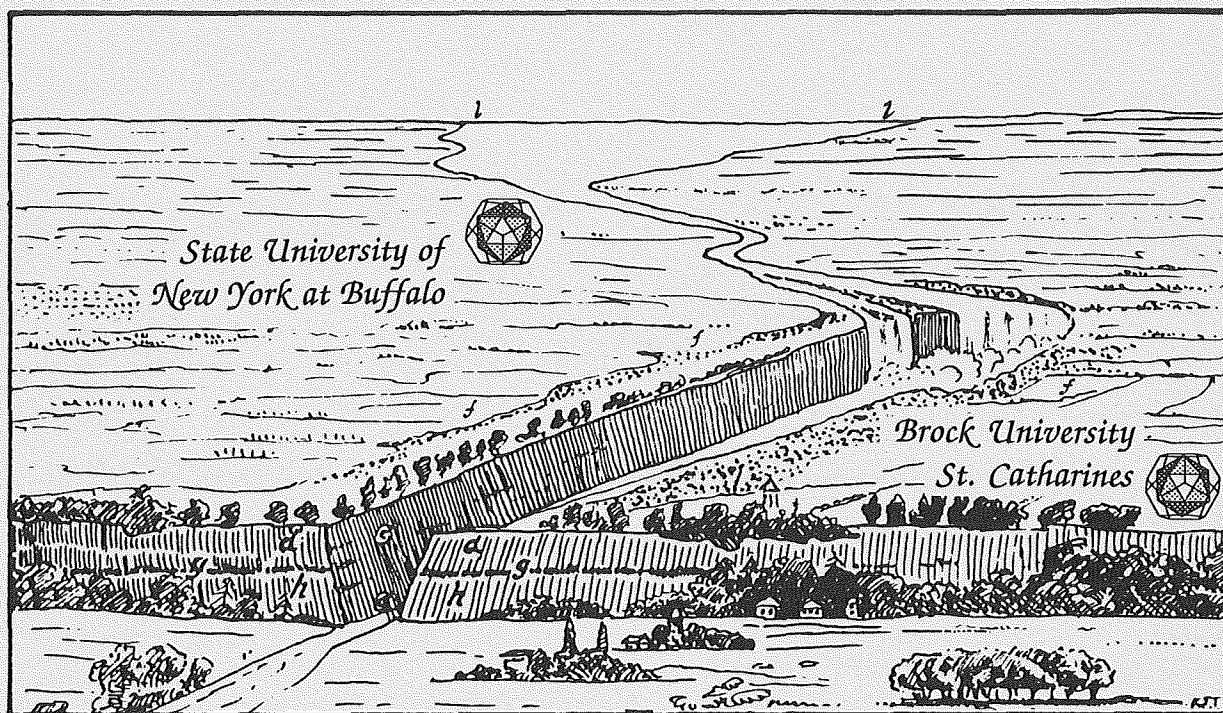


CARTOUCHE

The operational publication of the Canadian Cartographic Association
Revue de l'Association canadienne de cartographie



The Niagara Gorge, looking south / La gorge Niagara, voyant au sud (Robert Bakewell Jr., 1830)

*Joint Annual Meeting of the Canadian Cartographic Association and the Ontario
Institute of Chartered Cartographers
Congrès annuel conjoint de l'Association canadienne de cartographie et de l'Institut de
l'Ontario des cartographes sous charte.
Brock University, St. Catharines, Ontario
State University of New York, Buffalo, New York*

CARTOUCHE

Number 1, Spring 1991

numéro 1, printemps 1991.

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Cartouche is produced quarterly by the Canadian Cartographic Association.

Content Deadlines are: January 31, April 30, July 30, October 31. (see page 23)

You are welcome (urged!) to submit items to be considered for publication. It is the current policy of the editor to provide dual language copy for editorial content and journal mechanics. All other articles appear in language of submission. While every effort is made to ensure accuracy of content, the editor (*like all cartographers!*) cannot be responsible for errors in compilation, or loss of any item submitted. Opinions expressed in the editorials and submitted articles and letters are not necessarily those of the Canadian Cartographic Association. For advertising policy, please contact the Manager, Roger Wheate.

Cartouche est publié trimestriellement par l'Association canadienne de cartographie.

Les dates limites pour l'envoi d'articles ou de documents sont les suivantes: 31 janvier, 30 avril, 30 juillet, 31 octobre (voir page 23). N'hésitez pas à soumettre des articles (vous êtes même priés de le faire!) que vous désirez publier dans le bulletin. Présentement, selon la politique en vigueur, l'éditeur doit publier en français et en anglais, l'éditorial ainsi que la description du processus de publication du bulletin. Le reste des articles paraîtront dans la langue dans laquelle ils ont été écrits. Bien que beaucoup d'efforts sont déployés en vue d'éviter de tels problèmes, l'éditeur (*de même que les cartographes!*) ne seront pas tenus responsables des erreurs de compilation ou de la perte d'articles qui leur seront soumis. Les opinions exprimées dans le cadre des editoriaux, des articles et des lettres publiées dans le bulletin ne reflètent pas nécessairement celles de l'A.C.C.. Pour ce qui est des tarifs publicitaires, veuillez contacter le responsable de la publicité, Roger Wheate.

The Canadian Cartographic Association gratefully acknowledges the financial support given by the Social Sciences and Humanities Research Council of Canada. L'Association Canadienne de cartographie remercie vivement le Conseil de recherches en sciences humains du Canada pour son apport financier.



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Technology/technologie:

Roy Doyon
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Jean Carrière & Claudette LeBlanc
(President & Past-President)

1991 Annual General Meeting Head/ Chef, Congrès Annuel 1991 (May 31-June 3/mai 31- 3 juin.)

Alun Hughes.

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Cartographica Editor

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The Manager's File.

1: WELCOME NEW MEMBERS

Richard Addison,	Halifax, NS
Real Beaugregard,	Chicoutimi, PQ
Gerald Boulet,	Dartmouth, NS
Carl Brisson,	Chicoutimi, PQ
Carrie Brown,	Toronto, ON
Mike Butler,	Amherst, NS
Gordon Chong,	Victoria, BC
Don Cockerton,	Calgary, AB
German Dela Cruz,	Kenora, ON
Greg Duffy,	Toronto, ON
Holly Hanson,	Minneapolis, MN
Julianna Herfst,	Winnipeg, MAN
Jean McKendry,	Worcester, MA
Suzie Perron,	Chicoutimi, PQ
Chadd Rempel,	Niverville, MAN
Jolie Sobie,	Lynn Lake, MAN
Walter Speelman,	Halifax, NS
William Stringer,	Victoria, BC
Alexander Verbo,	Winnipeg, MAN
William Vermette,	Calgary, AB
Joanna Yuen-ling Leung,	Hong Kong

New corporate member:
Bell Canada, Toronto

2: CARTOUCHE

Cartouche is in the cartographic context, "an oblong box, containing decorative designs" (often found on historical maps). It has also been described as "an oblong box, containing hieroglyphics", and a "container for explosives", or "a container, usually cylindrical, containing a product which requires some protection" (from which the word 'cartridge' is derived).

Cartouche: "encadrement renfermant les références d'une carte, ou de certaines inscriptions hiéroglyphiques". "Etui de carton contenant des matières explosives" ou contenant un produit qui nécessite une certaine protection"

3: GIS WORLD

CCA members may recall that the last newsletter carried an offer for reduced subscription to 'GIS World' (for \$40 instead of the normal \$96). Educators and students should be aware that they can now subscribe to this magazine for even less. GIS World has just begun a new rate of \$14.95 - Canada and U.S., with no required membership in any organisation. CCA Members who are not educators or students may take advantage of the new US\$30.00 rate granted to CCA members (this was \$40.00).

4: CARTOGRAPHICA

CCA members can look forward to the following forthcoming issues of Cartographica, with the last two issues for 1990 expected to be distributed by spring.

Vol. 27, no. 3 Autumn 1990, Monograph 41

A 200 page monograph issue entitled "*Colour in Thematic Map Design*", by Janet Mersey and is Subtitled "*The role of Color Scheme and Map Complexity in Choropleth Map Communication*." It will be illustrated by 24 maps in full colour, by 40 line graphics, and include 20 tables.

Vol. 27, no. 4 Winter 1990, Monograph 42

A monograph issue as a cumulative index to volumes 16 to 25, 1979-1988. An index to 25 journal numbers and to 11 monographs, plus a reprint of abstracts.

Vol. 28, no. 1, Spring 1991

A journal issue, with four papers, one review article and 21 reviews. In addition, the "Commentary" section (edited by Ed. Dahl) includes two interesting responses to J. H. Andrews' paper "Map and Language" published in volume 27, number 1, Spring 1990. articles

Vol. 28, no. 2, Spring 1991

A monograph, entitled "*GIS in Education*", consisting of the papers presented at a GIS conference in Leicester, UK, in 1990, edited by Michael Coulson and Nigel Waters.

5: FUTURE CCA ANNUAL MEETINGS

1991: May 31- June 3, Brock University, St. Catharines, Ontario, and SUNY, Buffalo, NY. (See meeting announcements)

1992: Will be held in Montreal, hosted by its four universities, as part of the festivities, celebrating the 350th Anniversary of the city.

1993: Is being planned for Winnipeg, Manitoba. This will be the first time, the CCA will have met in that province.

1994: Whitehorse, Yukon Territory?? We now have 5 members in the territories: five in Whitehorse, and two in Hay River, NWT, and are most keen to visit part of the country's mass which lies 'north of 60', and underline our commitment to our national status. Any 'northern members' keen on this possibility, please contact the CCA Manager.

6: DISK LIBRARY

The CCA software disk library has been most successful, in distributing data and programs to members and encouraging others to join the Association. However, unless additions are made continuously, it will cease to do so. Members are encouraged to contribute to the library, in any way. They might consider exchanging data or programs that they have written for some already in the library. Please note, all requests for these products should be made to David Douglas at the University of Ottawa, address on page 3.

