogrammetric digital station for teaching this unit at the School of Surveying, where till now teaching has been done through analogical machines.
- The Universidad Politécnica de Barcelona funded the visit of all members of the Red Cartovisual during the 5th Geomatic Week, held recently in Barcelona. This event is the most important of its kind in Spain, thus allowing all the visitors to become acquainted with the latest technology and methodologies. Participants met the Head

Special Features

of Research of the Instituto de Geomática and visited all the facilities of this institution.

- After the success of the Red Cartovisual, the Universidad de Jaén was successful in securing funding to design the new "*Red GEOCAMVA*" (Geomatics, Cadastre, Multipurpose and Evaluation). This net will be made up by the Spanish universities of Jaén, Politécnica de Madrid and Politécnica de Valencia, and the American Universidad de Azuay in Cuenca (Ecuador), Instituto Politécnico José Echevarría in La Habana (Cuba) and Universidad Nacional de Heredia in San José de Costa Rica.
- On the occasion of the Latin American lecturers' visit to Madrid, the Universidad Politécnica de Madrid organized a meeting of Cartography and Geodesy staff of all the Spanish universities (see photo). The objective of this meeting was to try homogenizing programs and approaches on the way cartography is taught at the different universities. As result of a proposal put forward by the Latin-American lecturers that attended the meeting, it was decided to create a web page to store materials for the teaching of cartography that will be accessible from Latin-America. The materials provided have been increasing gradually, and can be found at <http://redgeomatica.rediris.es/cartoprofesores>. The second meeting of Latin-American lecturers will be held at the Parador de Jarandilla (Spain) in September 2003.



Caption: Red Cartovisual

The second event is the preparatory work for the "*Red IDEALES*" (Net for the teaching of Spatial Data Infrastructures in Latin America and Spain); it is intended that this net be funded by the European Union through the *Redes ALFA Project* (Latin America Academic Instruction) to continue and benefit from the huge work carried out by two successful initiatives in Latin America in the field of SDI's: The *CP IDEA Project* (Permanent Committee for the Spatial Data Infrastructures in America) and the *PROCIG Project* (Central American Project of Geographical Information).

Experts believe that strong university involvement is needed to keep projects like IDES active, irrespective of changes and political interests. The aim of the Red IDEALES Project is to promote the teaching of Spatial Data Infrastructures at universities, developing links that allow us to

jointly develop some tools using our common language, such as gazetteers, dictionaries, thesaurus, etc. and working on the basis of international standards (OpenGIS Consortium, ISO, Dublin Core, etc.).

The third event is the appointment of Graciela Loyácono, from Universidad de Córdoba (Argentina) as the Latin American representative in the FIG Commission on Education. Taking the opportunity of her visit to Paris to participate in the FIG Working Week, she was invited to visit the Department of Topographic Engineering and Cartography of the Universidad Politécnica de Madrid, where a meeting was arranged with the Heads of the Spanish Schools of Surveying, Geodesy and Cartography. Mrs. Loyácono's visit is of great importance to Spain as Latin America at last has a delegate in the field of geographic information teaching at universities. As a result of this visit each Department has appointed a delegate for Latin American affairs to coordinate activities with Mrs. Loyácono, and therefore with Latin America.

Furthermore, the Department of Topographic Engineering and Cartography of the Universidad Politécnica de Madrid has undertaken, as a contribution to the effort of strengthening links with Latin America, responsibility of translating the ICA Newsletter into Spanish, so that it can be of easy access to Spanish speaking readers and will endeavour to place it in the Redgeomática web page (<http://redgeomatica>, rediris.es) and in the Spanish Society of Cartography, Photogrammetry and Remote Sensing (<http://www.secft.org/>) as soon as possible.

Dr. Miguel-Angel Bernabé
Head, Department of Topographic Engineering and Cartography
Universidad Politécnica de Madrid (Spain)



Meeting of Lecturers in Cartography from Spanish and Colombian Universities

ICA Commissions Workshops and Symposia:

History of Cartography of Africa

August 4 – August 6, 2003.

