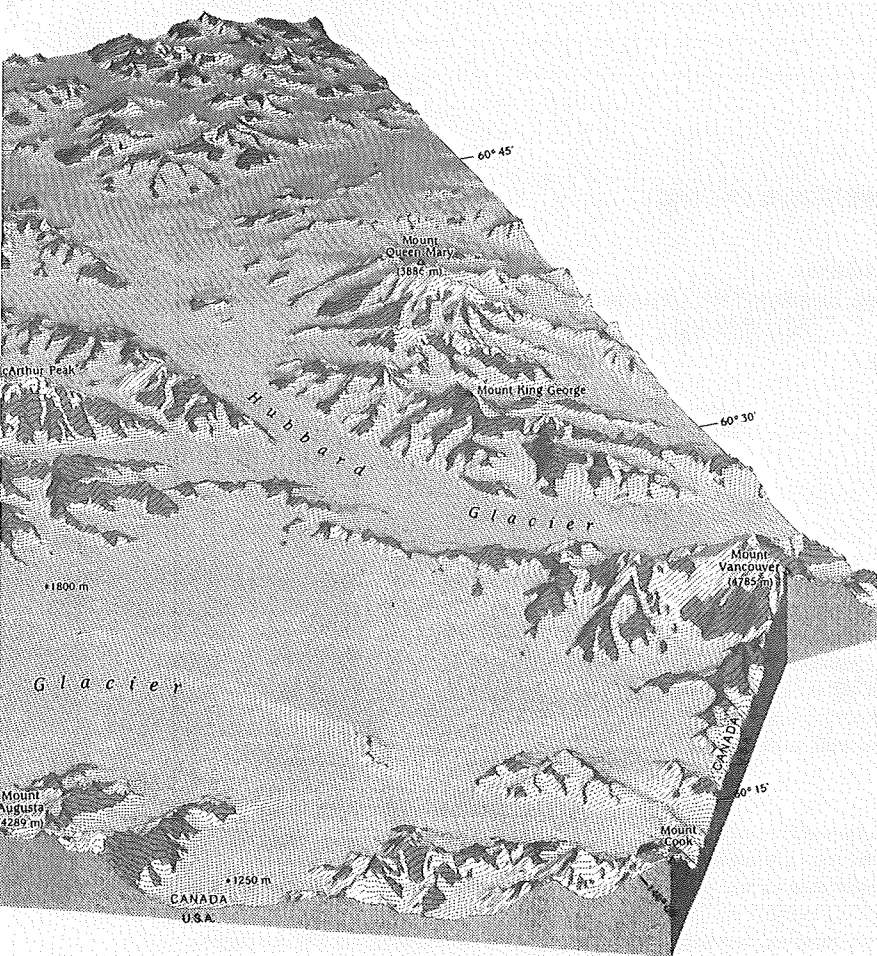


# CARTOUCHE

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



# CARTOUCHE

Number 10. Summer, 1993

numéro 10. été, 1993.

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ISSN 1183-2045

## Editor & CCA Secretary/Éditeur responsable et secrétaire de l'acc:

James Britton

Cartography and Geographic Information Systems Departments.

School of Natural Resources, Sir Sandford Fleming College, Lindsay, ON, Canada. K9V 5E6

Phone/Tél: (705) 324-9144

Fax/Télécopieur: (705) 878-9312

E-Mail/Cour élect: JBritton@FlemingC.on.ca

## CCA Managerial Office/ Bureau central de L'ACC

c/o Geography Department,

University of Calgary, Calgary, AB, Canada. T2N 1N4

Phone/Tél: (403) 220-4892 or 220-5597

Fax/Télécopieur: (403) 282-6561

Membership lists/liste d'inscription:

Monika Rieger

mkrieger@acs.ucalgary.ca

Cartouche is produced quarterly by the Canadian Cartographic Association.

**Content Deadlines are: January 10, March 31, June 30, & September 30.** (see back cover)

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

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

**Les dates limites pour l'envoi d'articles ou de documents sont les suivantes: 10 janvier, 31 mars, 30 juin, 30 septembre** (voir la dernière page). N'hésitez pas à soumettre des articles (vous êtes même priés de le faire!) que vous désirez publier dans le bulletin. Présentement, selon la politique en vigueur, l'éditeur doit publier en français et en anglais, l'éditorial ainsi que la description du processus de publication du bulletin. Le reste des articles paraîtront dans la langue dans laquelle ils ont été écrits. Bien que beaucoup d'efforts sont déployés en vue d'éviter de tels problèmes, l'éditeur (*de même que les cartographes!*) ne seront pas tenus responsables des erreurs de compilation ou de la perte d'articles qui leur seront soumis. Les opinions exprimées dans le cadre des éditoriaux, des articles et des lettres publiées dans le bulletin ne reflètent pas nécessairement celles de l'A.C.C..

*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.*

**Our Cover:** In our first wrap-around cover we feature David Douglas' computer map of Mount Logan. A colour version of the map was featured in a recent issue of *Canadian Geographic* as an accompanying piece to an article describing the experience of a climbing team as they tackled the mount. Their route can be seen running up to the peak from the left side of the map.

