



# ICA News Nouvelles de l'ACI

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<http://www.icaci.org>

## Editorial

**T**his issue contains some last minute information on the 20th International Cartographic Conference to be held in Beijing next August. A short fact list and the conference registration form have been included for those interested in attending the Conference.

Alberta Auringer Wood reports on the ICA Executive meeting that took place in London last April. Of relevance is the signature of a new publication contract between ICA and Elsevier. Consequently, Commission Chairs will need to submit all publications to Elsevier prior to making other publication plans, as Elsevier has the first right of refusal to all ICA publications. Consideration is also being given to restarting the international yearbook.

Colleagues and friends regret the lost of two personalities of the cartographic community. Harold Fullard passed away last February, at the age of 86. Alexander Liouty died unexpectedly last March, aged 59.

Ferjan Ormeling reports on the 20th Cartographic Conference of the Indian National Cartographic Association held last February in Dehra Dun. Amongst his several engagements as ICA President, Bengt Rystedt participated in the UN Regional Cartographic Conference for the Americas, held in New York last January. Main features of the conference are reported in this issue. Other main highlights include a successful GSDI 5 conference in Cartagena, Colombia, where ICA was represented by Vice-President Milan Konecny, and the Children and Cartography meeting in Brazil, last May.

Lastly, our contributor for the Special Feature Section is Roelof Oddens, Map Curator at the Faculty of Geographical Sciences, Utrecht University. Roelof presents an interesting article on 'Map Collections on the World Wide Web', with a description of relevant Internet sites and bibliography on this matter.

I wish a good summer break to our colleagues of the northern hemisphere, and look forward to receiving your contributions for the ICA 37 News, next November.

*Graciela Metternicht*

## Executive Committee Meeting

This meeting was held in London, England, from March 30 - April 1, 2001 at City University of London.

In attendance were Bengt Rystedt, ICA President, Ferjan Ormeling, ICA Secretary-General and Treasurer, Michael Wood (Past President - United Kingdom), and ICA Vice Presidents: Milan Konecny (Czech Republic), Li Li (China), Elri Liebenberg (South Africa), Robert McMaster (United States), Takashi Morita (Japan), Kirsi VIRRANTAU (Finland) and myself. In addition, Anne Buttmer, President of the International Geographical Union (Professor, Department of Geography, University College Dublin, Ireland), participated in part of the meeting.

An update on preparations for the conference in Beijing, August 6-10, was given by Li Li. The scientific program consists of an opening and closing ceremony, two plenary sessions, 65 oral sessions consisting of 370 presentations, and five poster sessions. Submissions had been received from 51 countries, 570 in total, including 140 from China. The Executive Committee will meet on August 4 and 5, with Commission Chairs meeting in the afternoon of August 5, and a meeting of representatives from member countries on August 9 from 1:30 to 3. There were 28 different topics for paper sessions, such as history of cartography (with 24 papers, 17 as oral presentations and seven as posters) and children (16 papers, 11 for oral presentation and five for posters). Each oral session has four to six presenters. The map exhibits will be

open from Monday afternoon through Thursday, while the commercial exhibit goes through noon on Friday.

Anne Buttmer gave a presentation on the International Geographical Union. Of particular note is that they have a permanent office on the third floor in the building owned by the Italian Geographical Society in Rome. It has a 300,000 volume library and will be the location for their archives. Their archivist is sorting out guidelines for retention of paper and digital materials. Discussion ensued regarding possible areas of cooperation. A possibility will be to help organize a session on cartography for a regional IGU conference in Durban, South Africa, August 4-10, 2002, as well as to hold a joint Executive Committees meeting. The IGU Secretary-General and Treasurer is Ron Abler (Executive Director of the Association of American Geographers), while other officers are from Italy, Switzerland, Russia, China, Finland, South Africa, Mexico, and Japan. They have over 30 commissions or study groups. For many of them the focus is on physical geography, but there are a number that might be of interest to those in ICA, such as Modelling Geographical Systems.

Reports from ICA commissions were considered. A new publication's contract has been negotiated and signed with Elsevier. Therefore, commission chairs will need to submit all publications to Elsevier prior to making other publication plans. They have the first right of refusal to all ICA publications. Consideration is being given to restarting the international yearbook.

# Meetings



*Executive Committee Meeting. From left to right: Robert McMaster (ICA Vice-President, USA), Michael Wood (Past ICA President), and Anne Buttimer (IGU President and guest at the meeting)*



*A break during the EC meeting in London. From left to right: Kirsi Virrantus, ICA Vice-President, Finland; Li Li, ICA Vice-President, China; and Takashi Morita, ICA Vice-President, Japan.*

Reports were made on various meetings attended on behalf of ICA by various officers of which there were about ten. Among them was the U.S. National Committee which met during the Association of American Geographers meeting in New York in early March.

The archiving of ICA materials was discussed. It was decided that only paper materials, not digital items, would be kept at this time, including original correspondence. Personal access would be limited to the Archiving Committee and the Executive Committee. The procedures presented by the Institut Geographique National were approved with several items to be noted. I am to notify them, circulate the procedures to the Executive Committee, Commissions, newsletter, and past presidents.

Progress on preparations for the 2003 ICA conference and General Assembly in Durban, South Africa was reported by Elri Liebenberg, a member of the organizing committee, as well as ICA Vice President. A first circular is planned to be available in Beijing. They will have a booth in Beijing and a spot in the closing ceremony. Timetable is such that the Executive Committee will meet with the organizing committee in Durban in August 2002 (along with IGU), the deadline for abstracts and exhibit booths will be October 2002, and January 2003 will see publication of the final brochure and registration information. One of the IGU vice presidents is also a member of the organizing committee.

Discussions regarding membership and a possible location for the 2005 technical conference closed out the meeting early Sunday afternoon.

*Alberta Auringer Wood  
(ICA Vice President - Canada)*

## Reports on meetings attended by ICA Executive Committee

Bengt Rystedt visited the FAO Headquarters in Rome, from March 5-7, 2000, where the UNGIS group under Alice Chow presented the plans for a UN geographic database.

August 8-15 2000 the Scandinavian Summer School in Cartography was held in Finland. Kirsi Virrantaus, ICA Vice-President, participated in the meeting, which focused on generalization. Dr Virrantaus also assisted to the FIG seminar held in Malta, from the 18 – 21 September 2000, with the theme Surveyors in the Mediterranean countries.

From November 28-30, 2000 ICA Vice-President Takashi Morita attended the Global Mapping Forum in Hiroshima. Its theme was Global Environment in the 21st century. There was a demo of Global Map version 1. Its specifications were presented, and are available at: <http://www.iscgm.org> or <http://www1.gsi-wc.go.jp/iscgm-sec>.

On January 19-26, 2001 the ICA President attended the UN Regional Cartographic Conference for the Americas No 7 in New York (see report in this issue). The 20th International Conference of INCA, the Indian National Cartographic Association was held from the 28th February to the 2nd March 2, 2001, with the assistance of the ICA Secretary General, Ferjan Ormeling (see report in this issue).

