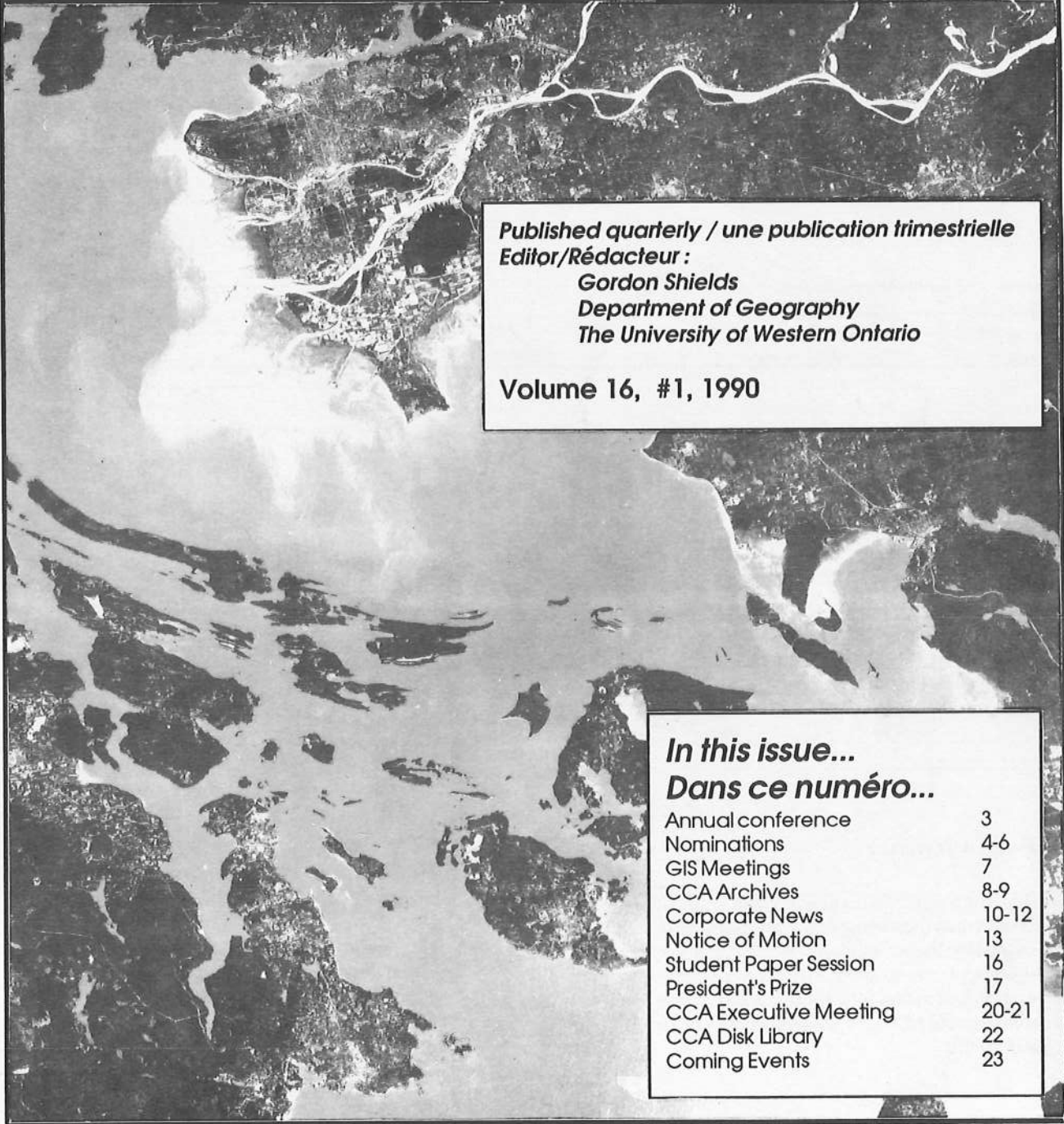


Canadian Cartographic Association
L'Association canadienne de cartographie

Newsletter



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Gordon Shields
Department of Geography
The University of Western Ontario

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**CCA EXECUTIVE 1989-90
COMITE EXECUTIF DE L'ACC 1989-90**

President:	Jean Carrière
Vice-President:	Claudette Leblanc
Past-President:	Norman Drummond
Treasurer:	Gary McManus
Secretary:	Gordon Shields
Cartographica:	Bernard Gutsell

**INTEREST GROUP CHAIRPERSONS
CHEFS DES GROUPES D'INTERET**

Computer-Assisted Cartography/GIS:	J. Ronald Eastman
Education:	Brian Klinkenberg
History of Cartography:	Margaret Hutchison
Map use / Design:	Diana Dacen Nagel
Technology:	Tim Wood

Keeping in touch...

If you have news or information that you would like to pass along to others in the cartographic community, please send your material to the Newsletter Editor at the above address. Contributions are welcome in either English or French and will be published in the language in which they are received. The submission deadline for the next issue (Vol. 16, #2, 1990) is June 29, 1990.

*We welcome the following new members
to our association!*

Bienvenue aux nouveaux membres de l'ACC

Andrina Abraham	Lindsay, Ontario
Carol-Anne Albertson	Grand Bend, Ontario
Ying Tat Chan	Shatin, Hong Kong
Morris Chihundi	Lindsay, Ontario
Peter Depew	Toronto, Ontario
Victor Dohar	Ottawa, Ontario
Claire Gosson	Gloucester, Ontario
Jason May	Kitchener, Ontario
Pierre Meilleur	Lindsay, Ontario
Christine Oberpichler	Lindsay, Ontario
Margaret Pearce	Worcester, Massachusetts
Bernard Plante	Ste-Foy, Quebec
Tim Wykes	Lindsay, Ontario

New Corporate Member: Idrisi, Worcester, MA

CORPORATE MEMBERS

DataSpan Technology	Calgary, Alberta
Defence Mapping Agency	Washington, D.C.
ESRI Canada Ltd.	Toronto, Ontario
J.M. Ellis Ltd.	Metcalfe, Ontario
Idrisi	Worcester, MA. USA
Intergraph Canada Ltd.	Calgary, Alberta
Land Information Branch, Alberta Dept of Forestry, Lands and Wildlife	Edmonton, Alberta
Metropole Litho. Inc.	Anjou, Quebec
Metric Mapping Ltd.	Calgary, Alberta
New Era Software Products Inc.	Victoria, B.C.
Nucor Computing Services	Kanata, Ontario
Projections Mapping Group	Calgary, Alberta
Schwerdt Graphic Arts Ltd.	Brampton, Ontario
Stanley Associates	
Engineering Ltd.	Calgary, Alberta
Tydac Technologies Inc.	Ottawa, Ontario
Weller Cartographic Services	Surrey, B.C.

News on Cartographica...

The Manager of the Canadian Cartographic Association has been informed that the next two issues of Cartographica are due to be shipped from University of Toronto Press in mid April.

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 humaines du Canada pour son apport financier.

REFLECTING THE 80'S PREDICTING THE 90'S

The Annual Conference of The Canadian
Cartographic Association

in conjunction with

The Pacific Institute of Cartographers
Society

June 10-13, 1990

The Canadian Cartographic Association and the Pacific Institute of Cartographers Society will jointly hold their annual conference in Victoria from June 10 to 13, 1990.

For both Societies, this will be their first meeting in the new decade. We have decided, therefore, that this year's meeting should focus on the theme "Reflecting the 80's - Predicting the 90's".

We hope to attract contributions from all the various special interest groups within the cartographic community. We are looking forward to learning from the map librarians, educators, drafts people, map curators, offshore mappers, digital cartographers, geographical mappers, map compilers, map users, GIS developers, tactile mappers and cartography in the developing world... We hope to attract a mixture of contributions from government, the cartographic industry, practising cartographers, the academic community...

Planning for the joint meeting has commenced, and what promises to be a very exciting program is emerging. At the point, I would like to invite you to consider organizing a workshop, to prepare a display, or to prepare an abstract for the presentation of a paper.

Please write or give me a call if you have any questions, or if you wish to discuss an idea for a session, workshop or display. I am looking forward to hearing from you, and to seeing you in Victoria this June.

C. Peter Keller

President, PICS

Department of Geography
University of Victoria
Victoria, BC V8W 2Y2

Tel: (604) 721-7333
FAX: (604) 721-8653

BITNET: SEAMUS@UVVM

REFLEXION DES ANNEES 80 PREDICTION DES ANNEES 90

Le Congrès annuel de L'Association
Canadienne de Cartographie

conjointement avec

La Société de l'Institut Pacifique des
Cartographes

le 10 - 13 juin 1990

SOYEZ LES BIENVENU-E-S

Le congrès annuel de L'Association Canadienne de Cartographie aura lieu de concert avec celui de la Société de l'Institut Pacifique des Cartographes à Victoria le 10-13 juin 1990.

Comme ce sera le premier congrès de la décennie pour ces deux sociétés, nous avons décidé de nous concentrer sur le thème "Réflexion des années 80 - Prédiction des années 90".

Nous souhaitons attirer des contributions de tous les groupes spécialisés de la communauté cartographique. Nous attendons profiter des connaissances des bibliothécaires cartographiques, des éducateurs et des éducatrices, des dessinateurs et des dessinatrices, des conservateurs et des conservatrices cartographiques. Nous comptons apprendre des initiatives cartographiques au large, des projets cartographiques tactiles, des systèmes informatiques de la cartographie digitale et de la géographie, du modélage et de l'analyse cartographiques, des initiatives cartographiques aux pays en voie de développement... Nous souhaitons attirer une variété de contributions des institutions gouvernementales, de l'industrie cartographique, des cartographes ainsi que de la communauté académique...

L'organisation de ce congrès conjoint a déjà commencé et il s'annonce un programme fort stimulant. Je profite de cette occasion pour vous inviter à considérer l'organisation d'un atelier, à monter une exposition ou à préparer un résumé afin de présenter une communication.

N'hésitez pas de me contacter si vous avez des questions, ou bien si vous désirez discuter vos idées pour une séance, un atelier ou une exposition. C'est avec le plus grand plaisir que je m'apprete à vos commentaires et, enfin, à votre arrivée à Victoria au mois de juin.