7: GST: GIFT OR REFUND

A few of you, who have already renewed, have included GST with your 1991 dues. Since the Association is not collecting GST this year we would like to gratefully accept this overpayment as a much appreciated gift. We will, however, gladly refund any overpayment upon request to the treasurer. We will assume that no such request indicates your desire to donate this money to the CCA rather than the Government. To all concerned, we apologize for the confusion and thank you for your cooperation, however you decide.

8: CCA and Cartographica: a Clarification?

It appears that some CCA members may recently have received a flyer from the University of Toronto Press, advertising subscriptions to the journal at about \$32 per year. This occurred if you were on the membership for another organisation, such as ACSM etc., and was a marketing procedure. As CCA members, (if you renew!!), this subscription is included in your annual dues; in fact it is made available to members at a slightly lower rate (about \$28). The remainder of your dues go towards the cost of the newsletter, administrative costs, the organisation of the annual meeting, and assorted membership benefits that we are constantly trying to supplement.

9: CCA PRODUCTS

1. Automation/GIS Interest Group Software Disk Library (see separate listing. Disks vary, generally \$10 per disk)
2. Mapping the Planets, slide set and booklet, (1990, #2) \$50.
3. CCA Lapel pin, \$3.00
4. CCA "Cartographers Rule the World" bumper sticker, (1990, #2). \$3.00 each, \$5 for two, \$10 for four.
5. "Explorations in the History of Canadian Mapping: A Collection of Essays", Edited by Barbara Farrell and Aileen Desbarats - 274 pp.(1990, #2), \$25.
6. All Cartographica and The Canadian Cartographer back-issues, 1967-84 (Incorporated together into Cartographica in 1980).

Monograph titles:

- | | |
|--------------|---|
| 01 (1971) | The 17th Century Cartography of Newfoundland. |
| 02 (1971) | Map design and the Map User |
| 03 (1971) | Russian Maps and Atlases as Historical Sources. |
| 05 (1972) | Eskimo Maps from the Eastern Arctic |
| 07 (1973) | Economic Maps in pre-Reform Russia. |
| 08 (1973) | Land Surveys of Southern Ontario. |
| 09 (1973) | Computer Cartography in Canada. |
| 10 (1974) | Cartographic Generalisation. |
| 11 (1974) | The Seven Aspects of a General Map Projection. |
| 12 (1974) | Index and Abstracts, Canadian Cartographer, 1964-73 |
| 13 (1975) | The History of Russian Cartography, C16-C19. |
| 14 (1975) | The History of Russian Cartography, Part 1. |
| 15 (1975) | The History of Russian Cartography, Part 2. |
| 16 (1976) | Conformal Projections Based on Elliptic Functions. |
| 17 (1976) | Explorations and Mapping of Samuel de Champlain, 1603-1632. |
| 18 (1976) | The Surveying and Mapping of British East Africa. |
| 19 (1977) | The Nature of Cartographic Communication. |
| 20 (1977) | Computer Cartography in Sweden. |
| 21-22 (1978) | The Riel Rebellions: A Cartographic History. |
| 23 (1979) | The Purpose and Use of National and Regional Atlases. |
| 24 (1979) | Index and Abstracts, Canadian Cartographer, Vols 11-15. |
| 25 (1980) | The Dynamics of Ocean Cartography. |
| 26 (1980) | Concepts in the History of Cartography. |
| 27 (1981) | Maps in Modern Geography. |
| 28 (1982) | Perspectives in the Alternate Cartography/ Computing Technology and its Applications. |
| 29-30 (1983) | Mapping for Development/ The Contributions of the Directorate of Overseas Surveys. |
| 31 (1984) | New Insights in Cartographic Communication. |
| 32-33 (1984) | Auto-Carto Six/ Selected Papers. |

\$7 per single issue, \$12 per double issue or two issues, \$20 for four issues. Contact below for bulk prices.

All items available from Roger Wheate, CCA, c/o Geography Department, University of Calgary, Calgary, AB, T2N 1N4.
Prices include postage and are GST exempt.

Elections for CCA Executive élections de la comité exécutif de l'ACC

Vice-President/vice-président

Douglas Banting
Majella-J. Gauthier

Interest Group Chairpersons/ Chefs de Groupes d'Intérêt.

Technology/technologie:

Roy Doyon
Montine Jordan

Education/éducation:

John Belbin
Marcia Faurer

Vice-President

Douglas R. Banting

"My interests lie in the digital representation of spatial data for the practical functions the data can serve. Clearly, cartographic principles and traditions play a major role in this process, and I regard the CCA as an excellent forum for ensuring that these standards are preserved.

I have degrees from the University of Western Ontario (B.A. - 1972, Ph. D. 1982) and the University of Guelph (M. Sc. - 1974), and maintain memberships in a number of organizations, in addition to the CCA:

URISA, International and Ontario Chapter,
AM/FM International and Ontario Chapter, Canadian
Association of Geographers,
Association of American Geographers

I am also currently vice-chairman of the Ecological and Environmental Advisory Committee of the Regional Municipality of Halton.

My Professional activities are comprised of teaching GIS and Cartography among other courses in the school of Applied Geography at Ryerson Polytechnical Institute, in Toronto, and conducting various research and consulting projects. Recently these have been focussed on the implementation of GIS and related technologies by various agencies, both private and public, mechanisms for coping with data quality in GIS and educational issues in GIS."

Vice-President

Majella-J. Gauthier

Il est professeur à l'Université du Québec à Chicoutimi où il a été le directeur-fondateur du département de géographie en 1969. Il est détenteur d'une maîtrise en géographie de l'Université Laval de Québec et d'un doctorat en aménagement régional de l'Université de Caen (France). Ses tâches d'enseignement et ses intérêts de recherche vont autant de la géographie sociale qu'à l'aménagement rural et forestier. Toujours, il privilégie l'approche quantitative et cartographique comme, par exemple, quand il a codirigé l'Atlas régional du Saguenay-Lac-Saint-Jean et quand il a contribué dans une équipe pluridisciplinaire au projet de réaménagement des bleuëtières du Lac-Saint-Jean.

Il est membre des associations professionnelles suivantes: l'Association canadienne de cartographie, de Carto-Québec, l'Association canadienne des géographes et de l'Association professionnelle des géographes du Québec. Sa participation aux activités de l'Association canadienne de cartographie (ACC) date de 1976 et son implication dans l'Association en tant que membre de l'exécutif est allée de 1984 à 1986 alors qu'il occupait le poste de président du Groupe d'intérêt sur la conception des cartes. Au cours de son mandat, il a notamment animé les discussions sur la cartographie dans les médias dont les résultats ont été publiés avec la collaboration de l'ACC.

La présentation de sa candidature au poste de vice-président est motivée par son intérêt de participer activement à l'administration et au développement de l'ACC, de promouvoir les sciences cartographiques au pays et de poursuivre les dossiers déjà en marche dont celui des relations avec les diverses associations de cartographie. Sa participation aux activités de l'exécutif lui permettra de mettre une attention spéciale à la préparation du congrès conjoint ACC-Carto-Québec devant se tenir à Montréal en juin 1992.

He is currently professor at the Université du Québec à Chicoutimi where he was the director-founder of the Department of Geography in 1969. He obtained a Master's degree in Geography at the Université Laval of Quebec and a Doctorate in Regional Planning at Université de Caen (France). His teaching and research interests encompass social geography as well rural and forest management. He has a particular interest in cartography, having served as codirector of the Atlas régional du Saguenay-Lac-Saint-Jean and as well having worked within a multi-disciplinary group, at the replanning of the blueberry farms in the Lac-Saint-Jean region.

He is member of the following associations: the Canadian Cartographic Association (CCA), Carto-Québec, the Association of Canadian Geographers and the Association Professionnelle des Géographes du Québec. He joined the CCA in 1976 and he has previously been active in the CCA as an executive member from 1984 to 1986, when he chaired the Map Design interest group. During this period, he organized and lead a discussion on journalistic cartography and he edited a book on this theme with the collaboration of the CCA.

He would like to participate actively in the administration and the development of the Association in order to promote cartographic sciences across the country, to continue the projects already in progress and to encourage the developement of relationships with other cartographic associations. He would specially like to be involved in the preparations for the 1992 joint annual meeting (CCA/Carto-Québec) in Montreal.

Technology Interest Group Group d'Intérêt technologie.

Roy Doyon

Cartographic Laboratory Manager
University of Massachusetts at Amherst

Education:

M.A. Geography, University of Georgia (1983)

Relevant Experience:

Production Director, Historical Atlas
of Massachusetts
Production Director, An Atlas of
Massachusetts River Systems
Research Coordinator and Photo-Cartographic
Supervisor, Atlas of Georgia
Graphics Supervisor, Robert B. Jones
& Company

Service to the CCA:

Member since 1988
Map Production Technology
Interest Group Chairman (1990-91)
Atlas Workshops, CCA Annual Meetings,
1988, 1989, and 1991

"My interests include all aspects of map production especially those skills involved in the preparation of a mapping project for printing. Preparing for a press run involves making a number of important decisions, many of which have traditionally been made by a series of trial and error. Cartographers need better means of communicating with one another so that our individual experiences serve to enhance our collective

knowledge of the total map process. This will become even more important as automation impacts map production techniques. Currently I am developing a "technical notes" section in the newsletter consisting of short and informal news items concerning various aspects of map production. I also will continue to organize workshops or paper sessions at the annual meetings as a means of bringing together cartographers to share our map production experiences and expertise."

Technology Interest Group Group d'Intérêt technologie.

Montine Jordan

"Currently a freelance cartographer and consultant in desktop publishing/computer graphics in New York City, I hold undergraduate degrees in geography and art. I pursued a dissertation in Historical Geography at Clarke University, while minoring in Cartography. Clark's Anne Gibson and Ron Eastman introduced me to the Mac, and offered me the task of producing computer graphics for "The Earth Transformed" (the anniversary volume to "Man's Role in Changing the Face of the Earth"). Two years in the making, that project is now at press. I am presently involved in the development of a series of Macintosh-based books which introduce mapping and geographic concepts to children.