Venue: National Library of South Africa, Cape Town

Contact: Christopher Board or Elri Liebenberg

E-mail: c.board-alumni@lse.ac.uk or elri@wordonline.co.za

Maps and the Internet

August 5 – August 7, 2003

Venue: Stellenbosch, South Africa

Contact: Michael Peterson, Chair

Website:

www.ikgeom.tuwien.ac.at/stellenbosch

E-mail: geolib@unomaha.edu

Developing Spatial Competence at Secondary School

August 6 – August 8, 2003

Venue: Cape Town, South Africa

Contact: Ms Lauren Cox

E-mail: lcox@sl.wcape.gov.za

ICA/IMTA Joint Workshop on Contemporary Map Production

August 6 – August 8, 2003

Venue: Pretoria, South Africa

Contact: Sjef van der Steen

E-mail: steen@itc.nl

Incremental Updating and Versioning of Spatial Databases

August 8 – August 10, 2003

Venue: Durban, South Africa

Contact: Ammatzia Peled

Email: peled@rjb-ed.com

Website: <http://www.geo.haifa.ac.il/~icaupdt/>

Workshop on Statistical/Census Mapping

9 August 2003

Venue: Durban, South Africa.

Contact: Timothy Trainor

E-mail: Timothy.F.Trainor@census.gov

Workshop Implementing Geographic Information Standards in Africa

10 August 2003

Venue: Durban, South Africa

Contact: Kate Lance or Liz Gavin

E-mail: klance@usgs.gov or

egavin@csir.co.za

Conferences/Congresses

VIII Semana Nacional de Cartografia

Primer Congreso de la Ciencia Cartográfica

Buenos Aires, Argentina

26 – 27 June 2003

Contact: Agrimensor Juan Abecian

(acac@com4.com.ar)

Website:

www.elagrimensor.com.ar/centrodecartografia

Survey and GIS Summit - Bridging the Gap 2003

July 6-8, 2003

San Diego, CA

Website:

www.esri.com/events/survey/index.html

IGARSS 2003 (International Geoscience and Remote Sensing Symposium)

July 21 - 25 2003,

Toulouse, France

Contact: Jeannie Boyes

Email: massonnet@cst.cnes.fr,

info@igarss02.ca

Web:

<http://www.ewh.ieee.org/soc/grss/igrass.html>

Global Mapping Forum 2003

Okinawa, Japan

July 12-14, 2003

Website:

www.iscgm.org/html4/index_c1_s1.html#doc2_or.iscgm.schedule.gmf03

21st International Cartographic Conference

August 10-16, 2003

Durban, South Africa

Email: ICC2003@dla.gov.za

Web: <http://www.icc2003.gov.za>

GITA 2003 Annual Conference

August 18 - 20 2003

Sydney, New South Wales

Tel: +61 2 9979 8586

E-mail: Jose.Diacono@gita.org.au

Web: www.gita.org.au/conference_2003.html

4th International Symposium on Mobile Mapping Technology

August 20-22, 2003

Kunming, China

Contact: Xiangyun Jason Hu

Email: xhu@yorku.ca

Web: <http://www.geoict.net>

Fifth Annual African Computing & Telecommunications Summit

Abuja, Nigeria

August 25-29, 2003

Website: <http://www.aitecafrica.com/act2002>

Cartography 2003

University of Reading, UK

2-5 September 2003

A joint conference of the British

Cartographic Society and the Society of Cartographers

Venue: Department of Geography, University of Reading.