ICA Vice-President Milan Konecny attended a combined meeting of GSDI and ISCGM in accordance with the Global Mapping Forum in Hiroshima, November 28-30, 2000. He also attended the GSDI meeting in Cartagena, and discussing the role of ICA in this model. Milan also attended a meeting of the UN Commission on Sustainable Development (CSO), that dealt with RIO+10 and Agenda 21, with the theme "Information for decision making participation". This meeting was held during a mini-symposium in New York, April 24, 2000.

## Harold Fullard (1915-2001)

On February 1 2001 our colleague and friend Harold Fullard suddenly passed away. He died from a heart attack in his beloved garden in Birkhampsted, Berkshire. Harold was born on 23 April 1915 in St Petersburg, Russia. He read geography and anthropology at the University of Manchester and graduated in 1936. Equipped with this luggage he entered into the service of Publishers George Philip & Son, London, where he specialised in atlas cartography. The war years inevitably interrupted this activity. Serving in the Royal Engineers Survey he was engaged in the mapping of Normandy and the Low Countries. In 1944 he was posted to India, then Ceylon and Singapore. He returned to Philip in 1946, where he climbed the ladder from geographical assistant to Director and Cartographic Editor in Chief. He retired officially in 1980 and continued to serve George Philip as consultant cartographer. During his career he prepared, edited and supervised the production of over 130 atlases, predominantly educational, covering many countries and most of them excelling in clarity and legibility. They were used by millions of people in schools, libraries and offices all over the world. In doing so, he became a man of international repute, whether modest Harold liked it or not!

Throughout his busy career he still made time for contributions to cartography in general. He was a founder member of the British Cartographic Society, was treasurer and council member from 1963-68, Vice-President in 1969, and President in 1970.

In addition, he was actively involved in the International Cartographic Association (ICA) from its foundation in the 1950's. It will be obvious that his experience in international cartography proved to be extremely valuable for the consolidation and growth of the Association. He missed no Conference and by his lectures and writings he contributed to its prestige. For years he served as chairman of the ICA Publications Committee that he moulded into shape by revising its guidelines. During his chairmanship no less than 10 books, written by cartographers of diverging backgrounds and most of them drastically edited by

Fullard, were added to the list of ICA Publications. The Seventh General Assembly of the Association, held in Perth, Australia in 1984, presented him with the Honorary Fellowship. On the national level the Royal Society presented him with the Murchison Award for his contribution to educational cartography.

Finally, in recognition of his many merits he was awarded an OBE in the 1980's, after his retirement. We express our gratitude for all that Harold stood for and brought about and passed on to others. Finally we wish his dear wife Nancy, her two sons and daughter courage and strength to bear and overcome their loss.

*F.J.Ormeling Snr.*

## Alexander Liouty (1942-2001)

Alexander Liouty, Professor, Head of the Laboratory of Cartography (Institute of Geography, Russia Academy of Sciences) died on 25 March 2001. Born on May 1942, he studied at the Faculty of Geography of the Moscow State University, where he graduated in 1964. Alexander was a prominent Russian cartographer, outstanding theorist of cartography, and developer of the map language theory. He was also excellent practical cartographer. The Resources and Environmental World Atlas, which became a honour of Russian geography and cartography schools, was developed under his supervision. Liouty was involved in many atlas mapping projects, including editor-in-chief of the National Atlas of Russia, creator of the integrated Atlas of Kuril Islands, and one of the ideologists of the Environmental Atlas of Russia.

He had a wide range of scientific interests, and paid a great attention to problems of automation and GIS in cartography. Alexander had firm principles, was steadfast scientist and friendly, well-wishing man. He found a time for teaching new Map language coursework at Faculty of Geography, and was always cheerful and clever interlocutor, well-disposed supervisor or and opponent, kind friend of colleagues and friends. His memory is cherished by friends, colleagues and everyone he mentored and influenced.

*A.Berlyant, V.Tikunov, L.Yanvareva (Moscow)*

# Commissions' Reports

## Marine Cartography

As this report is being typed I am attending the US Hydrographic Conference in Norfolk VA, US where also have been held a number of senior IHO meetings, we are a month away from the conduct of the 4th International Symposium on CoastGIS which is due to be held in Halifax, Canada during the latter part of June 2001 in co-operation with the IGU Commission on Coastal Systems. A short report will appear in the next edition of the ICA News and a fuller report will be posted on the permanent Coast GIS website – [www.coastgis.org](http://www.coastgis.org).

Discussions have been held recently with the International Hydrographic Bureau in Monaco and it has been decided that the Commission will put up two members, myself and another Commission member, as members of the FIG International Advisory Board (IAB) which has been asked additionally to establish Standards of Competence for Nautical Cartographers. This is a great opportunity of co-operative effort and the chair from Chile, Captain Hugo Gorziglia will shortly travel to Trieste where he will prepare the first draft.

I look forward greatly to the ICC in Beijing during August where again, with excellent international co-operation, one section of the International Map Exhibition will feature charting, thanks to the efforts of our hosts on the local organising committee.

*Ron Furness  
Chair, ICA Commission on Marine  
Cartography*

## Map Production (CMP)

Recent CMP activities have concentrated on the Commission's terms of reference and the activities to be held at the next ICC 2001 in Beijing. During the congress the proceedings of the

cartographic seminar held during the Geomatics 2000 conference in Cuba (see ICA News 34), will be disseminated. The proceedings are a compilation of the presentations done by ICA Commissions on Atlas, Education and Training, and Map Production.

Regarding the Commission's terms of reference, CMP will discuss on the projects that are set up for each individual team. Each project has its own project leader, and particularly the Compendium on Cartographic Techniques will be a central focus of discussion during the CMP meeting in Beijing.

Further, CMP will hold a separate meeting on new developments within the group of CMP members. Out of this we hope to create new ideas for the coming periods. CMP might also discuss cooperation with other worldwide organisations dealing with maps and map production in whatever aspects. Finally, CMP is preparing a joint seminar in Cuba early next year.

*Sjef J.F.M. van der Steen, Chair ICA  
Commission on Map Production*

## Spatial Data Standards Commission

### I. Commission Working Meeting

We are organizing a Commission working meeting for Monday, July 30 - to Friday, August 3 in the vicinity of Beijing. Prof. Du Daosheng has graciously volunteered to act as our host and local organizer. These dates were set and announced to the members of the Commission last Fall. The Commission meeting will focus on the major items on our 1999-2003 Terms of Reference. The two primary agenda topics for the Commission meeting are:

- a) Final discussion and hopeful wrap up of the task to write our Volume 3 book

on National and International metadata standards;

- b) Carry on with initial planning and strategic directions for the Commission future work on the Spatial Data Infrastructure (SDI).

### II. Commission Reporting Session at ICC main meetings

Once again the Commission will organize a Commission Reporting Session during the main ICC meetings. All those participating in the ICC meetings are welcome to attend this session. I have made a request to the ICC Organizing Committee to Schedule a 3-4 hour reporting session for the afternoon of either Tuesday, August 7 or Wednesday, August 8.