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

## **CCA Executive/ Comité Exécutif de l'ACC (1993/1994)**

### **President/Président: Alun Hughes**

Geography, Brock University  
St. Catharines, ON L2S 3A1

Phone/Tél: (905) 688-5550 Ext.3489

Fax/Téléc: (905) 688-2789

E-Mail/Courr. élect: ahughes@spartan.ac.brocku.ca

### **Vice-President/Vice-président: Marcia Faurer**

Geography, University of Winnipeg  
515 Portage. Winnipeg, MB R3B 2E9

Phone/Tél: (204) 786-9481

Fax/Téléc: (204) 786-1824

E-Mail/Courr. élect: Faurer@uwpg02.uwinnipeg.ca

### **Treasurer/trésorier: Shelly Laskin**

Globe Graphics  
664 Balliol Street Toronto, ON M4S 1E7

Phone/Tél: (416) 481-9513

Fax/Téléc: (416) 481-1236

### **Past-President: Majella Gauthier**

Département de géographie.  
Université du Québec à Chicoutimi  
555, boul. de université, Chicoutimi, QC G7H 2B1

Phone/Tél: (418) 545-5096

Fax/Téléc: (418) 545-5012

E-Mail/Courr. élect: MGauthier@uqac.quebec.ca

## **Interest Group Chairpersons/Chefs de Groups d'Intérêt.**

### **Computer mapping-GIS/automation-SIG: Y. C. Lee**

GIS Division, EMR  
615 Booth Street, Ottawa, ON. K1A 0E9

Phone/Tél: (613) 996-2812

Fax/Téléc: (613) 952-0916

E-Mail/Courr. élect: yclee@gisd.emr.ca

### **Education/éducation: Nigel Waters**

Geography, University of Calgary  
2500 University Drive  
Calgary, AB T2N 1N4

Phone/Tél: (403) 220-6398

Fax/Téléc: (403) 282-6561

E-Mail/Courr. élect: waters@acs.ucalgary.ca

### **History /histoire de la cartographie: Iain Taylor**

Geographical Services Division, EMR  
615 Booth Street, Ottawa, ON. K1A 0E9

Phone/Tél: (613) 992-4028

Fax/Téléc: (613) 996-8282

### **Map Use & Design/conception et utilization des cartes: Christine Earl**

Geography, Carleton University  
Ottawa, ON. K1S 5B6

Phone/Tél: (613) 788-2600 Ext 2570

Fax/Téléc: (613) 788-4301

E-Mail/Courr. élect: ceearl@ccs.carleton.ca

### **Technology/technologie: Patricia Chalk**

Geography, University of Western Ontario  
London, ON N6A 5C2

Phone/Tél: (519) 661-3425

E-Mail/Courr. élect: chalk@vaxr.sscl.uwo.ca

### **1994 Annual Meeting Head/Chef, Congès Annuel 1994: David Douglas**

Geography, University of Ottawa  
London, ON N6A 5C2

Phone/Tél: (613) 564-4045

Fax/Téléc: (613) 564-3304

E-Mail/Courr. élect: dhdad@acadvm1.uottawa.ca

### **GIC Technical Councillor for Cartography: R. Norman Drummond**

Geography Department, McGill University  
805 Sherbrooke Street W., Montréal, QC H3A 2K6

Phone/Tél: (514) 398-4939

Fax/Téléc: (514) 398-7437

E-Mail/Courr. élect: in23@musicb.mcgill.ca

### **Cartographica Editor: Bernard Gutsell**

12 Goodview Road, Willowdale, ON M2J 2K5

### **Associate Editor: Edward H. Dahl**

National Archives of Canada  
Ottawa, ON K1A 0N3

Phone/Tél: (613) 995-1452

Fax/Téléc: (613) 995-6575

E-Mail/Courr. élect: ad504@freenet.carleton.ca

## The Membership File/ filière du membres

by/par  
Monika Rieger

### New Members/membres nouveaux

|                      |                     |
|----------------------|---------------------|
| Alan Baker,          | Toronto, ON         |
| Vern Baldwin,        | Calgary, ON         |
| Bob Bruce,           | Winnipeg, MB        |
| Frank Bunn,          | North York, ON      |
| Patrick L Cherneski, | Regina, SK          |
| Philip Dodds,        | Madison, AL         |
| Monique M. Garnett,  | Brantford, ON       |
| Cindy Hazzard,       | Holyrood, ON        |
| Anne Hoffarth,       | Hanover, ON         |
| Daniel Iseminger,    | Vancouver, BC       |
| Nick January,        | Toronto, ON         |
| Mark James,          | Crystal Beach, ON   |
| Gary M. Jurowski,    | Lawrencetown, NS    |
| Eric Kramers,        | Ottawa, ON          |
| Tim Krsul,           | St Catharines, ON   |
| Gyneth Lake,         | Lindsay, ON         |
| Joanne Lemoine,      | Vermette, MB        |
| Chui-ming Luk,       | Kowloon, Hong Kong  |
| Carol Marley,        | Montréal, QC        |
| Brian Massey,        | Markham, ON         |
| Louise McTague,      | New Westminster, BC |
| Stephen Pattison,    | Victoria, BC        |
| Peter Paul,          | Ottawa, ON          |
| Harry Reece,         | Winnipeg, MB        |
| Blago Simeonov,      | Scarborough, ON     |
| Frank Thirkettle,    | Calgary, AB         |
| Edward Topliffe,     | Wyoming, ON         |
| Melvin Traynor,      | Winnipeg, MB        |
| Allen Wiebe,         | Winnipeg, MB        |
| Jack Wolbek,         | Bedford, MA         |

New Corporate Member  
PhD. Associates Inc, North York, ON

As of June 12, 1993, the CCA has 494 members on its list. The majority of members have paid their 1993 dues and I thank them for their continued support of the Association. For your interest, here are the statistics:

Total Paid-up Members: 320

Canada: 235      U.S.A.: 65

Other Countries: 20

Total Non-renewed Members: 174

Canada: 139      U.S.A.: 18

Other Countries: 17

It is not too late to send in your renewal for 1993. Please renew now in order not to miss any of the 1993 publications. See the inside cover for the address.