C. Peter Keller, Directeur, PICS
Département de géographie
Université de Victoria
Victoria, C.-B. V8W 2Y2

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Télécopieur: (604) 721-8653
(E-Mail): BITNET:SEAMUS@UVVM

**The following individuals are nominated for office on the executive of the
Canadian Cartographic Association.**

Vice-president:

- MAJELLA-J. GAUTHIER Université du Québec à Chicoutimi
- C. PETER KELLER University of Victoria

Secretary/Newsletter Editor

- JIM BRITTON Sir Sandford Fleming College

Map Design/Use Interest Group

- ROY DOYON University of Massachusetts, Amherst
- JANET MERSEY University of Guelph

Computer Assisted Mapping/ GIS Interest Group

- DAVID DOUGLAS University of Ottawa
- JOSEPH M. PIOWAR University of Waterloo

History of Cartography Interest Group

- JEFFREY S. MURRAY National Library of Canada

GIS/Computer Mapping Interest Group

JOSEPH M. PIOWAR

DAVID DOUGLAS

Professional Affiliation:

Research Scientist
Earth Observations Laboratory
Institute for Space and Terrestrial Science
Department of Geography
University of Waterloo
Waterloo, ON N2L 3G1 (519) 885-1211 x6563
piowar@wateol.uwaterloo.ca

I have been a member of the CCA since its inception and a University of Ottawa professor of cartography, computer cartography and geographic information systems since almost the inception of the latter two of these fields. I have served as chairman of several interest groups and terms as Vice President and President of the CCA.

Relevant Educational or Experiential Background:

M.A. (Geography) 1987: University of Waterloo.
Thesis: "Conversion Between Vector and Raster Format Data for Geographic Information Systems Applications".

A latter day field has since appeared on the professional map, namely the field of "geographic information systems", a field in which cartographers have been important pioneers. As chairman of the interest group on automation I intend to assist in building a stronger presence in GIS from the field of cartography, and, specifically developing a definition of terms that will reinforce the field of cartography in GIS.

B.E.S. (Honours Geography with Mathematics) 1982: University of Waterloo. Thesis: "Computer Generated Shaded Relief Maps".

Areas of Academic Specialization:

- geographic information systems design: integration and management of diverse spatial data sets.
- remote sensing and the application of image analysis to land resource inventories.
- raster/vector data processing and map production.

billing, etc. (1986-1987).

Instructor/Guest Lecturer of numerous courses and lectures on remote sensing and geographic information systems at the University of Waterloo, Wilfrid Laurier University, Trent University, Sir Sandford Fleming College.

Membership in Professional Societies:

American Society for Photogrammetry and Remote Sensing
Canadian Cartographic Association
Canadian Institute for Surveying and Mapping
Canadian Remote Sensing Society
Ontario Association for Remote Sensing

Service to CCA:

Member since 1987

Focus Area of Proposed Activity of the Interest Group:

Exploring digital cartographic issues in GIS applications (e.g. map accuracies, automated/semi-automated/manual digitizing, map generalization, global positioning system data input, remote sensing/GIS interface)

Professional Activities:

Vice President of the Ontario Association for Remote Sensing (1990 - present).
Program Coordinator for the Ontario Association for Remote Sensing (1988 - 1990).
Exhibits Coordinator for the 11th Canadian Symposium on Remote Sensing: responsible for vendor contact, booth assignment,

Type of Activities to be Planned:

Evening speakers program on related topics to be held in the Toronto area
Organize a session devoted to Computer Mapping/GIS at the AGM
Try to establish a dialog between interested members via editorials or technical briefs in the Newsletter and through e-mail contacts

Vice President/ Vice-Président

C. PETER KELLER

Professional Affiliation:
Assistant Professor
Department of Geography
University of Victoria
Victoria, British Columbia

Relevant Education:
B.A. (Hon.), Geography, Trinity
College, Dublin, Republic of Ireland.
M.A. and Ph.D., Geography,
University of Western Ontario
London, Ontario.

Service to CCA:
Member since 1985
Chairman, Education Interest Group, 1987-89.
Organizer of Annual General Meeting 1990.

Focus Area of Proposed Program or Proposed Goals:

Geographical information systems technology and the geomatics industry have become important players in the production, reproduction and use of maps. Despite their strong impact, cartography and cartographers have been slow to define and establish their contributions to this new and rapidly growing technology. The role of cartography in this new technology thus remains ill defined. Cartography, beyond a doubt, is a key player in any geographical information initiative, and cartographers must identify clearly, announce and argue their disciplinary territory and contributions.

The Canadian Cartographic Association represents a national body, part of whose role it should be to represent the cartographers involvements in geographical information systems and geomatics. To achieve this, the Association must coordinate and cooperate with other societies at the national and provincial levels. The Association should also take on the role of initiator and leader, identifying, coordinating research and testing cartographic initiatives that will improve quality, accuracy, communications and understanding of geomatics industry products.

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 bleuetières 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

Profession at provenance:
Professeur adjoint
Département de géographie
University of Victoria
Victoria (C.-B.)

Formation pertinente:
B.A. (Hon.) en géographie
Trinity College, Dublin, République d'Irlande.
M.A. et Ph.D. en géographie
University of Western Ontario
London (Ontario).

Participation au ACC:
Membre depuis 1985
Président du Education Interest Group de 1987 à 1989
Organisateur de la Conférence annuelle de 1990.

Programme et objectifs proposés:

La technologie des systèmes d'information géographique et l'industrie de la géomatique ont désormais un rôle clef dans l'élaboration, la reproduction et l'utilisation de cartes. Cependant, les cartographes ont mis du temps à préciser leur contribution dans ces domaines de pointe. Le rôle de la cartographie dans ce contexte est donc encore mal défini. Il est évident que la cartographie occupe une place de premier ordre dans toute initiative ayant trait à l'information géographique. Ainsi, il est du devoir des cartographes de définir clairement leur champ d'action et de faire valoir leurs compétences.

L'Association canadienne de cartographie est un organisme national qui devrait avoir entre autres fonctions d'assurer la représentation et la participation des cartographes dans les domaines des systèmes d'information géographique et de la géomatique. A cette fin, l'association devra coordonner son action avec d'autres organismes aux niveaux national et provincial. Elle devra par ailleurs assurer un rôle de leader dans l'identification, la coordination de la recherche et la mise à l'essai de toute nouvelle initiative visant l'amélioration de la qualité, de la précision et de la compréhension des produits de l'industrie de la géomatique.

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 a 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 as rural and forest management. He has a particular interest in cartography, having served as co-director of the Atlas régional du Saguenay-Lac-Saint-Jean and as well, having worked within a multi-disciplinary group in the replanning of blueberry farms in the Lac-Saint-Jean region.

He is a member of the following associations: The Canadian Cartographic Association (CCA), Carto-Québec, the Association of Canadian Geographers and the Association Professionnelle des Géographes de Québec. He joined the CCA in 1976 and 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 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 Canadian Cartographic Association in order to promote cartographic sciences across the country, to continue the projects already in progress and to encourage the development of relationships with other cartographic associations. He would especially like to be involved in the preparations for the 1992 joint annual meeting (CCA-Carto-Québec) in Montreal.

Map Design and Use Interest Group

JANET E. MERSEY

Professional Affiliation:

Assistant Professor, Department of Geography, University of Guelph

Relevant Educations and Experience:

Ph.D. (1984) and M.Sc. (1980), Univ. of Wisconsin – Madison

B.A. (1977), Carleton University, Ottawa.

Since 1985 I have been teaching courses in Cartographic Methods, GIS and Computer Cartography, Aerial Photo Interpretation, and Remote Sensing at the University of Guelph, as well as managing the manual and automated map production facilities. My current research interests include the effective use of colour on thematic maps, evaluating the map design capabilities of microcomputer GIS software packages, and designing maps for the 1871 historical atlas of Ontario industry, using automated methods.

Service to the CCA:

Member since 1977 (continuous!)

Map Education Interest Group Chair 1985–87

Participated in many CCA conferences by presenting papers, chairing sessions, organizing and judging student paper sessions.

Book Review Editor for *Cartographica* 1987–present.

Proposed Focus Area for the Map Use and Design Interest Group:

Shifting from manual to automated production methods entails a great change in the way we think about and manipulate map elements. A challenging topic for an AGM session would be to examine the implications for map design associated with changing technology. Are GIS programmers paying enough attention to the effective design of their output? How transferable are traditional map design principles regarding such elements as type, colour, and layout, to a GIS environment?

ROY DOYON

Dept. of Geology and Geography

University of Massachusetts

Amherst, Massachusetts

Educations:

M.A., University of Georgia

Relevant Experience:

Production Director, Atlas of Massachusetts, in progress
Production Director, Massachusetts River Basin Atlas,
1990

Research Coordinator and Photo–Cartographic
Supervisor, Atlas of Georgia,
1985

Focus Area:

Recent innovations in the field of desktop publishing have introduced a variety of new design decisions for cartographers engaged in atlas or single sheet map production. The focus of this group will be design decisions within the framework of the desktop publishing environment.

Activities:

Workshops at our annual meetings and the development of a monograph dedicated to desktop mapping are two activities I would like to organize.

Secretary/Newsletter Editor

JIM BRITTON

Born in London, England, I took my formal training at Sir Sandford Fleming College, Lindsay. After graduation I operated my own cartographic firm before returning to Sir Sandford Fleming College as a faculty member in 1986. I was appointed Department Coordinator in 1987. In January 1990, I was named coordinator of the GIS Program at Sir Sandford Fleming College.

I currently teach courses in general mapping, traditional, and computer-based cartography. My interests also cover the areas of typography and desktop publishing, which will be of assistance in the preparation of the CCA Newsletter. I first joined the CCA in 1979.

My major interest in cartography is in the function of the cartographer as a visual designer and the integration of that role with the diverse technical levels of map production. I am also very interested in examining the future role of cartographers within the multi-disciplinary application of GIS technology, and of course, its effect on future cartographic curricula. I feel that a large amount of work has been done in examining the impact of computer technology, and cartography as a visual communication vehicle has been, in part, forgotten.

History of Cartography Interest Group

JEFFREY S. MURRAY

Professional Affiliation:

Currently employed as an archivist with the National Archives of Canada, Ottawa, where he is responsible for the records of the Department of the Interior, and the Surveys and Mapping Branch of Energy, Mines and Resources.

Relevant Education/Experience:

Mr. Murray has over fifteen years experience in the management of heritage resources. He obtained his M.A. in Anthropology from the University of Alberta in 1984. He is author of a number of publications on map archives and early Canadian cartography, including: "The Map is the Message," *The Geographical Magazine* 59(5); "Mapping the Western Front," *Military History*, 6(5); "British–Canadian Military Cartography on the Western Front, 1914–1918," *Archivaria*, 26(summer); and "Mapping Klondike Gold," *Rotunda*, 22(2). He is a member of several archival and cartographic associations.

