



CANADIAN CARTOGRAPHIC ASSOCIATION

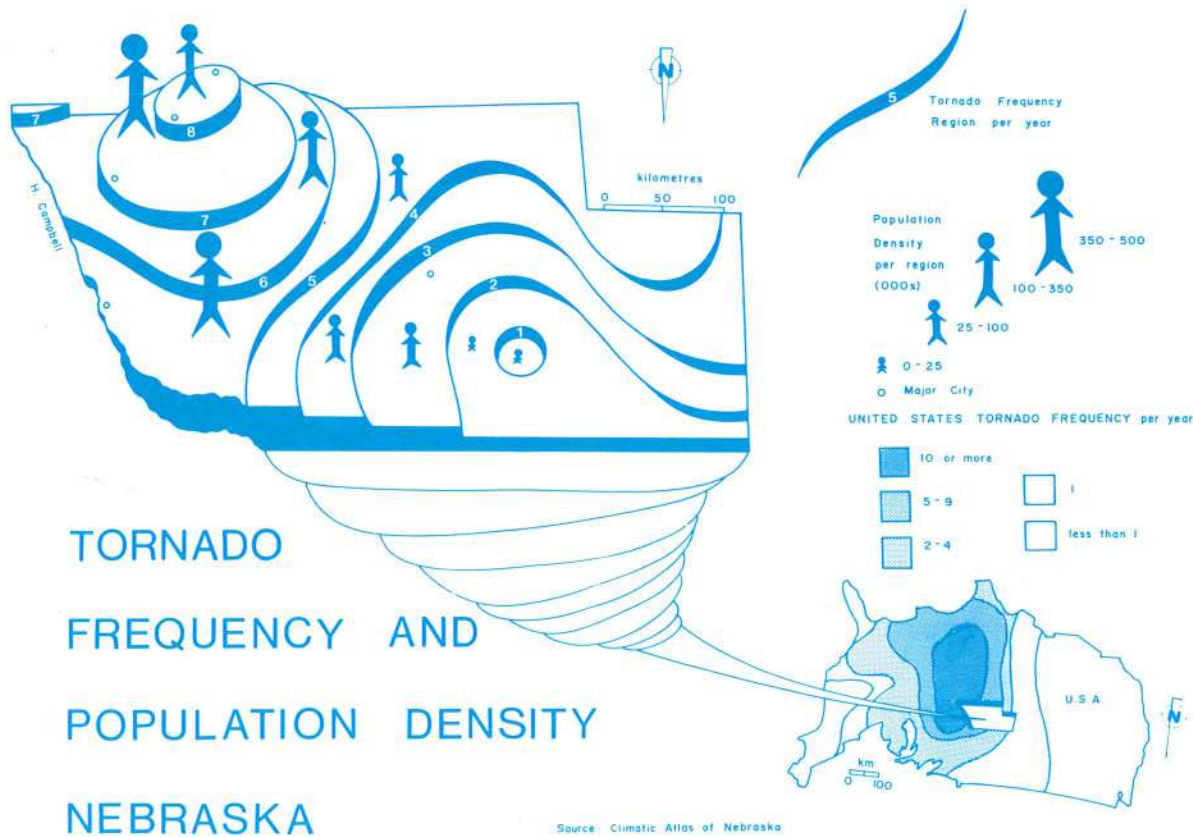


ASSOCIATION CANADIENNE DE CARTOGRAPHIE

# Newsletter

Volume 12 Number 3 Fall 1986

Published quarterly in March, June, September and December



**COVER:** President's prize winning map by Heather Campbell, of the University of Western Ontario. This represents the second year in a row that the monochrome map category has been won by a student of Prof. Bob Packer. As profiled in the Spring 86 issue, this type of cartogram is intended as an "integrated presentation of topics, data, distribution and message".

**NEWSLETTER EDITOR:** Roger Wheate, Department of Geography, University of Calgary, Calgary, Alberta, T2N 1N4.  
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**CCA EXECUTIVE:**

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**Vice-President:** Chris Gold  
**Past-President:** Cliff Wood  
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**Automation:** Margaret Sommerville  
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**Map use:** Robert Packer  
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The Canadian Cartographic Association gratefully acknowledges the financial support given by the Social Sciences and Humanities Research Council of Canada.

**From the editor's desk**

The newsletter will be back on schedule after these last two issues of 1986. The final issue of 1986 should be distributed next month after which issues will have the following dates of printing and submission deadlines:

Printing date	Submission deadline
Mar 1	Feb 15
June 1	May 15
Sept 1	Aug 15
Dec 1	Nov 15

Any submission for the last issue of 1986 should reach the editor by Dec 31.

As the newly elected secretary of the CCA, I look forward to my duties as editor of the newsletter. However, any publication can only be as good as the material that is submitted for inclusion. Remember that this is your newsletter and forum for the expression and exchange of ideas. As such, I will be including a questionnaire in 1987 in order to gather information useful to the members, and to present this data in the newsletter.

This Fall issue is largely a summary of the summer and fall activities of the CCA. The annual meeting at Simon Fraser University was a big success due to the hard work of the organising committee. However, the Saturday evening posed quite a dilemma to many members since they were forced to choose between two excellent panel discussions. The one was organised by Dawn Rogal, automation chairperson, who assembled five speakers from the mapping industry, presenting current ideas on hardware and software. Clearly, all CCA members should remain informed on such developments. Consequently the exciting news of the first journal devoted exclusively to Geographic Information Systems will be detailed. Note also the first announcement of the 1987 annual meeting, to be held with Carto-Quebec and its emphasis on current technological standards in the field.

The second panel discussion that evening was co-ordinated by Majella Gauthier, Map design chairperson, and the theme was Journalistic Cartography. The list of participants was quite astonishing with top representatives from Newsweek, Time, National Geographic and the Edmonton Journal to name a few. The contrasts due to the nature of the publications, adjustments with technological change and the stimulating interaction between groups previously not assembled together led to a memorable evening. A short text appears in this issue and we look forward to a future publication of the proceedings, possibly in Cartographica. Members should note that as a result of this session, an additional category has been created in the President's Prize competition (see the president's report).

Finally, it is with great pleasure that the CCA announces the Norman L. Nicholson Memorial Scholarship to be awarded first in 1987, to a student in Cartography. Following a most generous donation by Mrs. Helen Nicholson, which we hope to be able to match, we request that members might like to consider making their own contribution with the handy slips provided so that the amount of the award annually may be most befitting to the memory of Dr. Nicholson.

## NORMAN L. NICHOLSON MEMORIAL SCHOLARSHIP IN CARTOGRAPHY

The Executive Committee of the Canadian Cartographic Association is pleased to announce the establishment of the Norman L. Nicholson Memorial Scholarship in Cartography.

This scholarship, worth \$500.,<sup>#</sup> which the C.C.A. proposes to award annually, will recognize exceptional student achievement and ability in any aspect of cartography. To qualify, you must be:

- a) a Canadian citizen or landed immigrant,
- b) a student who proposes to continue full time studies in cartography in one of the following situations:
  1. entering the 3rd year of community college or C.E.G.E.P. program.
  2. entering the final year of an undergraduate honours program.
  3. accepted into the first year of a graduate program.

To apply, you must submit the following:

- a) a completed application form,
- b) an official transcript of all college or university courses completed and grades received,
- c) letters of recommendation from two faculty members who are familiar with your work and capabilities. Letters of Recommendation are to be sent by faculty members **directly** to the Award Committee at the address listed at the bottom of this notice, and
- d) a one-page typed statement outlining your goals for continuing education in cartography.

All four items listed above are to be received by the Award Committee no later than March 15, 1987.

The scholarship winner will be notified on or before April 16, 1987. The result of the competition will be formally announced by the President of the C.C.A. at the banquet of the association, held on May 7, 1987 during the Annual Conference at Université Laval.

Persons considering an application for this scholarship are advised to write to the Award Committee and request an application form.

Please address your enquiries to:  
Award Committee  
Canadian Cartographic Association  
c/o Dept. of Geography  
University of Ottawa  
Ottawa, Ontario  
K1N 6N5

<sup>#</sup> Editor's note: May be subsequently increased, if sufficient money is raised by the CCA.

## BOURSE COMMEMORATIVE EN CARTOGRAPHIE NORMAN L. NICHOLSON

Le Comité directeur de l'Association Canadienne de Cartographie est heureuse d'annoncer la création de la Bourse commémorative en cartographie Norman L. Nicholson.

Cette bourse d'une valeur de \$500 que L'A.C.C. se propose de décerner chaque année, sera attribuée à un(e) étudiant(e) aux qualités et aux capacités exceptionnelles dans tout aspect de la cartographie. Pour se qualifier, le(la) candidat(e) doit être

- a) un(e) citoyen(ne) canadien(ne) ou un(e) émigrant(e) reçu(e)
- b) un(e) étudiant(e) qui se propose de poursuivre des études à plein temps en cartographie dans un des cas suivants:
  1. entrer en troisième année d'un Collège communautaire ou de C.E.G.E.P.
  2. entrer dans l'année terminale d'un programme honneur de premier cycle
  3. avoir été accepté en première année d'un programme d'Études Supérieures.

Pour postuler, il faut soumettre les documents suivants:

- a) un formulaire de demande dûment complété.
- b) un relevé de notes officiel de tous les cours terminés dans une université ou dans collège avec les notes reçues.
- c) des lettres de recommandation de deux membres du corps enseignant qui connaissent bien le travail et les qualités de l'étudiant(e). Les lettres de recommandation doivent être expédiées **directement** par les enseignants au Comité de Sélection à l'adresse sous-indiquée.
- d) un exposé d'un page dactylographiée indiquant vos buts dans le cadre d'études avancées en cartographie.

Les quatre items cités doivent parvenir au Comité de Sélection le 15 mars 1987 au plus tard.

On notifiera le(la) lauréat(e) le 16 avril 1987 au plus tard. Les résultats de la compétition seront annoncés officiellement par le Président de l'A.C.C. lors du banquet de l'Association qui se tiendra le 7 mai, 1987 durant le Congrès annuel à l'Université Laval.

Les personnes susceptibles de soumettre une demande pour cette bourse sont priés de s'adresser au Comité de Sélection et de demander des formulaires de demande.

Veillez vous adresser pour toute information à:

Comité de Sélection  
Association Canadienne de Cartographie  
c/o Département de Géographie  
Université d'Ottawa  
Ottawa, Ontario  
K1N 6N5

**PRESIDENT'S REPORT**  
**11th Annual General Meeting**  
**Burnaby, B.C.**  
**July 2-6, 1986**

**1. Growth of membership during 1985-86.** Following a vigorous membership campaign including use of the "Join-a-Gram", I am pleased to report that our membership, as of the end of 1985, stood at 408 paid-up members, plus two honorary members, giving a grand total of 410. This represents a one year growth of approximately 50 new members. The breakdown as submitted early in January to the SSHRCC is as follows:

Regular members .....	292
Student .....	78
Retired .....	5
Family .....	4
Corporate .....	20
Institutional .....	9
Honorary .....	2
<hr/>	
Total .....	410

## 2. ICA/CCA and International Affairs

During the past year, the CCA has become more firmly entrenched at the international level. In addition to having been the first organization in Canada to publish and distribute the ICA Newsletter some two years ago now, the Canadian Cartographic Association this year has applied for affiliate status with the International Cartographic Association. Although the General Assembly of ICA won't act on our application until the 1987 meeting in Morelia, Mexico, the prospects for achieving full affiliate status look good. With affiliate status comes a direct link to the ICA regarding distribution of information circulars, the ICA Newsletter, updates from the Executive Committee of ICA, and a general sense of what is going on at the international level. This information, which our membership feels is very important, will now be distributed as received via the CCA Newsletter.