Web site: www.extra.rdg.ac.uk/bcs-soc_2003

Contact: J. A. Fox (j.a.fox@reading.ac.uk)

Spatial Sciences Conference 2003

September 22-27, 2003

Canberra, Australian Capital Territory

Email: jconnolly@aurisa.asn.au

<http://www.spatialscience.org/Conference/>

Conference on Spatial Information Theory - COSIT

Ittingen, Switzerland

September 24-28, 2003

<http://www.cosit.info/home.html>

IX GIS Latin American Conference

Caceres, Spain

24-26 September 2003

Web site:

<http://geot.unex.es/sibsing/congreso.htm>

Contact: Urbano Fra Paleo (upaleo@unex.es)

XXI Brazilian Cartographic Congress

Belo Horizonte, Minas Gerais, Brazil

29 September – 3 October 2003

Contact: Paulo Cesar Teixeira

E-mail: sbc.rlk@terra.com.br

3rd Symposium on Digital Earth

Brno, Czech Republic

September 21-25, 2003

Contact: Milan Konecny

E-mail: digitalearth03@geogr.muni.cz

Website: [//digitalearth03.geogr.muni.cz](http://digitalearth03.geogr.muni.cz)

Forthcoming Events

ISPRS Workshop "High Resolution Mapping from Space 2003"

Hanover, Germany
October 6 - 8, 2003
Contact: Karsten Jacobsen
Email: karsten@ipi.uni-hannover.de
Web: <http://www.ipi.uni-hannover.de/html/aktuelles/tagungen.htm>

Map Asia 2003 - 2nd Asian Conference on GIS, GPS, Aerial Photography and Remote Sensing

October 13 - 15, 2003
Venue: Putra World Trade Centre, Kuala Lumpur, Malaysia
Email: info@mapasia.org
Web: <http://www.mapasia.org>

Meet on Geo-information for practice

October 15 - 18, 2003
International Society for Photogrammetry and Remote Sensing
Zagreb, Croatia
Web: <http://www.comm6wg3-isprs-meeting2003.com.hr>

Fifth International Symposium on GIS and Computer Cartography for Coastal Zone Management

October 16-18, 2003
Genova, Italy
<http://www.gisig.it/coastgis/home.htm>
Geomatics for Industry MICRO TO MACRO
October 16 - 18, 2003
Fairmont Palliser, Calgary, Alberta, Canada
<http://www.cig-acsg.ca/page.asp?intNodeID=8202>

ASPRS/MAPPS Fall Conference

Charleston, SC,
October 28-30, 2003
http://www.asprs.org/terrain_data2003

7th South East Asian Survey Congress

November 3-7, 2003
Hong Kong, The Hong Kong Institute of Surveyors
Contact: TN Wong, Ms. Tessa Chiu
Email: enquiry@seasc2003hk.org

Web: <http://www.seasc2003hk.org>
AfricaGIS 2003

Dakar, Senegal

November 4-8, 2003
Website: http://www.eis-africa.org/events_africaGIS.htm

The 24th Asian Conference on Remote Sensing (ACRS 2002)

Busan, South Korea
November, 3-7, 2003
E-mail : ksrs@ksrs.or.kr
Website: <http://www.acrs2003isrs.org>

30th International Symposium on Remote Sensing of Environment

November 10, 2003
Honolulu, Hawaii
Email: 29isrse@conae.gov.ar
Web: <http://www.symposia.org>

WSIS - World Summit on the Information Society

Geneva, Switzerland
December, 10-12
Contact: www.itu.int/wsish/ or www.geneva2003.org

International Conference of Historical Geographers - On the Edge

December 9-13 2003
Auckland, NZ
University of Auckland
Email: ichg2003@sgec.auckland.ac.nz
Web: <http://www.geog.auckland.ac.nz/ichg2003>

XXth ISPRS Congress - Geo-Imagery Bridging Continents

12-23 July 2004
Istanbul, Turkey
Contact: Prof.Dr.M.Orhan Altan (Congress Director)
E-mail: oaltan@srv.ins.itu.edu.tr
Website: <http://www.isprs2004-istanbul.com>

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ESRI: www.esri.com