## President's message/ mot du président

by/par  
Alun Hughes

### Welcome

Welcome to a new year—the nineteenth—in the annals of the Canadian Cartographic Association. I am honoured to be your new President, and shall do my best to follow the fine example set by my immediate predecessor *Majella Gauthier* and the presidents who came before him.

No fewer than six of those past presidents (is this a record?) attended the recent CCA Annual Conference in Winnipeg, where they and the other delegates were treated to an excellent mixture of paper sessions, workshops, demonstrations, exhibits, field trips and social events, preceded by a one-day GIS Applications Colloquium. The conference was at once relaxed, friendly and intellectually stimulating—features that have become hallmarks of CCA gatherings over the years—and *Marcia Faurer* and her team of local organizers deserve our congratulations and thanks for mounting such a successful event.

The conference was also a time for business meetings—the CCA annual general meeting and two CCA executive meetings—and I shall devote the remainder of this report to reviewing highlights of these.

### Executive Retirements

Winnipeg saw the retirement of four stalwarts of the CCA executive committee: *Roy Doyon* (Technology Interest Group Chair), *Peter Keller* (Past President and former Education IG Chair), *Gary McManus* (Treasurer), and *Roger Wheate* (Manager and former Secretary and Map Use IG Chair). The current strength of the CCA is due in no small measure to the volunteer efforts of people like these, and on behalf of the association I wish to move a public vote of thanks for all they have done over the years. They all deserve special praise, Roy for his ever-constructive presence and his contributions to *Cartouche*, Peter for his superb leadership, foresight and initiatives as President, Gary for his unflappable custodianship of the treasury over two terms, and Roger for his never-failing enthusiasm, dedication, industry and sheer doggedness in promoting the interests of the CCA in what have not always been the most auspicious of circumstances.

## New Executive Members

Given what I have just said, it might seem strange that Roger is not being replaced as Manager... No, he has not been found to be dispensable after all! Instead, the bulk of the Manager's duties are being assumed by our new Membership Secretary, *Monika Rieger* of the University of Calgary, and the remaining work is being delegated through the President pending completion of a review of the structure of the executive committee (see next section). Our new Treasurer is *Shelley Laskin* of Globe Graphics in Toronto, and new Interest Group Chairs are *Nigel Waters* of the University of Calgary (Education) and *Patricia Chalk* of the University of Western Ontario (Technology). Welcome to all the newcomers, and welcome back to Marcia Faurer of the University of Winnipeg, who takes on the duties of Vice-President after two years as Education IG Chair.

## Executive Restructuring

One of the initiatives begun by Peter Keller as President was to review the existing structure of the CCA executive committee and to propose modifications intended to make its functioning more efficient and effective and to facilitate links with other organizations. These proposals are now being fine-tuned by the executive with a view to having them voted on at next year's AGM. Since they will involve constitutional changes they will be publicized in *Cartouche* in advance.

## Awards of Distinction

The CCA has inaugurated a program of Awards of Distinction for individuals who have made exceptional contributions to the practice of cartography, to cartographic scholarship, or to the CCA itself. Up to two awards may be made in each category, and all full members of the association are encouraged to nominate candidates. These new awards are in addition to the existing designation of Honorary Member, awarded for distinguished service to the CCA. There can only be two Honorary Members at any one time; the present incumbents are *Bernard Gutsell* and *Lou Sebert*, who were instrumental in founding the association in 1975.

## President's Prize

The long-standing President's Prize competition recognizes outstanding map-making by college and university students. There are five separate mapping categories, and there is in addition an award for the best student paper presented at the annual conference.

The specifications for each category are published every year in the newsletter. These specifications are currently being revised, so if you are a student or a college or university instructor keep an eye open for the forthcoming announcement in *Cartouche*.

## Careers Booklet

Work has been underway on a comprehensive booklet called *Careers in Cartography*, and the text is now complete. It has seven sections entitled: What is cartography? What are the cartographic sciences? How are maps produced? What do cartographers do? Where do cartographers work? What do I need to be a cartographer? and How do I become a cartographer? There is also a detailed appendix. Illustrations are now being chosen, and negotiations are in progress with regard to publication.

## Memorandum of Understanding

On November 1, 1991 a Memorandum of Understanding was signed between the CCA and the Canadian Institute of Surveying and Mapping (now the Canadian Institute of Geomatics), which formalized links between the two associations, and in particular clarified Canadian representation on the international scene by setting out terms of reference for the Canadian National Committee for the International Cartographic Association. The MOU was to remain in force until June, 1993, when it would be reviewed by both parties. This has now been done, and I'm pleased to report that a new version of the MOU is almost ready for signing.