Largely through the efforts of ICA Vice-President Fraser Taylor and Past President Ed Kennedy of CISM, to whom this Association is indebted, a Canadian National Committee for ICA was struck late last year. The Committee, whose immediate mandate is to organize Canadian participation for the 1987 ICA Mexico meeting, is composed of one representative from each of the following organizations: Association of Canadian Map Libraries (ACML), Carto-Quebec, Canadian Institute of Surveying and Mapping (CISM), Ontario Institute of Chartered Cartographers (OICC), and Canadian Cartographic Association (CCA). Lead organizations have been selected to organize and perform the three primary tasks in preparation for the 1987 meeting. The CCA has responsibility for selecting papers. To insure the widest possible participation from most if not all of Canada's cartographically oriented groups, representatives from each will serve on the three subcommittees. In addition to the CCA leading the Technical Papers committee, OICC has the lead for the Canadian National Exhibit, and CISM has it for preparing the Canadian National Report. The contact persons for each of the subcommittees is as follows:

Technical Papers:  
 Chair, Clifford H. Wood – Memorial University  
 Richard Pinnell  
 Jean-Claude Muller  
 B. Monette

National Exhibit:  
 Chair, John Thompson – Energy, Mines and Resources  
 Barbara Farrell  
 Louis Cardinal  
 Eva Siekierska  
 B. Hogan

National Report:  
 Chair, Roger Defoe – Surveys and Mapping Branch, EM & R  
 Elizabeth Hamilton  
 Chris Gold  
 D. Stafford

## 3. Maintenance of the membership/address files.

Over the last two years the CCA has undergone numerous changes with respect to personnel involved with the maintenance of our membership files. After several years of developing and perfecting the system in Ottawa, David Douglas relinquished those tasks to Lynn Trepanier. While surmounting several difficulties including switching the list from a mainframe to a micro and "surviving" in rural Nova Scotia (I thought I was isolated), Lynne has stepped aside as Membership Coordinator. I wish to thank Lynne for all the effort she has expended on our behalf. In her place now is Lorraine Fleming of Simon Fraser. Lorraine's address is:  
 Department of Geography  
 Simon Fraser University  
 Burnaby, B.C.  
 V5A 1S6

If you have problems such as non-receipt of journals, newsletters, incorrect spellings of names, streets, or any problems related to membership/address changes, etc., drop a line directly to Lorraine for prompt action.

## 4. The Dr. Norman L. Nicholson Scholarship in Cartography.

Previous CCA Presidents have at times identified a particular action or decision of the Executive Committee that in their estimation has brought them a great deal of satisfaction and that has tended to make the previous twelve months not so bad after all. My satisfaction comes in announcing the establishment of the first scholarship to be sponsored by the Canadian Cartographic Association – Dr. Norman L. Nicholson Scholarship in Cartography. It has been realized largely due to the generosity of Mrs. Helen Nicholson who has consented to provide enough seed money which along with funds allocated by the Executive will see the awarding of the first scholarship in the spring of 1987. In order to sustain the scholarship, a fund-raising campaign will be launched in the very near future. In addition, a copy of the Deed of Award approved by the Executive last April is attached. In addition, an application form is being drawn up and should be ready for circulation in the very near future. A call for nominees will be made in the CCA Newsletter.

## 5. President's Prize – 1986

First of all I want to thank the members of the committee, Gary McManus of Memorial University, Roger Wheate of the University of Calgary, and Hal Aber of the National Geographic Society, for graciously consenting to undertake the difficult task of selecting "winners" from all of the very fine submissions. The educational system is obviously doing something right, as the quality of work seems to get better each year. I would also like to thank all of those who made this year's competition the best yet. I received 34 "winners" in all, but unfortunately the judges were given a mandate to select a winner in each of only three categories. There were no entries in the paper/essay category nor in the computer algorithm category.

At any rate this year's winners are as follows:

a. The best color map in the Technical College category:

**"Acid Precipitation in Ontario" by Jim Boyd of Sir Sandford Fleming College.**

b. The best color map in the University/degree granting institution category:

**"The Veterinary Clinical Center" by Kathryn L. Ford of Michigan State University.**

c. The best monochrome map in the University/degree granting institution category:

**"Tornado Frequency and Population Density in Nebraska" by Heather Campbell, University of Western Ontario.**

Congratulations.

In addition to the President's Prize and the six categories that it has expanded to, yet another has been created – an award for the Best Map Design in the Media. This award, which is in the amount of \$50.00 U.S., has been made possible through the interest in media maps and generosity of Paul J. Pugilese, cartographer for TIME Inc. In addition Paul has informed me that if **more than 30 Canadian entries** are submitted, the award will be increased to \$100.00 U.S.

As a final note, I want to welcome the newly elected members to the Executive Committee – Chris Gold, Vice-President; Roger Wheate, Secretary; Automation IG, Margaret Somerville; Map Use IG, Bob Packer; and Map Design IG, Claudette LeBlanc. To the outgoing members of the Executive – Majella Gauthier, Michael Goodchild, Tom Poiker, and David Douglas, thanks for jobs well done. Lastly, I want to thank you, the members of CCA, for giving me the opportunity to serve as your President. It has been a satisfying experience, but once is enough.

Clifford Wood,  
President

## CANADIAN CARTOGRAPHIC ASSOCIATION ASSOCIATION CANADIENNE DE CARTOGRAPHIE

11th Annual General Meeting  
July 3, 1986

### 1. Call to order at 10.23 am.

Thanks to the organisers: Tom Poiker, Lorraine Fleming, Ray Squirrell, Glen McDonald, Stephen Pattison.

**2. Approval of the Agenda:** Moved C. Weiss/ D. Rogal to accept the Agenda. Carried.

**3. Minutes of 1985 AGM:** Approval of the minutes of the 1985 AGM. Distributed in the CCA Newsletter, Fall 1985. Moved M. Brown/Tom Poiker to approve. Carried.

### 4. REPORTS.

#### a. President.

i. Status of membership. As of December 1985, the CCA had 410 members, the first time over 400. Report tabled.

ii. CCA's role on the international level. The CCA has applied for Affiliate Status of the International Cartographic Association (ICA). At the initiation of Ed Kennedy, CIS President, the CIS has established an ICA committee, comprising representatives of ACML, Car-toQuebec, CISM, CCA and OICC.

Three committees have been struck:

1. Paper selection. CCA presiding (C. Wood chairman).
2. Canadian National Exhibition. ACML presiding, J. Thompson CCA rep.
3. Canadian National Report. CISM (Roger Defoe) presiding. N.N. CCA rep.

Call for papers deadline: Oct 1. 1986.

iii. Maintenance of membership list. L. Trepanier has withdrawn as chairperson. Some problems have shown, e.g., some members did not receive Newsletters and Cartographica. The Executive will effectively deal with the problem.

#### b. Vice-President's Report.

Participation in IG review.

Goal: to achieve closer ties with OICC (joint meeting proposed for 1988).

#### c. Past President's Report.

Constitutional amendment (see 7.).

**d. Treasurer's Report.**

Report distributed. Moved (D. Douglas/M. Rheault) to accept the treasurer's report. Carried.

Membership dues. Moved to maintain them at same level (D. Rogal/C. Weiss) Carried.

D.R.F. Taylor warns that there might be a reduction in the SSHRC support for the U of T Press.  
SSHRC Grant: Travel grant: \$4839.  
Admin. Grant: \$5804.

**e. Secretary's Report.**

- i. Administrative: Three minutes recorded.
- ii. Review of Interest Groups:  
Chaired a committee. Discussion published in the Newsletter.
- iii. AGM. Organised with much help.

**f. Education IG (J. Mersey).**

Continuing project: Compile teaching aids for cartography.  
NFB film.  
DRF Taylor suggests that the IG work closer with ICA Education Commission.

**g. Design IG (M. Gauthier).**

Emphasis was journalistic cartography. Special session and panel discussion organised.

**h. Map Use (R. Wheate).**

G. De Leuw's report on the role of IG chairpersons.

**i. Technology IG (D. Rogal).**

Goal: 1. to get the industry more involved.  
2. to get the "bench cartographer" more involved.  
Organised a panel discussion for AGM.

**j. History IG (G. Shields).**

Report filed.

**k. Automation (M. Goodchild)**

Chairperson not present.

**m. Publications.**

- i. Cartographica. New typewriter requested for Editor.
- ii. Newsletter. Moved (D. Douglas/J. Mersey) to change the name of the Newsletter. Defeated.

**5. Scholarship.**

Dr. Norman C. Nicholson Scholarship in Cartography.  
First competition in Spring 1987.

**6. President's Prize.**

List of winners filed.  
Paul Pugliese donates a prize of \$50.- for the best map design in the media.  
Stephen Pattison suggests the creation of a slide set of the prize maps.

**7. Constitutional Amendment.**

Considerable discussion ensued over the question as to when the ballots have to be received to be valid.

Motions by (T. Waugh/D. Douglas) and (T. Waugh/DRF Taylor).

Article IV, Section 2 (Methods of Nomination and Election of Officers), No. V, now reads:

- V. Marked ballots for the election of officers must be received by the Chairperson of the Nominating Committee 24 (twenty four) hours prior to the opening of the Business Meeting.

**8. Nominations Committee Report.**

President: Malcolm Brown.

Vice-President: Christopher Gold.

Secretary: Roger Wheate

Nominating Committee: Majella Gauthier, Tom Poiker, Charles Conway.

Interest Groups:

Map Use: Bob Packer

Automation: Margaret Sommerville

Map Design: Claudette LeBlanc.

Telling Committee: Michel Rheault, Alberta Auringer Wood, Mark Stirling.

**9. 12th Annual General Meeting in Quebec City, early May.****10. Any Other Business.**

a. Definitions.

iv. Moved (T. Poiker/M. Rheault)

"To direct the Executive to develop a definition of Geographic Information Systems and send them on to every member of the Executive of the ICA and the Automation Commission of the ICA by the first of August 1986 for further consideration."

Carried.

v. Moved (T. Poiker/A. Wood)

"To direct the Executive to develop a definition of Computer Mapping and send it on to every member of the Executive of the ICA and the Automation Commission of the ICA by the first of August 1986 for further consideration."

Carried.

vi. Moved (T. Poiker/C. Weiss)

"To direct the Executive to develop a definition of Computer-Aided Cartography and send it on to every member of the Executive of the ICA and the Automation Commission of the ICA by the first of August 1986 for further consideration." Carried.

b. Student Cooperation.

Moved (S. Pattison/J. Mersey) That the AGM mandate the Executive to take special interest in communication with cartography students.

Carried.

**11. Adjourned at 13.12 pm.**

## LA CARTOGRAPHIE JOURNALISTIQUE

Bref compte-rendu des activités  
tenues lors de la réunion annuelle  
de l'Association canadienne de cartographie

par

**Majella-J. GAUTHIER**

(Professeur à l'Université du Québec à Chicoutimi)

L'un des thèmes privilégiés lors de la dernière réunion de l'Association canadienne de cartographie, tenue à l'Université Simon Fraser (Burnaby, Colombie-Britannique) en juillet 1986, fut la cartographie journalistique. Les activités ont pris deux formes; une séance d'exposés et une table ronde.