Considering the relative immaturity of the field, the fruitfulness of comparing triumphs, obstacles, and strategies on the desktop cannot be underestimated. It is this networking of cartographic desktop efforts that I would most like to facilitate in working with the CCA, both at the conferences and in the newsletter. There's an infectious excitement to working with computer images, and especially maps, from which we all can benefit."

Education Interest Group Group d'Intérêt éducation.

John Belbin

Head of Mapping Department
College of Geographic Sciences
Lawrencetown, Nova Scotia

Education:

B.A. Economics, York University
B.Ed. Acadia University

continues.....

Relevant Experience:

"A career cartographer, I have been working and teaching in this field since 1957 when I began training at the Directorate of Overseas Surveys in London, England. I have been a member of the CCA virtually since its inception, and a member of the OICC since 1962. I was chairman of the Technology group from 1981-1983 and was editor of technical notes and queries, a separate publication at that time. I have taught cartography and Engineering courses at Seneca College in Toronto and, since 1975 have taught in the Cartography and other related areas at the College of Geographic Sciences.

I believe the separation of the academic and technical streams of cartography in the Universities and Colleges to be divisive and ridiculous in a field which, by its very nature, must cross boundaries and draw on useful material whatever its source. I would like to contribute to a dialogue where all cartographic, GIS, and data gathering fields are seen to be a part of a unified whole and not a series of warring camps. Our meetings and publications must reflect this. Our graduates must be as versatile and flexible as possible to create a professionally competent body who can contribute significantly to our economic development and intelligent use of the environment."

Service to the CCA:

Member since 1988
Map Production Technology
Interest Group Chairman (1990-91)
Atlas Workshops, CCA Annual Meetings,
1988, 1989, and 1991

"My interests include all aspects of map production especially those skills involved in the preparation of a mapping project for printing. Preparing for a press run involves making a number of important decisions, many of which have traditionally been made by a series of trial and error. Cartographers need better means of communicating with one another so that our individual experiences serve to enhance our collective knowledge of the total map process. This will become even more important as automation impacts map production techniques. Currently I am developing a "technical notes" section in the newsletter consisting of short and informal news items concerning various aspects of map production. I also will continue to organize workshops or paper sessions at the annual meetings as a means of bringing together cartographers to share our map production experiences and expertise."

**Education Interest Group
Group d'intérêt éducation.**

Marcia Faurer

Marcia Faurer has been a member of the Canadian Cartographic Association since 1983. Currently, she is a lecturer in the Geography Department at the University of Manitoba where she has taught Physical Geography for 6 years and Cartography for 3 years. She has also taught a general course in GIS at Red River Community College in Winnipeg. As a university instructor, Marcia is particularly interested in ensuring that a strong foundation in the basic principles of cartography be taught to students in cartography and to those planning to study computer cartography and GIS. To this end, and to introduce students to the cartographic profession, she has actively encouraged students in the cartography and GIS courses at the University of Manitoba and University of Winnipeg to join the CCA.

For the past 3 years, Marcia has been a co-organizer of a Colloquium on GIS Applications in Winnipeg that has drawn speakers and attendants from business, government, and education. The first 2 of this series were sponsored, in part, by the CCA, and the 1990 colloquium was cosponsored by ESRI Canada.

Marcia has also worked for the photogrammetric section of the Manitoba government Surveys and Mapping Branch. She was also the content editor for the reference and tutorial manuals for the MAP II GIS, and has also reviewed 2 cartography textbook manuscripts for Prentice Hall, Inc..

Education column

by
Brian Klinkenberg

In this column I would like to address several issues: the up-coming CCA annual conference, the President's Prize Competition, the just-finished GIS'91 conference held in Vancouver, and the role of electronic mail.

Like death and taxes, the one thing you can't escape is quilt--if you fail to attend the CCA's annual conference! This is your best chance to meet fellow cartographers who have experienced similar trials and tribulations to yours. Not only can you gain valuable formal knowledge at the paper sessions (have you submitted your paper abstract yet?), but the informal knowledge obtained during the after-hours events is often worth the price of attending in itself.

Over \$500 in prizes will be awarded at this year's conference in the President's Prize competition--the most opportune chance for budding cartographers to gain some national recognition. Although excellence of execution is a prime concern when judging for the colour map prize, for the other categories maps produced on far from state-of-the-art equipment can be potential winners. In the other map prize categories it is the conceptual design that is judged most significant. And, don't forget the formal written paper competition which offers the opportunity for more literary cartographers to gain national recognition and to share in the cash give-away! So, for all of the educators reading this column, now is the time to cultivate submissions for the 1991 President's prize competition.

Some brief observations on the GIS'91 conference: of all the papers I heard, those presented by geographers (most of whom were cartographers) were easily the best presented at the conference. After listening to many of the papers I was further reminded of the important role that cartographers have in the GIS field. Many of the problems that people were discussing related specifically to cartography. For example, issues related to spatial interpolation were raised in several talks--issues that cartographers have been writing about for many years, but which for many of the conference attendees were relatively new. As has been said many times before, there is a large train running down the tracks out there, and cartographers belong in the engine. We just have to make sure we're not standing aside the wrong track!

On another note, access to email is both a blessing and a curse. On the one hand you receive a lot of timely information from a wide variety of sources, on the other hand you often have to sift through a lot of chaff in order to find a little wheat. There are many different email interest groups out there, ranging from aeronautical enthusiasts to killifish keepers. Groups which might be of most interest to those cartographers involved in education are the GIS group, the Geography group, the FRACtal group, and the local usenet newsgroups which list jobs (e.g., ab.jobs : Jobs in Alberta; can.jobs : Jobs in Canada; ont.jobs : Jobs in Ontario, Canada). The latest topics of discussion in the GIS-L group have covered the role of GIS in planning, how easy should a GIS be to use, and recent job vacancies. To subscribe to these groups, send the following message to the appropriate address:

subscribe GIS-L *yourfullname*
to LISTSERV@UBVM.BITNET

subscribe GEOGRAPH *yourfullname*
to LISTSERV@FINHUTC.BITNET

subscribe FRAC-L *yourfullname*
to LISTSERV@GITVM1.BITNET

If you have access to USENET joining the various job groups is very simple, once you've established a link. Talk to your local computer guru about access to USENET. And happy emailing!

See you at Brock University,

Brian

Cartography Students at MUN.

The Cartographic Society at Memorial University (MUN) has enjoyed a moderately successful year to this point. We currently have twenty-two members consisting of students, staff, and faculty members. We hold meetings on a weekly basis which gives the group an opportunity to discuss plans for upcoming events and conduct short seminars and presentations. This also provides an opportunity for Cartographic students to get together to informally discuss different aspects of course work and just socialize.

Some of the activities of the Cartographic Society since September include;

- ~ Presentation on traditional methods of colour map design and production, by Mr. Charles Conway, Assistant Cartographer,

- ~ Tour of the MUNCL Facilities - Explanation and demonstration of equipment, Demonstration of the production of a Black and White, page size map for publication in an academic journal. By Mr. Gary McManus, Departmental Cartographer

- ~ Short presentation on production of a tactual map for the CNIB in St. John's, by Mr. David Mercer.

- ~ Tour of the computer mapping facilities in the Department of Earth Sciences, MUN, by Mr. David MacNeil.

- ~ Participated in the annual "Malawi Cup" bowling tournament hosted by MUGS (Memorial University Geographical Society). Two teams were entered in this fun event, the "Mad Mappers" and the "Crazy Cartographers".

We are planning to send a group of students to the Annual Meeting this year and we have undertaken several fund-raising events which include; bake sales, sale of booklets (Handbook of Cartographic Materials, produced by Mr. Charles Conway and donated to The Society by Professor Clifford Wood), and we have even conducted a lottery on the value of tuition for one semester which proved to be quite successful.

We also have plans for some other activities for the remainder of this academic year and for next year. Some of the more likely ones are tours of local firms in both the private and public sector that deal with Cartography, Computer Mapping, GIS, and also Remote Sensing and Photogrammetry. The short seminars and presentations held over the past semester have been successful and we plan to continue with these in the coming semester. We are also considering producing a T-Shirt for the group that we hope will have a broader appeal to Cartographers everywhere.

If there are any other Cartography student groups out there we would love to hear from you and possibly exchange some ideas.

David Mercer
Memorial University of Newfoundland
St. John's, Newfoundland
A1B 3X9

Cartographic Toys

"A London mapmaker invented the first jig-saw puzzle in the 1760s by mounting a map on a sheet of mahogany and cutting it into small pieces with a fine marquetry saw. The reassembling of it was intended to help pupils learn geography. He sold his "dissecting maps" in wooden boxes with sliding lids and his idea was copied by other manufacturers."

from: THE LYLE PRICE GUIDE TO
COLLECTIBLES AND MEMORABILIA,
1990

submitted by Malcom Brown

Malcom also sends notice of a GIS Colloquium on May 2nd., 1991, at the Red River Community College in Winnipeg. The event is co-sponsored by the CCA and focuses on GIS applications. Rumour has it that CCA manager Roger Wheate is an opening peaker. For more information contact: Marcia Faurer at (204) 474-9098.

CHRONIQUE DE L'HARFANG DES NEIGES (6)

The snowy owl chronicle (6)

Par Majella-J. Gauthier

Les nouveautés dans la formation collégiale et universitaire / Something new in college and university curricula.

La présente chronique veut informer la communauté cartographique de certains changements qui sont intervenus dans la formation collégiale en géomatique et de deux projets qui sont menés au niveau universitaire.