## CCA Conference 1994

Next year's conference represents a departure from normal practice in that it is being held in early August instead of May or June. It is also exceptional in that we shall be meeting jointly for the first time with the North American Cartographic Information Society (NACIS), an association with which the CCA shares many common interests. The venue is Ottawa, where the local coordinator is *David Douglas*. Full details of the joint conference (and of a special cartographic event that will accompany it) will be published starting in this issue of *Cartouche*.

## ICA Conference 1999

A Steering Committee has been established to prepare a bid to bring the Technical Conference and General Assembly of the International Cartographic Association to Canada (specifically Ottawa) in 1999. The committee is chaired by *Clifford Wood* of Memorial

University, current President of the CIG, and contains representatives from all mapping sectors, government, industry and academe. The official CCA representative on the committee is Peter Keller, and several other CCA members are present in other capacities. Three subcommittees (Finance/Administration, Local Arrangements, Program) have been set up, and are due to report by the fall. The aim is to have a bid ready for presentation at the ICA meeting in Barcelona in 1995.

## Bienvenu

Bienvenue à cette nouvelle année —la dix-neuvième— dans les annales de l'Association canadienne de cartographie. J'ai l'honneur d'être votre nouveau Président et je devrais faire de mon mieux pour suivre l'exemple de mon prédécesseur immédiat *Majella Gauthier* et des présidents qui sont venus avant lui.

Pas moins de six de ces anciens présidents (est-ce une nouvelle marque?) ont assisté à la récente conférence annuelle de l'ACC à Winnipeg, où ceux-ci et les autres participants se sont régalez d'un excellent mélange de sessions de communications, d'ateliers, de démonstrations, d'expositions, de sorties sur le terrain et d'événements sociaux, tout cela précédé d'un colloque sur les applications des SIG. La conférence fut détendue, amicale et stimulante intellectuellement —qualités qui ont toujours prévalués lors des réunions de l'ACC— et *Marcia Faurer* et son équipe d'organisation locale mérite nos félicitations et nos remerciements pour avoir préparé une rencontre si intéressante.

La conférence a été aussi le temps pour discuter d'affaires —la réunion générale annuelle de l'Association et les deux réunions de l'exécutif— et je voudrais rappeler dans ce rapport les points importants dont il a été question.

## Départs de l'exécutif

À Winnipeg, on a vu le départ de quatre valeureux membres du comité exécutif: *Roy Doyon* (président du groupe d'intérêt sur la technologie), *Peter Keller* (président-sortant et ancien président du groupe d'intérêt sur l'éducation), *Gary Mc Manus* (trésorier), et *Roger Wheate* (administrateur, ancien secrétaire et ancien président du groupe d'intérêt sur l'utilisation des cartes). L'actuelle solidité de l'ACC est due aux efforts bénévoles de gens comme ceux-ci, et au nom de l'Association, je voudrais proposer une motion générale de félicitations pour tous ceux et celles qui servi l'ACC au cours des années passées. Ils méritent des éloges spéciaux, Roy pour sa présence toujours

constructive et ses contributions à *Cartouche*, Peter pour son merveilleux leadership, ses vues et ses initiatives comme président, Gary en tant que gardien inébranlable des finances durant deux termes, et Roger pour son enthousiasme sans défaillance, sa loyauté, son application et sa franche ténacité à promouvoir les intérêts de l'ACC, et ce dans des conditions qui n'étaient pas toujours des plus favorables.

## Nouveaux membres de l'exécutif

Étant donné ce que je viens d'affirmer, on trouvera étrange que Roger ne soit pas remplacé comme administrateur... Non, après tout, il n'a pas été jugé que l'on devait l'éliminer! Au lieu de cela, on a décidé que ce que faisait l'administrateur sera maintenant entre les mains d'un nouveau poste à l'exécutif secrétaire à l'adhésion; *Monika Reiger* de l'Université de Calgary s'en occupera. Le reste du travail sera assuré par le président en attendant la terminaison de la restructuration du comité exécutif (voir le prochain paragraphe). Notre nouvelle secrétaire est *Shelley Laskin* de Globe Graphics in Toronto, and les nouveaux présidents des groupes d'intérêts sont: *Nigel Waters* de l'Université de Calgary (éducation) et *Patricia Chalk* de l'Université Western Ontario (technologie). Bienvenue aux tout nouveaux et bienvenue à *Marcia Faurer* de l'Université de Winnipeg, qui nous revient comme vice-présidente alors qu'elle occupait le poste d'animatrice du groupe d'intérêt sur l'éducation au cours des deux dernières années.

## Restructuration de l'exécutif

L'une des initiatives que démarra Peter Keller à titre de président a été de renouveler la structure existante du comité exécutif et de proposer des modifications voulant rendre son fonctionnement plus efficace et plus productif et désirant faciliter les liens avec les autres organisations. Ces propositions sont maintenant approuvées par l'exécutif et nous pensons les soumettre aux membres lors de la prochaine réunion générale annuelle. Puisque ces modifications vont entraîner des changements dans notre constitution, elle seront publiées d'avance dans *Cartouche*.

## Récompenses de distinction

L'ACC a mis au point un programme de récompenses de distinction pour les individus qui ont apporté des contributions exceptionnelles à la pratique de la cartographie, à l'enseignement et à la recherche en cartographie, ou encore à l'ACC elle-même. Jusqu'à deux récompenses peuvent être attribuées dans

chaque catégorie, et les membres réguliers de l'Association sont encouragés à soumettre des noms de candidats. Ces nouvelles récompenses s'ajoutent à celle déjà en place de membre honoraire, accordée en raison de services remarquables rendus à l'ACC. Il ne peut y avoir que deux membres honoraires en même temps; pour le moment, ce sont *Bernard Gutsell* et *Lou Sebert*, deux fondateurs de l'Association en 1975.