We will present regional standards reports from Europe, North America, Asia/Pacific, Africa/Middle East, and the ISO/TC211 community. A guest report will be made on the ISO/TC211 activities on GIS Personnel Certification.

### III. ICA Book on Spatial Metadata Standards

The initial plans for the a book to analyze all of the national and international spatial metadata standards in the world was initially proposed and begun at the 1995 Barcelona meetings. Since that time we developed a set of metadata standards assessment criteria over a period of two years, and field tested them over a period of two years.

From Fall, 1998 to Spring, 2000 we were in something of in a holding pattern anticipating the completion of the draft world metadata standard. We wrote draft chapters on our individual Part IV National and International metadata standards, did further refining of our criteria, and planned for our ICA book during that period. In Spring, 2000 it became evident that it was likely that the 3rd Committee Draft would be approved

in the Fall, 2000 and move to Draft International Standard (DIS) during the Winter/Spring 2001. This process is largely occurring as anticipated.

Meanwhile, in Spring, 2000 the Commission members were given the green light to proceed full speed with the final polishing of the Part IV chapters on the individual National and International metadata standards, and for the writing of the Part II Regional Summary chapters to ensure freshness. This work is largely proceeding on schedule, but the work of our volunteer members has always been second priority to the TC211 standards development work itself. These priorities are set by the individual Governmental agencies, and not the Commission. Although a couple of the chapters are lagging for this reason, the Editors are hopeful that we will have the chapter manuscripts prepared in a time sequential manner ready for Elsevier. Timing the publication of the book with the official DIS is a critical element of the Commission publication strategy because we believe that there is an additional book sales market share to the various National Standards Committees who will be moving to harmonize their standard with the ISO/TC211/WG3/T15 19115 Metadata standard. This book will provide them with consistent information on every existing spatial metadata standard in the world, and this will assist them to more effectively harmonize their own standard with the world metadata standard.

## IV. Future Plans for Commission SDI Efforts

At our June, 2000 Commission meeting on Monaco we discussed and reviewed some initial ideas on how to proceed on our SDI work. With the metadata book hopefully in press by then, we hope to spend a large part of the Commission meeting time focused on our

SDI work. Per our 1999-2003 ToR, we hope to have a fully developed strategy and plan ready in time for the 2003 ICA Congress.

*Harold Moellering, Chair ICA Spatial Data Standards Commission*

## Maps and Internet Commission Pre-conference Workshop, July 31-August 2, 2001.

The Workshop is being co-sponsored by the ICA Commission on Maps and the Internet, South China Normal University, the Guangdong Academy of Sciences, and the ISPRS Commission IV/2. The purpose of the workshop is to bring together international specialists in the field of Internet mapping and to disseminate information to a broader audience on new developments and major areas of research.

The meeting will be held in Baiyun Hotel which is about 15-20 minutes from the airport. The hotel is located in one of the commercial centers in Guangzhou (<http://www.baiyun-hotel.com/>). We have received a group rate of approximately US\$42 per night for a double room at the Bai Yun. Make your reservation through Dr. Bin Li at Bin Li <[bin.li@cmich.edu](mailto:bin.li@cmich.edu)>.

Dr. Jianya Gong, Director of the National GIS Laboratory at Wuhan University, will accompany a group of workshop participants by train from Guangzhou to Beijing. We will stop in Wuhan on Friday, August 3, for a tour of the city and the National GIS Laboratory. A small workshop participation fee will be charged by the organizers in Guangzhou - US \$50 for attendees, US \$20 for presenters. This does not include the cost of the transportation to Beijing. The Preliminary program is available at <http://maps.unomaha.edu/ica/>

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

## Commission on Children and Cartography

### Children and Cartography meeting in Brazil, May 2001

On May 6, 2001, some 150 teachers, professors, researchers and students from across Brazil met in Maringá, Paraná, Brazil for a four day symposium on children and cartography. This Fourth Colloquium on Cartography for Schools was sponsored by the Department of Geography and the Post Graduate Program in Geography of the Center of Letters, Arts and Human Sciences, The State University of Maringá. It was organized by Professor Elza Yasuko Passini.

The excellent and varied program consisted of some fifteen papers organized in five main sessions, twenty five poster sessions, and two workshops. As well, the final 100 national entries (out of a total of 260 from seven states) of the Barbara Petchenik International Map Design Competition made up a separate display.

The energy and initiative of this Brazilian group was evident in their attendance, questions, and planning. Next year there will be two regional and international meetings in Brazil in August. The first, sponsored by the ICA Commission on Children and Cartography, will take place in Diamantina, Minas Gerais August 5 and 6, 2002. The second will take place in Rio De Janeiro August 8-10. For information on the Diamantina meeting, contact Tomoko Paganelli at <[tomoko@unisys.com.br](mailto:tomoko@unisys.com.br)> or Tania Targino at <[tania@arras.com.br](mailto:tania@arras.com.br)> For information on the meeting in Rio De Janeiro contact Janine Le Sann at <[lesann@ufmg.br](mailto:lesann@ufmg.br)>

*Henry W. Castner, Associate Chair, Commission on Children and Cartography*

# 20th International Cartographic Conference

## Short Facts Beijing

As the capital of China, Beijing is an ideal place for hosting international conferences with modern facilities, convenient traffic conditions and comfortable accommodations. The participants of the Conference will enjoy themselves of over 5000 years' Chinese history, natural beauties, hospitality of Chinese people and the world famous Chinese cuisine.

The total area of Beijing municipality is 16,800 square kilometres and the population is about 11 million. Beijing is a noted city for international tourism. There are a lot of historical places and scenic spots around Beijing, such as the Palace Museum, the Temple of Heaven, the Summer Palace, the Great Wall, the Ming Tombs, the Lamasery Temple, and the Fragrance Hill Park.

## Conference Venue

The Conference with the exhibitions will take place at Beijing International Convention Center (BICC) which is located in the Beijing Asian games Village in the north of Beijing City. The BICC is 9 km from the centre of the city and 11 km from the Beijing Railway Station. The Capital International Airport is 20 km to the east, while the Summer Palace is 12 km to the west. To its north are two world-famous attractions - the Great Wall and the Ming Tombs.

Conveniently located with a fascinating environment, the BICC is one of the most technically advanced conference and exhibition centers in China. Within the walking distance, the BICC is surrounded by 3-5 star hotels, recreation centres, shopping centers, and a variety of different style restaurants.

## Visa

Foreign visitor entering China must have a valid passport and a visa. Upon receiving the registration form and the payment, the LOC for ICC 2001 will send the official invitation letter for visa to the registered participant. With the invitation letter for visa, the participant may apply for the entry visa at the Chinese Embassy or Consulate General in his/her country.

## Transportation from the Airport

The LOC for ICC 2001 will offer a shuttle bus service free of charge, from Beijing International Airport to Beijing International Convention Center (BIGG) on Saturday, August 4 and Sunday, August 5, 2001 on the basis of an advance request received. You may take a taxi to the hotel with the following sign for the driver.