Il y a eu en tout huit communications: Jean-Daniel GRONOFF, graphicien au Centre d'analyse et de mathématiques sociales à Marseille a fait part d' "Une approche théorique du savoir-faire graphique: étude de quelques cartes publiées par le Magazine Newsweek International". On a pu connaître les résultats de l'analyse des cartes dans les médias britanniques faite par le Professeur W.G.V. BALCHIN de l'Université de Swansea au Royaume-Uni bien qu'il n'ait pu être présent, - son texte portait sur: "The Media Map Watch in United Kingdom". Pour sa part, Serge BONIN, directeur du Laboratoire de Graphique à Paris a présenté "Un bilan des images graphiques dans la presse française (1980-1986)". La Professeure Patricia GILMARTIN de l'Université South Carolina (Columbia) s'est intéressée à la mémorisation des cartes dans les journaux avec une communication portant le titre suivant: "The Recall of Journalistic Maps and other Geographics". En guise d'introduction à la séance le Professeure Majella-J. GAUTHIER a fait un exposé sur "Les cartes et les diagrammes dans les médias: réflexions générales et quelques exemples procédant de la graphique".

Harold H. ABER, directeur de la cartographie à la National Geographic Society s'est posé la question suivante: "Can Cartography be Sexy?: New Directions in Magazine Cartography at the National Geographic Society". Ib OHLSON, chef-cartographe à Newsweek Magazine, n'as pas hésité à procéder à "A Critical Survey of Maps in Newsweek Magazine". Et, Paul PUGLIESE, chef-cartographe à Time Magazine, a présenté la manière de concevoir et de dessiner les "Maps for Time Magazine".

La table ronde avait pour objectif d'établir des échanges et des liens entre le milieu académique (BONIN, GAUTHIER, GILMARTIN et GRONOFF) et le monde des praticiens dont faisaient partie P. PUGLIESE de même que Roger BLACK, chef-designer au Newsweek Magazine, et Stephen HUME, rédacteur au Edmonton Journal. Les discussions ont porté autant sur le fondement de la conception des cartes, les contraintes graphiques liées à la production des cartes, l'utilisation de l'ordinateur que sur la méconnaissance des effets des cartes sur les lecteurs. Les participants et les membres présents ont semblé apprécier ces activités et ont émis le vœux de continuer à s'intéresser à la question que ce soit pour des questions théoriques et/ou pratiques.

Il est notamment question que les textes des exposés et des discussions à la table ronde soient publiés au cours de l'année. Soyez vigilants lors de la lecture du prochain **Newsletter**.



Apparaissent sur cette photo de gauche à droite, première rangée:

- Roger BLACK, chef-designer au Newsweek Magazine,
- Stephen HUME, rédacteur au Edmonton Journal, Alberta,
- Patricia GILMARTIN, professeur de géographie, University of South Carolina, Columbia,
- Serge BONIN, chef du Laboratoire de graphique, Paris;

Deuxième rangée:

- Harold H. ABER, chef-cartographe au National Geographic Magazine,
- Majella-J. GAUTHIER, Professeur de géographie, Université du Québec à Chicoutimi,
- Paul Pugliese, chef-cartographe au Time Magazine,
- Jean-Daniel GRONOFF, chef du Centre d'analyse et de mathématique sociales, Marseille,
- Alb OHLSON, chef-cartographe au Newsweek Magazine.

## NEWS FROM UNIVERSITY OF NEW BRUNSWICK

Prof. Angus Hamilton retired as Chairman of the Surveying Engineering Department of UNB in June of 1985 after having very successfully chaired the Department for 14 years. He was succeeded by Dr. John McLaughlin. Professor McLaughlin's specialty is cadastral studies and land information management. He has worked in his field throughout North America, Brazil, Columbia, South Africa, The Middle East, Australia, and Thailand on assignment with the World Bank and Canadian consulting engineering companies. In 1985 Dr. McLaughlin received from the ACSM, the prestigious Fennel Award for his outstanding contributions in the field of surveying education.

The enrollment in the surveying engineering program stands at 150 undergraduate and 61 graduate students from all parts of the world.

Financial support for the department's extensive research program totals approximately \$1 million from grants and contracts. This figure is supplemented by a very recent CIDA contract of \$236,578 to support a hydrographic surveying and charting curriculum project in Indonesia.

The SE department participates in a three-year project "Analytical geographic information tools for natural resource and fire management in the northern boreal forest" by establishing a digital data base.

"Landnet" is another major project aiming at prototype land information network for NB. The project is financed by the province of New Brunswick and NSERC.

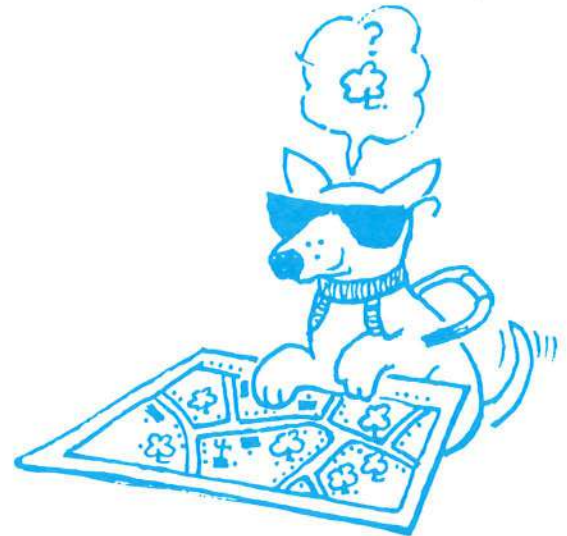
The CARIS digital mapping system, which also has geographic information capabilities, continues to find increasing acceptance. A number of systems will be installed in Canada and abroad in 1986. CARIS is now being marketed on the VAX and microVAX series of computers. This system is being developed by Dr. S.E. Masry, a faculty member of the Surveying Engineering Department.

In 1980 the SE Department initiated a "Hydrographic Surveying" option. Recently the International Hydrographic Organization (IHO) and the International Federation of Surveying (FIG) accredited UNB's program. So far, on a world wide basis, only seven national hydrographic offices and two specialized marine educational institutes have been accredited. UNB's hydrographic option will, as of January 1986 be supplemented by a course in "Marine Cartography".

The SE department also has a formal agreement with China's "Technical University of Surveying and Mapping" in Wuhan to exchange faculty and students. A number of Chinese Scholars and graduate students are (or have been) at UNB while, so far, five SE professors have given a total of about 170 lectures in Wuhan and elsewhere in China. Three more professors are to lecture in China in 1986.

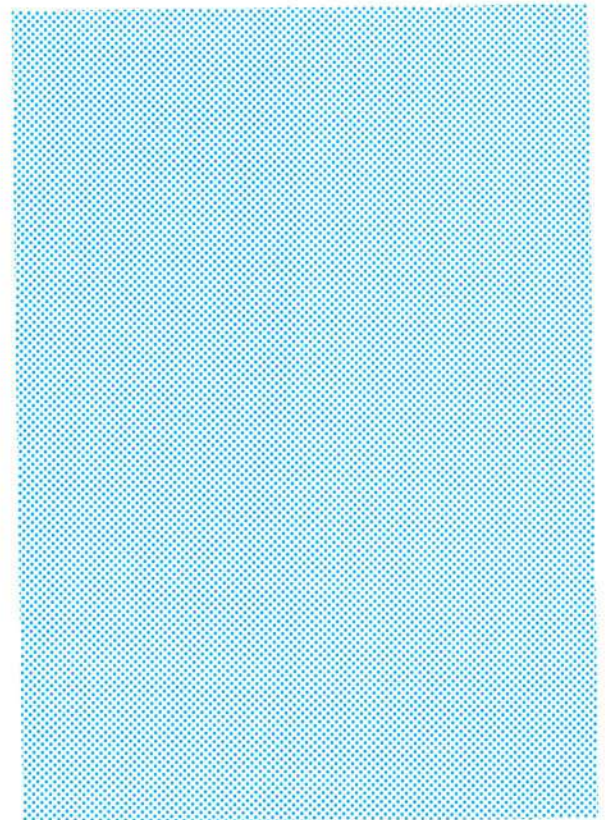
At present, cartographic courses being offered as part of the Surveying Engineering curriculum are as follows: Map Projections, Conformal Map Projections, Cartography I, Cartography II, Technical Photography, Marine Cartography, Urban Cartography, Digital Mapping I and Digital Mapping II. These courses are supplemented by a number of courses offered by the Computer Sciences Department.

(contributed by Wilf Reedijk)



## 'Maps for the Blind'

(Reprinted from the SUC Bulletin)



Map design for voting patterns in Alberta.

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CANADIAN CARTOGRAPHIC ASSOCIATION

PRESIDENT'S PRIZE

# COMPETITION

1986-87

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Submissions are invited for the **1986-87** President's Prize competition. The competition is open to students of post-secondary institutions, and to persons occupying junior positions in places of employment where maps are made or used. The competition this year will be for awards in five general categories, each with a small monetary component, (i.e. in the order of \$50.00 each), and certificates which will be presented at the Quebec City Annual meeting. In the Monochromatic and Colour Map categories, awards will be given both to the best submission from a technical institution and to the best submission from a degree-granting university.

## The categories of award are:

1. **Monochromatic Map (Formal or journalistic style):** A printed map in black and white suitable as an accompaniment with a submission to a learned academic journal, with a brief written description (i.e. less than 500 words) stating the purpose of the map. Emphasis in this category will be placed on innovation with respect to subject selection and interpretation, symbolization and graphic design.
2. **Printed Map in Colour (or taken to the proof stage):** submitted with a brief written description (i.e. less than 500 words) stating the design objectives of the map. Emphasis in this category will be placed on excellence of execution and fulfillment of stated design objectives.
3. **Formal Written Paper:** on any theoretical, administrative or practical topic related to cartography. The paper of approximately 2000 words should be submitted in the style and format required by CARTOGRAPHICA.
4. **Computer Algorithm (specific to a cartographic problem):** submitted in code form in any language along a brief description and evidence of operation.
5. **Best Map Design in the Media (Prize will be raised from U.S. \$50 to \$100 if there are more than 30 Canadian entries).**

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Submissions must reach Malcolm H. Brown, President, CCA, Dept. of Surveying Engineering, University of New Brunswick, Fredericton, N.B., E3B 5A3, on or before **15 May 1987**. Membership in the CCA is not required.

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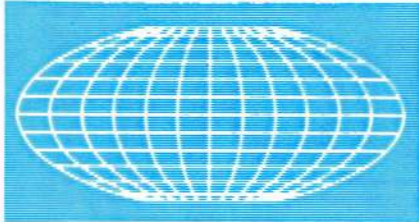
## UPCOMING EVENTS

**30 Mar 87 – 2 Apr 87, BALTIMORE-MARYLAND,**  
 AUTO CARTO 8 New Foundations, Contact: Nicholas  
 Chrisman, 3809 Nakoma Rd., Madison WI 53711  
 U.S.A.