### **Le Prix du président**

Depuis longtemps la compétition pour le prix du président reconnaît la qualité des cartes produites par les étudiants des collèges et des universités. Il y a cinq catégories de cartes, et il y a en plus une récompense accordée à la meilleure communication orale présentée à la réunion annuelle par un étudiant. Les spécifications pour chaque catégorie sont publiées chaque année dans *Cartouche*. Elles sont actuellement en voie de révision; ainsi si vous êtes étudiants ou enseignants dans un collège ou une université, ayez l'oeil vigilant.

### **La brochure sur la carrière**

Le travail est en marche pour produire une brochure appelée *Careers in Cartography / Carrières en cartographie*, et le texte est déjà terminé. Elle est divisée en sept sections: Qu'est-ce que la cartographie? Que sont les sciences cartographiques? Comment les cartes sont produites? Que font les cartographes? Où travaillent les cartographes? De quoi ai-je besoin pour être un cartographe? Comment puis-je devenir cartographe? Il y aura des détails supplémentaires. On est en train de choisir les illustrations et les négociations progressent pour la publication.

### **Entente CCA/CIG**

Le premier novembre 1991 une entente a été signée entre l'ACC et l'Association canadienne d'arpentage et de cartographie (maintenant appelé Association canadienne des sciences géomatiques) dans laquelle est donnée une forme aux liens entre les deux associations, et en particulier, on y clarifie la représentation canadienne au niveau international en stipulant les termes de référence en ce qui concerne le Comité national canadien pour l'Association cartographique internationale. L'entente était à renouveler en juin 1993 mais auparavant elle devait être révisée par les deux parties. Ceci est maintenant fait, et je suis heureux de dire que la nouvelle version est prête à signer.

### **La conférence de l'ACC en 1994**

La prochaine conférence représente un changement par rapport à la pratique normale en ce qui concerne le moment où elle se déroulera; ce sera au début d'août plutôt qu'en mai ou juin. Ce sera aussi une rencontre exceptionnelle en ce sens que ce sera la première fois qu'il y aura une réunion conjointe avec la North american cartographic information society (NACIS), une association avec laquelle l'ACC partage des intérêts communs. La réunion aura lieu à Ottawa où l'organisateur local est *David Douglas*. Tous les détails de cette conférence (et d'une éventuelle et spéciale activité cartographique s'y rattachant) seront publiés dans les prochains numéros de *Cartouche*.

### **La Conférence de ACI en 1999**

Un comité de direction a été formé pour préparer la promotion afin d'amener la conférence technique et l'assemblée générale de l'Association cartographique internationale au Canada (spécifiquement à Ottawa) en 1999. Ce comité, présidé par *Clifford Wood* de l'Université Memorial, actuellement président de de l'Association canadienne des sciences géomatiques, est constitué de représentants des tous les secteurs de la cartographie, gouvernement, industrie et enseignement. Le représentant officiel de l'ACC est *Peter Keller* de l'Université de Victoria, et plusieurs membres de l'ACC y sont également à d'autres titres. Trois sous-comités (finance/administration, organisation locale, programme) ont été mis sur pied et doivent préparer un rapport à l'automne. Le but est de constituer un front commun pour présenter la candidature du Canada à Barcelone en 1995 lors de la réunion de l'ACI.

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### **In our next issue:**

**Winning maps**

**AGM Photographs**

**New SIG chairs speak out.**

**An interview with Denis Wood,  
author of *The Power of Maps***

*Cartouche* #11, due out in November.

## Automation/automation

by/par  
Y. C. Lee

### GIS-RELATED PUBLICATIONS FOR YOUR ASKING

The GIS technology is very much influenced by advances in computer science and related fields. We sometimes find it difficult to keep abreast with new developments without the help of good reading materials.

It is nice to know that not all good things cost money. Many publishers of magazines and newsletters offer free subscriptions. Those from computer magazines are particularly generous, and they would offer free subscription to anyone who care to fill out an application form showing that they have something to do with computers. I have listed here a number of publications that we can obtain free of charge.

### FREE COMPUTER MAGAZINE SUBSCRIPTIONS

#### GENERAL:

Datamation: P.O. Box 17162,  
Denver, Colorado 80217-9897

Office Systems and Technology:  
Maclean Hunter Ltd.,  
McLean Hunter Building,  
777 Bay Street, Toronto, M5W 1A7.

Computing Canada:  
Plesman Publications Ltd.,  
2005 Sheppard Ave. East, 4th Floor,  
Willowdale, Ontario, M2J 5B 1.

Data Communications:  
P.O. Box 378, Dalton, MA 01227.

Network Computing:  
CMP Publications, Inc.  
Attn: Network Computing Circulation Dept.,  
600 Community Drive,  
Manhasset NY 11030-9789.

#### IBM AND COMPATIBLES:

Enterprise Systems Journal:  
P.O. Box 551628, Dallas TX 75355-9989.

PC Week:  
P.O. Box 5970, Cherry Hill, NJ 08034.

#### DEC:

DEC Professional:  
P.O. Box 218, Horsham PA 19044-0218.

#### Digital Review:

P.O. Box 173367, Denver, Colorado 80217.