## Workshops

The following workshops have been scheduled:

### 1. Workshop on the Internet and Map Use

Time: July 31 - August 2, 2001

Venue: Guangzhou

Contact: Michael Peterson, Chair

ICA Commission on Maps and the Internet  
Professor, Department of  
Geography/Geology

University of Nebraska at Omaha

6001 Dodge Street., Omaha, NE 68182, use

Tel: +1-402-554-4805 Fax: +1-402-554-3518

Email: Michael-Peterson@unomaha.edu.

### 2. The 2nd Joint ISPRS/ICA Workshop on Updating, Incremental Updating and Versioning of Spatial Data Bases

Time: August 4-5, 2001

Venue: Beijing

Contact: Ammatzia Peled, Co-Chair

ICA Working Group on Incremental

Updating and Versioning

Department of Geography

University of Haifa

Haifa 31905, Israel

Tel: +972-4834-3591 Fax: +972-4824-6814

Email: a.peled@uvm.haifa.ac.il

### 3. The Meeting of ICA Commission on Spatial Data Standards

Time: July 30 - August 3, 2001

Venue: Beijing

Contact: Harold Moellering, Chair

ICA Commission on Spatial Data Standards

Professor, Department of Geography

Ohio State University

Columbus, Ohio 43210, USA

Tel: +1-614-292-2608 Fax: +1-614-292-6213

E-mail: geohal+@osu.edu

The Scientific and Technical Program consists of two plenary sessions, 65 oral presentation sessions and 5 poster presentation sessions. All the oral and poster papers will fall in parallel presentation. Plenary sessions will give keynote speakers some chances to summarize the cartographic achievements in the last millennium and reflect the challenges in the ongoing millennium. Oral presentation sessions are organized according to the technical topics. Each oral presentation session is 90 minutes in length, and may contain 4-6 papers. Each poster session lasts half a day.

LOC has also planned an International Map Exhibition, a Chinese Historical Map Exhibition and a technical (Commercial) Exhibition as concurrent activities.

Technical Visits, Social events, Accompanying Person's Program. City Tours and Pre & Post Conference Excursions, are arranged for the Conference participants and the accompanying persons.

The Conference excursion participants will also be arranged to visit the local mapping agencies at the cities involved in excursions.

Please take me to Beijing International Convention Center  
请送我到亚运村北京国际会议中心

# ICC 2001 BEIJING REGISTRATION FORM

## 20th International Cartographic Conference Beijing, China, 6-10 August 2001

LOC use only

Reg. No.:

Please send completed registration form to:

LOC for ICC 2001

State Bureau of Surveying and Mapping

9 Sanlihe Road, Beijing 100830, China

Tel: +86-10-68346614, 68339095

Fax: +86-10-68311564, 68339095

Email: [icc2001@sbsm.gov.cn](mailto:icc2001@sbsm.gov.cn)

Website: [www.sbsm.gov.cn/icc2001/](http://www.sbsm.gov.cn/icc2001/)

Each participant should complete one copy of this registration form. Please use a typewriter or block letters.

Family Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Nationality: \_\_\_\_\_ Sex: ☐ M ☐ F. Passport No.: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ Postal Code: \_\_\_\_\_ Country: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

City where you submit your application for entry visa to China: \_\_\_\_\_

### ACCOMPANYING PERSONS (if child, indicate age)

Full Name \_\_\_\_\_ Sex: ☐ M ☐ F. Nationality \_\_\_\_\_ Passport No. \_\_\_\_\_

### REGISTRATION FEES

	Before June 1	After June 1	No.	Total (US\$)
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Full Registration

\$450.-

\$550.-

Student Registration

\$150.-

\$250.-

One Day Registration

\$200.-

\$200.-

(Please indicate date: \_\_\_\_\_ )

Proceedings (CD-ROM)/Optional

\$50.-

\$50.-

-

Accompanying Person

\$100.-

\$100.-

-

SUBTOTAL

### TECHNICAL VISIT

	Price	No.	Total (US\$)
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☐ TV-1. China Cartographic Publishing House (August 7, am)

\$15.-

-

☐ TV-2. National Geomatics Center of China (August 7, pm)

\$15.-

-

☐ TV-3. Chinese Academy of Surveying and Mapping (August 8, am)

\$15.-

-

☐ TV-4. Institute of Remote Sensing Applications (August 8, pm)

\$15.-

-

☐ TV-5. Institute of Geographic Sciences and Natural Resources Research (August 9, am)

\$15.-

-

☐ TV-6. China Cartographic Publishing House (August 9, pm)

\$15.-

-

SUBTOTAL

### SOCIAL EVENT

	Price	No.	Total (US\$)
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☐ SE-1. Welcome Reception (Monday, August 6)

Incl.

-

☐ SE-2. Peking Opera (Tuesday, August 7)

\$30.-

-

☐ SE-3. Chinese Acrobatics (Wednesday, August 8)

\$30.-

-

☐ SE-4. Gala Dinner (Thursday, August 9)

\$50.-

-

SUBTOTAL

### CITY TOUR

	Price	No.	Total (US\$)
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CT-1. The Great Wall - the Ming Tombs (August 5 ☐ 7 ☐ 9 ☐

\$45.-

-

CT-2. The Tian'anmen Square - the Forbidden City - the Summer Palace (August 5 ☐ 8 ☐

\$40.-

-

CT-3. The Temple of Heaven - the Yonghe Lamasery (August 7 ☐ 10 ☐

\$35.-

-

SUBTOTAL

### HOTEL RESERVATION

Arrival Date \_\_\_\_\_ Checkout Date \_\_\_\_\_ Number of Nights \_\_\_\_\_

# ICC 2001 BEIJING REGISTRATION FORM

## Hotels

			No. of Rooms	Total Deposit (US\$)
Celebrity International Grand Hotel (five star)	<input type="checkbox"/> Standard Room	\$100.-	-	
	<input type="checkbox"/> Suite	\$120.-	-	
Beijing Continental Grand Hotel (four star)	<input type="checkbox"/> Standard Room	\$80.-	-	
CATIC Plaza Hotel (three star)	<input type="checkbox"/> Standard Room	\$70.-	-	
	<input type="checkbox"/> Suite	\$116.-	-	
Tibet Hotel (three star)	<input type="checkbox"/> Standard Room	\$58.-	-	
Two-star hotel	<input type="checkbox"/> Standard Room	\$35.-	-	

\* All the prices are exclusive of breakfast.

\*\* For each room, a deposit equivalent to one night's stay should be paid.

\*\*\* Rooms will only be booked after receipt of the full deposit on a first-come-first-served basis.