## O.I.C.C.

### CARTOTECHNIQUES VII

'CARTOGRAPHY IN NATURAL RESOURCE DEVELOPMENT'



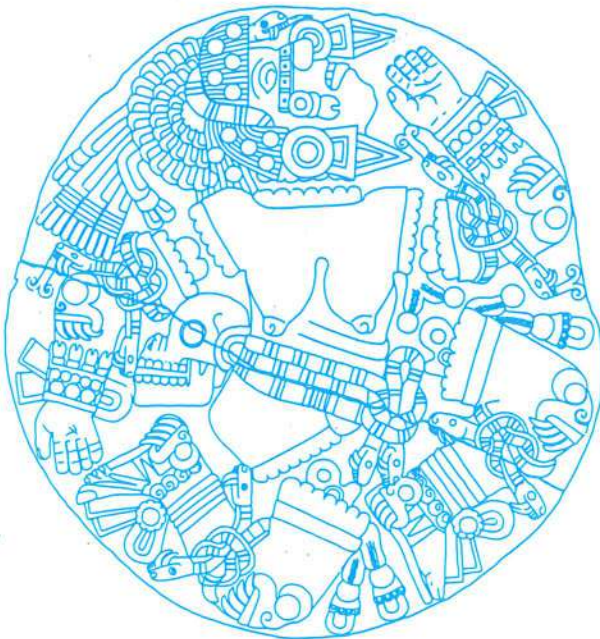
May 27-28, 1987

Sir Sandford Fleming College  
 School of Natural Resources  
 Lindsay, Ontario

for further information contact:  
 Bryan Monette, C. C.  
 Agriculture Canada  
 Land Resource Research Centre  
 K. W. Neatby Bldg., Room B-83  
 Ottawa, Ontario K1A 0C6  
 (613) 995-5011

**12 Oct 87 – 21 Oct 87, MORELIA, MEXIQUE** Association  
 cartographique Internationale, 8e ASSEMBLE  
 GENERALE et 13e CONFERENCE INTER-  
 NATIONALE. Contact: 13 I.C.A. Conference, Apdo.  
 Post. 25-549 C.P. 03400, Mexique D.F., Mexique.

## ASSOCIATION CARTOGRAPHIQUE INTERNATIONALE



## INTERNATIONAL CARTOGRAPHIC ASSOCIATION



8<sup>e</sup> ASSEMBLE GENERALE  
 13<sup>e</sup> CONFERENCE INTERNATIONALE  
 Morelia, MEXIQUE, 1987.



ICA - ACI

May 4-8, 1987, Quebec City,

Annual meeting ,CCA/Carto-Quebec.

(see next page)

## POSITION AVAILABLE: ASSISTANT PROFESSOR

New York, State University of New York at Binghamton.  
 Assistant Professor, tenured track, beginning August,  
 1987, salary \$25,000-\$26,000. We are seeking candi-  
 dates with primary teaching and research interests in  
 Cartography. Secondary interests in geographical infor-  
 mation systems and urban geography are preferable  
 but other interests will also be considered. This position  
 offers an excellent opportunity to interact within an ap-  
 plied and theoretical environment at a university re-  
 search center.

PhD required by August, 1987. Deadline for receiving  
 all application materials, including three letters of re-  
 commendation is December 31, 1986. Apply to Search  
 Committee, Department of Geography, SA-227, SUNY-  
 Binghamton, Binghamton, New York 13901. SUNY-  
 Binghamton is an affirmative-action, equal opportunity  
 employer. Telephone: 607-777-2755

## POSITION AVAILABLE: ASSISTANT PROFESSOR

Tenure track position starting September, 1987. PH.D.  
 in hand or imminent. Research specialty may include  
 either (a) any field of Physical Geography other than  
 Geomorphology, or (b) natural resources/environmental  
 management and policy. Must be able to teach an  
 upper division course in weather and climate and lower  
 division world regional geography or introduction to  
 geography. A candidate is sought with strong potential  
 for research productivity. Candidates should submit a  
 letter of application, a current vita, and have three letters  
 of reference sent by 5 January, 1987.

UMBC is an affirmative action/equal opportunity em-  
 ployer, and women and minorities are encouraged to  
 apply.

Send application materials to:  
 Roger N. Dubois  
 Chair, Search Committee  
 Department of Geography  
 University of Maryland Baltimore County  
 Baltimore, MD 21228  
 Telephone (301) 455-3152

# CALL FOR PAPERS

ANNUAL MEETING OF THE CANADIAN CARTOGRAPHIC ASSOCIATION  
**Quebec City**  
MAY 4 — 8, 1987

(To be held in conjunction with Carto — Quebec)

Special theme : Computer—assisted Cartography

- (i) Urban Geographic Data
- (ii) Geographic Information Systems
- (iii) Spatial and Urban Information Systems

PROVISIONAL SCHEDULE:

- MAY 4 : GUIDED TOURS
- MAY 5 : WORKSHOPS
- MAY 6 : PAPER SESSIONS
- MAY 7 : PAPER SESSIONS
- MAY 8 : PAPER SESSIONS

SUBMIT ABSTRACTS TO: DR. M.RHEAULT,  
DEPARTEMENT DE GEOGRAPHIE,  
UNIVERSITE DE SHERBROOKE,  
SHERBROOKE, QUEBEC  
J1K 2R1

Abstracts will be printed in the March Newsletter.

Simultaneous translation will be provided for both english and french.

Accomodation will be available at Laval University for \$28 per person

# ICA NEWSLETTER



EDITORS: *R.W. Anson / Oxford Polytechnic / Oxford OX3 0BP / United Kingdom*  
*B.V. Gutsell / Winters College, York University / Downsview M3J 1P3 / Canada*

Number 8, October 1986

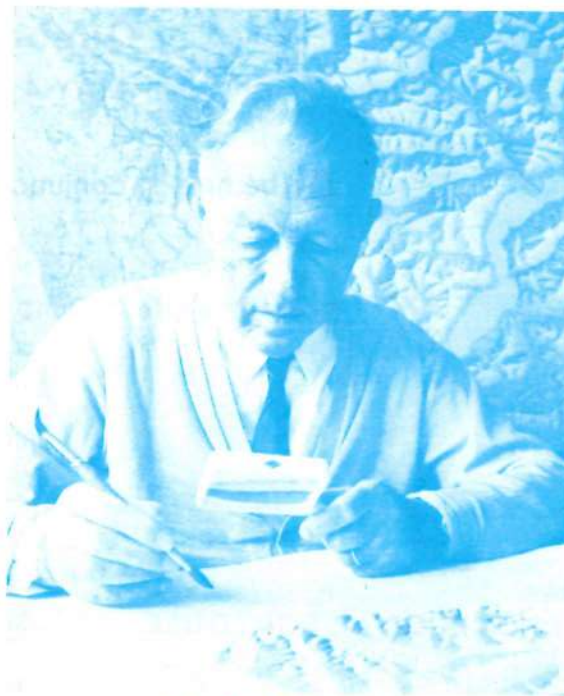
## **In Memory of Eduard Imhof 1895–1986**

By the death of Professor Eduard Imhof on 27 April 1986 in his house at Erlenbach, Switzerland, the international cartographic community lost its nestor, who, by his artistic talents, his intellectual faculties and his warm personality has enriched and strengthened it in an extra-ordinary way. Since the middle 1950s, together with Swedish initiator Dr. Mannerfelt and other colleagues, he took part in a discussion on the possibilities of the foundation of an international cartographic association, a conception which particularly in neighbour disciplines did not meet with general approval. Gradually Imhof's part in this fermentation process became stronger, to become almost decisive towards the conclusion of the negotiations.

In his youth, when mountaineering with his father, Imhof had learned to overcome the natural obstacles of his alpine environment. His perseverance in surmounting difficulties may be illustrated by the fact that he found 14 different approaches to the summit of the Schesaplana (2964 m), north of his native town of Schiers, Graubünden. These essential qualities helped Imhof, who was already widely known for his publications, maps and atlases, to prepare the way for a definite decision to establish the association.

The International Cartographic Association was founded in 1959 in Berne, Switzerland and Imhof was elected its first President. Two years later in Paris at the first General Assembly he cordially welcomed the first group of member countries into the new association. The group also included representatives of neighbour disciplines, geography and photogrammetry, who were convinced by then that cartography proper had its own identity. Grateful for all his efforts and action, in 1980 the Association awarded him its highest distinction, the Carl Mannerfelt Medal. Possibly, there might never have been an international cartographic association without Mannerfelt's initiative and diplomacy and Imhof's scientific prestige and perseverance.

It turned out that Imhof, used to the unobstructed vista of his alpine world, had assessed the future correctly. The foundation of the ICA took place at the right time and met with extra-ordinary response. Within 15 years more than 60 member countries had joined the young association. Its biennial conferences and many commission meetings provided cartography with an international discussion forum which to no less degree contributed to the upgrading of the profession as a whole and greatly benefitted individual cartographers, their identity and their pleasure in their work.



*Eduard Imhof 1895–1986*

In the course of the 1970s, Imhof gradually pulled back from the ICA to devote himself with his impressive creative power to other tasks. His successors have tried to consolidate and extend the Association while maintaining the Imhofian principles that give map design and construction a central place in cartography. This task has not always been easy with the tempestuous arrival and development of the computer. In the administrative field, the ICA after 25 years is moving into details within the framework constructed by Imhof and his contemporaries. A remarkable example of foresight!

Now that the unavoidable has happened and a sad silence reigns. Nothing else is left to our Association, whose President Dr. J. L. Morrison I here represent, than to bid farewell to the old master, its founder and first President, and to wish his wife Mrs Viola Imhof, who so many times accompanied her husband to ICA meetings and who rejoiced with us in the flourishing of the Association, courage and strength. The voice of her husband will never more be heard in the cartographic symphony. By his spiritual products, his articles, books, maps, atlases, drawings and paintings, however, he will continue to inhabit the scene of our action. With the remembrance of his driving force, his broad range of talents and interests

and his warm personality, we remain gratefully indebted to him.

F.J. Ormeling Sr./ 2 May 1986

*Text of an address of condolence presented by F.J. Ormeling Sr., Vice-President of ICA, at the memorial service in Erlenbach. It is translated from the original address.*

### Reports of ICA Commissions & Working Groups

#### COMMISSION ON THE HISTORY OF CARTOGRAPHY

The meeting at Prague was attended by seven members and three invited persons. The Chairman reported that the book *Cartographical Innovations. An International Handbook of Mapping Terms to 1900*, to be published by the Map Collector (1982) Ltd., was in the final stages at the press, and that publication was expected in December 1986. Investigations of the possibility of preparing translations would follow publication.

#### New projects approved in 1984

Questionnaires had been circulated as a preliminary to the preparation of the international dictionary of cartographers 1450 to the mid-twentieth century. A report would be presented at the ICA meeting in Morelia, Mexico, October 1987. A second questionnaire sought to identify individuals recommended on a national basis as subjects for providing personal reflections in the developing history of the twentieth century cartography. Members are asked to obtain written and audiovisual reports for presentation by the Commission at the Mexico conference. It was also proposed to take advantage of the conference itself to make recorded interviews and thus build up an ICA Archive.

#### Proposals for future projects

The three further projects proposed in 1985 (see *ICA Newsletter No. 6* p. 3) were discussed with the Executive Committee and approved by Commission members for further investigation and development, with a view to their submission to the General Assembly in October 1987. Richard I. Ruggles, project manager of the investigation on the teaching of the history of cartography, would be sending out questionnaires to ascertain the state of current practice. The project for the history of non-conventional cartographic systems (e.g., maps of non-literate cultures), manager Wolfgang Scharfe, was in the first stages of formulation. Cartochronology manager Tony Campbell, in liaison with Helen Wallis, had received a favourable response from at least thirty volunteer contributors. A feasibility study had been set up to investigate the possibilities of automation and a newsletter would shortly be circulated. These projects were all fully discussed with the Executive Committee.

The following professional papers were presented at the Commission Meeting:

- 1 L. Mucha (Czechoslovakia) "The development of the study of the history of cartography in Bohemia and Moravia;"
- 2 O. Kudrnouska (Czechoslovakia) "The Czech cartographer Professor Karel Koristka;"
- 3 E. Schnayder (Poland) "On the second edition of the Russian map of Poland and Moldavia by Ivan Truskot;"

- 4 R. Habel (German Democratic Republic) "The Cartographic Museum in Gotha."