Focus Area of Proposed Activities:

As chairperson of the History of Cartography interest group, Mr. Murray would help to ensure that research papers on early cartography are well represented at the annual CCA conference and in the association's publication, *Cartographica*.

Contributions Wanted. CANADIAN CARTOGRAPHIC EXHIBIT

The Canadian Cartographic Exhibit Committee is organizing the map and atlas exhibits for the Canadian contributions to the forthcoming International Cartographic Association (Bournemouth, U.K., 1991) and International Geographical Union (Washington, D.C., 1992) Conferences. Our plan is to prepare two sets of one joint major Canadian Cartographic Exhibit which will be displayed at both conferences. Your assistance is now being sought in collecting significant maps and atlases that have been produced in Canada since 1987 and that would be appropriate for the Canadian display. The Canadian Committee would be pleased to receive reference to and examples of all types of cartographic products, including recent thematic maps, national and regional atlases, urban and metropolitan maps, experimental maps and computer assisted maps.

Selection criteria include that maps and atlases should have been produced between January 1987 and June 1990. Hopefully they will be innovative in content, technique, design or presentation. Five copies are requested, two for each Conference and one for a touring exhibit within Canada. Submissions should be flat or loosely rolled, not folded. Contributors wishing to send material for consideration are invited to contact the secretariat for full details and specifications. Submissions are due June 30, 1990.

Contact:

Claire Gosson, Canadian National Committee,
International Cartographic Association,
Canada Centre for Mapping,
615 Booth St. Ottawa, K1A 0E9,
(613)992-4134

Heather Stevens,
National Archives, Ottawa,
(613)996-7639 or

Norman Drummond, Chairman, CCEC,
Montreal, (514)398-4939.

...More thoughts on GIS Meetings

Having just returned to the west coast from a week at the GIS conference in Ottawa, it was time to spend the next week at the annual GIS conference in Vancouver (only to be followed by Vancouver's GLOBE 90 conference).

This year's conference theme was "GIS - MAKING IT WORK". Credit must be given to organizers and most speakers for keeping to the theme - making for interesting presentations. Workshops on Tuesday were followed by two and a half days of mostly concurrent sessions paralleled by exhibitions. Running a small number of concurrent sessions allowed delegates to select from a variety of topics while giving speakers, including the Honourable Frank Oberle, Kenneth Copeland, Peter Newman, Sharon Wood, Stephen Lewis and Mike Aspey made keynote addresses enjoyable and informative.

I must give credit to both, the Ottawa and the Vancouver organizing committees for attracting over 1000 delegates to their respective meetings. Beyond a doubt, demand proves that there is room for both conferences in Canada (if not more). However, holding these two venues back to back is unfortunate. I enjoyed meeting people at both, the Ottawa and the Vancouver conference - but both conferences were too big for my liking (I think it is time that GIS returns to small conferences where the primary motives are exchange of knowledge and ideas).

While I am freely expressing my opinions, here is another one. The two conferences must have attracted considerable profits. From an educators point of view, why not donate some of the profits to set up worthwhile graduate scholarships to ensure continued strong research in GIS in this country.

A Weary GIS Conference Delegate
(usually resident at the University of Victoria)

GIS FOR THE 90'S

A brief report on the second national GIS conference hosted by the CISM, and held in Ottawa, March 5-8.

Delegates to the 1990 National GIS conference arrived to meet icy conditions both underfoot and in the wind chill. Fortunately the excellent facilities of the National Congress Centre minimised contact with the Canadian winter. Even the 'Elephant and Castle' could be reached without toque.

Last year's attendance of about 1200 was repeated this year, and being expected was well catered to by the facilities available. The program was divided into (six) concurrent sessions in the afternoons and single plenary sessions in the mornings. The former led to the usual 'room-hopping' to select papers which was made easier by four rooms being adjacent. Papers ranged from excellent theoretical and applied presentations to those who ignore the principle of "I have nothing to say, and I'll only say it once". Curiously?, the applied papers leaned heavily towards one particular GIS package. This might be different at the GIS90 meeting in Vancouver.

The plenary sessions also varied in quality of content, from excellent overviews to papers which did not merit such emphasis. This dubious procedure of single sessions in the mornings did however make some time available for visiting the vendors, who reported exceptional interest and business at this meeting. This was clearly due to the location of the exhibits next to sessions and refreshments. This is a factor of major importance in planning a conference and continuing to attract good exhibits. It is much appreciated by the vendors, who have not travelled across the country to talk with each other.

Those who attended last year expressed disappointment that 1990 was 'not as good' but perhaps this reflected more that it had not expanded on an exceptionally successful first conference. Canada's leadership in the GIS field was noted as being very evident, with caution that to maintain this position, there is a need for greater co-operation between companies, government and academics. The CCA was well represented by members and a new display, which was admired by paid up members. 1989 members attempted to slink by behind their folders, or sheepishly asked whether they had renewed, knowing the answer as they reluctantly extracted their almost pristine cheque books.

While subsequently the GIS90 meeting in Vancouver (March 13-16) was reported by some as being stronger this year, it would be much appreciated if there were a little more time between these two major gatherings to allow those involved in the field to attend both without being absent from their posts for a two week stint.

Roger Wheate

GIS 90 - VANCOUVER, B.C. MARCH 13-16, 1990

Slightly over 1000 people attended GIS'90 in Vancouver from March 13 to 16. This GIS conference was oriented almost completely towards the forestry industry, and the presentations all tended to be application oriented. As one participant said to me: "it was nice to see that almost none of the presentations were academic." On the other hand, another non-academic participant stated that he was tired of going to these pseudo-academic conferences, and had hoped for more theoretical presentations. These impressions summarize the range of opinions held about this conference.

From an organizational point-of-view the conference was well run, though tending on the expensive side. There was a wide range of nationalities present, making the 'networking' truly an international exercise. Thus, if networking and hearing how system x can be used to solve problem y is your cup-of-tea, this was a good conference. For those more interested in the theoretical aspects of Geographic Information Systems, this conference was but a typical offering of late.

Brian Klinkenberg

THE CCA: THE FIRST 15 YEARS

The CCA was founded at a meeting held in Kingston, Ontario in October 1975, and met for its first annual meeting the next year in Ottawa. The titles of its officers have been modified slightly over the intervening years and are tabulated below:

1976-80, there was a 1st and 2nd Vice-President, who did not automatically vie for presidency the next year. Starting 1981, the elected vice-president was the defacto candidate for president the next year, and subsequently serves a third year on the executive as past-president. All other positions are two year terms, including interest group chairpersons, although again before 1980, 1 and 3 year terms occurred.

The Association has had 4 'permanent' addresses!

York University, 1977-82

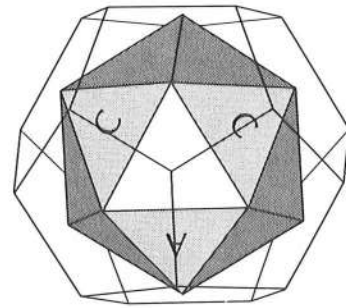
University of Ottawa, 1982-87

Memorial University, 1987-89 (Cliff Wood)

University of Calgary, 1989- (Roger Wheate)

In each case, these were in the Departments of Geography.

Memberships were co-ordinated by the secretary, prior to 1985, thence by a membership co-ordinator, and finally by an appointed (non-elected) 'office manager', who therefore does not have voting privileges in executive decisions. Only two persons thus far have been of sufficiently unsound mind to take on this position!



Year	President	Vice-President	Secretary	Treasurer	AGM
1975-76	Janusz Klawe	Gerald McGrath /L. Ottman-Clich	Lou Sebert	Thomas Wray	Kingston
1976-77	Gerald McGrath	J. Ross MacKay /Lou Skoda	Lou Sebert	Thomas Wray	Ottawa
1977-78	Leonard Guelke	Lou Skoda /Gordon Shoup	Lou Sebert	Jim Mazerall	Vancouver
1978-79	Fraser Taylor	Brian Cromie /J-C Muller	Lou Sebert	Carolyn Weiss	Toronto
1979-80	Fraser Taylor	Jean-Claude Muller /M. Rheault	Brian Cromie	Carolyn Weiss	Montreal
1980-81	Ray Boyle	Henry Castner	Brian Cromie	Carolyn Weiss	St. John's
1981-82	Henry Castner	Michael Coulson	Cliff Wood	Carolyn Weiss	Lindsay
1982-83	Michael Coulson	David Douglas	Cliff Wood	Carolyn Weiss	Calgary
1983-84	David Douglas	Michel Rheault	Cliff Wood	Carolyn Weiss	London
1984-85	Michel Rheault	Cliff Wood	David Forrest	Carolyn Weiss	Fredericton
1985-86	Cliff Wood	Malcolm Brown	David Douglas/ Tom Poiker*	Louis Cardinal	Burnaby
1986-87	Malcolm Brown	Chris Gold	Roger Wheate	Louis Cardinal	Quebec
1987-88	Chris Gold	Norman Drummond	Roger Wheate	Louis Cardinal	Toronto
1988-89	Norman Drummond	Jean Carriere	Gordon Shields	Louis Cardinal	Halifax
1989-90	Jean Carriere	Claudette LeBlanc	Gordon Shields	Gary McManus	Victoria

* Douglas edited the newsletter, Poiker acted as secretary (after David Forrest resigned)

INTEREST GROUP CHAIRPERSONS

Year	Automation	Education	History	Technology	MapDesign	MapUse
1975-76	x	Fraser Taylor	Richard Ruggles	Aubrey Leblanc	Henry Castner	Leonard Guelke
1976-77	x	Fraser Taylor	Richard Ruggles	Aubrey leblanc	Henry Castner	Leonard Guelke
1977-78	Sid Witiuk	Fraser Taylor	Richard Ruggles	x	Henry Castner	Carolyn Weiss
1978-79	Chris Gold	Michael Coulson	Richard Ruggles	x	Bert Farley	Tim Wood
1979-80	Chris Gold	Coulson/Rheault	Ed Dahl	Antoine Cormier	Bert Farley	Tim Wood
1980-81	David Douglas	Coulson/Rheault	Ed Dahl	Antoine Cormier	Lillian Wonders	Jacqueline Anderson
1981-82	David Douglas	Norman Drummond	Betty Kidd	John Belbin	Lillian Wonders	Jacqueline Anderson
1982-83	Jean-Claude Muller	Norman Drummond	Betty Kidd	John Belbin	Shelley Laskin	G. Head/J. Carriere
1983-84	Jean-Claude Muller	Gary DeLeeuw	Jean-Marc Garant	Malcolm Brown	Shelley Laskin	Carriere/Head
1984-85	Mike Goodchild	Gary DeLeeuw	Jean-Marc Garant	Malcolm Brown	Majella Gauthier	Roger Wheate
1985-86	Mike Goodchild	Janet Mersey	Gordon Shields	Dawn Rogal	Majella Gauthier	Roger Wheate
1986-87	Margaret Sommerville	Janet Mersey	Gordon Shields	Dawn Rogal	Claudette LeBlanc	Bob Packer
1987-88	Ron Eastman	Peter Keller	Gordon Shields	David Mark	Claudette LeBlanc	Bob Packer
1988-89	Ron Eastman	Peter Keller	Margaret Hutchison	David Mark	Diana Dacen Nagel	
1989-90	Ron Eastman	Brian Klinkenberg	Margaret Hutchison	Tim Wood	Diana Dacen Nagel	

Notes: Some groups have had joint chairpersons.