Le Collège de Limoilou

Le Collège de Limoilou dans la région de Québec vient tout juste de réaménager son programme d'enseignement en cartographie. En effet, son Département de géomatique (nouvelle appellation du département précédent), offre un nouveau régime pédagogique en géomatique. Toujours d'une durée de trois ans, la formation comprend 16 cours obligatoires et complémentaires, 10 cours de concentration du tronc commun et 21 cours pour l'option de son choix. Par ce cheminement, l'étudiant obtient un Diplôme d'Études Collégiales (D.E.C.) en géomatique de l'option cartographie ou de l'option géodésie. Le Collège de Limoilou est la seule maison d'enseignement collégial à offrir les deux options, car au Québec le Collège de l'Outaouais ne dispense que l'enseignement de la cartographie et celui d'Ahuntsic que l'enseignement de la géodésie. Le nouveau programme permet également à tous les étudiants à se familiariser dans des cours d'intégration avec la télédétection et les SIRS (Systèmes d'Information à Référence Spatiale).

Pour appuyer l'enseignement le collège peut compter sur du matériel de première ligne. Par exemple, 5 stations Interpro 340 (Intergraph) et les logiciels suivants: Tigris Mapper, Tigris Analyst, Tigris Imager, MicroStation et Informix SQL. On utilise aussi six stations graphiques Amdek 386 et le logiciel TOPOS. Ajoutons également Autocad pour le traitement graphique. En ce qui concerne le terrain, on a fait l'achat de quatre théodolites électroniques TC 1000 et les carnets de notes GRE4. En ce qui concerne la photogrammétrie on utilise un réseau de sept stations HP9000 modèles 330, 340+ et 360 auxquelles se greffe le logiciel Numérigraph. Pour la cartographie thématique: cinq stations Sun 386i modèles 150 et 250; les logiciels TIM et ARRIS en plus d'Informix 4GL.

De plus, les Services aux entreprises du Collège en collaboration avec le Département de géomatique offrent des séances de formation aux entreprises désireuses de prendre le virage géomatique ou de parfaire leurs connaissances et leurs pratiques en la matière: séminaires, formation technique sur des logiciels-outils, formation fondamentale et sessions sur mesure.

Nouveaux certificats universitaires: UQAC et UQAM

Le module de géographie du l'Université du Québec à Chicoutimi (UQAC) a mis au point, au niveau du premier cycle, un nouveau Certificat en télédétection et cartomatique qui s'adresse aux étudiants finissant des collèges, aux professionnels sur le marché du travail et aux étudiants universitaires (géographie, aménagement, biologie, environnement, géologie, archéologie, informatique, etc.) qui désirent parfaire leur formation. Le certificat comprend dix cours qui concernent le traitement numérique d'images, le design graphique, la cartographie assistée par ordinateur, la programmation et les systèmes d'information géographique. Pour la télédétection, on peut compter sur les logiciels suivants: PCI-Easi/Pace, V.I.P., Micropips, Sanil, Octimage, Applepips, Dirigo. Pour la cartographie automatisée: GIMMS et Map-maker. En ce qui concerne les SIG, ce sont SPANS, MapInfo, Idrisi et Map II.

Le certificat offre une formation en gestion de données relatives à l'espace géographique, à l'aménagement du territoire et à l'environnement: domaines indispensables pour la survie de la planète. Les étudiants auront la possibilité de s'intégrer aux activités de deux groupes de recherche, l'un sur la productivité végétale (fort boréale) et l'autre en intervention régionale. Le programme commencera en septembre 1991.

L'Université du Québec à Montréal (UQAM) pour sa part est en train de préparer un Certificat de deuxième cycle en géomatique qui selon les derniers développements prendra la forme de séances intensives. Nous pourrions en parler plus en détails dans une prochaine chronique.

En terminant, j'invite les membres de la collectivité cartographique à me faire parvenir des nouvelles: nominations, activités, projets de recherche, publications, etc. Adressez-vous à l'auteur, Département de géographie, Université du Québec à Chicoutimi, G7H 2B1, tél. 418-445-5096, télécopie 545-5012.

Majella-J. Gauthier

ICA TASK FORCE WOMEN IN CARTOGRAPHY

The secretariat of the ICA task force on Women in Cartography has sent out surveys to an estimated 2-3,000 women cartographers in many of the 60 member countries of the International Cartographic Association (ICA)

The detailed questionnaire explores professional and personal factors, as well as factors associated with the ICA itself, which might affect women's participation in the organization. It also proposes a number of possible incentives to participation.

To our knowledge, this study may be the largest international survey of women cartographers ever undertaken. Considerable interest has been generated to date. Although resources did not permit the Task Force to contact men and the survey is restricted to women in the ICA, the survey results are expected to be of great interest to other international and national associations, particularly those whose participation of women has been disproportionately low and which are now seeking more balanced participation by both sexes in their activities. Survey results will also be of value to all concerned with the participation of women in non-traditional occupations, whether in business, academia or government.

Results of the survey, as well as comments solicited from individuals who have been involved in the ICA in recent years as Board or Commission members, will form several chapters of a *Report and Recommendations* to be tabled at the ICA International Congress in Bournemouth, England in September and October, 1991.

Survey Organizers have had difficulty locating women cartographers in some areas and would be interested in receiving additional names from the following countries: Algeria, Argentina, Australia, Bulgaria, Cuba, Cyprus, Czechoslovakia (CSFR), Dominican Republic, France, Greece, India, Italy, Jordan, Madagascar, Morocco, New Zealand, Peru, Tunisia, the USSR, the United Kingdom, the Yemen Arab Republic, and Zaire. If you can supply any names, please contact (CCA member):

Dr. Eva Siekierska,
National Atlas Information Service
Canada Centre for Mapping
615 Booth Street
Ottawa, ON, Canada K1A 0E9
Tel.: (613) 992-4470
Fax: (613) 992-4961
E-mail: Siekiers@EMRCAN

ASSOCIATE MEMBERSHIP

By/par C. Peter Keller,
vice-president/vice-président

For some time now, the Association has been contemplating the addition of a new membership category. The goal underlying this new membership category is to reach out to Regional Cartographic Associations and other National Associations with an interest in cartography.

Proposed is a membership category that will allow members of Regional Cartography Associations and other National Associations with an interest in cartography to have access to our newsletter, and to have the opportunity to participate in events organized by our Association. Associate membership therefore implies receiving a subscription to our newsletter, the right to participate in events organized or sponsored by our Association at regular membership fees, and to qualify for regular membership price discounts for all products produced or marketed through the Association. Associate members do not have the right to nominate candidates for office in our Association, do not have voting rights, can not hold elected offices, do not receive CARTOGRAPHICA, and do not qualify for travel support to attend conferences.

Membership dues for an Associate Member still need to be determined.

In order to create the above new membership category, it is necessary to adjust our Constitution and By-Laws. In specific, Article III has to be adjusted. Following are the recommended changes:

o *Add* ARTICLE III, Section 1.v.

o *Change* ARTICLE III, Section 4.

ARTICLE III is re-printed in full below. Changes are shown in bold. Note that the *current* and *proposed* wording for ARTICLE III, *Section 4.* is shown.

ARTICLE III Membership

Section 1 Individual Members. Persons who are interested in the objectives of the Association are eligible for membership.

- i. Regular Members. Persons who are employed as professionals in the field of cartography or ancillary field and others interested in furthering the objectives of the Association.
- ii. Student Members. Persons who are pursuing the study of cartography or ancillary field and are currently enrolled full- time in a post-secondary educational institute.
- iii. Family Members. Family membership is defined as a Regular Member and spouse. Each family Membership is entitled to the endorsed, learned journal, two (2) subscriptions to the Association Newsletter and official notices. Further, both parties of the Family Membership are entitled to vote in all elections and both are eligible to hold office, to participate, and to receive full rights normally accorded to members in good standing.
- iv. Retired Members. A Retired Member is defined as a Regular Member who has retired from professional life and who was a Regular Member in good standing for a minimum of four years immediately prior to retirement. The Retired Member is entitled to all rights and privileges accorded to a Regular Member.
- v. **Associate Member. Persons who are a member in good standing of a Canadian regional cartographic association or a member in good standing of a national association with an interest in cartography or ancilliary field. The Associate Member is entitled to one subscriptions to the Association Newsletter and official notices. The Associate Member does not receive the endorsed, learned journal, is not a voting member, can not nominate candidates for office off the Association, and is not eligible to hold office.**

- Section 2 **Honorary Members.** Individuals who have rendered outstanding service in the field of cartography, or other distinguished persons upon whom the Association has conferred honorary membership.
- Section 3. **Institutional and Corporate Members.** Corporations, firms, institutions, libraries, government departments and/or business associations interested in the objectives of the Association.
- Section 4. [*Current Version*] **Membership Rights.** Members in good standing shall have full rights to nominate candidates for office in the Association, vote thereon and hold such offices if duly elected; they shall be entitled to participate, under applicable rules, in meetings, programs and other activities and services of the Association except that Institutional and Corporate members may not hold office in the Association. Institutional members may name one representative, and corporate members two representatives who will be given full membership privileges and all publications and notices.
- Section 4. [*Proposed Version*] **Membership Rights.** Members in good standing, **but not including Associate Members**, shall have full rights to nominate candidates for office in the Association, vote thereon and hold such offices if duly elected. **Members in good standing** shall be entitled to participate, under applicable rules, in meetings, programs and other activities and services of the Association except that Institutional, **Associate** and Corporate members may not hold office in the Association. Institutional Members may name one representative, and Corporate Members two representatives who will be given full membership privileges and all publications and notices.
- Section 5. Membership in good standing may be obtained only by payment of all dues and assessments levied by the Association, except that such dues and assessments are waived for Honorary Members.