The third meeting of the Commission is arranged for 7 September 1987 in Paris as an open session at the 12th International Conference on the History of Cartography. The fourth will be held at the 13th ICA Conference, Morelia, Mexico, 12-20 October 1987.

The Paris meeting follows the well-established tradition of sessions held at the International Conferences on the History of Cartography, an independent organization. It is an indication of the cordial liaison between the ICA Commission and kindred bodies in the field of international societies for the history of cartography.

Finally, the Chairman reports that Taisto Saarentaus (Finland), on his retirement, has been succeeded in August 1986 by Mrs. Leena Miekkaavaara and that Milan V. Drapela (Czechoslovakia) has joined the Commission as a corresponding member.  
*Helen Wallis / 2 October 1986*

#### ACTIVITIES OF THE COMMISSION ON EDUCATION AND TRAINING

In 1984 the 7th General Assembly of ICA established the Standing Commission on Education and Cartography (CET) with the following terms of reference: For 1984-87: To produce an *Exercise Manual* to accompany the *ICA Basic Cartography for Students and Technicians*. For the Long Term: To conceptualize, design and assist in the implementation of workshops and seminars for the purpose of technology transfer, integration and updating. The CET met at Lynaes Fort, Denmark in August 1985 and in Praha, CSSR in September 1986. A third meeting has been scheduled to be held in Munich, March 16-21, 1987.

Although work on the *Exercise Manual* is running behind the schedule set by CET in 1985, we still expect to have the *Manual* completed and published by the time of the Morelia meeting. The *Manual* will be bound in a ring binder or inexpensive plastic or wire binding. Plans call for 2000 copies of the *Exercise Manual* to be assembled from exercises printed at no cost to ICA.

To address the long term of reference, three initiatives have been undertaken. One of these initiatives is to establish working linkages between CET and the other ICA commissions and working groups for the purpose of insuring the relevancy of CET programmatic activities. A second initiative was the inquiry form sent out by CET to 63 ICA member countries at the end of 1985 seeking information about their cartographic education and training needs. As of August 1986, 61 responses had been received from 16 countries. Countries and organizations that have not yet responded are encouraged to do so. The third initiative is the arrangement by CET of a Special Session on the Teaching of Cartography for the forthcoming Morelia meeting. This session will include papers from all of the standing commissions and several of the ad hoc commissions and working groups.

Issue No. 7 (May 1986) of the *ICA Newsletter* carried a notice of the Seminar on Advanced Cartographic

Education and Training (SACET) to be held at Wuhan Technical University of Surveying and Mapping (WTUSM) at Wuhan, People's Republic of China from 28 April to 10 May 1986. SACET was held as scheduled and attracted nearly 160 participants from all over China. The seminar was sponsored by ICA, the Chinese Society of Geodesy, Photogrammetry and Cartography, the Hubei Association for Science and Technology, the National Bureau of Surveying and Mapping, and WTUSM.

The seminar program was organized by CET together with Professor Hu Yuju of WTUSM. A total of 19 speakers presented 37 lectures and one report. Lecturers from outside of PRC included: Dr. J.L. Morrison (USA), Mr. D.T. Pearce (Australia), Dr. K.-H. Meine (FRG), Prof. R.E. Dahlberg (USA), Prof. Dr. F.J. Ormeling Jr. (Netherlands), Mr. J.-P. Grelot (France), Dr. E.P. Arzhanov (USSR), and Mr. K. Kanazawa (Japan). The Chinese lecture team included: Prof. Hu Yuju, Prof. Gao Jun, Prof. Zhang Kequan, Prof. Liao Ke, Prof. Lin Yue, Mr. Zhang Qingpu, Mr. Jin Yingchun, Mr. Wu Hehai, Mr. Du Daosheng, Mr. Zhu Guorui, and Mr. Huang Rentao. All papers presented were published in Chinese in the *SACET Collected Works*, Vols. 1-3, Wuhan, China 28 April - 10 May 1986.

As part of the seminar program the SACET Organizing Committee arranged an exhibition of new cartographic works and literature. The exhibits included various kinds of books, magazines, maps, atlases, globes and plastic models. Of special interest to CET members present were the examples of map exercises and various county and provincial atlases produced as WTUSM class projects. A full report of SACET was presented by Prof. Hu Yuju at the International Cartographic Symposium, Prague, September 24-25, 1986.

*R.E. Dahlberg / 6 October 1986*

#### INQUIRY FORM FROM THE ICA STANDING COMMISSION ON EDUCATION AND TRAINING IN CARTOGRAPHY.

In December 1985 an inquiry form was mailed to the 63 member nations of ICA to provide an easy means to advise the ICA about its cartographic education and training needs. By August, a total of 61 responses from 16 countries had been received: The distribution of responses follows: Argentina (1 reply); Australia (7); Hong Kong (1); Indonesia (1); Iran (1); Japan (32); Korea (1); Netherlands (1); Nigeria (1); Norway (1); Portugal (1); South Africa (8); Switzerland (2); Syria (1); Thailand (1); and Tunisia (1).

The task of identifying education and training needs is an especially complex one during the current period of technological transition. To provide the broad information base needed to guide planning for the ICA seminar Program on Cartographic Education and Training, the Standing Commission on Education and Training encourages one or more responses from each member nation. If your nation has not yet responded, you are urged to use the inquiry form included with this Newsletter. You are encouraged to reproduce this form and distribute it to key organizations and institutions having in-

terests in cartography and related mapping sciences.  
*Richard E. Dahlberg / 6 October 1986*

#### COMMISSION ON MAP PRODUCTION TECHNOLOGY

The Commission reports that progress is now being made on the two technical reports under its terms of reference: *Technical Report 1984-87* and *Report on Proven Computer Technology 1987*. Jon Kimerling (USA) and Bruno Pasquier (France) are gathering information for these two reports.

The project *Compendium of Cartographic Technology*, headed by James Curran (Canada) is making considerable progress. The text for 76 subjects is complete; the text for the remaining 18 subjects is in preparation. For the illustrations, 43 drawings are completed, leaving 89 drawings still to be prepared together with 128 photographs. It is anticipated that the work will be completed in 1987.

Progress is also being made on three other works by the Commission: *Colour Proofing Systems*; *Control of Map Production*; and *Twenty-four Language Dictionary of European Topographic Terms and Abbreviations*.

The Commission is confident that its terms of reference will be completed prior to Morelia in 1987.  
*Kjeld Burmester / 16 September 1986*

#### ICA/IGU JOINT WORKING GROUP

##### *World Digital Database for Environmental Science*

Previous ICA Newsletters have described earlier activities on this project. The third workshop-meeting of this group was held on 14-17 July 1986 at the World Meteorological Organisation (WMO) in Geneva. The meeting was sponsored by the United Nations Environment Programme (UNEP) and in particular by their Global Resources Information Database (GRID); it was attended by 27 scientists from 14 different countries, and included Dr. Baker, the Executive Secretary of ICSU, and representatives from World Bank, Food and Agriculture Organisation, International Society of Soil Science, as well as from UNEP and WMO. ICA was represented by Prof. Rhind and IGU by Prof. Brown (Chairman British National Committee for Geography).

The prime purpose of the workshop was to review support for the global database project (providing relief, river patterns, coastlines, bathymetry, and statistical boundaries, as far as possible at 1/M scale). This was seen as an important contributory element to the *International Geosphere/Biosphere Programme* (IGBP) which ICSU are planning. The need for such a database by 1990 had been noted by CODATA who believed that its existence should discourage the use of different scientific disciplines of a plethora of uncoordinated alternatives. It should also provide a necessary digital topo base for the 1/M global soils map which was to be undertaken by ISSS.

The second purpose of the workshop was to discuss the pilot studies that had been undertaken in areas in Kenya and in Sumatra. These studies had been based on digitising sheets of the 1/M Operational Navigational Charts that exist as a current worldwide series, publicly available, and undertaken by the US Defence Mapping Agency in col-

laboration with e.g., Directorate of Military Survey. Separations of these maps could be made available for digitising. They would require supplementing for oceanic areas from e.g., the 1/10M GEBCO series and from the gridded bathymetric data set (DBDB5) at 5' intervals issued by the US Navy via World Data Centers. It was agreed that, while the source materials were not everywhere ideal, they were the best that might be practically available and that digital data derived from them should be tagged with reliability codings based, initially at least, on a subjective 4 or 5 level coding. Remote sensed imagery was likely to be helpful for updating but did not at its present state of development constitute a source of global relief data. Recent map contributions (e.g., at 1/1M scale) from ICA member countries would be of real benefit.

Tapes of the pilot areas had been prepared by a Geneva-based firm, *Petroconsultants*, at their Cambridge offices and had been distributed for comment to some 10 academic or government organizations in Europe and North America with facilities for handling such data, and, in particular, for translating it into digital terrain models. In general, reactions to the standard of the data had been very positive. No problems in reading the data tapes had been experienced but the modelling exercises had not in all cases been completed and assessed. It was decided that a full *geotechnical feasibility study* would be prepared before the end of 1986 and would be an important part of the Working Group's report (and e.g., available for comment and discussion at the ICA Assembly in Mexico in 1987).

The issue of funding the project was also discussed. Dr. Baker noted that neither IGU nor ICA seemed likely to have immediate access to money running into some millions of dollars which this scheme required: the same situation was in general true of other elements of IGBP and appeals to foundations, world organizations and national governments would doubtless be necessary. He also emphasized that in principle ICSU had no objection to some combined fund-raising scheme with a commercial organization and to the actual selling of the data. *Petroconsultants* indicated their desire to be helpful in this context, especially since they had now completed their *Mundocart* – a digital version of some of the elements of the ONC maps (but not so far of land contours or bathymetry). This activity had in the past been supported by the petroleum industry, which currently was in a state of depression. They were, however, willing to undertake a serious sales feasibility study over the ensuing six months and in collaboration with ICSU.

It was agreed that a clearer view of the financial viability of the entire project – coupled with reasonable assessments of its initial costs – might now be made. A report on this, linked with the geotechnical study, should be ready for discussion at a 4th Workshop, probably in the UK, in April 1987: thereafter a submission to ICSU – via ICA and IGU – could be made for the project to proceed into a production phase or

to be abandoned.

David Bickmore / 30 September 1986

#### ICA/IFLA JOINT WORKING GROUP ON DOCUMENTATION IN CARTOGRAPHY

As reported in Newsletter No. 7, May 1986, the Joint Working Group has added to its terms of reference the further objective "to promote the inclusion of cartographic materials in current national bibliographies". In pursuit of this aim, the Group is undertaking an international survey of carto-bibliographical documentation. A memorandum and a questionnaire is being circulated to the national committees of ICA member countries, to all members of the IFLA Geography and Map Libraries Section and to the directors of the national map collections as listed in the *World Directory of Map Collections*, Munich, K.G. Saur 1986. The results of the survey will be presented at the 53rd IFLA Conference to be held in Brighton, United Kingdom in August 1987, and at the 13th ICA International Conference, Morelia 1987.

It is also reported that in the *ISBN Users' Manual*, Berlin 1986 pp. 8–9 on "The Scope of the ISBN", maps are listed among the items to be included in the International Standard Book Number (ISBN) system. A note explains that "It has been agreed not to draft international rules for assigning ISBN to maps because there is evidence that the system works quite well on a national basis. The following general rules should be observed:

- For cartographic products sold in the book market, the ISBN rules apply;
- As with books, minor alterations do not constitute a new edition. Only if this version is especially mentioned in the title or in sales promotion, a new ISBN has to be used."