There was no automation group until 1978, when the technology group was renamed. Subsequently there appears to have been no technology group until it was re-introduced in 1979-80.

The map design and map use groups were merged into one position for 1988-89.

The automation group was renamed computer-assisted cartography/GIS in 1989.

In some cases, chairpersons have held positions for three years, due to complications in the election of a chairperson either in the year before or after their two year term.

Malcolm Brown joined the executive as a western representative for 1982-83 to fill a gap in regional representation.

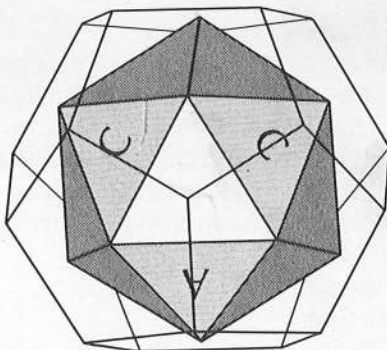
Regular Publications:

The Canadian Cartographer, founded and edited by Bernard Gutsell, was the official journal of the association from 1975-80, when it became Cartographica, edited by Bernard Gutsell) which was subsequently distributed by the University Toronto Press. The journal consists of journal articles or special topic monographs and is issued four times a year. Bernard Gutsell and fellow founding member of the CCA, Lou Sebert are now honorary members of the association.

The CCA Newsletter is produced, edited and distributed by the elected CCA Secretary. It was begun by the first secretary, Lou Sebert, as photocopied type pages, where each issue ranged from 2-6 pages, and was issued irregularly. The current quarterly newsletter format was commenced in December 1981 by Cliff Wood, expanded by his successors. There have also periodic publications of 'Technical Notes and Queries' till 1985, after which technical notes have been included in newsletter.

These data have been compiled from the records collected by the office manager, Cliff Wood during 1988-89, and assembled by the current manager, Roger Wheate. If there are inaccuracies, perhaps the 'old guard' could let me know!

Roger Wheate, December 1989.



News from our

ESRI Breaks Sales Records in 1989 Wins Several Major Contracts

Redlands, Calif., February 6, 1990- Environmental Systems Research Institute, Inc. (ESRI), announced today that it broke all previous sales records for its ARC/INFO family of software product and services in 1989, with a domestic revenue increase of 43 percent over 1988 sales.

Contributing to ESRI's record sales year was the award of several major contracts, including a \$5.6 million contract for ARC/INFO software from the U.S. Environmental Protection Agency and a \$10 million award for software and services from the Defense Mapping Agency. ARC/INFO was also popular among municipal governments, as several major cities, including Pittsburgh, Hong Kong, and Miami selected ARC/INFO for city-wide GIS development.

Numerous smaller contracts were also awarded, with particular interest in ESRI's new WorkStation ARC/INFO software, which now runs on ten different workstation platforms. More than 1,000 copies of WorkStation ARC/INFO and 2,000 copies of PC ARC/INFO were sold in 1989.

ESRI's success was recognized in a recent press release from Daratech, Inc., a market research firm based in Cambridge, Massachusetts. Daratech reported that ESRI has taken the lead in the GIS software market with "extremely strong demand" for ESRI's software. Other ESRI milestones during the past year include the release of the 5.0 version of ARC/INFO and the 3.3 version of PC ARC/INFO. Both releases included expansion of the macro language capabilities, the introduction of an improved graphic user interface, several new data conversion programs, as well as many other new enhancements.

"Our sales growth is very exciting to us at ESRI," said Jack Dangermond, ESRI president, "because it is an indication that we are providing products and services for which there is a real need in the marketplace. We certainly don't take this support for granted. We believe these sales reflect recognition that our work is really helping people and that is very satisfying. We look forward to continuing this trend with the next round of software releases, some of which will be released in 1990.

"We believe we owe much of our success to our user community," continued Dangermond. "They have shown their faith in us and our products and we appreciate their support."

ESRI was founded in 1969 as a research group devoted to improving methods for handling geographic data. Since then, ESRI has become a leading vendor of GIS software with clients located worldwide. ESRI also performs consulting/data automation services related to geographic information management.

ARC/INFO, and PC ARC/INFO are registered trademarks of Environmental Systems Research Institute, Inc. ESRI is the company name and a registered trademark of Environmental Systems Research Institute, Inc. WorkStation ARC/INFO is a trademark of ESRI. All rights reserved.

Contact: Karen Hunter, ESRI (714) 793-2853

Rand McNally Awards Map Publishing Contract to Intergraph

Rand McNally (Skokie, Illinois) has recently announced that they have selected Intergraph's map publishing system for automated compilation and production of cartographic products. Using Intergraph's MicroStation-based family of Geographic Information System (GIS) and digital mapping software, Rand McNally will be able to convert existing map documents into digital format, compile maps, and generate print-ready films for publication.

Rand McNally's system will include MicroStation-based document scanning products for data capture, in addition to a suite of mapping software products; built on Intergraph's MicroStation GIS Environment (MGE). MGE-based software performs feature and attribute data management, map projection transformations, spatial analysis, map composition, symbolization and colour separation for printing.

Intergraph's Map Publisher software is a key component of the system, enabling Rand McNally cartographers to select map colours, symbols, screen tints and patterns, printing priorities, and other aspects of map design and production. For final editing and quality assurance, Map Publisher's colour WYSIWYG (what-you-see-is-what-you-get) screen display offers a softcopy' preview of completed maps before films are generated.

Also delivered to Rand McNally's headquarters will be Intergraph's Optronics 5040 Scanner/Film Recorder. The 5040 is a dual-purpose device for scanning map documents and plotting publication-quality films at sizes up to 50 inches by 40 inches. In the plotting mode, the 5040 generates colour-separated, screened, composite films at resolutions of up to 2,000 dots per inch. Films include all text, linework, screens, and area patterns, eliminating the need for all intermediate film separates.

Intergraph has been providing complete map publishing systems to commercial map publishers state and federal agencies, service bureaus, and universities since 1987. Over 25 systems have been shipped to map producers in the U.S. Switzerland, Germany, Denmark, Italy, Portugal, Spain, Australia, Saudi Arabia, and India.

For further information contact:
Kathy Mak,
Geographic Information Systems
Intergraph Canada Ltd.,
3115 12 St NE
Calgary, Alberta T2E 7J2
(403) 250-6196

MapArtMapArtMapArtMapArt

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MapArt maps are the only ones in the Canadian market which consistently feature bold, colourful, modern design. The World... Canada... the Provinces... all the major Canadian cities... We have maps and atlases of all these plus a comprehensive coverage of the U.S.A. as well.

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25 Athlone Ave.
Brampton, Ont.
L6T 2N5

For Wholesale or Retail Information call:
(416) 436-2525

Corporate Members

Nucor GIS used by Fisheries & Oceans Canada

Ottawa, Ontario, January 31, 1990 — Nucor Computing Resources Inc. is pleased to announce that Fisheries & Oceans Canada (Economic and Commercial Analysis) has purchased Nucor's geographical information system (GIS). One of Fisheries & Oceans' first projects will be to digitize maps of Newfoundland and to integrate database information with the maps. The database information will include the locations and capacities of fish processing plants, their profiles of the communities surrounding each plant, and the markets for Newfoundland's fish products.

With Nucor's GIS, the database information can be retrieved and analyzed quickly and easily by a variety of people who require information on the processing plants and their surrounding communities.

Fisheries & Oceans Canada has purchased Nucor's MapScan, MapDatabase, MapEdit and Maplayer software modules for use on a computer network linking work-stations that use a standard VGA colour graphics card.

Nucor Computing Resources Inc. is involved in the research, development, production, and sales of computer graphics software for geographical information systems (GIS). Nucor also provides related consulting, image processing, and project development services. Nucor started marketing its products in December 1987. The company is based in the City of Kanata, near Ottawa, Ontario. Nucor Computing Resources Inc.

P.O. Box 13520
Kanata, Ontario, Canada
K2K 1X6
(613)592-8666

MapDatalog & DxfDisplay: Nucor's Newest Products

Ottawa, Ontario, March 2, 1990 — Nucor Computing Resources Inc. is pleased to announce the release of our newest geographical information system (GIS) modules: MapDatalog and DxfDisplay.

MapDatalog

MapDatalog is a high-performance GIS module that accesses georeferenced images on a high-speed video disk. With MapDatalog, you organize these images into a hierarchical structure and then link the locations on the images to alphanumeric data in a database.

MapDatalog incorporates all of the functions of MapDatabase, Nucor's general-purpose digital coordinate-based information management module. But MapDatalog moves into the realm of high performance and high speed by making it easy for users to access image frames on video disks. With this module, users can take advantage of the increasing availability of video-recorded maps and images.

The first user to apply Nucor's MapDatalog technology is the Canada Centre for Remote Sensing (C.C.R.S.), Airborne Operations Section. C.C.R.S. is cataloging georeferenced images taken from the SPOT and MOS satellites.

DxfDisplay

DxfDisplay converts vector DXF-type files into raster images or vector files. These raster images and vector files can then be used with Nucor's GIS modules.

TIFF Interface

Nucor also provides an interface for importing and exporting files in the TIFF format. Currently, these files can be binary, compressed binary, or colour.

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 consists of the word "NUCOR" in a bold, sans-serif font. The letters are black and have a slightly distressed or textured appearance, with some white speckling and irregular edges, giving it a rugged, industrial feel.

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

Applied Terravision Systems Inc.