These changes will be tabled at the A.G.M. this year, at Brock University. Notice of such a motion has been made according to our constitution and by-laws.

for GIS:

- geographical information system (GIS) for microcomputers
- low-cost, easy-to-use, menu-driven software
- video digitizing and flat-bed scanning for creating digital images
- user-defined organization of raster digital images, alphanumeric data, and vectors
- modular software: MapDatabase, MapEdit, MapLayer, MapVideo, MapScan, MapTerrain
- library of C callable GIS functions (MapLib)

for satellite imagery:

- distributor of Canadian scenes from LANDSAT and SPOT
- on microcomputer diskettes

for GIS-related services:

- digitization and data conversion
- consulting and application development services
- digital elevation model creation

The Nucor logo is displayed in a bold, black, sans-serif font. The letters are closely spaced, with the 'n' and 'u' being particularly prominent. The background of the advertisement features a faint, light-colored map of a geographical area, showing various land features and boundaries.

Nucor Computing Resources Inc.
PO Box 13520
Kanata Ontario Canada
K2K 1X6
Tel: (613) 592-8666 Fax: (613) 592-5995

JOINT ANNUAL MEETING OF THE CANADIAN CARTOGRAPHIC ASSOCIATION AND THE ONTARIO INSTITUTE OF CHARTERED CARTOGRAPHERS

❖ INCORPORATING CARTOTECHNIQUES 10 ❖

BROCK UNIVERSITY, ST. CATHARINES, MAY 31-JUNE 3, 1991

Co-host: the State University of New York at Buffalo

CONGRÈS ANNUEL CONJOINT DE L'ASSOCIATION CANADIENNE DE CARTOGRAPHIE ET DE L'INSTITUT DE L'ONTARIO DES CARTOGRAPHEs SOUS CHARTE

❖ Y COMPRIS CARTOTECHNIQUES 10 ❖

UNIVERSITÉ BROCK, ST. CATHARINES, LE 31 MAI AU LE 3 JUIN 1991

Co-hôte: l'université de l'État de New York à Buffalo

A conference brochure, including a registration form, was mailed to members of the CCA and OICC in March. If you did not receive yours, please contact us at the conference address. Please contact us also if you know of anyone else who should receive one. *Nous avons envoyé un bulletin qui contenait une feuille d'inscription aux membres de l'ACC et de l'OICC en mars. Si vous n'avez pas reçu le vôtre, veuillez nous avertir à l'adresse du congrès. S'il vous plaît, veuillez nous contacter si vous connaissez aucun autre qui en aura besoin.*

GRAND PRE-CONFERENCE CONTEST / GRAND CONCOURS PRÉCONGRESSIONNEL

The answers to the following questions are all to be found in the conference brochure. Write your answers on the back of your registration form, or if you have already registered send them in separately. The first five correct answers received will win a magnificent Brock University mug, emblazoned with the image of Major-General Sir Isaac Brock, defender of Canada against the Americans in the War of 1812. This is a genuine contest! Good luck!! *Les réponses aux questions suivantes se trouvent tous dans le bulletin du congrès. Écrivez vos réponses de l'autre côté de votre feuille d'inscription, ou si vous vous êtes déjà inscrit(e), envoyez-les séparément. Les cinq premières réponses correctes que nous recevrons gagneront une tasse de l'université Brock, blasonnée de l'image de Général de division Sir Isaac Brock, défenseur du Canada contre les Américains pendant la guerre de 1812. C'est un concours légitime! Bonne chance!!*

1. What major feature is missing from Robert Bakewell's engraving? [No, it's not the Skylon Tower] *Quel grand trait manque de l'estampe de Robert Bakewell? [Ce n'est pas la tour Skylon]*
2. What is the deadline for early (i.e. cheap) registration? *Quelle est la date limite pour l'inscription prompte (bon marché)?*
3. In what year did the banquet speaker die? *En quelle année l'orateur du banquet est-il mort?*
4. What was the name of Brock's horse? [Hint: check the program, and the maps] *Comment appelait-on le cheval de Brock? [Voir le bulletin, et les cartes].*
5. Whom do you contact to exhibit your maps? *Qui appelez-vous si vous voulez exposer vos cartes?*
6. For what culinary delight is the Queen City renowned? *Pour quelle délice culinaire la Ville Reine est-elle renommée?*
7. How long has M. Dobson been with Rand McNally? *Depuis quand M. Dobson est-il employé de Rand McNally?*
8. What number is the QEW and Highway 406 interchange? [A trick question, so take a guess] *Quel est le chiffre de l'échange des autoroutes QEW et 406? [C'est une question difficile, alors devinez]*
9. How long are paper abstracts meant to be? *De quelle longueur anticipons-nous les abstraits pour les communications?*
10. What will happen if you don't bring your documentation? *Qu'est-ce qui aura lieu si vous n'apportez pas vos documents?*

LAST CALL FOR PAPERS / DERNIER APPEL POUR LES COMMUNICATIONS

There is still time to submit a paper, on any topic in cartography and related fields. Please submit an abstract of 150-200 words to Alun Hughes, together with your mailing address, telephone number and email address, by April 26. Yes, we accept last-minute phone-calls! *Il reste encore du temps pour soumettre une communication sur aucun sujet ayant rapport à la cartographie et aux disciplines alliées. Veuillez soumettre un abstrait de 150-200 mots à Alun Hughes, avec votre adresse de poste, numéro de téléphone, et adresse de courrier électronique, avant le 26 avril. Oui, nous acceptons des coups de fil au dernier moment!*

CALL FOR MAP EXHIBITS / APPEL POUR LES EXPOSITIONS DES CARTES

We hope that many of you will accept our invitation to display your maps, or those of your organization. We should be able to provide everyone with at least two 4 x 4 foot tackboards. If you won't be here for the Friday setup of exhibits, send us your materials in advance and we will mount them for you. To make arrangements for exhibiting please contact Loris Gasparotto. *Nous espérons que plusieurs parmi vous accepterez notre invitation à montrer vos propres cartes, ou celles de votre organisation. Nous espérons fournir tout le monde au moins deux écriteaux de dimensions 4 x 4 pieds. Si vous ne serez pas ici vendredi pour la mise en scène des expositions, envoyez vos matériaux à l'avance, et nous les monterons. Pour faire des arrangements pour l'exposition, veuillez contacter Loris Gasparotto.*

THE BUFFALO CONNECTION / LA CONNEXION BUFFALO

The trip to Buffalo on the Monday will include a guided tour of the facilities of the National Center for Geographical Information and Analysis, or more specifically the Geographic Information and Analysis Laboratory shared by the NCGIA and the Department of Geography. The GIAL occupies a former student pub (unlike Brock, SUNY Buffalo is dry!) and is both vast in size and extremely well equipped with a wide variety of terminals, computers (including a network of Sparc workstations), peripherals and software. *Le voyage à Buffalo lundi comprendra un tour guidé des facilités du Centre national d'information et d'analyse géographiques, ou plus précisément, le Laboratoire d'information et d'analyse géographiques que partagent le NCGIA et le Département de géographie. Le GIAL (labo) occupe une ancienne taverne des étudiants (pas comme Brock, SUNY est 'sec') et il est à la fois immense et très bien équipé d'une variété de terminaux, d'ordinateurs (y compris un réseau de postes de travail Sparc), de périphériques et de logiciels.*

PROGRAM SUMMARY / SOMMAIRE DU PROGRAMME

Friday, May 31 / vendredi, le 31 mai: CCA and OICC executive meetings. Semiology meeting. Setup of exhibits. Icebreaker reception. *Réunions des conseils exécutifs de l'ACC et de l'OICC. Réunion de sémiologie. Montages des expositions. Réception de première rencontre.*

Saturday, June 1 / samedi, le 1er juin: Opening of conference. Plenary session. Concurrent paper sessions and workshops. OICC annual general meeting. Trip to Niagara Falls. *Ouverture du congrès. Séance plénière. Séances des communications et ateliers simultanés. Réunion générale annuelle de l'OICC. Voyage à Niagara Falls.*

Sunday, June 2 / dimanche, le 2 juin: Concurrent paper sessions and workshops. CCA annual general meeting. Reception and banquet. *Séances des communications et ateliers simultanés. Réunion générale annuelle de l'ACC. Réception et banquet.*

Monday, June 3 / lundi, le 3 juin: (at SUNY Buffalo / à l'université de l'État de New York à Buffalo). Guided tour of NCGIA facilities. Concurrent paper sessions. *Tour guidé des facilités du NCGIA. Séances des communications simultanés.*

REGISTRATION AND ACCOMMODATION / INSCRIPTION ET HÉBERGEMENT

The registration fee covers all conference events, materials and coffee breaks, bus transportation, the banquet, and three lunches. Accommodation during the conference is \$35 a night, which includes breakfast. Please contact us if you have special requirements. *Les frais d'inscription comprennent tous les événements du congrès, les matériaux, les goûters, le transport par autobus, le banquet, et trois déjeuners. L'hébergement pendant le congrès coûtera 35\$ par nuit, y compris le petit déjeuner. Veuillez nous contacter si vous avez des besoins spéciaux.*

Early registration (before April 26)	CCA/OICC member	Membre ACC/OICC	\$130
Inscription prompte (avant le 26 avril)	Non-member	Non-membre	\$145
	Student	Étudiant(e)	\$75
Late registration (after April 26)	CCA/OICC member	Membre ACC/OICC	\$150
Inscription tardive (après le 26 avril)	Non-member	Non-membre	\$165
	Student	Étudiant(e)	\$95

CONFERENCE ADDRESSES / ADRESSES DU CONGRÈS

Mailing Address / Adresse de poste: CCA/OICC '91, Department of Geography, Brock University, St. Catharines, Ontario, Canada, L2S 3A1.

Fax / Télécopieur: (416) 688-2789, (416) 682-9020.

Telephone / Téléphone: (416) 688-5550, ext. 3489 (Alun Hughes, David Flack), ext. 3491 (Loris Gasparotto).

Electronic Mail / Courrier électronique: gghughes@brocku.ca (Alun Hughes), ggsflack@brocku.ca (David Flack).

President's Prize Competition 1991

Concours pour le Prix du Président 1991

Submissions are invited for the 1991 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.