#### Digital News:

P.O. Box 3, Winchester, MA 01890-9960.

#### MACINTOSH:

MacWeek: P.O. Box 1764, Riverton, N.J. 08077-7364.

#### UNIX:

##### Open Systems Today:

Circulation Department,  
P.O. Box 2170, Manhasset, NY 11030-4376.

#### OTHER SYSTEMS:

Sun World: P.O. Box 41534, Nashville, TN 37204-9925.

HP Professional: P.O. Box 616, Horsham, CA 19044.

### FREE NEWSLETTER SUBSCRIPTIONS GENERAL:

#### Federal Geomatics Bulletin:

GIS Division, EMR,  
615 Booth Street, Ottawa, Ontario, KIA OE9.

GEOS: (A quarterly about the earth's resources.)

EMR, 580 Booth St., Ottawa, Ontario, KIA OE4.

#### LRIS Newsletter:

960, 108th Street Building, 9942-108 Street,  
Edmonton, Alberta, T5K 2J5.

(Published by the Land-Related Information  
Services Project.)

#### RESEARCH AND EDUCATION:

##### NCGIA Update:

National Center for Geographic Information and  
Analysis Department of Geography, 3510 Phelps,  
University of California, Santa Barbara, CA 93106-  
4060.

##### Geocal:

CTI Centre for Geography, Department of Geogra-  
phy, University of Leicester, Leicester, UK, LE1 7RH  
(Computers in teaching initiative.)

#### STANDARDS:

##### The DCW Digest:

c/o IDON Corporation,  
875 Carling Avenue, Ottawa, Canada, K1S 2E9.

#### REMOTE SENSING:

SPOTLIGHT: (quarterly newsletter: SPOT Image  
Corp.)

1897 Preston White Drive, Reston, Virginia 22091-  
4368.

##### Earth Observation Quarterly:

ESA Publications Division, ESTEC Keplerlaan,  
2200 AG Noordwijk, The Netherlands.  
(Published by the European Space Agency.)

## Map Design and Use/ conception et utilisation des cartes

by/par  
Christine Earl

In the neat ideas category, and of special note to those with a particular interest in maps for the visually impaired (a branch of cartography often called "tactile mapping"), may be the work of *Charles La Pierre*, a fourth-year engineering student at Carleton University whose honours project was recently reported by the campus newspaper, *This Week At Carleton*.

Charles La Pierre is visually impaired and this challenge has provided the inspiration for his project, the development of a navigational system which, theoretically, could assist blind persons to find their way anywhere on the planet since it uses geographical co-ordinates fixed by satellite. La Pierre calls his system *Navigational System for the Visually Impaired*, or NVI. It employs the Global Positioning System (GPS) to establish location, in conjunction with a database containing co-ordinate information for elements of the landscape. The system will compare the GPS data with the digital "map" in memory until it finds a match and then sends the information to a text-speech converter which tells the user exactly where they are.

Though it's an exciting concept, La Pierre's prototype is, as yet, somewhat cumbersome. It consists of a GPS receiver, a laptop computer and "fairly antique" voice synthesizer. He envisages a Walkman-sized unit and is considering further work in miniaturization. Hardware considerations aside, one can imagine the enormous task that the creation of a database larger than a neighbourhood will be. La Pierre created his own database of the university campus by walking around it, determining the latitude and longitude of each point location and inputting it directly.

The possible utilization of databases developed for the purposes of emergency services and facilities planning might, however, mitigate this difficulty. Despite the obstacles, this idea's obvious technological feasibility and its potential usefulness and versatility makes La Pierre's dream of Walkman-sized NVIs a not-too-fantastical goal. Imagine how much simpler such an electronic gadget would be to carry than a plastic three-dimensional model, and how much more geographical detail it could potentially store. At any rate, La Pierre's invention has already received a lot of publicity and interest in the engineering community, and I believe it should be noted by the cartographic community as well.

## Education/ éducation

by/par  
Marcia Faurer

### 1993 CCA Conference and 6th Annual GIS Applications Colloquium - Winnipeg, Manitoba, June 2 - 6

On behalf of the organizing committee for the 1993 CCA Conference and GIS Colloquium, I would like to thank everyone who helped make this meeting a success. In the weeks before the conference, we watched the mail daily in anticipation of the flood of registrations, and as they slowly trickled in we began to worry. In the end, 75 people registered and by all accounts, the conference was a success.

Upon reflection, I realize that it is not the number of people present, but the content and atmosphere of the event that determine its success. The diversity of the papers and exhibits and posters, and the backgrounds of all in attendance contributed to the quality of the conference, and I would like to thank them all by listing them here (in order of appearance):

### Speakers

- Ute Dymon, Kent State University,  
Modern Technology in Human Response to  
Disasters.
- Helen Purves, Parks Canada,  
Use of GIS in the Canadian Parks Service
- Rick Hayward, Red River Community College,  
Development of a Post Diploma GIS Technology  
Program at Red River Community College.
- Gord McKenzie, Projections Mapping Group,  
Chevron Production Company Land Information  
System - Land Lease Management
- Kirby Gehman, Canadian Forces Reserve,  
Western Area Intelligence Detachment,  
Potential Military Applications of GIS
- Bob Bruce and John Arthur,  
Manitoba Department of Natural Resources,  
GIS as a Decision Making Tool in the  
Development of the Oak/Plum Lakes  
Water Management Project.
- Roger Wheate, University of Calgary,  
Using Remote Sensing and GIS to Minimize  
Human-Bear Conflicts in Yoho National Park.
- Hartley Pokrant,  
Chief, Manitoba Remote Sensing Centre,  
The Role of Remote Sensing in Mapping.  
(Keynote Address, CCA Conference)

Gary McManus, Memorial University,  
Input and Output Obstacles Encountered in the  
Desktop Production of Maps for  
Overhead Transparencies.