International Distributor for Spot Image Corporation (SICORP)

As of January 1st, 1990, ATS is the exclusive distributor of international SPOT satellite data and value-added products for Canadian companies. This agreement entitles ATS to market SICORP products to Canadian Companies who require international (non-Canadian) satellite Images or SPOT value-added products such as Image-maps, Geographic Information System (GIS) vector files, corridor mosaics, petroleum industry "Basin Maps", municipal area maps and right-of-way mosaics.

ATS is dedicated to improving the services offered to Canadian mapping and remote sensing organizations and this agreement recognizes our efforts and will encourage further development of strategic business relationships.

ATS is a Calgary-based systems development company providing advanced solution-oriented software and project services to International organizations solving business technology problems using Geographic Information (GIS), image processing and mapping technology.

Contact:

Pat Dennis
Manager, Marketing
Applied Terravision Systems Inc.
2800, 400 - 3rd Avenue S.W.
Calgary, Alberta
T2P 4H2

Phone: (403) 266-9595
Fax: (403) 262-1855

Tydac Technologies Inc.

Department of Communications uses SPANS for spectrum planning

TYDAC Technologies Inc. of Ottawa announced today that the Department of Communications (DOC) is using SPANS, TYDAC's geographic information system (GIS), to study radio spectrum availability.

Rapidly advancing communication technology and the increasing demand for radio services have resulted in the need to better understand the radio spectrum and the availability of radio resources. The DOC has developed a radio spectrum assessment system which uses SPANS to model channel availability for telecommunication services over large geographical regions of typically more than 200,000 square kilometres.

Data such as population density, land use and road accessibility are being integrated into SPANS to create radio spectrum profiles. Then, the remaining capacity of a frequency band can be determined by using SPANS to assess the availability of channels within a band and analyze the impact of changing technology on the spectrum.

"There is a tremendous demand on Canada's radio spectrum, especially with the advent of mobile and personal communications," said Douglas Sward of the DOC's Long Range Planning and Interconnect Directorate. "Using SPANS, spectrum managers can quickly analyze channel availability and effectively conduct long range forecasts to help in spectrum planning."

TYDAC Technologies specializes in GIS applications and related data base development. TYDAC has offices in Canada, the United States and the United Kingdom, and is a member company of Kinburn Technology Corporation.

Checking out a GIS?

- 1. Do you want an automated means of capturing, storing, retrieving, analyzing, and displaying geographic data?
 - 2. Do you value your data and want to protect your investment in software and training as you move into the latest technology?
 - 3. Do you need a software system that integrates applications - from scanning and photogrammetry, to surveying, cartography, and energy exploration and production - for more detailed interpretations?
 - 4. Do you require an open hardware system that supports a wealth of third-party applications and offers binary compatibility across UNIX workstation models and generations?
 - 5. Do you want the superior support offered by the No. 1 GIS and mapping systems supplier in the world?
- If you checked even one of these boxes, then you should check into Intergraph's GIS and mapping solutions.
- For more information, call Intergraph Canada Ltd.
(403) 250-6100.

INTERGRAPH

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CCA / PICS Victoria 1990

ACC / PICS Victoria 1990

FOR INFORMATION ON REGISTRATION PLEASE CONTACT:

Mary Ransberry
Cartography Conference
Conference Office
University of Victoria
P.O. Box 1700
Victoria, BC
V8W 2Y2

Phone: (604) 721-8470
FAX: (604) 721-8653
BITNET: RASC@UVVM

Pour les renseignements sur l'inscription, prière de contacter:

Mary Ransberry
Congrès de la cartographie
Bureau de conférences
Université de Victoria
C.P. 1700
Victoria, C.-B. V8W 2Y2

Téléphone: (604) 721-8470
Télécopieur: (604) 721-8930 Télex: 049-7222
Courrier électronique (E-Mail):
BITNET: RASC@UVVM

Associate Membership

Notice of Motion... to be voted on at the Annual General Meeting at the University of Victoria

extract from the minutes of our last AGM at Halifax,
June 9, 1989

Ron Eastman moved, seconded by Clifford Wood that we institute a new level of membership, that of associate member, with such members to be full members in good standing of another Canadian association, namely Canadian Institute of Surveying and Mapping, Pacific Institute of Cartographers Society, Carto-Québec, Ontario Institute of Chartered Cartographers, Association of Canadian Map Libraries and Archives. Associate members would have no voting rights, no ability to stand for office and would not receive the journal "Cartographica". The fee for associate members would be \$40 per year with additional charges as above for U.S. & overseas mailings. Some members expressed concern for the possible diminution of the membership base of the CCA. It was finally agreed that motion would be withdrawn and treated simply as a notice of motion, to be voted on by the membership at the next AGM in Victoria, 1990.

CANADA CENTRE FOR GIS IN EDUCATION

The Canada Centre for GIS in Education announces the availability of a wide range of teaching materials for professionals, instructors and researchers involved in GIS education and training.

Program offerings include the following:

- GIS Software
- Instructional Documentation
- Curricula (compatible with NCGIA curriculum guidelines)
- Geographic Data Sets
- Seminars
- Support Programs

The Centre has a mandate to facilitate the development and dissemination of materials for instruction in GIS and its practical applications for both developed and developing countries. The Centre provides affordable access to professional GIS software and course materials for a variety of disciplines and curriculum levels.

For additional information, instructors, curriculum developers, and post-graduate researchers should write to:

The Director, The Canada Centre for GIS in Education,
c/o Faculty of Education, Queen's University, Kingston, Ontario, Canada K7L 3N6

SALE ON BACK ISSUES OF

CARTOGRAPHICA MONOGRAPHS!!

- 01 1971 The 17th Century Cartography of Newfoundland
- 02 1971 Map design and the Map User
- 03 1971 Russian Maps + Atlases as Historical Sources
- 04 1972 National Atlases
- 05 1972 Eskimo Maps from the Canadian Eastern Arctic
- 06 1972 Explorers' Maps of the Canadian 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 7 Aspects of a General Map Projection
- 12 1974 Index/Abstracts, Canadian Cartographer, 1-10
- 13 1975 History of Russian Cartography C16-19: essays
- 14 1975 Studies in History of Russian Cartography
- 15 1975 Studies in History of Russian Cartography
- 16 1976 Conformal Projections based on Elliptical Functions
- 17 1976 Explorations and Mapping of Samuel de Champlain
- 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 National and Regional Atlases
- 24 1979 Index/Abstracts, Canadian Cartographer 11-15
- 25 1980 The Dynamics of Oceanic Cartography
- 26 1980 Concepts in the History of Cartography
- 27 1981 Maps in Modern Geography
- 28 1982 Perspectives in the Alternative Cartography
- 29/30 1983 Mapping for Development
- 31 1984 New Insights in Cartographic Communication
- 32/33 1984 Auto-Carto 6

Sale price: \$6.00 per single issue, \$10.00 per double issue

Send orders to: University of Toronto Press
5201 Dufferin St.
Downsview, Ontario M3H 5T8

Or enquiries to: Roger Wheate (CCA),
Geography Department,
University of Calgary,
Calgary, Alberta, T2N 1N4

Grass "Yellow Pages"

Contact: Ms. Marlo Oechsel
USA-CERLEN
P.O. Box 4005
Champaign, IL 61824-4005
217/352-6511 ext. 533

The GRASS Interagency Steering Committee wants to put together a GRASS "Yellow Pages." The purpose of this document is to consolidate information on organizations providing services for GRASS users. The document will be revised annually. Any organization that provides training, software distribution, data development, data translation, hardware configuration, programming applications, documentation, turn-key systems or other services that might be of interest to GRASS users is welcome to submit a listing. Advertisements can also be placed.

The GRASS "Yellow Pages" will be distributed annually with an issue of the GRASS Clippings newsletter and also distributed at technical meetings, through the GRASS Information Center and through various GRASS distribution and training sites.

Please contact Marlo Oechsel with the following information if you would like to place an entry:

Name of Organization
Point of Contact
Service/System provided to GRASS users
Address
Telephone number

Please contact Ms. Oechsel for information concerning format, deadlines, fees, copies, and other information.

New Publication Available from Statistics Canada

Canada Year Book, 1990 Biennial.
(Catalogue No. 011-402E and 011-402F)
\$49.95 (plus \$5.05 shipping and handling)

This indispensable source of up-to-date statistical information is authoritative and encyclopedic in scope. Agriculture, Culture, Demography, Environment, Geography, Land Use and Transportation are just a few of the subjects to be found in the Canada Year Book. The comprehensive range of topics is easily found through an expanded cross-referenced index that is simple to use.

As well as its usual 850 page complement of text, tables and charts, the 1990 Canada Year Book contains some visual innovations. Complementing the existing charts which show major trends, a number of computer-generated maps are included that show various social and economic themes.

The Appendices provide supplementary information including Federal Government Departments, Agencies, Crown Corporations and Federal Legislation since May, 1987. The 1990 edition also directs the reader to additional reading sources in a new section called "For Further Reading".

To order, write:
Publication Sales, Statistics Canada,
Ottawa, Ontario, Canada K1A 0T6 or call toll free 1-800-267-6677

ANIMATED ATLAS.....

ENVIRONMENTAL DATA from more than 20 satellites are being compiled for a "global change encyclopedia" that would run on personal computers. Wesley T. Huntress, Jr., special assistant to the director of NASA's earth sciences division, said it will be the first animated atlas to show global changes in ecology, population, climate and oceans over an extended period.

The interactive software, which would also allow users to zoom in on a region, is a \$5-million project for the International Space Year, set for 1992, and is being led by the new Canadian Space Agency. Space agencies of 25 nations are planning the events for 1992.

from Aviation Week and Space Technology, Dec 18, 1989

SEEKING NEW HORIZONS

A Perceptual Approach to
Geographic Education
Henry W. Castner
published by McGill-Queen's Press

Geography is often introduced to schoolchildren by having them look at maps as formal, conventional objects rather than as tools for analysing and communicating ideas about geographic relationships. But how effective is this?

Recent research in cartographic communication and map perception suggests that geographic literacy is generally quite low. In *Seeking New Horizons*, Henry Castner proposes another approach: our focus should shift from maps to the ways in which geographic information and the relationships within it can be isolated and communicated graphically. With the adoption of a perspective which focuses on the user, children would be encouraged to discover the concepts underlying geographic thinking in its most elemental and natural forms.