SUBTOTAL

## PRE & POST CONFERENCE EXCURSION

### Pre-Conference Excursion

			No. of Persons	Total (US\$)
<input type="checkbox"/> PE-1. Beijing – Xi'an – Beijing (3 days, August 3-5)	Price	\$450.-	-	
	Single Supplement	\$50.-	-	
<input type="checkbox"/> PE-2. Beijing – Wuhan – Beijing (3 days, August 3-5)	Price	\$450.-	-	
	Single Supplement	\$50.-	-	
<input type="checkbox"/> PE-3. Beijing – Chengde – Beijing (3 days, August 3-5)	Price	\$200.-	-	
	Single Supplement	\$50.-	-	

### Pre-Conference Excursion

<input type="checkbox"/> PE-4. Beijing – Xi'an – Lhasa (Chengdu) – Beijing (8 days, August 11-18)	Price	\$1490.-	-	
	Single Supplement	\$300.-	-	
<input type="checkbox"/> PE-5. Beijing – Xi'an – Guilin – Guangzhou (7 days, August 11-17)	Price	\$890.-	-	
	Single Supplement	\$210.-	-	
<input type="checkbox"/> PE-6. Beijing – Hangzhou – Shanghai (6 days, August 11-16)	Price	\$690.-	-	
	Single Supplement	\$150.-	-	
<input type="checkbox"/> PE-7. Beijing - Chongqing(Three Gorges) - Wuhan - Beijing (6 days, August 11-16)	Price	\$1190.-	-	
	Single Supplement	\$420.-	-	
<input type="checkbox"/> PE-8. Beijing – Hainan (5 days, August 11-15)	Price	\$590.-	-	
	Single Supplement	\$120.-	-	

\* The prices are based on double occupancy. If single accommodation is required, please add single supplement.

\*\* Full payment is due with registration form to confirm the reservation.

SUBTOTAL

TOTAL AMOUNT TO BE PAID IN US\$

## PAYMENT

- All payment is due with registration form.
- Payment should be made in US Dollars, by
  - Bank Draft

Payable to LOC for ICC 2001, sent to LOC with this registration form.

- Bank Transfer

Account Name: LOC for ICC 2001

Account Number: 803109170608092014

Bank: Bank of China, Beijing Branch, Haidian Sub-Branch, Muxidi Office, Beijing, China

Swift Code: BKCHCNBJ110

Please state your full name clearly on the money transfer. A copy of your transfer receipt should be sent to LOC with your registration form.

## CANCELLATION AND REFUNDS

- 50% refund if written cancellation is received before July 1, 2001.
- 20% refund if written cancellation is received before August 1, 2001.
- No refunds will be granted after August 1, 2001.

Signature \_\_\_\_\_ Date \_\_\_\_\_



# 20th International Cartographic Conference

## International Map Exhibition

ICA member nations and the International Hydrographic Organization will be participating in the International Map Exhibition, which will be open to conference participants and to the general public following the official opening on Monday, August 6, 2001.

Exhibits will include topographic maps, nautical charts and bathymetric maps, geological maps, urban maps, satellite images and satellite image maps, recreation and orienteering maps, globes and atlases, books, relief models, and computer maps and multimedia products, etc. The maps and other cartographic products to be shown will be selected by participating countries through their rigorous evaluation process. They will be arranged thematically and nationally at the exhibition. This exhibition will provide a worldwide sampling of the current and best map design and production, from both commercial and government cartographic agencies.

The LOC will take its advantage to encourage Chinese professionals in surveying and mapping to visit the exhibition and exchange views with their foreign counterparts. The exhibition catalogue will be available to all conference participants with their conference material.

## Chinese Historical Map Exhibition

China is a large country with over 5000 years' history. Chinese map-making may date back to 476 BC, and made great contributions to the world in cartography. Many Chinese historical maps are well preserved till now.

The exhibition will bring together some maps with ages from one hundred to thousands years. It will show different types of maps in different dynasties. They are carefully selected to represent the science and art of maps and map-making in ancient China.

Through the exhibition, you may also get a better understanding of the development of Chinese history as an additional knowledge to your profession.

*The Local Organising Committee for ICC 2001*

## GSDI 5 Conference, Cartagena (Colombia)

More than 250 participants from 49 nationalities attended GSDI 5. The Conference was held in Cartagena, Colombia during May 22-24, 2001. Organized under the theme "Sustainable Development: GSDI for Improved Decision-Making", the event was an exciting and informative opportunity for geodata producers and SDI technology developers to share with decision-makers from public and private sectors. The Colombian government took a leading role with GSDI through its national mapping agency, Agustín Codazzi Geographic Institute -IGAC.

GSDI 5 highlights include:

- GSDI to produce a statement on the need for global data sets for sustainable development, to be tabled at the forthcoming UN Rio+10 Summit taking place at Johannesburg, South Africa in 2002;
- To better achieve its goal and objectives, GSDI resolved that in the short term intends to evolve into a public/private not-for-profit organization;
- Industry participation increases, moving from conventional conference sponsorship to a direct involvement in GSDI activities;
- In memory of the late John Estes, Chair, International Steering Committee on Global Mapping -ISCGM. Jack Dangermont, ESRI President launched a five million dollars grant for GSDI and Global Mapping;

- GSDI 5 Conference incorporated the 3rd Meeting of the Permanent Committee on Spatial Data Infrastructures for the Americas -PC IDEA and the 8th ISCGM Meeting;
- PC IDEA and its sister committee for Asia and the Pacific -PCGIAP, signed a Memorandum of Understanding, addressed to promote common ground areas for SDI development at the regional level;
- The next GSDI Conference will be held in Budapest, Hungary, September 2002.

## Conference Statements

The President of Colombia, Andrés Pastrana, sent a message to the Conference, and stated that "...the Government of Colombia is pleased and takes with utmost interest, through the "Agustín Codazzi" Geographic Institute, responsibility for the coordination of GSDI activities during the 2001-2002 period, decision that we understand as a recognition for all our country efforts in this field, both at the local and international levels".

As well, in his address, Juan Mayr, Minister of the Environment and former UNCSD Chair, affirmed at the Opening Session that "...the Colombian Spatial Data Infrastructure -ICDE is considered in our country as a key initiative for policy formulation and guideline establishment to organize data production, avoid redundancy and facilitate its use and analysis".

## Industry Participation

The agenda of GSDI 5 included as an integrated part of the Conference, industry participation. Two sessions provided industry representatives with opportunities to discuss how technology can support and advance spatial data infrastructures. Further, this was also an excellent venue for companies to participate and join the rapidly growing global spatial data infrastructure.

# Conference Reports

## GSDI Authorities

For the period 2001-2002 Santiago Borrero, Director General, IGAC was elected as Chair, GSDI Steering Committee, replacing Derek Clarke from South Africa. At the same time Ian Masser, President of the European Umbrella Organization for Geographic Information -EUROGI was appointed Vice Chair. The US Federal Geographic Data Committee continues hosting the Secretariat, with John Moeller as principal. As well, Bas Kok and Harlan Onsrud will remain as Co-chairing the Legal and Economics Working Group and Doug Nebert, as Chair of the Technical Working Group.