Vous êtes invités à soumettre votre projet cartographique au concours pour le Prix du Président 1991. Ce concours est ouvert aux étudiants et étudiantes de niveau post-secondaire ainsi qu'aux personnes venant d'accéder au marché du travail et occupant depuis peu un emploi dans un organisme produisant ou utilisant des cartes. Cette année, le concours comprend des prix répartis dans cinq catégories et, dans chacune d'elles, un prix en argent (de l'ordre de 50,00\$) accompagnant un certificat sera décerné lors de la réunion annuelle de l'ACC.

Award Categories/Les cinq catégories comprennent:

Monochromatic Map/ Carte monochrome:

A printed map or proof in black and white. Emphasis in this category will be placed on innovation in data manipulation, symbolization, and graphic design. Each entry must be accompanied by a brief (500 words max.) typewritten text describing the purpose of the map. Une carte monochrome imprimée en noir et blanc (ou à l'étape de l'épreuve monochrome). Dans cette catégorie, l'évaluation portera sur l'innovation en regard du sujet choisi, de son interprétation, de sa symbolisation et de la qualité graphique. Un court texte (maximum de 500 mots) devra définir la problématique et les objectifs de la carte.

Award value/valeur: 50 \$Cdn

Colour Map/ Carte couleur:

A printed map or proof in multiple colours. In this category, emphasis will be placed on excellence of execution and fulfillment of stated design objectives. Each entry must be accompanied by a brief (500 words max.) typewritten text describing the purpose of the map. Une carte imprimée couleurs (ou à l'étape de l'épreuve couleurs). L'évaluation portera sur la qualité de l'exécution de la carte et la réalisation des objectifs prévus dans le projet. Un court texte (maximum de 500 mots) devra définir la problématique et les objectifs de la carte.

Award value/valeur: 50 \$Cdn

Journalistic map/ Production "carto-journalistique":

A map suitable for reproduction in a popular newspaper or magazine. Each entry must be accompanied by a brief (500 words max.) typewritten text describing the purpose of the map.

La meilleure production "carto-journalistique". Un court texte (maximum de 500 mots) devra définir la problématique et les objectifs de la carte.

Award value/ valeur: Time magazine has generously donated 300.00 \$US for this award. Une prix de 300,00 US\$ est offert par Time Magazine.

Formal Written Paper/ Texte écrit conventionnel:

A paper of approximately 2000 words on any theme related to cartography, submitted in the style and format required by the journal "Cartographica".

Un texte écrit conventionnel portant sur des sujets cartographiques d'ordre théorique, administratif, ou pratique. L'article, comptant plus ou moins 2 000 mots, devrait être soumis dans le style et le format exigés par la revue "Cartographica".

Award value/valeur: 50 \$Cdn

Computer Algorithm/ Algorithme d'ordinateur:

Computer algorithm (specific to a cartographic problem) submitted in code form in any language with a brief description and evidence of operation.

Un algorithme d'ordinateur (spécifiquement conçu pour résoudre un problème cartographique) soumis sous forme de code, de quelque langage que ce soit, accompagné d'une brève description et d'une preuve de son fonctionnement.

Award value/valeur: 50 \$Cdn

Submissions must reach the CCA Office in Calgary (address page 3) by May 3, 1991, or may be brought directly to the St. Catherine's Meetings, May 31 1991.

Les candidatures au concours doivent parvenir à l'ACC à Calgary (voir page 3 pour l'adresse) au plus tard le 3 mai, 1991, ou les réunions annuelles de l'ACC à St. Catherine's, le 31 mai, 1991.

Membership in the CCA is not required.

Il n'est pas nécessaire d'être membre de l'ACC pour participer au concours.

The Norman L. Nicholson Scholarship in Cartography La Bourse Norman L. Nicholson en Cartographie

The Canadian Cartographic Association is proud to offer the Norman L. Nicholson Scholarship in Cartography in honour of our late colleague. This scholarship, valued initially at \$500.00, is awarded annually by the Canadian Cartographic Association. It is intended to recognize and encourage exceptional student achievement and ability in any aspect of cartography.

L'Association canadienne de cartographie est fière d'offrir la bourse Norman L. Nicholson en cartographie pour honorer cet illustre collègue. Cette bourse, dont la valeur est au départ établie à 500,00 \$, est remise annuellement par l'Association canadienne de cartographie dans le but de reconnaître et d'encourager les étudiants dont les réalisations et les talents sont exceptionnels dans un aspect ou l'autre de la cartographie.

To qualify the applicant must be:

1. A Canadian citizen or landed immigrant.
2. A student who proposes to continue full time studies in cartography in one of the following institutions:
 - a) entering the final year of a college or CEGEP program;
 - b) entering the final year of an undergraduate honours program;
 - c) entering the first year of a graduate program.

Pour être admissible, un candidat doit être:

1. Un citoyen canadien ou émigrant reçu.
2. Un étudiant quise propose de poursuivre des études à plein temps en cartographie dans un des cas suivants:
 - a) entrer dans l'année terminale d'un Collège communautaire ou de CEGEP;
 - b) entrer dans l'année terminale d'un programme honneur de premier cycle;
 - c) avoir été accepté en première année d'un programme d'Etudes Supérieures.

To apply, the applicant must submit the following:

1. A completed application form;
2. An official transcript of all college/CEGEP/university courses completed and grades received;
3. Letters of recommendation from two faculty members who are familiar with the work and abilities of the applicant. Letters must be sent directly to the CCA office by these faculty members;
4. A one-page typed statement outlining the applicant's goals for continuing education in cartography.

Pour postuler, il faut soumettre les documents suivants:

1. un formulaire de demande dûment complété;
2. une relevé de notes officiel de tous les cours terminé dans un collège/CEGEP/université avec les notes reçues;
3. des lettres de recommandation de deux membres du corps enseignant qui connaissent bien le travail et les qualités de l'étudiant. Les lettres de recommandation doivent être expédiées *directement par les enseignants* au Comité des bourse à l'adresse sous-indiquée.
4. un exposé d'une page dactylographiée indiquant vos buts dans le cadre d'études avancées en cartographie.

All materials must be received by the Awards committee no later than May 17, 1991. Requests for applications and all other questions should be directed to the CCA Office. (See page 3 for address.)

Les documents doivent parvenir au Comité des bourse le 17 mai, 1991 au plus tard. On peut se procurer un formulaire en appelant le bureau central de l'ACC (voir page 3 pour l'adresse).

Membership in the CCA is not required.

Il n'est pas nécessaire d'être membre de l'ACC pour participer au concours.

Automation Interest Group/ Groupe d'Intérêt en Automatisation

DISK LIBRARY ORDER FORM

In the listings below, the last line of each entry lists the computer system for which the programs were written and the cost (generally \$10.00 per disk). All MS-DOS disks require MS-DOS 2.0 or higher. Disks indicated with a "P" prefix are primarily computer programs, those with a "D" prefix primarily contain data, while those with an "A" prefix are primarily concerned with the presentation of documented algorithms. Lower-case letters after a disk number indicate that more than one disk belongs to the set.

Disk id.	Description
P1 ab	A special enhanced version of the program set described in the Dec. 1987 issue of BYTE for programming map projections. Includes source code (Turbo Pascal v4.0), executable program (complete with Metawindow driver for virtually any graphics display and printscreen a printscreen utility) and three versions of the World Data Bank I (the highest resolution version includes political boundaries and consists of 90,000 points). This set is not available from BYTE listings, but only through the authors (Robert Miller and Francis Reddy), or the CCA/ACC. This two disk set is distributed in compressed format and requires a minimum of 720 kb disk space for decompression. MS-DOS (2 Disks) \$20.00 quantity req:____ Non-members \$30.00 quantity req:____
P2	A single (360 kb.) disk version of P1. Contains all of the same programs, but only two versions of the World Data Bank I - the low (6,000 points) and medium (15,000 points) resolution versions (neither has political boundaries). MS-DOS (1 Disk) \$10.00 quantity req:____ Non-members \$15.00 quantity req:____
P3	A line generalization program contributed by Ron Eastman. The program (.EXE file and Turbo Pascal 4.0 source code supplied) generalizes by point selection, low-pass filtering (3 or 5 point), and tolerance band filtering (Douglas & Peucker technique). Output consists of a new data file in generalized form, with generalization statistics given at the end. The disk also contains a simple plotting program that allows these lines to viewed on Hercules, CGA, EGA, and VGA monitors. MS-DOS (1 Disk) \$10.00 quantity req:____ Non-members \$15.00 quantity req:____
P4	UVIC SDT Spatial Data Translation routines, contributed by Peter Keller and Mike Gartrell. Allows translation of data files from a: World digitized to Atlas Graphics, b: ARC/INFO to PAMAP, c: Area Master File to PAMAP. (2 Disks) \$20.00 quantity req:____ Non-members \$30.00 quantity req:____
P5	"Zapper" A set of line generalization routines contributed by Steve Prashker, Carleton University, generated from algorithms described in 1988 Cartographica monograph "Numerical Methods in Cartography". Comes with 6 sample base maps. NEW!!! (1 Disk) \$10.00 quantity req:____ Non-members \$15.00 quantity req:____
P6	Quickmap World SW. A computerized atlas for educational purposes, contributed by Cartosoft Ltd, Devon, AB. Finds geographical locations and features, including lat/long, plus call-up facts such as population, etc. NEW!!! (1 Disk) \$10.00 quantity req:____ Non-members \$15.00 quantity req:____
D1	Two North American datasets (provincial and state boundaries) contributed by David Douglas. One is projected on a Lambert projection while the other is in the form of an area cartogram equalized for population density (isodemographic boundaries by Eastman, Shields, and Nelson). The pair of datasets provides an excellent base for choropleth mapping. (1 Disk) \$10.00 quantity req:____ Non-members \$15.00 quantity req:____
D2 abcd	Micro-World Databank II, level 3. Contains over 26,000 points and describes coastlines, political boundaries, islands, rivers, and lakes. MS-DOS (4 Disks) \$35.00 quantity req:____ Non-members \$45.00 quantity req:____
D3	A four disk set of raster layers for Kenya produced by the FAO. Includes district codes, thermal zones, length of the growing period, rainfall pattern, dominant and secondary physiological and geological mapping units, forests, irrigation and cash crop zones, tsetse counts, national parks, game reserves, and population density. Also includes a module contributed by Ron Eastman to download the data into the Idrisi GIS system. The data are stored in ASCII format and can be loaded into any system with a bit of programming. An excellent teaching set! MS-DOS (4 Disks) \$30.00 quantity req:____ Non-members \$45.00 quantity req:____
D4	A set of raster GIS layers for Kootenay Park, B.C., produced by Alan Masters. Includes elevation, ecological land classification, elk habitat, forest classification, stand origin, and prescribed wildfire units. A good teaching set for the Canadian context. (1 Disk) \$10.00 quantity req:____ Non-members \$15.00 quantity req:____

Total Payable: _____ Cheque payable to *Canadian Cartographic Association* All Prices in Canadian \$
or use Visa (card number, expiry date, and signature required). Number of disks based on 360Kb.format

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A: Photocopy this page.