Castner developed this innovative perspective on geographic education through observation of the Orff-Schulwerk technique of music education. This pedagogical method provides an organizational framework within which the primitive elements and concepts of music can be introduced, experienced, and explored, and auditory discrimination developed.* The process of improvisation is the focal point of the Schulwerk. Castner suggests that the numerous educational benefits of improvisation can be obtained in geographic education by the process of "mapping." He defines mapping as graphic description, analysis, and presentation in a problem-solving context. After more than two decades of research in cartographic communication, Castner concludes that success in examining and analysing landscapes, and images representative of them, is dependent upon developed skills in visual discrimination.

Seeking New Horizons describes a rationale for linking basic visual discriminations to their logical extensions in the concepts that are fundamental to geographic thinking, thus providing challenging approaches to developing spatial awareness, graphic literacy, and geographic understanding. In addition, Castner identifies eight basic concepts which would allow students and teachers to work interactively with spatial information and, over time, with increasingly complex and sophisticated tools and at increasingly abstract levels of generalization.

Henry W. Castner is Professor Emeritus
in the Department of Geography,
Queen's University,
Kingston, Ontario

240pp / 6"x 9"
Cloth o-7735-0728-0 \$34.95

SUMMER STUDENT REQUIRED

May 1 (or sooner)
SALMON ARM, B.C.

To assist setup of Terrasoft Geographic Information System for the municipality of Columbia-Shuswap Regional District. General background in geography desirable, with knowledge in GIS and remote sensing.

Familiarity and experience with Terrasoft essential.

Pay: From \$671, +14% biweekly.

Apply: Geoff Power, Manager,
Columbia-Shuswap Regional District,
P.O. Box 978, Salmon Arm, B.C. V1E 4P1

Tel: 604-832-8194 Fax: 604-832-3375

News from our members

Having moved to Montreal I have formed a company called Nunavik Graphics Reg'd. As a company, I specialize in the design and production of cartographic products as well as G.I.S.'s with the Macintosh. I am also involved in desktop publishing.

My address is

177 St. Paul Street West, Suite 3,
Montreal, Quebec H2Y 1Z5

Telephone (514) 982-6095 FAX (514) 287-7624.

My door is always open for visitors who are interested in cartographic/graphic applications on the Macintosh.

Morrie Portnoff

CARTOGRAPHICA

The University of Toronto Press is preparing to unload most of its back issues of *Cartographica* and its predecessor "The Canadian Cartographer", which goes back to 1964. i.e. thousands of journals will be 'dumped'. There are up to 900 of individual issues, though the average is more like 250. All back issues are available except *Cartographica* monographs 4 and 6 ("National Atlases" and "Explorer's Maps of the arctic" respectively) and *The Canadian Cartographer*, 32 (1966) and 7,2 (1970).

Unfortunately the CCA does not have the facilities or funds to store or transport these to save them from an ignominious fate. If any members have any ideas, or use for particular volumes (in some quantity), please contact the CCA Manager (Roger Wheate) as soon as possible. Back issues will still be available, but in a limited number. Please note the current discount rate for all issues.

Roger Wheate

Call for Papers Student Paper Competition Canadian Cartographic Association

1990

The Canadian Cartographic Association is pleased to announce the fourth annual student paper competition to be held during the annual meeting at the University of Victoria, June 10-13 1990.

All students involved in research relating to cartography are invited to present their research in a formal paper session.

The abstract and paper may be submitted in either English or French. Each presentation, including a short question period, will be 20 minutes maximum.

Students who wish to present a paper need not be members of the CCA, however, all student members of the CCA who participate will be eligible to make a claim for possible subsidy of their fares to and from the Victoria meeting.

Registration fees will be waived for the first five papers received.

Please send your resume (200-300 words) with your name, address and the name of your professor/instructor to:

Dr. Brian Klinkenberg,
CCA Education Interest Group Chairperson,
Department of Geography,
University of British Columbia,
1984 West Mall,
Vancouver, BC, V6T 1W5

Last date for receipt of abstract: 30 April 1990

Last date for receipt of paper: 31 May 1990

Call for nominations!

Elections will be held in Spring 1990, with the results to be announced at the Annual Meeting in Victoria B.C., June 10-13, 1990

We still have a vacancy in the nomination for History of Cartography Interest Group Chairperson

Members with suggestions for nominees are invited to contact:

Nominating Committee Chairman—
Norman Drummond, Dept. Geography, McGill University,
805 Sherbrooke St W Montreal, P.Q. H3A 2K6,



Anyone for golf???

DEMANDE DE PROPOSITIONS CONCOURS D'EXPOSES ETUDIANTS ASSOCIATION CANADIENNE DE CARTOGRAPHIE 1990

L'Association canadienne de cartographie annonce la tenue de son quatrième concours d'exposés étudiants lors de sa rencontre annuelle à l'Université de Victoria en juin 90.

Nous invitons tous les étudiants impliqués dans une recherche reliée à la cartographie à venir partager leurs points de vue et mettre en commun leurs expériences.

Le résumé et l'exposé peuvent être soumis en français ou en anglais. Le temps alloué pour la présentation de l'exposé et la période de questions est de vingt minutes. Un étudiant désirant soumettre un exposé ne doit pas obligatoirement être membre de l'ACC; cependant tout étudiant membre de l'association sera éligible au programme de subvention pour les frais de transport reliés à la rencontre de Victoria.

Il n'y aura aucun frais d'inscription à la conférence pour les cinq premiers exposés retenus.

Veillez faire parvenir les résumés (200-300 mots) avec vos noms, adresse, le titre ainsi que le nom de votre professeur à:

Dr. Brian Klinkenberg,
CCA Education Interest Group Chairperson,
Department of Geography,
University of British Columbia,
1984 West Mall,
Vancouver, BC, V6T 1W5

Date limite pour les résumés: 30 avril 1990

Date limite pour les exposés: 31 mai 1990

A New Name?

Un nouveau titre?

Participate in the renaming of our Newsletter.

We are looking for a new name which will be reflective of our role as a publication for members of the cartographic community in Canada. The name you suggest should ideally be bilingual.

The CCA member submitting the winning name will receive a copy of the Historical Atlas of Canada V.1, recently published by U of T Press.

Send your suggestions to the Newsletter Editor by April 30 1990

Le comité exécutif cherche un nouveau titre pour le Newsletter de l'ACC, pour mieux représenter notre association.

Le gagnant de ce concours recevra une copie de l'Atlas Historique du Canada, publiée par U of T Press.

Envoyer vos suggestions au rédacteur du Newsletter avant le 30 avril 1990

There will be an Western Duffers vs. Eastern Hackers golf match should there be sufficient hackers and duffers who are interested. Interested duffers should contact Roger Wheate (address on pg.2). Hackers please contact Clifford Wood, Dept. of Geography, Memorial University of Newfoundland, St. John's Nfld. A1B 3X9

**Canadian Cartographic Association
L'Association canadienne de cartographie**

**President's Prize Competition
Concours pour le Prix du Président
1990**

Submissions are invited for the 1990 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 1989-90. 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 fabriquant ou utilisant des cartes. Le concours comprend 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 à Victoria en juin prochain.

The competition includes five award categories/ Les cinq catégories comprennent:

Monochromatic Map/ Carte monochrome:

A printed map (or map taken to the proof stage) 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 imprimée en noir et blanc (conventionnelle ou de type journalistique): une carte imprimée en noir et blanc. **Un court texte (maximum de 500 mots) devra définir la problématique et les objectifs de la carte.** 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.

Award value/valeur :\$50 CDN

Colour Map/ Carte couleur:

A printed map (or map taken to the proof stage) Emphasis in this category 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 couleur (ou à l'étape de l'épreuve couleur) **Un court texte (maximum de 500 mots) devra définir la problématique et les objectifs de la carte.** L'évaluation portera sur la qualité de l'exécution de la carte et la réalisation des objectifs prévus dans le projet. Award value/valeur :\$50 CDN

Formal Written Paper/ Texte écrit conventionnel:

A paper of approximately 2000 words on any theme relating 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

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.**

Award value: The award for the winning entry in this category is \$200 US, generously donated by Time Magazine.

5. La meilleure production "carto-journalistique"; le prix de 200,00US\$ est offert par Time Magazine. La carte devrait être accompagnée d'une brève description (maximum 500 mots) décrivant le but poursuivi. **Un court texte (maximum de 500 mots) devra définir la problématique et les objectifs de la carte.**

- **Submissions must reach the CCA office in Calgary (address on page 2 of this Newsletter) by June 1, 1990. or may be brought directly to the Victoria meeting./Les candidatures au concours doivent parvenir à l'ACC à Calgary (voir page 2 pour l'adresse) au plus tard le 1 juin 1990.**
- **Membership in the CCA is not required./ Il n'est pas nécessaire d'être membre de l'ACC pour participer au concours**

WHY DO SOME PEOPLE GET LOST SO EASILY?

It happens to all of us.

Getting lost, being lost, or, as some prefer to express it, "temporarily misoriented."

Usually it's only a momentary loss of geographic orientation, of simply not knowing where you are in today's tangle of city streets and highways, mammoth, multilevel shopping malls and labyrinthine new buildings.

But sometimes it can be serious. "Angry Paramedics Eject Lost Ambulance Driver," a newspaper headline reported earlier this year. The driver was kicked out of the ambulance after he got lost on the way to the hospital, taking a heart patient on a zigzag path through southeast Washington for about 10 minutes.

ENVIRONMENTAL CLUES

Why do some people get hopelessly lost, even in their own home-town, even with the aid of maps, directions and familiar landmarks?

Why do others have little trouble getting around, even in strange towns, and, if dropped in unfamiliar territory, easily find their way home?

In a sense of direction innate – a sixth sense?

"It's a learned skill. It involves reading environmental cues. It's something everyone can do," says geographer Roger Downs of Pennsylvania State University.

But abilities vary. "People who have trouble with way finding," Downs told National Geographic, "can't relate three essential elements: self; a map or set of directions or memory of a previous visit; and space, the surroundings in which they actually find themselves."

Those who feel inept, he says, are simply not put in situations often enough to practise this skill and gain confidence.

"Navigation uses so many bits of information that have to be integrated. People who are habitually poor navigators fail in one or more parts of the process," says zoologist R. Robin Baker of the University of Manchester in England, an expert on animal and human navigation.

"They may fail in taking in information, storing it – the brain's map-storage area may be faulty – or in translating it back for use. There's not neat explanation."

"How we think influences how we find our way around," explains Jeremy Crampton, a doctoral student at Penn State, whose research combines cognitive psychology and geography.

"People who get lost haven't managed to develop their spatial metaphors sufficiently," he theorized in a paper presented at this year's meeting of the Association of American Geographers. Spatial metaphors use progress along a path to express progress in personal or career goals, such as "start out to make a fortune" or "mid point of a career."