## GSDI 6 Conference – Budapest, Hungary

GSDI 6 will be held in Budapest, Hungary, in September 2002. The event will be organized by EUROGI and the Hungarian National Geographic Information Association – HunGAI, under

the responsibility of Gabor Remetei. The Conference theme will be: "From Global to Local", and it will incorporate the 9th Meeting of the International Steering Committee on Global Mapping –ISCGM, and most probably the Plenary Assembly of EUROGI.

## Conference Proceedings and Resolutions

Twelve resolutions were adopted at the conference dealing with aspects such as "GSDI and other relevant initiatives", "GSDI Organization", "GSDI Implementation Guide and common implementation practices". The set of resolutions and papers submitted to GSDI 5 will be available on 1st July 2001 at:

<http://codazzi4.igac.gov.co/gsdi5> and at: <http://www.gsdi.org>

*Maryori Arango Lopez, Agustin Codazzi Geographic Institute*

## UN Regional Cartographic Conference for the Americas, January 22-26

United Nations organises a series of regional cartographic conferences. The regions involved are the Americas, Asia and the Pacific, and Africa. Last year, the 15th UNRCC for Asia and the Pacific was held in Kuala Lumpur. The 7th UNRCC for the Americas took place in New York last January, and the next African UNRCC will be held as a sub committee meeting during the Second Meeting of the Committee on Development Information (CODI), in Addis Ababa, organised by the UN Economic Commission for Africa, from the 4 to 7 September 2001.

Participation in these conferences is by invitation only. UN member states are invited to participate with a delegation via their state departments. Thirteen American, seven European, four Asian and two African countries were represented at the conference for the Americas. Specially invited were the International Cartographic Association, International Society of Photogrammetry and Remote Sensing, FIG and IUUG as well as the Permanent Committees for geographic information in Asia and Pacific (PC-GIAP) and for Latin America (PC-IDEA). ICA was represented by Bengt Rystedt, Menno-Jan Kraak, Carmen Reyes and Timothy Trainor.

The main objective of the conference was to transfer technology and competence over the existing barriers, so that a way to national geospatial infrastructures based upon global thinking, could be built. Capacity building and standardisation were the main key words.

The first part of the conference was devoted to presentations. ICA dealt with the topic on Cartographic Developments and Challenges for Dissemination of geospatial data. I presented the mission of



*Cartagena, Colombia venue for GSDI 5*

ICA and its commissions in these aspects, as well as an introduction on how to create multipurpose geospatial data. Under the title Education and the geospatial data infrastructure: A project based approach, Menno-Jan Kraak, from ITC in The Netherlands, discussed how he works with his students to combine theory and practise for building a geospatial data infrastructure. Carmen Reyes, director general of CentroGeo (a GIS research institute in Mexico) presented a paper on

Geospatial Data Dissemination - Reality, Obstacles and Possibilities. The paper presented a picture of the current situation and outlined visions and goals for 2005 and 2010. Finally, Tim Trainor presented experiences from co-operation to create common data sets in border regions of Canada and Mexico. Alice Chow of the UN Cartographic Section made a major contribution on the measures taken to build up a global geographic database.

In the second part of the conference,

discussions took place in smaller groups, with aims to formulate resolutions that could be processed in proper UN bodies and taken as point of reference for initiatives by any other organisation. ICA can take advantage of these resolutions in different activities. The working groups produced ten resolutions that were scrutinised and voted upon during the final day. Of special interest to ICA were the resolutions on capacity building and the UN geographical database. These resolutions endorse our commissions to act free from political and governmental interests. An outcome of the discussion might be the creation of an "MBA" in Geographic Information Management.

The UN meetings might appear peculiar with all the formal routines. However, UN activities possess a unique strength in that they can not be neglected by our governments. A UN resolution is a strong reference when a research project is formulated or when a workshop or commission meeting is to be organised. Most ICA activities towards capacity building in developing countries can rely on different UN resolutions.

*Bengt Rystedt, ICA President*



*Hiroshi Murakami, Head of the UN Cartographic Section and Santiago Borrero, President of the PC-IDEA celebrating the Chinese New Year in New York.*



*From left to right: Bengt Rystedt, Carmen Reyes, Menno-Jan Kraak, and Tim Trainor at the 7th UNRCC for the Americas in New York*

# Conference Reports

## **XX INCA International Congress: Cartographic Challenges at the dawn of the new millennium**

With about 200 participants, mainly from the subcontinent, Dehra Dun saw the 20th annual cartographic conference of the Indian National Cartographic Association (INCA), from February 28 to March 2, 2001. The participants were heralded to a three-day high level lecture programme, with an exhibition and excursion to the National Hydrographic Office. With over 1800 members, INCA is one of the larger member organisations of the International Cartographic Association (ICA). The local organising committee

consisted mainly of staff of the Survey of India (one of, if not the oldest national mapping organisations in the world, established in 1767), and was chaired by Shri S.K. Basu, Additional Surveyor General, with Brig K.K. Naithani as Organising Secretary. The congress was inaugurated by the Governor of the newly constituted state of Uttaranchal, Shri Surjit Singh Barnala. The inaugural function started with the address by Lt Gen A.K. Ahuja, President of INCA and Surveyor General of India which was followed by a keynote address by Rear Admiral K.R. Srinivasan, Chief Hydrographer to the Government of India. An ICA representative was invited to participate and to address the congress.

Two recent Survey of India publications, 'Conventional Signs for Topographical Maps in the Digital Environment' and the state map of

Uttaranchal, were also released by the State Governor during the inaugural function.

After the opening of the exhibition, 6 technical sessions followed, devoted, respectively, to:

- emerging new technologies for mapping terrestrial resources
- new horizons in cartographic education
- role of Geomatics in planning sustainable development
- role of Geomatics in economic governance/large scale databases
- structural requirements of the national digital cartographic database
- relevance of space geodesy in cartography and coastal zone management



*Banners proclaiming the congress outside the Indian Institute for Petroleum Exploration in Dehra Dun, where the congress was held".*



*"The dais during the inaugural function of the XX INCA International Congress, with the State Governor at the centre and INCA president Lt.Gen.A.K.Ahuja at his right (photograph by Mr Rajesh Sharma, Dehra Dun).*

Other important congress elements were the prize distribution to the winners of the INCA National Geo-Map Quiz, a cultural evening with performances from all parts of India, a presentation by the vendors exhibiting at the congress and a panel discussion on the cartographic challenges at the dawn of the new millennium.

The style of the technical sessions was such, that first one or two invited papers were presented followed by up to 7 other papers on the subject. Amongst the invited ones were papers by Brig M.M. Datta (local organiser of the fourth ICA conference in New Delhi in 1968) on future cartographic education; on the emergence of geographic information services, by Brig K.K. Naithani; and on the public-private interface in

cartography, by Dr P. Nag, Director of the National Atlas and Thematic Mapping Organisation in Calcutta. In the panel discussion, chaired by the ICA Secretary General, the panellists focused on the central theme of the congress 'Cartographic challenges at the dawn of the new millennium'. Other highlights showing the high level and creative contributions of Indian Researchers were about Cartosat, a mapping endeavour of the Indian Space Research Organisation, about XML based GIS platforms for dynamic updates (by V.S. Shroff) and an insightful paper into the potential of cartographic education in a Geomatics environment by Prof. B. Arunachalam.