Larissa McCutcheon, University of Winnipeg,  
Changing Map Complexity.

Peter Keller, University of Victoria,  
Exploratory Spatial Data Analysis (ESDA):  
A New Cartography or Old Hat?

Michael Coulson, University of Calgary,  
What's So Cartographic About GIS Output?

Bruno Simoneau, Centre canadien de géomatique,  
La Base National de Données Topographiques  
Numériques le Quoi, le Pourquoi et le Comment.

Ross McLachlan, Yukon GIS Coordination Unit,  
A Beginners Guide to Graphic File Formats.

Charles Conway, Memorial University,  
Importing AUTOCAD Files into CORELDRAW!  
Desktop Cartography.

David Douglas, University of Ottawa,  
The Wonderful Slope Line: Unexplored Applica-  
tions in Digital Cartography and GIS.

Linda Vincent and John Irvine,  
Faculty of Law, University of Manitoba,  
Cartography and the Law: Copyright and Liability.

Victor Glickman, Statistics Canada,  
The Network on the Marketing of Geographic  
Information.

Alun Hughes, Brock University,  
McDonnell, Tinling, and Frey:  
The First Surveys of Niagara Township.

Karen Stock, University of Manitoba,  
Mapping the Traditional Land Use and Occupancy  
of the Waterhen First Nation in Manitoba.

Wayne Moodie, University of Manitoba,  
Maps in the Daily Lives of the Indian Hunter-  
Gatherers.

Harry Steward, Clark University,  
A Re-Evaluation of Topfer's Radical Law.

Monika Rieger and Michael Coulson,  
University of Calgary,  
Tactile Maps from GIS.

Janet Mersey, University of Guelph,  
Making Your Point: Creating Proportional Symbol  
Maps on the PC.

Michel Rheault, Université de Sherbrooke,  
Un pas dans la Bonne Direction: le Logiciel Carto-  
Didacte.

Ute Dymon, Kent State University,  
Professional Training as a Factor in Proliferation of  
GIS Applications.

Carrie Brown, Bell Canada,  
Integration of Existing Mapping Projects -  
A Telephone Company Experience.

Y.C. Lee and F.Q. Zhou,  
University of New Brunswick,  
Modelling and Representation of Uncertainty in  
Spatial Data.

David Mercer, Memorial University,  
Standardization of Maps and its Application to  
Aeronautical Charts.

Yanni Xiao, University of Lethbridge,  
Topographic Generalization for DTM Error  
Modelling.

John Wolber, Ektron Applied Imaging,  
Measuring the Geometric Accuracy of a very  
Accurate, Large Drum Type Scanner.

Eva Siekierska, Canada Centre for Mapping, Jun Yang  
and D.R.F. Taylor, Carleton University,  
Concept Design and Knowledge Acquisition for the  
Thematic Map Design Advisory System (TMDAS).

Philip Dodds, Intergraph Corporation,  
Scanning: The most efficient way to populate your  
Mapping Database.

### Posters:

Majella J. Gauthier, Michel Savard, Marie-Josée  
Tremblay,  
Université du Québec a Chicoutimi,  
Un System d'Information Géographique sur les  
Insectes.

Gary Grant, Atlantic Geoscience Centre, GSC,  
Changing Maps - A Cartographic Evolution and  
Publication on Demand.

Phil Stooke and Gordon Shields,  
University of Western Ontario,  
Mapping the Moons of Saturn.

### Workshops and Field Trips:

Jean McKendry and Margaret Pearce, IDRISI  
Timothy Ball, University of Winnipeg and Judith  
Beattie, Hudson's Bay Company Archives,  
The Map Collection and Vault of the Hudson's Bay  
Company Archives.

Y.C. Lee, University of New Brunswick,  
Introduction to GPS/GIS Integration.

Wayne Leeman, Director, Provincial Surveys and  
Mapping Branch.

Roy Doyon, United Nations Cartographic Unit,  
ADOBE ILLUSTRATOR for Beginners.

Charles Conway and Gary McManus, Memorial  
University,  
Desktop Cartographic Production with  
CORELDRAW!

Jaqueline Anderson, Concordia University,  
Introducing Basic Mapping Concepts to Students  
Grades 1 - 3

Henry Castner, Queen's University,  
Separated at Birth? Caricaturing and Cartographic  
Generalization.

## Exhibitors:

Oyo Geospace, Calgary, Alberta.  
Projections Mapping Group, Calgary, AB.  
IDRISI, Clark University, Worcester, MA.  
Lewis Instruments, Winnipeg, MB.  
Surveys and Mapping Branch, Province of Manitoba.  
Bedford Institute of Oceanography, Dartmouth, NS  
TAS Terrain Analysis, Winnipeg, MB..