Send order and full payment to:
David Douglas (CCA/ACC)
Department of Geography, University of Ottawa
Ottawa, ON, Canada, K1N 6N5

Name: _____
Institution: _____
Address: _____
City: _____
Prov./State: _____ Country: _____
Code: _____

B: E-mail order to: DHDAD@UOttawa

If using E-mail, ensure that you state which disks, quantity of each, disk format required, and shipping/billing information.
Visa/Mastercard accepted (*suggested*) via E-mail.
Give card number and expiry date.

! Indicate Disk format required: 5.25" 360 kb. ____
5.25" 1.2 mb. ____
3.5" 720 kb. ____
3.5" 1.4 mb. ____

**Minutes of the Canadian Cartographic Association
Executive Meeting
10 June 1990 University of Victoria**

Present: Jean Carrière, Claudette Leblanc, Diana Dacen, Brian Klinkenberg, Roger Wheate, Norman Drummond, Ron Eastman, Gary McManus, Gordon Shields

2:30 pm

Jean Carrière called the meeting to order.

G. Shields moved adoption of agenda as circulated, seconded by B. Klinkenberg. Carried.

G. Shields moved adoption of the minutes of the meeting of January 27-28 in Montreal, seconded by Diana Dacen. Carried.

Business Arising From the Minutes

J. Carrière and N. Drummond reported having met with the Executive Officers of the Canadian Institute of Surveying and Mapping (CISM) during the winter/spring of 1990. It was agreed that we would postpone discussion of the CISM/CCA initiatives until tomorrow.

President's Report

J. Carrière reported that the CCA is getting back on a sound financial footing, helped in large part by a membership fee increase.

Two topics had occupied much of the President's time since our last meeting in January 1990

1. Liaison with other associations
2. SSHRCC/NSERC application problems

The CCA has taken a leadership role regarding liaison with other associations. The CISM wants to work in cooperation with us to better serve cartographers in Canada.

The onus is on the CCA to propose a new national structure for cartographic associations in Canada. The CISM would prefer to see an evolution to a federation of surveying and mapping organizations, including cartography, under the umbrella of a reconstituted CISM

Both Jean Carrière and Norm Drummond met with SSHRCC & NSERC to discuss the funding of cartographic research. SSHRCC is open to subsidizing learned societies, including the CCA. NSERC has recently revised their research classification scheme to include cartography specifically. It was stressed by Jean Carrière that we need to continue our liaison with these agencies. Jean Carrière thanked Norm Drummond for his assistance in this venture.

Vice President's Report

Claudette Leblanc stated that she would consider it a part of her mandate to continue the work on strengthening liaisons with other groups which was begun by Norm Drummond and Jean Carrière.

Secretary's Report

Gordon Shields moved, seconded by Jean Carrière that the CCA Executive endorse the name "Cartouche" as the new title for the CCA Newsletter. This was passed unanimously by the executive.

Jean Carrière moved and Norm Drummond seconded the motion to thank Gordon Shields for his work as Secretary and Newsletter Editor over the past two years. Gordon Shields reported that the next issue of the Newsletter V.16, #2 1990 would be published in late July. Diana Dacen urged that the Newsletter from this point forward be published using recycled paper, if possible.

Treasurer's Report

Gary McManus questioned whether compensation should be offered to the auditors for their inspection of our books. It was agreed that we present them with a copy of "Exploration in the History of Canadian Mapping" edited by B. Farrell and A. Desbarats. Gary McManus emphasized the need for a policy on the funding of workshops, speakers, etc. It was agreed that this topic should be discussed at the next Executive Meeting (13 June 1990).

The treasurer's report was presented and its acceptance moved by Claudette LeBlanc, seconded by R. Eastman.

Manager's Report

Roger Wheate indicated that our current membership stood at 350 paid up members for 1990. A third and final renewal notice was sent out to 1989 members not yet paid up for 1990.

The disk library continues to expand and is bringing in additional revenue. The CCA manned an effective display, prepared by Diana Dacen, at the GIS meeting in Ottawa in March 1990.

" Mapping the Planets" slide sets, P. Keller and P. Stooke, are now ready for distribution and will be advertised in CCA Newsletter. Ron Eastman moved the adoption of the Manager's Report, seconded by Norm Drummond.

Interest Groups

Technology: Jean Carrière informed the Executive of Tim Wood's resignation from this position, owing to changing job responsibilities. It was decided to select a new Technology IG chair after the election to be held tomorrow. It was moved by Jean Carrière, seconded by Ron Eastman, that a defeated candidate in the elections could be approached to take over for the remainder of Tim Wood's mandate.

Map Use/Design: Diana Dacen reported that she had prepared a new CCA display which was used for the first time in Ottawa at the GIS meeting in March. It was stressed that the display need not be static in content, as changes and additions can be easily made as required.

Education: Brian Klinkenberg reported that there would be no student paper session winner this year, as none of the entrants qualified.

Computer assisted Mapping/GIS: Two Macintosh workshops have been organized by Anne Gibson of Clark University. A regular column in the CCA Newsletter is continuing with two more instalments on Pascal programming planned.

History of Cartography: M. Hutchison was not present at the meeting, but had noted in a prepared report to members of the executive that a paper session for the Victoria meeting would go ahead as planned.

Nomination Committee: Norman Drummond, chairman

Norman Drummond had several recommendations to make, based on the experience of the past year, with the first being that the committee should its work start earlier. Secondly, he suggested that a sheet be circulated at the AGM on the 12 June on which those in attendance can note the names of potential candidates for office in the various open positions.

Liaison with other cartographic organizations Jean Carrière

Jean Carrière sent a CCA position paper to the OICC regarding a merger of the OICC with the CCA. The position paper was later presented by Jean Carrière at a meeting of OICC membership in Ottawa on 27 February, 1990. At this time the OICC chose to set up a committee to look into a possible merger with the CISM. Shortly after this meeting the president of OICC, Claire Gosson, resigned and was replaced by David Stafford.

In March, Jean Carrière met with Tim Koepke, president of CISM. The CISM would like to have the CCA join with other surveying and mapping groups in Canada under a CISM federation. This was deemed unlikely in the short term by Jean Carrière, although it remains a long term goal. The CISM does not appear to be interested in accommodating the OICC charter.

Both Tim Koepke and Ross Douglas of CISM would like a proposal from the CCA concerning the restructuring of cartographic associations across Canada. The CISM will be meeting in August. Carrière noted that a CCA committee would have to be struck to deal with this issue and prepare a report to CISM in early July.

Peter Keller stressed that continuity of membership would be important in a committee with this task. The Executive decided that the most suitable committee would consist of Jean Carrière, Claudette Leblanc and the new Vice President to be elected. Moved by Brian Klinkenberg, seconded by Ron Eastman that the committee be given a mandate to set out a proposal on behalf of the CCA - Passed unanimously.

CCA Prizes

Roger Wheate, Jean Carrière, Claudette Leblanc and Norm Drummond will judge submissions for the President's Prize awards.

Reevaluation of Jobs and Tasks

A committee composed of Roger Wheate, Gordon Shields, and James Britton will look into the reorganization of administrative positions in the CCA executive and report back for the Winter executive meeting in 1991.

Future Annual Meetings

1990 -

About 100 registrants for the current meeting in Victoria

1991 -

Brock University/ SUNY Buffalo. Organizer: Alun Hughes

1992 -

Montreal (UQAM/McGill/Concordia/Université de Montreal)

organizers: N. Drummond and J. Carrière

Associate Membership

This topic should be considered along with the CISM federation initiative, as any future arrangements may impact on our efforts to establish a new category of associate member.

Meeting adjourned - 6:00 pm

Minutes of the Canadian Cartographic Association Special Executive Meeting 11 June 1990 University of Victoria

Present: Jean Carrière, Diana Dacen, Norman Drummond, Ron Eastman, Peter Keller, Brian Klinkenberg, Claudette Leblanc, Gary McManus, Gordon Shields, Roger Wheate

12:30 pm

This special meeting was called by President Jean Carrière to discuss the possible response of the CCA to the Canadian Institute of Surveying and Mapping (CISM) initiative of federation for Canadian mapping organizations.

The CISM is currently discussing a possible federation of all professionals concerned with various aspects of mapping in Canada, including cartographers, hydrographers, remote sensing specialists, surveyors and others.

It is presently the opinion of some within the CISM Executive Committee that the "geomatics" industry should be a separate component in any federation.

At present, the Canadian Cartographic community is represented by a number of national and regional associations. As well, individuals, institutions (government and other) and private companies on occasion represent cartography at various venues. Regional organizations exist in Quebec, Ontario and British Columbia

At this point, several members of the CCA Executive Committee presented opinions on points relating to our possible response to the CISM.