Dehra Dun, close to the Himalayas, is the abode of quite a number of education, research and production

institutes in the field of geoinformatics (such as the Survey of India, the Centre for Space Science & Technical Education for Asia Pacific, the National Hydrographic Office, the Indian Institute of Remote Sensing, the Forest Survey of India, the Anthropological and Geological Survey of India as well as several military training and research institutes including the Indian Military Academy. Located at a 6-hour train ride from New Delhi, this city of half a million inhabitants seems optimally located to become the permanent capital of the new state of Uttaranchal.

*Ferjan Ormeling, ICA Secretary General*

## Map Collections on the World Wide Web

Increasingly, information on map collections can be found on the WWW. Oddens' Bookmarks for example (see URL 1) is a good source for finding map collections. It referred to about 180 map collections three years ago, and now (May 2001) allows one to access over 300 map collections in 24 countries, through its 'Browse' function. These are mainly university collections, although some collections in (national) archives, national libraries and in map-producing institutions are represented as well. The recently published *World Directory of Map Collections* for the time being still supplies a more varied and complete survey of all map collections. This directory, published under responsibility of the International Federation of Library Associations (IFLA) provides information on 714 collections from 121 countries. It also supplies data on 33 African countries, not represented as yet on the WWW. That is why they are still absent in Oddens' Bookmarks, which refers mainly to map collections in North-America (about 190), Australia and (Western-) Europe. When studying these websites it becomes clear that the map curator's tasks in these map collections have been strongly modified in recent years. It has become a major activity to provide information about and access to digital spatial data, either directly or on the WWW or CD. A characteristic example of a map collection providing GIS facilities is the Map and Geographic Information Center of the University of Connecticut at Storrs (URL 2).

The book *The Map Library in the New Millennium* edited by Bob Parry and Chris Perkins discusses these new IT developments extensively. In its 17 chapters an international team of experts covers interesting subjects like the map user's changing profile, new technologies in the map room, the potential of the

WWW for map curators and users alike as well as metadata and standards, digital conservation and conversion, and map dealing.

Caused by the increasing technical possibilities of highly precise digitizing and scanning maps, many collections with large numbers of old documents have taken this opportunity to show their precious material to a larger public. This is done for instance by providing images of map exhibitions on the WWW. The Osher Map Library, Smith Center for Cartographic Education of the University of Southern Maine by May 2001 has made available 12 map exhibitions on different subjects on the WWW (URL 3).

A collection that boasts an enormous quantity of old maps is the Geography and Map Division of the Library of Congress in Washington, DC. Through the American Memory Project (Map Collections: 1500-1999) large numbers of maps may be studied in the minutest detail, because of the availability of MrSid software (URL 4). It is logical that most of these maps refer to the territory of the United States, but it also contains a complete first, 1570 edition of the first world atlas ever, Abraham Ortelius' *Theatrum Orbis Terrarum* (URL 5).

Tony Campbell, map librarian of the British Library in London and a widely recognised expert on the history of cartography, has collected an almost complete survey of all information on old maps available on the WWW. His site, *Map History/History of Cartography: THE Gateway to the Subject* (URL 6) has been incorporated in the World-Wide Web Virtual Library.

Because catalogues of map libraries frequently are incorporated into general library catalogues, it may be rather difficult to get an idea about the quantity of cartographic material available. In a recent paper, 'On-line map catalogs in North America and Europe' in the journal *Mercator's World* David Yehling Allen has

produced a successful inventory. This paper is also available on the WWW (URL 7).

There are not many map libraries that also make their acquisitions lists available on the WWW. The 'Kartenabteilung' of the Staatsbibliothek zu Berlin, Preussischer Kulturbesitz, does provide its access lists, however (URL 8). It is most interesting that this large collections also makes available through the WWW a survey of all its topographic map series, alphabetically ordered per country (URL 9).

Not everything can be found on the WWW. This is made abundantly clear by the opus magnum of the aforementioned Messrs Parry and Perkins, *World Mapping Today*. In this work they provide a worldwide survey (per continent and individual country) of the current production and availability of cartographic documents. It is especially the index sheets of the various map series and the address data of the public and private map-publishing institutions and establishments that make this publication so valuable that it should be available in every (large) reference library and map collection. Apart from snailmail addresses, telephone and fax numbers it also contains all the e-mail addresses and URLs that the authors could lay their hands on.

Finally, the WWW is a treasure grove for the unexpected. Who would ever be able to find, without the help of the WWW and its search engines, something like the Polish Museum in Rapperswill, Switzerland, which provides 26 old maps of Poland on its site (URL 10)!

### Bibliography:

- Allen, David Y. (2000). Library Research from Home : Online Map Catalogs in North America and Europe. In: *Mercator's World*, Vol. 5, Nr. 4 (July/August 2000), pp. 54-57.
- Parry, R.B. & C.R. Perkins (2000). *World Mapping Today*. 2nd ed. London [etc.], Bowker-Saur.

Parry, R.B. & C.R. Perkins (2001). The Map Library in the New Millennium. London, Library Association Publishing.

Loiseaux, Oliver (2000). World Directory of Map Collections. 4th ed. München, Saur. (IFLA Publications 92/93)

URL 1: Oddens' Bookmarks.  
<<http://oddens.geog.uu.nl/>>

URL 2: University of Connecticut, Map and Geographic Information Center (MAGIC).  
<<http://magic.lib.uconn.edu/>>

URL 3: University of Southern Maine, Osher Map Library, Smith Center for Cartographic Education.  
<<http://www.usm.maine.edu/~maps/>>

URL 4: Library of Congress, Geography and Map Division, Map Collections: 1500-1999.  
<<http://memory.loc.gov/ammem/gmdhtml/gmdhome.html>>

URL 5: Abraham Ortelius, Theatrum Orbis Terrarum, 1570  
<<http://memory.loc.gov/ammem/gmdhtml/gnrlort.html>>

URL 6: Map History / History of Cartography, maintained by Tony Campbell.  
<<http://ihr.sas.ac.uk/maps/>>

URL 7: Online Map Catalogs in North America and Europe, David Y. Allen.  
<<http://www.sunysb.edu/libmap/libcats.htm>>

URL 8: Staatsbibliothek zu Berlin, Preußischer Kulturbesitz, Kartenabteilung, Acquisitions Lists.  
<[http://karten.sbb.spk\\_berlin.de/akzessionsliste/index.htm](http://karten.sbb.spk_berlin.de/akzessionsliste/index.htm)>

URL 9: Staatsbibliothek zu Berlin, Preußischer Kulturbesitz, Kartenabteilung, Topographic Map Series.  
<[http://karten.sbb.spk\\_berlin.de/topographisch/index.htm](http://karten.sbb.spk_berlin.de/topographisch/index.htm)>

URL 10: Polish Museum in Rapperswil with 26 online maps.  
<[http://www.muzeum\\_polskie.org/](http://www.muzeum_polskie.org/)>

*Roelof P Oddens (Map Curator Faculty of Geographical Sciences Utrecht University)*

## Cartographer elected as Member of the German Academy of Sciences

At the end of 2000, Professor István Klinghammer, Rector of the Eötvös Loránd University, (Budapest), and Head of the Department of Cartography, was elected member of Leopoldina. Leopoldina is the German Academy of Sciences (Deutsche Akademie der Naturforscher Leopoldina) founded in 1652 in Schweinfurt, which moved its centre to Halle in 1872. This Academy is one of the oldest and most prestigious worldwide. The 1000 members constituting the Academy are organized into 27 groups. Prof. Klinghammer, member of the Geoscience Section, is the only member with a cartographic background.