Comparing experts and novices at way finding, Crampton found experts concentrate on choosing correct routes, monitoring their progress, and developing error-prevention strategies. "They have a sense of distance, that they've gone too far or that the terrain doesn't match what it should be," he explains. "If they get lost, they recover by mentally retracing their steps." Novices don't.

BUILT-INRADAR

"Some people just never pay attention to where they are. Others always want to get their bearings, whether in a new city or a new building," says Robin Shannonhouse, executive director of the U.S. Orienteering Federation. Orienteers make a sport of way-finding by competing to follow a course, usually through a forest, using only a topographical map and a compass.

"If you can find your way out of the woods alone, you can find your way anywhere," Shannonhouse says. "The most experienced develop a built-in radar. Give orienteers a street map and circle the destination, and you don't have to give them directions."

She says that whenever she goes to a new city, she immediately gets a map to see where the highway comes in. "I orient myself to it. No matter what part of the city I'm in, I know where I am."

Everyone probably has a favourite homing device. A Denver native says he always references himself to the Rockies – they're west. A resident of Toledo, Ohio, uses Lake Erie – it's north.

A lifelong Washingtonian with a poor sense of direction says, "All I have to do is find the Washington Monument and I can get home. Once I took the wrong bridge home from Virginia and wound up lost. I asked for direction to the monument, even though I knew I would probably be going out of my way."

She and several others who habitually get lost say they have a general lack of awareness of their surroundings. Once turned around, they can't reorient themselves easily. What is automatic for many is an all-consuming effort for them.

Comparing herself to Hansel and Gretel, the Washingtonian sighs: "I always have to make mental bread crumbs about where I've been."

Toronto Star Monday, June 26, 1989

PICS SEMINAR FEBRUARY 28, 1990

PACIFIC PATHWAYS: THE FUTURE OF MAPPING PART II

The Pacific Institute of Cartographers Society hosted a one day seminar February 28 at the University of Victoria, British Columbia. Speakers presented papers on 'The Future of Charting' (David Kynoch), 'Geology Goes GIS' (Pat Bartie), 'Municipal GIS Initiatives at Oak Bay' (Casey O'Gorman), 'Computer Cartography and GIS Initiatives in the USA' (Daniel Kjerne), 'Commercial Software for Cartographic Production' (Mike Shasko and Ken Josephson) and 'Policy Perspectives of Government Land Data Information' (Ever Kenk). An afternoon panel discussion also led to a lively exchange of ideas and thoughts on the future directions of mapping in the Pacific Northwest and the role of PICS. The seminar day was attended by over 60 people.

C. Peter Keller
President, PICS

GEOGRAPHIC INFORMATION SYSTEMS IN HIGHER EDUCATION

- A Workshop -

Columbus, Ohio
June 8 - 10, 1990

The third OSU Workshop on GIS in Higher Education is designed to bring together those individuals with a substantial interest in the teaching of geographic information systems at institutions of higher education. The workshop environment is intended to be an informal one with a few formal presentations combined with a series of panels, discussion groups and demonstrations. Our goal is to increase the interchange of professional information on curriculum, laboratory operations, etc., and to generally support the more effective teaching of GIS. With the cooperation of the GIS Laboratory of the OSU Department of Geography demonstrations of a number of inexpensive software packages which may be used in the laboratory portion of GIS courses will also be provided.

The meeting is co-sponsored by the Commission on Geographic Information Systems of the International Geographical Union, the Association of American Geographers and by the Department of Geography and the Center for Mapping of The Ohio State University. Over 120 persons participated in the 1989 Workshop. The meeting has been scheduled over a weekend so as to assist participants in obtaining minimum air fares. The main Workshop will begin on the morning of Saturday, June 9th, but there will be an in-

formal gathering on the evening of Friday, June 8th.

The Workshop is designed to operate on a near break-even basis, so registration fees have been kept as low as possible. A three tier fee structure has been set up as follows: faculty members or those who are actively engaged in teaching GIS within a university environment - \$90; graduate students - \$50; and all other individuals - \$180. These fees include the cost of lunch on both Saturday and Sunday as well as a copy of the materials distributed at the meeting. To encourage early registration, a discount of \$15 will be given to those registrants other than graduate students who pay their registration fee prior to May 1st. Those registering after May 1st must pay the full fee shown above. Graduate students will pay the same, minimal fee whenever they register.

Prior to the Workshop, on Friday June 8th, a one-day short course on Teaching with OSU MAP-for-the-PC will be available. OSU MAP-for-the-PC is now in use at over one hundred and fifty colleges and universities world-wide and the short course is designed to permit instructors to make more effective use of this software in laboratory instruction. The instructors for the short course will be Dana Tomlin, Duane Marble, and Jay Sandhu. An additional fee of \$45 will be charged the participants in the short course.

Further information and registration materials may be obtained from:

Professor Duane F. Marble
Department of Geography
The Ohio State University
Columbus, Ohio 43210

Telephone: (614) 292-2250 FAX: (614) 292-9180
E-Mail: MARBLE@MAPVXA.CFM.OHIO-STATE.EDU

"BYTES of the BIG APPLE" Computer Files Released

The Department of City Planning released today 'BYTES of the BIG APPLE' diskettes, the city's first set of microcomputer map files to be made available to the general public. The files, on 3-1/2" diskettes, contain tax block outlines and street names. Thirty-five of the city's 50 community districts were made available today. The remaining 24 districts will be released during the next year. In addition, City Planning is offering files with tax lot outlines for the six community districts covering Manhattan below 59th Street.

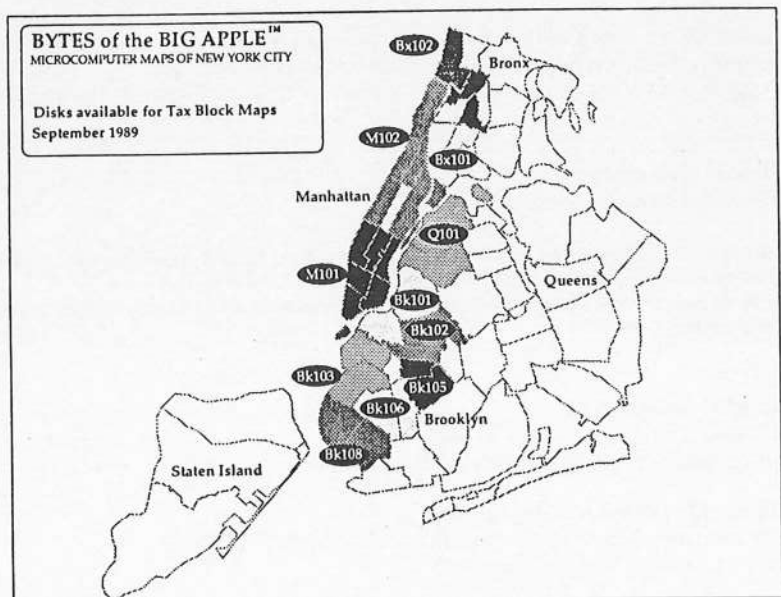
Sylvia Deutsch, Director of the Department of City Planning said, "I am happy that through BYTES of the BIG APPLE diskettes, we can share with the public and other city agencies the latest work of City Planning's Computer Information Division. The files are a much needed by-product of our COGIS project, which has been mapping the areas of the city where major programs of neighborhood improvement are underway. Previously, the files were available only to our computer technicians who had access to a large computer. The new diskettes will allow planners, architects, engineers and community groups to use the map for the first time."

The Department of City Planning, using a large VAX computer and special electrostatic plotters, has used these map files extensively for planning studies over the past three years. Now the files can

be used on an Apple Macintosh computer that has at least 2 Megabytes of memory, and Illustrator 88 software. The hardware and software were chosen for their ease of use, graphic quality and wide availability.

The diskettes cost \$50.00 each and come with a 12-page User Guide. They are available at the Map Sales Office of the Department of City Planning, 22 Reade Street, New York, NY 10007.

New York City Planning Commission
22 Reade Street, New York, NY 10007
Office of Public Affairs
(212) 720-3503
CONTACT: MARTHA RITTER



Minutes of the Executive Meeting of the Canadian Cartographic Association
27-28 January 1990
McGill University, Montreal, Quebec

Present: Jean Carrière, Norman Drummond, Claudette Leblanc, Gordon Shields, Gary McManus, Roger Wheate, Diana Dacen Nagel, Tim Wood, Brian Klinkenberg, Peter Keller.

In absentia: Ron Eastman, Margaret Hutchison.

President Jean Carrière welcomed the executive members to the meeting and introduced new executive members, Brian Klinkenberg, Gary McManus, Tim Wood.

The proposed agenda was circulated to the members and its adoption moved by B. Klinkenberg, seconded by T. Wood.

Copies of the minutes of the previous meeting June 9, 1989 were circulated and their adoption moved by Jean Carrière, seconded by G. Shields.

State of the Union: Carriere, Drummond, Leblanc

Much effort has been expended by the president, along with the past president and vice president in the development of closer ties to the OICC and the CISM.

Meetings were also held with SSHRCC and NSERC to discuss their funding of cartographical research. It was suggested that a listing in the Newsletter of research projects currently funded by SSHRCC and NSERC would be a useful indication of what is being done.

Liaison with other cartographic associations:

It appears that the OICC will terminate as an independent association in the near future and join either the CCA or the CISM. There exists the possibility of having a special interest group within the CCA, perhaps entitled the "Chartered Cartographer Interest Group".

The CISM is developing an umbrella group for land management professionals, incorporating surveyors, GIS and cartographic specialists. They would like to see the CCA share office space at a CISM sponsored "National Administrative Centre for Surveying and Mapping" in Ottawa.

Secretary's Report: Gordon Shields

The last issue of the CCA Newsletter for 1989 will be going to press next week. Issues for 1990 are scheduled in late March/early April and late June/early July.

Treasurer's Report: Gary McManus

Reports filed

Report on the ICA:

Norman Drummond, Clifford Wood (Chairman Canadian National Committee for the ICA)

Norman Drummond led off the discussion by noting that the CIS historically represented Canada on the ICA. The Canadian National Committee now organizes the Canadian representation at ICA conferences. Subcommittees are struck to assist in planning Canadian representation.

Papers subcommittee:

Moved by Drummond seconded by Carriere the we delegate Hansgeorg Schlichtmann, Michael Coulson and Douglas Banting as CCA representatives.

For the National Report Sub-committee, Drummond and Carriere proposed that Lou Skoda be the CCA representative.