-Several regional associations were created largely as a result of disillusionment with other national cartographic associations (Keller)

-We need to investigate the possible ramifications of incorporating a number of regional associations under the CCA umbrella. (Eastman)

-A national cartographic association with input from regional groups is a necessity in a country like Canada. (Carrière)

-The CCA should decide which constituency it wishes to represent and not be influenced by any suggestions from other associations, including CISM. The CISM executive will undoubtedly change and their opinion on these matters may change as well. (Dacen)

-We need to take the initiative in response to the invitation from CISM to cooperate on some form of federation. The risks to the CCA are relatively low and our position has improved markedly in the past ten years (Carrière)

Meeting adjourned 1:15 pm

Map Production Technology Interest Group

by
Roy Doyon

Due to the ambiguity of the term "technology" within the context of cartography we've inserted the explanatory phrase "map production" to clarify the focus of the interest group. In conversations with CCA members at our annual meetings I've sensed the perception that the Technology interest group was primarily concerned with manual or traditional methods of map production as opposed to "modern" or automated map production. As evidence of this misperception several years ago a nominee for the chair of this interest group withdrew his nomination at the last moment when he discovered that its focus was not digital or computer cartography. At the Halifax meetings a young cartographer, on learning that I was the nominee for the technology IG chair, told me that traditional cartography was dead and that automated cartography was the wave of the future.

I think this is the wrong perspective for a number of reasons. First of all the modern (i.e. automated) versus traditional perspective inevitably leads to a "have" versus the "have nots" dichotomy and would result in an invidious class distinction between cartographers associated with particular interest groups. It also (in my opinion) obviates the essential function of the interest groups which is to organize the various content of cartography to better disseminate information to our membership. The CCA interest groups are mechanisms to facilitate communication between cartographers in our organization not a means to form barriers between them. Finally, traditional or manual modes of map production are not dead. I recently observed a geologist preparing camera ready copy on a light table with a technical pen fine-tuning patterns to accurately reflect every fold and fault thrust of a particularly complicated geologic structure. Given the large format of his map and the idiosyncratic patterns he was reproducing on his manuscript it seemed apparent that his methodology was appropriate. Automation is an additional tool for us to exploit but it will not obviate manual cartography in the same way that color photography did not do away with black and white photography.

The unifying theme or focus of the map production technology IG is the "production" of a final product (i.e. the map). It is neither time nor method specific. It includes the eloquent pen and ink technology as exemplified by an Erwin Raisz or A. K. Lobeck, the various electronic desktop graphic systems (Illustrator, Freehand, Corel Draw), as well as the multimegabyte

devouring workstations associated with a number of GIS systems (eg. ArcInfo, Intergraph). It is an opportunity to investigate all aspects of map production from initial layout to press proofing.

In the 80's automation had a strong impact on map production technology but for most of us represented a potentiality rather than an actuality because it was capital intensive (i.e. prohibitively expensive). Few of us are affiliated with organizations that could afford the state-of-the-art automated production facilities acquired by National Geographic during the 1980's. In the 90's, however, we will witness the widespread adoption of desktop systems that have already started to impact atlas production. In the 90's small-format map production will no longer necessitate a darkroom. We will still need to have a fundamental knowledge of the concepts of manual production methods, particularly in regard to color separations and color theory. The time saved in the darkroom can then be devoted to other map production tasks. Currently the majority of desktop software used for map production (specifically those packages capable of producing screened color separations (such as Illustrator or Corel Draw) were developed for graphic artists not cartographers. We have just begun to explore the potential of these powerful yet inexpensive software packages which will cut our production time and costs in half. We will need to learn both the potential and the pitfalls of these splendid electronic gadgets. For the foreseeable future, however, economies of scale and astronomical hardware costs will dictate that large format maps be manually produced, particularly by smaller organizations producing only a few maps each year.

Your Participation Is Needed

I am in the process of contacting all members who expressed an interest in technology on their membership renewal forms. I hope that we can translate that interest into a useful forum - within the pages of this newsletter and at the upcoming annual meeting. Beginning with this issue, the newsletter will include a brief and informal "technical notes" section specifically related to map production technology. I invite you to send me any related material that you feel would be of interest to other participants in the technology IG.

Annual Meeting Activities

Two forms of activities are being organized for the meetings at Brock University. In recognition of the duality of the cartographic personality I am planning activities for the active and passive personality type. For the activist type a paper session is offered for your consideration:

The Paper Session: The objective of this session is to inform members about map production procedures or problems with either traditional or with emerging technologies. Topics related to atlas production or with the production and printing of special project maps are especially encouraged. I've participated in three atlas projects, the last two as production director, and the information I received from my cartographic colleagues involved in similar projects was invaluable to me. The annual meetings are an ideal place to broaden your horizons.

A Map Exhibition: Products produced by CCA members, (private or public sector) are being solicited along with a brief account of production methods for the edification of those passive yet inquisitive souls that attend our annual meetings. The objective of this exhibit is to display the variety of maps and concomitant production methods employed by our membership. If you have a printed map product that you would like to exhibit please send it to Loris Gasparotto (Brock University, St. Catharines, Ontario, Canada, L2S 3A1) along with a brief typed description of how it was produced.

Technical Notes

Trade Journals: An excellent source of information about current and emerging technologies is the trade journals of the printing industry. Map production, in fact may be considered a specialized form of prepress activity. The Canadian Printer, American Printer, and Graphic Arts Monthly are prominent journals providing timely information about equipment, film supplies, and other information that relates to map production. The November, 1990 issue of Graphic Arts Monthly, for example, contained an article detailing the printing industry in Canada, an article describing the screen angle problems associated with digitally produced tint and halftone screens, and announced an upcoming series of software reviews of desktop publishing systems. These journals often contain articles on color proofing, printing inks and papers, color specification and quality control. If you prepare material to be printed the trade journals are invaluable.

Best Promotions In a Trade Journal

Agfa is currently running a promotion offering free diffusion transfer supplies (16 ten packs of Copyproof film and papers with developer) along with a free "Fight indecent exposures" T-shirt. AgfaCompugraphic and Adobe are offering a free seminar on digital color prepress systems which is scheduled for Toronto on March 19. Even if you can't attend the seminar you may wish to obtain their 32 page reference publication: An Introduction to Digital Color Prepress which is available from their marketing communication depart-

ment at no charge. This reference guide is touted as an objective educational booklet which describes the ways in which DTP PostScript color prepress systems are used to create documents. Call Agfa at 1-800-227-2780 for details regarding the seminar and 416-241-1110 for information about the Copyproof promotion.

Calendar/Calendrier

1991, May/mai 22-24

Congrès Carto-Québec, 1991
CEGEP de Limoilou
Info: Pierre Paradis (418) 647-6614

1991, May/mai 26-30

1991 Annual Conference of the Association of Canadian Map Libraries and Archives
Ottawa, ON
Info: Louis Cardinale (613) 996-7619
Fax/Télécopieur: (613) 995-4451

1991, June/juin 4-5

2nd Annual Alabama GIS Information Exchange
Montgomery Alabama.
Sponsor: Birmingham & N. Alabama Urisa Chapter
Info: Kay Cleveland (205) 250-3673
Deb Shaack (205) 977-2058

1991, July/jul 9-12

GISDEX
Geographic Information & Spatial Data Exposition
Washington, DC.
Focus: "The Federal niche"
Info: Brenda Abbrams (301) 445-4400
Fax/Télécopieur: (301) 445-5722

1991, Sept/sept 23 - Oct/oct 1

15th. International conference of the ICA
Bournemouth, U.K.
Info: Clifford Wood, Department of Geography,
Memorial University of Newfoundland
St. John's, Nfld. A1B 3X9

1991, Oct/oct 27-30

GIS/LIS '91 Annual Conference and Exposition
Atlanta, Georgia.

1991, Nov/nov 14-15

Geomatics III/Géomatique III
Montreal, PQ.
Info: Lise Labelle (514) 369-5000
Fax (514) 369-5059

The Canadian Cartographic Association La Association canadienne de cartographie

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Category/catégorie		Please indicate relevant interest groups/ S.V.P. indiquez vos groupes d'intérêt		
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Student/étudiant	\$35.00/35,00\$	_____	Map design and use/La conception et utilisation des cartes	_____
Institutional/institution	\$90.00/90,00\$	_____	Education/éducation	_____
Corporate/corporation	\$175.00/175,00\$	_____	History/histoire	_____
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Content Deadlines are: January 31, April 30, July 30, October 31.

Les dates limites pour l'envoi d'articles ou de documents sont les suivantes: 31 janvier, 30 avril, 30 juillet, 31 octobre.

Cartouche is produced using Ventura Publisher 2.0., operating under MS-DOS 4.0.

Acceptable Formats for content are:

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ASCII text files in all PC or Mac diskette formats

Also acceptable:

PC-DOS Format 5.25/3.5"

Wordperfect (4.0-5.0), Multimate, Wordstar (3.0-5.5).

Macintosh Format

MS-Word.

Hard Copy: Typewriter, Neat hand writing(!)

Camera-ready proof for 6.5" by 9" (max.) copy.

Contributors may optionally back-up digital submissions with hard copy.

Disks should be sent via mail (protect it!!!) or courier to Editor at S.S.F.C. (address page 2).

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Nous acceptons aussi les formats suivants:

Disquettes PC-DOS de 5.25 ou de 3.5 pouces

Les textes utilisant les logiciels WordPerfect (4.0-5.0), Multimate, Wordstar (3.0-5.5),

De format Macintosh.

MS-Word -

Les documents soumis doivent être dactylographiés ou écrits très soigneusement à la main.

Épreuves prêtes à la photo pour les copies de 6,5 pouces par 9,0 pouces (max.).

Nos collaborateurs peuvent envoyer leur document sur disquette (protégez-la bien!) de même que sur tirage au Sir Sandford Fleming College, par la poste ou par courrier. (pour le adresse, voir page 2)