The chairmen, J. Neumann (ICA) and E.H. van de Waal (IFLA), together with Helen Wallis met at Utrecht on 14 September after the Coronelli International Symposium, Amsterdam. A meeting to present a progress report was organized for 11 October 1986 after the LIBER conference in Vienna, Austria.  
J. Neumann / 30 September 1986

#### AD-HOC COMMISSION ON URBAN CARTOGRAPHY

The Commission held its 5th meeting in Tokyo March 27-April 1, 1986. Vice-President Prof. Hu Yuju, Auditor Mr. Masayoshi Takasaki, and many members and corresponding members assembled, including 12 foreign participants. The Japan Map Center (venue), the Geographical Survey Institute, the Japan Cartographers Association, the Japan Housing and Urban Development Corporation, and many other institutions and map companies fully cooperated in making this meeting very fruitful and pleasant. 14 papers were presented including *A Bibliography of Urban Cartography* edited by our German members which has also appeared as the Commission Report No. 3. Excursions were made to Central Tokyo, Odawara Castle-town with Mt. Hakone, Tsukuba Science City, and a few other places. The meeting noticed the necessity of systematic/compre-

The Seminar was held at the Wuhan Technical University of Surveying and Mapping; a total of 36 lectures was presented, 24 of which were by members of the ICA team. Approximately 150 persons attended.

Members of the lecture team were as follows: Dr. Joel Morrison (USA); Mr. Donald Pearce (Australia); Dr. Karl-Heinz Meine (FRG); Dr. Richard Dahlberg (USA); Dr. Ferjan Ormeling Jr. (Netherlands); M. Jean-Philippe Grelot (France). Three additional lectures were given, two by Dr. E. P. Arzanhov (USSR), and one by Mr. Kai Kanazawa (Japan).

Prior to the opening ceremony, Professor Madame Liang Shu Fen, Vice-Governor of the Province of Hubei, and other government officials met with the ICA guest lecturers and extended a warm welcome to China and expressed appreciation for the opportunity to exchange technical knowledge and to learn more about each other's culture.

At the opening ceremony, the Chairman Professor Hu Yuju welcomed the guests and the participants; other speakers, Yu Cang, Vice-President and Secretary General of CSGPC, Dr. J. Morrison, ICA President, Zhang Guanghao, Vice-Chairman of HAST, Dr. K-H. Meine, Chairman ICA Education Commission, and Dr. Zhou Zhongmo, President of WTUSM, all emphasized the importance and value of such seminars and hoped that information and understanding about cartography would be extended.

The theme of the Seminar was to highlight the need for continuing and higher education both in traditional and computer-assisted cartography and to look at teaching methods for the future.

The translation into Chinese was undertaken by cartography students who managed the difficult job very well despite the variety of accents and the fact that many of the talks were supported with slides and video presentations.

The lecture team and the hosts agreed that the purpose of the Seminar had been achieved and many contacts were made for the future. The Seminar was supported by an Exhibition of maps and books; visits were made to the various departments of the University. All internal arrangements were handled by the Foreign Affairs Office of the WTUSM. The lecture team was treated to wonderful hospitality and had many opportunities to experience the culture and lifestyle of the Chinese people.

Donald Pearce / May 1986

#### THE EURO-CARTO V SEMINAR

The Euro-Carto v seminar was organized by the ICA Ad-hoc Commission on Thematic Mapping from Satellite Imagery with the assistance of the Institut Géographique National (IGN) and the French Committee for Cartography (CFC) and was held on IGN-F premises at Saint-Mandé, 27-29 May 1986.

Opened by David Rhind, ICA Vice-President and closed by David Bickmore, founder of the Euro-Carto series, the meeting was attended by 85 participants including 45 from 21 countries outside France.

The technical program, completed by a visit to the IGN-F, included 24 papers spread over five sessions, a

detailed report of which will be published in the *CFC Bulletin*. The program covered:

- a Mapping based on satellite imagery;
- b Land use;
- c Water, vegetation, natural resources;
- d Structuring of topographic data (round-table discussion with invited papers);
- e General mapping.

The main topic of the seminar was the cartographic expression of remote-sensing results: thematic mapping, but also topographic and general mapping either by using the entire group of data supplied by satellite imagery or by extracting particular groups of data such as water, forests or vegetation. Promising results have been obtained with high-resolution sensors (Landsat Thematic Mapper, SPOT), and images are now being used in the production and up-dating of normal map series and at the same time for preparing new map series with image backgrounds. In the latter domain, an effective combination for the image and the planimetric and topographic overprinting needs to be found.

In his closing remarks, David Bickmore recalled the initial objectives of the Euro-Carto series:

- 1 Concentration on precise subjects (normally one subject each day);
- 2 Limitation of audiences to 40-50 persons;
- 3 Distribution of texts to participants, or at least to the speakers, before the seminar in order to prepare for the discussion.

This last objective could not be realized for Euro-Carto v. However, detailed discussions took place and were combined with two joint meetings of the Thematic Mapping from Satellite Imagery Commission (ICA) which were held on 26 May afternoon and 29 May morning. It should be recalled that the Commission is preparing an international report on the applications of satellites to thematic mapping, a report which has to be ready for the ICA Conference in Morelia, October 1987.

Euro-Carto vi could be held in Brno (Czechoslovakia) in April 1987. It is to be hoped that the organizers will be able to receive contributions from authors sufficiently in advance in order to distribute them before the seminar and so meet the wish expressed by David Bickmore.

The *Proceedings* of Euro-Carto v should be available by November 1986 from the Comité Français de Cartographie at 39 ter, rue Gay-Lussac, F 75005 Paris, France: Price 110 FFR, postpaid.

J. Denègre / 23 July 1986

#### THE 18TH CONGRESS OF F.I.G.

The Congress was held in Toronto, Canada from 2 June to 11 June 1986 at the Sheraton Centre. The official opening ceremony was held at Roy Thomson Hall with 1500 persons in attendance; platform guests included:

- Dr. Joel Morrison, President, International Cartographic Association;
- Dr. Ivan Mueller, Vice-President, International Association of Geodesy;
- Dr. Gottfried Konecny, President, International

Society of Photogrammetry and Remote Sensing;  
Dr. Franklin Hart, Vice-President, International  
Society of Mine Surveying;

Mr. E. Kennedy, President, Canadian Institute of  
Surveying & Mapping;

Mr. Ray Moore, Director General, EMR Surveys &  
Mapping Branch;

Mr. S. MacPhee, Dominion Hydrographer and  
Director General, Canadian Hydrographic Ser-  
vice, Fisheries & Oceans;

Dr. Larkin Kerwin, President, National Research  
Council of Canada.

Dr. Kerwin's address gave the delegates an over-  
view of Canada, its culture, history, geography and  
its people. He concluded by welcoming the delegates  
to Canada and declaring the 18th Congress of FIG  
officially open.

The technical program opened on Monday after-  
noon with keynote addresses by the Hon. Vincent G.  
Kerrio, Ontario's Minister of Natural Resources, fol-  
lowed by the three Vice Presidents of FIG, Tom  
McCulloch, Ivan Katzarsky and Juha Talvitie. Tech-  
nical paper presentations began on Tuesday, and  
over a six-day period 207 presented papers and 89  
poster sessions were delivered in 91 working ses-  
sions totalling 137 hours. Three or four sessions were  
held concurrently each day, with simultaneous inter-  
pretation provided in English, French and German,  
the three official languages of FIG.

Five evening excursions scheduled for the dele-  
gates were attended by a total of 652 persons. One  
day was set aside for the delegates to see the survey  
and mapping capability of the host country. The  
Congress included an extensive Exhibit, with 66 ex-  
hibitors from 12 countries displaying the latest in  
Surveying, Hydrographic and Mapping equipment  
and systems. In addition there were national exhibits  
from 20 countries as well as 13 other non-commercial  
exhibits.

The closing banquet and ball was held on Tuesday  
10 June in the Grand Ballroom of the Sheraton Hotel  
and attended by 650 persons. After dinner, the even-  
ing was turned over to the delegates from Finland  
who used the occasion to promote the next Congress  
in 1990. The closing ceremony took place on  
Wednesday 11 June and concluded with a farewell  
address by Dr. Arthur Allan from the United King-  
dom who reminisced about some of the highlights of  
the Congress and thanked the Congress Organizing  
Committee and all the many volunteers for their  
efforts and their hospitality on behalf of all Congress  
participants.

*Bernard V. Gutsell / 10 October 1986 : from the official  
report by Congress Director Al Daykin*

#### AUTO CARTO LONDON 1986

Auto Carto London (ACL) was a Technical Confer-  
ence of the International Cartographic Association. It  
was designed to take stock of developments and  
applications of the new methods for the acquisition,  
management, presentation and use of spatially-  
related information. Held in Imperial College, Lon-  
don between 14 and 19 September, it attracted 1,000

delegates and a further unknown but very large  
number of visitors to the exhibition.

The *Auto-Carto* conferences began in the USA in  
1974 and have customarily been sponsored by the  
American Congress of Surveying and Mapping, the  
U.S. Bureau of Census, the U.S. Geological Survey  
(USGS) and other bodies. Whilst independently plan-  
ned and run, ACL adopted several of the principles  
embedded in those held in North America, notably  
contributions from those at different levels of sophis-  
tication. Particularly important innovations were,  
however, the explicit consideration of management  
issues - including costs and benefits - and severe  
restrictions on the time available to present papers so  
as to make available time for discussion. The success  
of the conference was underpinned by financial  
guarantees amounting to £100,000 from the UK gov-  
ernment and industry, and from the Royal Institu-  
tion of Chartered Surveyors. The result of all this was  
a highly international and multidisciplinary meeting:  
the participants came from 50 countries, including  
the Soviet Union and China, and included geog-  
raphers, cartographers, land surveyors, photogram-  
metrists, computer scientists, managers from the  
public and private sectors and students.

The conference was opened by the Rt. Hon.  
Richard Tracey MP, an Under Secretary in the De-  
partment of the Environment: this followed the  
promotion of intended guest of honour, Mrs. Angela  
Rumbold, from DOE to Minister of State at the Depart-  
ment of Education two days before the conference  
began! Following this opening, the keynote address  
was given by Dr. Joel Morrison of the USGS and Presi-  
dent of ICA. One hundred and fifteen 'long papers',  
twenty short papers and thirty poster presentations  
were given; the full text of the long papers and ab-  
stracts of the short ones were published prior to the  
conference. Session topics included overviews of  
national topographic mapping, land information  
systems, data generalization and filtering, data  
transfer standards, education and training, digital  
elevation models and data structures. The session on  
standards included the first presentation of the pro-  
posed British transfer standard for digital cartog-  
raphic and related data, prepared by a Working Party  
led by Ordnance Survey. The accompanying exhibi-  
tion included exhibits from 27 organizations, includ-  
ing - for the first time at such a meeting - ICL and  
Siemens as well as traditional exhibitors such as In-  
tergraph, Laserscan, SysScan, ESRI and GIMMS Ltd.:  
the sale price of the equipment and software on view  
amounted to several million pounds sterling.

Several prizes were awarded at the closing cere-  
mony. Two prizes for the best written papers were  
donated by Survey & General Instruments Ltd.: that  
for the best technical paper was won by Kleiner and  
Brassel (Switzerland) and that for the best applica-  
tions paper by Williamson (Australia). The SysScan  
prize for the best presentation was won by M. de  
Simone (UK) and the Moss Systems prize for the most  
controversial contribution to the conference was  
won by N. Chrisman (USA).