According to the words of Mr. Benno Parthier, President of Leopoldina, Prof. Klinghammer was elected as member of the Academy because of his successful international scientific activities and initiatives in regards to his new interdisciplinary approach to cartographic science.

*László Zentai, Member ICA Commission on Education and Train*

## International Master's Degree Program Geomatics

The study program of cartography and Geodesy at the University of Applied Sciences Karlsruhe (Germany), extends the range of courses it offers with an International Master's degree (MSc) of Geomatics in which the emphasis is laid on geoinformation processing and visualization. The course has two specializations: Geomatic Visualization and Applied Geodesy.

The students will be educated especially in computer aided visualization,

spatial information and spatial analysis in the field of information and communication technologies and further in the reception, the mathematical and statistical modelling and the geocoding of hybrid data. Additional to the Karlsruhe University of Applied Sciences, other partner universities from Europe and USA, and research institutions located in the region of Karlsruhe are involved in the study program.

The international Master's degree course takes four terms (2 years) to complete, including a period of time for the master's thesis.

For more information please contact:

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or Prof. Dr. H. Saler, Applied Geodesy  
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Email: [geomatics@fh-karlsruhe.de](mailto:geomatics@fh-karlsruhe.de)

## Cartotranslators

An enthusiastic group of students at the 'Escuela de Topografía de Madrid' (School of Topography of Madrid) set up the 'Cartotranslators' Association. They have been working for more than a year in the translation of cartographic literature from English to Spanish, including the FIG Newsletter, the ICA Newsletter and several other texts. Responsible for this Association are Marta Muñoz and Javier Moya, both students at the School of Topography.

**Congratulations to all the group members for the fantastic job done so far.**



# For Your Diary

## 38th Annual Symposium and Map Curator's Workshop

Thursday 13 September to Sunday 16 September 2001, University of Liverpool, England

- Map Curators Group (theme: Acquisition) plus excursion to local sites
- Symposium Session I Helen Wallis Memorial Lecture
- Session II The Geography and History of Liverpool
- Session III Mapping Urban Spaces
- Session IV Ordnance Survey - Review and Prospects
- Session V Marketing Maps and Cartographic Products
- Session VI Maritime Mapping

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British Cartographic Society web site is at  
<http://www.cartography.org.uk/>

Latest symposium news on  
<http://www.cartography.org.uk/Pages/Latest/Sympos.html>

## Digital Earth 2001

Fredericton, New Brunswick, Canada  
Date: 24 – 28 June 2001.

**CONTACT: David Finley**  
(programchair@digitalearth.ca)  
Internet: <http://www.DigitalEarth.ca>

## IGARSS 2001

Sydney, Australia  
Date: 9 – 13 July 2001

**CONTACT: Tammy Stein**  
(tstein@phoenix.net)  
Internet: [www.igarss.org](http://www.igarss.org)

## IAG 2001

Scientific Assembly  
Budapest, Hungary  
Date: 2 – 8 September 2001

**CONTACT: Viktor Richter**  
IAG 2001 Secretariat  
Viktor Richter, Computer and  
Automation Research Institute,  
HAS, Kende u. 13-17, H-1111  
Budapest, Hungary  
Email: richter@sztaki.hu  
Internet: [www.sztaki.hu/conferences/iag2001](http://www.sztaki.hu/conferences/iag2001)

## International Conference on Spatial Information

For Sustainable Development  
Nairobi, Kenya  
Date: 2 – 5 October 2001

**CONTACT: Dr Gcalcano Mulaku**  
University of Nairobi, Dept. of Surveying,  
P.O. Box 30197, Nairobi, Kenya  
Email: gmulaku@yahoo.com or fig@fig.net  
Internet: [www.fig.net](http://www.fig.net)

## Africa GIS – 2001 Conference and Expo

UN Headquarter, Gigiri, Nairobi, Kenya  
Date : 5 – 9 November 2001

**CONTACT: Humphrey K Njuguna,**  
Internet: [www.ddl.org/figtree/events/nairobi](http://www.ddl.org/figtree/events/nairobi)

## International Symposium on Spatial Data Infrastructure

Melbourne, Australia  
Date: 19 – 20 November 2001

**CONTACT: Dept. of Geomatics**  
The University of Melbourne,  
Victoria 3010, Australia  
Email: [sdi@sunrise.sli.unimelb.edu.au](mailto:sdi@sunrise.sli.unimelb.edu.au)  
Internet: [www.sli.unimelb.edu.au/SDI](http://www.sli.unimelb.edu.au/SDI)

## Meeting of Teachers of Surveying

University of Newcastle upon Tyne, England  
Date: 17 – 19 December

**CONTACT: Stuart Edwards,**  
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Newcastle upon Tyne, NE1 7RU, England  
Email: [s.j.Edwards@ncl.ac.uk](mailto:s.j.Edwards@ncl.ac.uk)

## IMTA Annual International Conference and Trade Show

Melbourne, Australia  
Date: 13 – 15 September

**CONTACT: IMTA,**  
P.O. Box 1789  
Kankakee, IL 60901, USA  
Email: [imta@maptrade.org](mailto:imta@maptrade.org)  
Internet : [www.Aptrade.org/melbourne.html](http://www.Aptrade.org/melbourne.html)

## GEOMATICA 2002

III International Congress  
Date: 18 – 23 February 2002  
Venue: Palacio de las Convenciones de La Habana  
La Habana, Cuba

**CONTACT : Ing. Tatiana Delgado Fernandez**  
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[geocuba@geocuba.get.cma.net](mailto:geocuba@geocuba.get.cma.net)  
Fax: (537) 24 2869

## VII International Congress on Earth Sciences

Instituto Geografico Militar de Chile  
Date : 21 – 25 October 2002  
Venue : Diego Portales convention Center,  
Santiago, Chile

Email : [cct2002@igm.cl](mailto:cct2002@igm.cl)  
<http://www.igm.cl>

## XXth ISPRS Congress

Date: 13 – 24 July 2004  
Venue: Istanbul Convention and Exhibition centre (ICEC)

**CONTACT: Congress Secretariat,**  
Magister Tours Inc.

Email: [congress@magister.com.tr](mailto:congress@magister.com.tr)  
<http://www.magister.com.tr>

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## Contributions

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Directory: /graciela/ICA/incoming