Clifford Wood continued the discussion of the role of the ICA by noting that the dues to the ICA for Canada are paid by The Department of Energy, Mines and Resources through a grant to the CISM.

A special issue of the CISM Journal devoted to topics in cartography will be issued in the summer of 1991, with Clifford Wood as editor.

Victoria Meeting:

Peter Keller, Brian Klinkenberg.

The organizers of the meeting are attempting to secure a guest speaker for the plenary session. Peter Keller proposed that we adopt a 50-50 share with PICS for any profit (or loss) on the Victoria meeting.

Sessions are currently being organized and an optimistic assessment of the success of the conference was given by both P. Keller and B. Klinkenberg.

Upcoming meetings:

1991 Brock University/SUNY Buffalo

The invitation of Brock University has been accepted.

1992 McGill/UQAM/U deM/Concordia

additional sponsorship by the City of Montreal and Hydro-Quebec

Planning is progressing for this meeting.

Relationships between CCA and other Cartographic organizations in Canada

Presentation to the executive by delegation from CISM
Sandra O'Connor, Ross Douglas, Clifford Wood

Discussion centred around the possible support by the CCA of NACSM
(National Administrative Centre for Surveying and Mapping)

A possible link between the CISM and the CCA could be developed via the post of councillor of the cartography committee, with the CCA in the position of nominating the councillor. Although no guarantee could be given that the individual nominated by the CCA would be automatically accepted, it was reasonable to expect that the choice of the CCA would be acceptable to the executive of the CISM. They are looking for some assistance in better serving the needs of the cartographic community.

Report to Executive by Claire Gosson, President of OICC.

Claire Gosson began by noting that the position of the OICC was very tenuous and that the group would not likely continue to exist beyond the spring of 1990. The charter is administered by the OICC and must remain in the hands of an Ontario-based group. The OICC is still consulting legal advice regarding any future changes to the status of the charter. A meeting of the OICC membership will be held soon at which time the options will be outlined and the members asked to vote on the future of the OICC.

Report of the Manager:

Roger Wheate

Renewals are going well, with 212 paid up members as of this meeting. Concern was expressed over the fact that no issues of Cartographica have been received in the last 6 months, meaning that many new members have yet to receive an issue. Corporate membership is on the rise. The cost of membership, currently \$175, is considered a bargain by most corporations.

GIS 90 Ottawa

Roger Wheate will attend and man the display, which will be prepared by Diana Dacen.

Nominations Committee:

Chair Norman Drummond

Nominations thus far-

Vice President: Peter Keller / Majella-J. Gauthier

Secretary/Newsletter editor: Jim Britton

nominations for chairs in CAM/GIS, History and Map design/Use have yet to be secured.

Interest Group reports:

•CAM/GIS:

Ron Eastman sent a report which was read to the executive in his absence.

•History of Cartography

Margaret Hutchison sent a report which was read to the executive in her absence.

•Technology:

Tim Wood hopes to set up a "round table" session on technical issues in cartographic production.

•Education

Brian Klinkenberg will organize a discussion group to focus on acquisition of funding for computer equipment, and cost effective ways of setting up computer labs.

A field trip to cartographic establishments in Vancouver is also being organized.

•Design/Use

Diana Dacen is planning a session which will be a platform for traditional cartography.

Re-evaluation of jobs and tasks

Gordon Shields presented a proposal to the executive whereby the position of Secretary/Newsletter editor would be split, with a Newsletter Editor having responsibility for the Newsletter only. The position of secretary would evolve into one of Publicity Coordinator, to oversee the preparation and distribution of relevant materials to our members and most importantly, to those who might become members. It was agreed that the transformation of these posts would be a longer term venture, to be discussed further at our next executive meeting in Victoria in June.

Associate Membership

This issue will be brought up for a vote at the AGM in Victoria in June. Notice of motion will be given in the April issue of the Newsletter (V16, #1, 1990)

Prizes and Awards

Roger Wheate stressed the need to encourage faculty to solicit student submissions to the CCA sponsored competitions. It was suggested that executive members write to faculty teaching cartography in their respective provinces in order to advertise the availability of these awards and prizes.

Cartographica

With respect to the retention of back issues of The Canadian Cartographer/Cartographica, it was agreed that we will keep 10 sets of back issues of the journal along with 10 copies of selected back issues of the Cartographica monograph series. Roger Wheate will select the most marketable monographs for retention.

Meeting adjourned 1:00 p.m. Sunday, January 28, 1990

Automation Interest Group Groupe d'Interet 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. per disk). All MS-DOS disks are assumed to require MS-DOS 2.0 or higher. Disks listed with a "P" prefix indicate that their primary content is 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 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 version 4), executable program (complete with Metawindow driver for virtually any graphics display and a printscreen utility) and three versions of 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. This two disk set is distributed in compressed format and requires disks with a capacity of 720k or more for decompression.
MS-DOS \$20. (2 disks) non-members \$30

P2 A single disk version of P1 that only requires 360k disks. Contains all of the same programs but only two versions of World Data Bank I — the low (6,000 points) and medium (15,000 points) resolution versions (neither with political boundaries).
MS-DOS \$10. non-members \$15

P3 A line generalization program contributed by Ron Eastman. The program (distributed in both Turbo Pascal 4.0 source code and as an executable file) generalizes by point selection, low-pass filtering (3 or 5 point), and tolerance band filtering (the Douglas and Peucker technique). Output consists of a new data file in generalized form. Generalization statistics are given at the end. The disk also contains a simple plotting program that allows that lines to be viewed on Hercules, CGA, EGA and VGA monitors
MS-DOS \$10. non-members \$15

send orders to :

Roger Wheate/ Canadian Cartographic Association
Department of Geography
University of Calgary
Calgary, Alberta T2N 1N4

P4 UVIC_SDT Spatial Data Translation Routines, contributed by Peter Keller and Mike Gartrell. Allows translation of data files from
a. World Digitised to Atlas Graphics
b. ARC/INFO to PAMAP
c. Area Master File to PAMAP
\$20. (2 disks) Non-members \$25

D1 Two North American data sets (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 (the isodemographic boundaries are those of Eastman, Shields and Nelson). The pair of data sets provides an excellent base for choropleth mapping. \$10 non-members \$15

D2 Micro-World Data Bank II level 3. Contains over 26,000 points and describes coastlines, political boundaries, islands, rivers and lakes.
MS-DOS \$35 (for disk set) non-members \$45

D3 abcd
A four disk set of raster GIS 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. However, the data are stored in ASCII format and can be loaded into any system with a little bit of programming. An excellent teaching set!
MS-DOS \$30 (a four disk special) non-members \$45

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, prescribed wildfire units. A Canadian teaching set!
\$20 (2 disks) Non-members \$25 NEW!!!!

Prices in Canadian dollars
Number of disks refers to 360Kb.

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

Check disks required:

P1 P2 P3 P4 D1 D2 D3 D4

Total: \$ _____

Make cheques payable to the Canadian Cartographic Association.

Preferred format:
 a. 5/quarter" Double density
 b. 5/quarter" High density
 c. 3/1/2" Double density
 d. 3/1/2" High density

Coming Events.....

19-22 April 1990 Toronto, Ontario

Association of American Geographers Annual Mtg.
Contact: Marie Truelove, School of Appl. Geography,
Ryerson Polytechnical Institute,
350 Victoria St., Toronto, Ont. M5B 2K3

23-26 April 1990 Baltimore, Maryland

AM/FM International Conference
Contact: AM/FM International,
8775 Orchard Rd., Suite 820
Englewood, CO 80111

9-11 mai 1990 Trois-Rivières, Québec

Association Québécoise de Cartographie
16e Congrès Annuel, Univ. du Québec à T-R
Communication: Congrès Carto-Québec
Section de géographie
Département des sciences humaines
Université du Québec à Trois-Rivières
Caisse Postale 500, Trois-Rivières, (Québec) G9A 5H7

12-15 June 1990 Montreal, Quebec

Association of Canadian Map Libraries and Archives
24th Annual Conference "Applied Cartography"
Université de Montréal
contact: Pierre Lépine,
Secteur des cartes, Service des collections spéciales,
Bibliothèque Nationale du Québec
1700 rue St-Denis, Montreal, Quebec H2X 3K6

23-27 July 1990 Zurich, Switzerland

4th International Symposium on Spatial Data Handling
Contact: Symposium Secretariat,
Geographisches Institut, Universität Zurich,
Winterthurerstrasse 190,
CH-8057 Zurich, Switzerland

August 1990 Edmonton, Alberta

URISA '90
Annual Conference of the Urban and Regional
Information Systems Association
Contact: Hiske Gerding,
Alberta Parks and Recreation,
10405 Jasper Ave.,
Edmonton, Alta. T5J 3N4 (403) 427-5989

17-21 September 1990 Victoria, British Columbia

ISPRS Commission VII
Mid-term Symposium,
Global and Environmental Monitoring
contact: Frank Hegyi,
President, Commission VII,
1450 Government St.,
Victoria, B.C., Canada V8W 3E7
tel: (604) 387-6722

23-28 September 1990 Atlantic City, New Jersey

ASPRS/ ACSM Fall Meeting
Contact: ACSM,
210 Little Falls St, Falls Church, Va. 22046

1-4 October 1990 Washington, D.C.

International Map Collector's Society (IMCOS)
8th Annual Symposium
"Mapping America"
Contact: Eric Wolf,
6300 Waterway Dr., Falls Church, VA. 22044

9-16 August 1991 Washington, D.C.

27th International Geographical Congress
Contact: Dr. Anthony de Sousa, 27th IGC,
17th and M Sts. NW,
Washington, D.C. 20036

23 September - 1 October 1991 Bournemouth, U.K.

15th International Conference of the ICA
Contact: (in Canada) Dr. Jean Carriere
Département de géographie, (A-4175)
Université du Québec à Montréal
C.P. 8888, Succursale A,
Montréal, PQ H3C 3P8
tel: (514) 987-3063

17-19 April 1992 Vancouver, B.C.

Vancouver Conference on Exploration and Discovery
Contact: Conference Director,
Department of History, Simon Fraser University,
Burnaby, B.C. V5A 1S6

10-13 June 1990 Victoria, B.C.

Annual Meeting of the
Canadian Cartographic Association.

Contact: Dr. C. Peter Keller,
Dept. of Geography,
University of Victoria,
PO Box 1700, Victoria B.C. V8W 2Y2
tel: (604) 721-7333

*An important date to mark
on your calendar.....*

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74.42
77.01
78.65
80.06
85.05
90.50
100.00