*Proceedings, Auto Carto London, M.J. Blakemore ed.*

1986, are available from RICS, 1 Great George Street, London SW1, United Kingdom. Price £40.  
London / 24 October 1986

#### INTERNATIONAL CONFERENCE ON SCHOOL ATLASES

A three-day conference on school atlases was held in the Faculty of Education, University of Calgary, 29 May to 31 May, 1986. The Social Science and Humanities Research Council of Canada, The Canadian Cartographic Association and the Faculty of Education, University of Calgary provided financial support.

Keynote addresses were given by Dr Bert Sandford (UK) who provided an overview of the historical development of atlases, and Dr. Barbara Bartz Petchenik (USA) who criticized flawed maps and charts of present-day atlases.

Papers given Friday morning included: one on perception and children's atlases by Dr. Randhawa of the University of Saskatchewan; communications theory and the design of children's atlases by Bill Winn, University of Washington; a new role for school atlases involving education through mapping by Henry Castner, Queen's University; and a paper discussing the educational merits of mapping strategies by Professor Carrière.

The Friday afternoon session included Dennis Wood with a discussion of narrative atlases which combine text and visuals; Lillian Wonders discussing atlas design principles and Gary Whiteford on determining the need for a school atlas in the maritime provinces.

The final day began with a paper by Yves Tessier and Louise Marcotte on applied research and instructional atlas design, followed by Ron Carswell and Gary de Leeuw discussing the match between the formal school curriculum and the design content of children's atlases. The final paper of the day by Nigel Waters and Gary de Leeuw dealt with the possibility of computer based atlases complementing existing printed atlases. The conference concluded with an afternoon of small group discussions.

It is planned to publish revised or rewritten papers from this conference in *Cartographica*, vol. 24/1, Spring 1987.

#### Forthcoming Meetings

##### ICA TO PARTICIPATE IN UN REGIONAL CONFERENCE

The ICA has officially been asked to send an observer to the United Nations Regional Cartographic Conference for Asia and the Pacific to be held in Bangkok, Thailand, from 5 to 16 January 1987. Furthermore, the UN office has requested that the ICA prepare the lead paper on cartographic data manipulation. Other international organizations have also been requested to play lead roles in introducing each agenda topic. Accordingly, ISPRS will prepare a paper on cartographic data acquisition and supporting activities, and FIG will prepare the paper on policies and management of national mapping and charting programs. The ICA is happy to cooperate with the United Nations in this activity.

Joel L. Morrison / October 1986

#### 13TH ICA CONFERENCE, MORELIA, October 12-21 1987

The following information has been extracted from the *Provisional Second Circular* issued by the Organizing Committee. The General Assembly and the Technical Conference will be held from 12-21 October 1987. The first and last days will be dedicated to the General Assembly; therefore, an earlier arrival and a later departure are recommended for official delegates and their deputies.

The earthquake that struck Mexico City caused many of the main institutions involved in cartographic production to lose their facilities, so that it is not possible, for the moment, to offer a detailed program for technical visits. This will be included in the definitive Second Circular to be mailed in October 1986.

Because of temporary administrative constraints in handling foreign currencies and in signing contracts with the Organizing Committee, negotiations with the Travel Agent concerning tours and accommodation arrangements are still underway. This information, together with the Registration Form, will be included in the definitive Second Circular.

Registration Fees (in US\$)	Before July 1	After July 1
Full registration	\$175.00	\$200.00
Accompanying persons	60.00	75.00
Full-time students	85.00	100.00
Daily registration		
Members	40.00 (anytime)	
Students	20.00	

Enquiries should be addressed to the Conference Director, 13th ICA Conference, Apdo. Postal 25-549, C.P. 03400 México, D.F., México.

#### EURO-CARTO VI TO BE HELD IN BRNO CZECHOSLOVAKIA

April 13-16 1987

The 6th Euro-Carto conference is being organized by Dr. Milan Konecny of the Department of Geography of the J.E. Purkyne University in Brno, Czechoslovakia. The meetings will be held in the Hotel International, Brno.

The ICA is taking an active role in these regional conferences on computer-assisted cartography. The Euro-Carto series is unique in that it is planned as a seminar that concentrates each time on a limited number of subjects. The 6th conference will concentrate on geographical information systems and education in cartography.

Cartographers interested in attending this seminar should write to: Dr. Milan Konecny, Department of Geography, Faculty of Science, J.E. Purkyne University, 611 37 Brno Kotlarska 2, Czechoslovakia.

#### Brief Announcements

- The 6th Meeting of the Ad-hoc Commission on Urban Cartography will be held in Rotterdam, The Netherlands from 26 April to May 2, 1987. The main theme will be: Urban Topographic Base Maps. Local organizer: Mr. Jan Meijer, Ter Spillstraat 13, 3342 Vk Hendrik Ido Ambacht, The Netherlands.
- A 3rd Meeting of the Commission on Education and

Training is scheduled to be held in Munich, 16–21 March 1987.

- An ICA Executive Committee Meeting will be held in New Delhi, India 19–23 January 1987. All proposed changes in the Constitution and By-Laws must be made available to the EC by national committees in time for this meeting in New Delhi.

- Proposals for the continuation of Ad-hoc Commissions and Working Groups or for the creation of new Commissions and Working Groups for the period 1987–1991 are due to the President and Secretary-Treasurer by 1 July 1987.

- Preregistration for the 8th General Assembly in Morelia, Mexico is due by 1 July 1987 to the following address: Mr. Manuel Gonzalez, 13th ICA Conference, Apdo. Postal 25–549, C.P. 03400 D.F., Mexico.

### Publications Committee News

The Autumn Meeting of the ICA Publications Committee was held on 16 September 1986 at the Royal Society, London; nine persons attended, including the President and Secretary-Treasurer.

Items discussed included the publications brochure, journal reviews of ICA publications, the Delhi Seminar Report, and a proposed draft contract for future authors of the Association's publications. The President announced the signing on September 10 1986 of an official agreement between ICA and Elsevier Science Publishers B.V. of Amsterdam under which Elsevier will become the international marketing agent for all ICA publications. Progress reports were presented on the *Multilingual Dictionary and Basic Cartography, Volume 2*. Helga Ravenstein presented her German-language publication of the Kadmon chapter on Automated Cartography translated from the pre-publication manuscript of *Basic Cartography, vol. 2*. B.V. Gutsell circulated the newly published copy of 'Coastal Zone Mapping' (*Cartographica*, vol. 23, nos 1 & 2, Monograph 34–35, 1986).

The chairman announced that a new publication date had been set for *Cartographical Innovations* by Map Collector Publications (1982) Ltd. The book is now due out in early December 1986. He also stated that there was a partial display of ICA publications at Auto-Carto London.

### NEW ARRANGEMENTS FOR ICA PUBLICATIONS

The Executive and Publications Committees are pleased to announce an agreement between the International Cartographic Association and Elsevier Science Publishers B.V. with respect to the future publication and distribution of all ICA materials which have a sufficiently large potential market to make commercial publication viable. A formal contract was signed by the President and Secretary-Treasurer on behalf of ICA in Amsterdam on September 10. This followed some months of detailed negotiations between representatives of the ICA and Elsevier, and will take immediate effect. The new arrangements will necessitate the modification of the Rules of Procedure currently adopted by the Publications Committee, and full details of the revised policies will be circulated to the Chairmen on all Com-

missions, Working Groups, etc. in due course. As in the past all proposed projects must still first be submitted for the consideration of the Publications Committee, and no direct approach should be made to Elsevier.

Stock of all works in print has been transferred to our new publisher's warehouses, and in future orders should be addressed to Drs. H. Frank, Elsevier Science Publishers, P.O. BOX 330, 1000 AH Amsterdam, The Netherlands. Invoices will be dispatched with goods. Prices will be held at presently quoted levels until 1st January, 1987, but after this date may be subject to revision. Any works which Elsevier does not wish to publish at its own risk and expense can, at the ICA's discretion, either be published solely by ICA or elsewhere. The employment of Elsevier's sophisticated distribution and marketing services will do much to ensure the wider dissemination and availability of our products, and result in considerable advantage to ICA members.

The Executive and Publications Committees wish to acknowledge their appreciation of the considerable contributions made by Rudolf and Christine Muller who have acted as the official ICA distributors for the past ten years. Without their efforts and interest many of the important volumes generated would never have come to the notice of members of the international cartographic community, and the highly significant work of our Commissions and Working Groups would remain a mystery to all but those directly involved.

R.W. Anson / 16 September 1986

### ICA and Related Publications

#### IN PRINT

*Oceanographic cartography/Cartographie océanographique*, Kerr, A.J., Kordick, A. (eds.). Papers presented at the 6th Technical Conference on Cartography, Ottawa, Canada 1972. 132 p. illus. Folding map in pocket. 1972. Dfl 15.

*ICA Bibliography 1956–1962–1972/ACI Bibliographie 1956–1962–1972/IKV Bibliographie 1956–1962–1972*, E. Meynen. Presented on the occasion of the 6th Technical Conference on Cartography, Ottawa, Canada 1972. 129p. Dfl 15.

*Computer-assisted Cartography/Cartographie assistée par ordinateur*, L. van Zuylén (ed). Papers presented at a seminar in Nairobi, Kenya 6–11 November 1978. 347 p. illus., 1979. ISBN 90.70310.02.3: Dfl 45.

*Multilingual Dictionary of Technical Terms in Cartography*, 1st edition. Compiled by E. Meynen, Chairman ICA Commission on Terminology. In 14 languages; 573 p. Dfl 67.50.

*International Yearbook of Cartography/Annuaire International de Cartographie/Internationales Jahrbuch für Kartographie*, vols 1–25, G. M. Kirschbaum and K-H. Meine (eds). Dfl 65.

*Glossary of Technical Terms in Computer-assisted Cartography*, edited by D. Edson, Chairman (1976–80) ICA Commission on Automated Cartography and Jean Denègre. 1980. 157 p. ISBN 90.70310.04.X: Dfl 31.50.

*Further Examples of Environmental Maps*, D.P. Bick-

- more (ed.) Compiled by ICA/IGU Joint Working Group on Environmental Atlases and Maps. Printed by the Instituto Geografico Nacional, Madrid, 1984. 58 p., 21 maps in colour, 15 figs. Dfl 35.
- National and Regional Atlases: a bibliographic survey.* Compiled by W. Stams for the former IGU Commission on National and Regional Atlases. 1984. 249 p. ISBN 90.70310.07.4: Dfl 35.
- Computer-assisted Cartography: research & development report.* Compiled by Lowell Starr, Chairman, ICA Commission on Computer-assisted Cartography. 1984. 124 p. ISBN 90.70310.08.2: Dfl 45.
- Methods of Display of Ocean Survey Data.* Edited by R.H.W. Linton. Proceedings of the 1983 seminar on the problems of displaying data, collected in increasing quantities by modern methods of ocean survey, on hard copy maps and charts. Published jointly by ICA and NERC, 1983. 133 p. ISBN 0.90.1875.51.1: Dfl 33.
- Methods of Display of Ocean Survey Data, Vol. 2.* Edited by R.H.W. Linton. Co-published by the Natural Environment Research Council (NERC) and ICA. 1985. ISBN 90.70310.10.4. Dfl 33.
- Basic Cartography for Students and Technicians, Vol. 1.* Compiled by members of ICA Commission on Education in Cartography (Chairman: Prof. C. Koeman); sponsored by UNESCO. 1984. 206 p., numerous graphics. ISBN 90.70310.05.8: Dfl 45.
- La Formation des Cartographes. Comptes Rendues du Séminaire de l'A.C.I., Rabat (Maroc), 16-21 avril 1984.* Edité par R.J.M.J. Bertrand. 1985. 260 pages. ISBN 90.70310.09.0.: Dfl 35.
- Proceedings of the Seminar on Computer-assisted Cartography.* New Delhi, November 22-29 1983. Published for ICA by Survey of India. Dfl 45.

## IN PREPARATION

*Cartographical Innovations: an international handbook of mapping terms to 1900.* Edited by Helen Wallis, Chairman of ICA Commission on the History of Cartography, and A.H. Robinson.

ORDER FROM: Drs. H. Frank, Elsevier Science Publishers, P.O. BOX 330, 1000 AH Amsterdam, The Netherlands. Invoices will be dispatched with goods.

## JOINT ICA/UTP PUBLICATIONS

- The Dynamics of Oceanic Cartography.* Edited by Adam J. Kerr, Chairman of ICA Commission on Oceanic Cartography (1980-84). Published in conjunction with ICA as a special issue of *Cartographica* (Canada), vol. 17/2, 1980 (Monograph 25), 181 p., illus. and fold-out plates. ISBN 0-919870-25-2. Cdn \$10.
- Perspectives in the Alternate Cartography/Cartographic Computing Technology and its Applications.* Edited by D.P. Bickmore. Papers from EURO-CARTO 1, held in Oxford, 1981 under the aegis of ICA Commission C on Computer-assisted Cartography. Published in conjunction with ICA as a special issue of *Cartographica* (Canada), Vol. 19/2, 1982 (Monograph 28), 191 p., illus. and coloured inserts. ISBN 0-919870-25-2: Cdn \$10.

*New Insights in Cartographic Communication.* Edited by C. Board. Proceedings of a seminar in London, September 1983 (ICA Commission D, chairman C. Board). Published in conjunction with ICA as a special issue of *Cartographica* (Canada), Vol. 21/1, 1984. (Monograph 31), 138 p. illus. ISBN 0-919870-31-7: Cdn \$10.

*Coastal Zone Mapping.* Edited by Roland Perrotte. Part 1, Review of Coastal Zone Mapping, initiated by ICA Commission on Marine Cartography (Chairman, A.J. Kerr 1980-84); Part 2, Coastal Zone Mapping in Canada: papers selected from a seminar at the Bedford Institute of Oceanography, April 11-12, 1985. Published in conjunction with ICA as a special issue of *Cartographica*, vol. 23/1 & 2, 1986 (Monograph 34-35). ISBN 0-919870-35-X: Cdn \$17.

ORDER FROM: University of Toronto Press, Journals Department, Subscription Office, 5201 Dufferin St., Downsview, Ontario, Canada M3H 5T8.

## International Calendar 1987

## January 1 Bangkok Thailand

First Regional Conference on GIS in Asia. Information: Dr. Duane Marble, P.O. BOX 571, Williamsville, New York 14221 USA

## January 5-16 Bangkok Thailand

United Nations Regional Cartographic Conference for Asia and the Pacific. Information: Max C. de Henseler, Chief, Cartographic Unit, Infrastructure Br., Dept. of Technical Cooperation for Development, United Nations, New York, N.Y. 10017 USA

## January 19-23 New Delhi India

ICA Executive Committee Meeting. Information: Dr. Joel L. Morrison, U.S. Geological Survey, 516 National Center, Reston, Virginia 22092 USA

## March 30 - April 2 Baltimore USA

AUTO-CARTO 8, New Foundations: 8th International Symposium on Automation in Cartography. Information: N.R. Chrisman, 3809 Nakoma Road, Madison, Wisconsin 53711 USA

## April 13-16 Brno Czechoslovakia

EURO-CARTO VI: Geographical Information Systems and Education in Cartography.

Information: Dr. Milan Konecny, Dept. of Geography, J.E. Purkyne University, 611 37 Brno Kotlarska 2, Czechoslovakia

## June 10-13 Lyons France

International Forum for Instrumentation and Geographic Information F13G. Information: M. Guy Ducher, Direction Générale de la Recherche, Institut Géographique National, 2 avenue Pasteur, St. Mandé, 94160 France

## August 17-31 Montréal Canada

5th UN Conference on the Standardization of Geographical Names. Information: Alan Rayburn, EMR Surveys & Mapping Br., 615 Booth St., Ottawa, Canada K1A 0E9

## August 18-22 Brighton United Kingdom

53rd IFLA Council and General Conference. Information: Rob Palmer, Library Association, 7 Ridgmount St., London WC1E 7AE, United Kingdom

**September 7-13 Paris France**

12th International Conference on the History of Cartography. Information: Dr. Helen Wallis, Map Room, The British Library, Great Russell Street, London, England WUB 304

**October 5-10 San José Costa Rica**

IGU Commission on Geographical Data Sensing and Processing sponsors a Latin American Regional Meeting on Informatics in Geography. Information: Dr. Duane Marble, P.O. BOX 571, Williamsville, New York 14221 USA

**October 12-21 Morelia México**

8th ICA General Assembly & 13th International Conference. Information: Conference Director, 13th ICA Conference, Apdo. Postal 25-549, C.P. 03400 México, D.F. México

**Miscellany****USGS NAMES NEW ASSISTANT CHIEF IN MAPPING DIVISION**

Joel L. Morrison has been named assistant division chief for research of the U.S. Geological Survey's National Mapping Division at the usgs National Center in Reston, Virginia.

In his new position, Dr. Morrison directs the research, experimentation and development activities of the division in cartographic and geographic investigations, new and improved instrumentation, field survey procedures and methods, photogrammetric methods, map design, automation of production procedures and application of space technology to mapping and related disciplines.

He is also responsible for developing the technical standards for the geographic, cartographic and printing programs of the division and for the standardization of domestic geographic names.

USGS Public Affairs Office / 9 September 1986

**POLISH HONORARY FELLOWSHIP AWARD**

During the biennial conference of the Polish Geographical Society, 11-15 September 1986, ICA Past President F.J. Ormeling Sr. was awarded an Honorary Fellowship. The award was presented by Professor Dr. Anna Dylkova, President of the host organization. In his speech of thanks, Dr. Ormeling reminded his audience of the unique achievements of Polish cartographers, theoretically as well as in the field of map and atlas production, and also in their contributions to international cartography culminating in the organization of the 11th ICA Conference in Warszawa, 1982, and realized under the most difficult circumstances.

**NORDIC SUMMER SCHOOL IN CARTOGRAPHY 1986**

The first Nordic summer course in cartography was held August 4-15 1986 in Honefoss, Norway. Subsequent courses are planned to be held in Denmark 1987 and Sweden / Finland 1988. The background for arranging these courses is a common Nordic desire to establish a joint cartographic education at a relatively high level, i.e., an education that focuses more on cartographic theory than on the manual aspects of the subject.

The official offer on education in cartography is somewhat deficient in the Nordic countries apart from technician and technologist level at which, partly through the official schools and partly by on-the-job training a good education is provided. It should be emphasized that this education is strongly oriented towards practical cartography and drawing and, therefore, fails to provide the relevant theoretical background for cartographers at medium and higher levels.

The principal aim of the courses is to provide the theoretical aspects necessary for a thorough understanding of cartography and its allied subjects. It is essential to provide students with a knowledge of the use of modern production methods such as computer-assisted techniques.

The summer course in cartography is essentially a Nordic project. It was initiated by the Norwegian national committee and is carried out by the cartographic societies in the Scandinavian countries. The following experts gave lectures in the 1986 Summer School in Norway: Prof. J.S. Keates; Prof. E. Spiess; Mr. Chr. Palm; Prof. Sylvie Rimbart; Prof. Stein Bie; Prof. P. Yoeli; Mr. Axel Baudouin; Mr. S. Folving and Mr. A. Reite. The content of this first course was in brief: Historical perspective; Perception and cognition; Symbols and visual variables; Theory of communication; Computer-assisted cartography; Generalization problems; Classification problems; Analytical maps; Use of symbols; Tactual maps.

In future summer school courses every endeavour will be made to go deeper into some of the subjects covered in the first year and to broaden the number of subjects included.

Arild Reite / Statens Kartverk, Honefoss, Norway

**NEW INTERNATIONAL JOURNAL**

The International Journal of Geographical Information Systems, to be launched in January 1987, is designed to bring together the wide variety of research and application in geographical information systems. It will contain papers on all aspects of GIS supported by tutorial reviews, news and information, and book reviews. The aim of the journal is to provide a forum for the exchange of ideas, techniques, approaches and experiences in the rapidly growing field of GIS. It is intended to interest those who design and implement such systems and those who use them for planning and making and monitoring policies.

The journal is to be interdisciplinary and international. It will be directed at those with skills in designing systems, database management, computer graphics and analysis of spatial data. It is to be published quarterly by Taylor & Francis Ltd, United Kingdom at £50, US\$90, DM200.

**Deadline for next ICA Newsletter is March 31 1987**

Published by  
INTERNATIONAL CARTOGRAPHIC ASSOCIATION  
Printed in Canada by  
UNIVERSITY OF TORONTO PRESS



*International Cartographic Association  
Association Cartographique Internationale*

**COMMISSION ON EDUCATION AND TRAINING**

**COMMENTS AND INSTRUCTIONS**

This inquiry form is being sent to each member nation of the International Cartographic Association for distribution to key organizations and institutions having interests in cartography and related mapping sciences. This form has been structured to provide an easy means for each member nation to advise the ICA about its cartographic education and training needs. Organizations receiving this form are requested to study the subject matter needs listed on this form in relation to their needs.

As you read through the list of subject matter needs please check for each item the level of importance as well as the format or form in which this need could be met best. For each major subject matter category space has been provided for you to add comments. You are encouraged to comment freely in order to identify your specific needs and to identify subject matter needs or formats not provided in our listings. We thank you for your time and interest.

LEVELS OF IMPORTANCE				SUBJECT MATTER NEEDS	EDUCATION/TRAINING NEEDS								COMMENTS ON EDUCATION & TRAINING			
					High	Moderate	Low	None	Short Courses	Seminars	Workshops	Exhibitions		Correspondence Courses	Slide Sets	Textbooks
				<b>MAP PRODUCTION: PLANNING &amp; MANAGEMENT</b> - market assessments - user requirements - production planning - organization of production - other:												
				<b>MAP PROJECTIONS &amp; COORDINATE SYSTEMS</b> - selection of projections - construction of projections - plane coordinate systems - coordinate transformations - other:												
				<b>MAP COMPILATION</b> - information sources - evaluation of source material - changing scale - choice & construction of symbols - cartographic generalization - name arrangement - use of image data - other:												
				<b>MAP DESIGN</b> - format - organization of map space - message priorities - symbolization strategies - symbol design - color schemes - type choices - design samples - design specifications - other:												
				<b>MAP PRODUCTION TECHNOLOGY</b> - inking - scribing - lettering - masks & screens - non-press proofing - other:												
				<b>ADVANCED TECHNOLOGY</b> - hardware - software - data bases - data structures - spatial information systems - data standards - digital elevation models - microcomputer systems - other:												
				<b>MAP USE</b> - map reading - map analysis - map interpretation - air photo interpretation - other:												
				<b>MAP TYPES</b> - atlases - cadastral maps - environmental maps - image maps - marine charts - natural resource inventories - population maps - tactical maps - urban maps - road maps - topographic maps - tourist maps - other:												
				<b>OTHER TOPICS:</b>												

Name of Respondent \_\_\_\_\_ Position \_\_\_\_\_  
 Organization \_\_\_\_\_  
 Mailing Address \_\_\_\_\_