## Aurevoir David!

by/par  
Claudette LeBlanc

David Salter died last October at the age of 33 following a short illness; he is survived by his wife, Janice, three young children. David had recently become a member of the CCA. I had long ago recognized his potential of making a significant contribution to the Association, perhaps as an executive member in years to come. Some of you may remember David from the 1992 CCA Conference in Montréal where he presented a paper in Jan Mersey's session on map design.

I have known David since he came to work at MRMS Inc. (now LRIS) in Amherst, Nova Scotia following his graduation from the Nova Scotia Survey Institute (now COGS) in Lawrencetown. At the time, he was an eighteen year old kid, skinny and a practioner of the pun - a favourite being the farmer who was outstanding in his field. I watched him mature from a teenager to a young man, still skinny and still favouring puns!

Beginning his career as a junior cartographer, he quickly progressed to the intermediate level and finally on to the demanding senior position of supervisor of the GIS Section. He brought his knowledge of mapping to that position, a characteristic sometimes lacking in individuals associated with that mapping technology. He also brought a respect for people and maps which was apparent in his dealings with peers and clients and in his search for quality.

David's absence is often felt by his coworkers. Some days the feeling is a longing for his quiet friendship and support and at times it is a need for his professional knowledge and experience. Sometimes it is simply the feeling that David will walk around the corner at any minute in his distinctive way, probably wanting to discuss some mapping issue, but occasionally just wanting to spring a pun on some unsuspecting person!

## News/nouvelles

### Northern Alberta Institute of Technology (NAIT) and Business Partners Win Conference Board of Canada Award.

The Microcomputer Institute of NAIT and their business partners have won the 1992/3 Award for Excellence in Business - Education Partnerships, in Geographic Information Systems, for Alberta, from the Conference Board of Canada.

The Conference Board of Canada is a non-profit organization, and is Canada's leading independent applied research institution. They provide objective information and analysis of national and international economics, management and public policy issues.

NAIT's business partners who share the award are:

- Geographic Base Information Systems (GBIS) Office,
- City of Edmonton
- URI SA
- Intergraph Canada Ltd.
- Canadian Intergraph Users Group
- GWN Systems Incorporated
- Ron Cook and Associates
- Alberta Energy Forestry Lands and Wildlife
- Alberta Computer Graphics Users Group
- DMR Group Incorporated
- Alberta Transportation

NAIT's GIS Training Centre, the first of its kind in Canada, began offering GIS courses in November of 1992. NAIT is responsible for the delivery of the programs but the partners supply content experts for programming development.

According to Kewal Dhariwal, Program Head of the Microcomputer Institute, NAIT, "There will be increased demand for these kinds of partnerships in the future. They allow educational institutions and industry to work together to enhance the skills of today's workforce for the future. This will strengthen Canada's competitiveness on a global basis."

### World Atlas of Refugees

Two geographers are assembling a world atlas of refugees and other displaced people that will cover from 1945 to 1992. People interested in participating in a November 1993 symposium on the topic r contributing to the atlas should contact Lubomyr Luciuk, Politics and Economic Science, Royal Military College, Kingston, ON, K7K 5L0; tel. (613) 541-6390; fax (613) 546-2312

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## **LES CARTES SOUMISES AU CONCOURS POUR LE PRIX DU PRÉSIDENT: MAPS SUBMITTED FOR THE PRESIDENT'S PRIZE COMPETITION:**

### **RAPPORT 1993 REPORT**

Le présent rapport consiste en un compte-rendu du concours tenu à Winnipeg lors de la réunion annuelle de juin dernier. Dans une première partie, il y aura une brève analyse de la liste des cartes soumises et dans une deuxième partie, ce sera la confirmation des heureux gagnants.

Il faut dire au départ que les cartes soumises ont été exposées tout au long de la conférence dans une belle salle spécialement réservée à cet effet: le Exhibit Hall de l'Université de Winnipeg. Tous les congressistes ont eu la chance de visiter à quelques reprises l'exposition des cartes et ils n'ont pas raté l'occasion de s'émerveiller devant les réalisations des étudiants, y allant de leurs commentaires sur le choix des thèmes, la conception graphique, l'originalité des illustrations.

Les documents soumis ont été affichés en trois groupes. Il y a eu 23 cartes monochromes, 34 cartes en couleur et 7 ont été classées dans la catégorie des cartes informatisées innovatrices; au total il y a eu 64 soumissions. La plupart des cartes avaient un format de 11 pouces sur 17 pouces, certaines étaient produites sur un format 11 pouces sur 8,5 pouces, alors que d'autres pouvaient s'étendre sur quelques pieds. Les cartes provenant des universités étaient au nombre de 29 dont 90 % en noir et blanc, tandis que les collèges ont présenté 35 documents dont 90 % en couleur. Les régions traitées concernaient spécifiquement le Canada ou une partie du Canada dans une proportion de 64 %, les autres contrées allant autant de la Grèce, de l'ensemble du monde, que de Sainte-Lucie et du Népal.

Les thèmes ou les sujets abordés étaient très variés et couvraient des réalités ou des problèmes actuels. Le tableau qui suit (tableau no 1) livre une classification bien empirique des sujets traités et est révélateur du contenu et de la forme qu'ont épousée les documents soumis. On peut savoir de quelles régions il était question, si la provenance était d'une université (U) ou d'un collège (C), si on utilisait la couleur (C) ou non (M). Ou si elle était parmi les cartes innovatrices informatisées (I).

Une brève analyse révèle que les cartes topographiques sont les plus nombreuses, qu'elles sont en couleur et qu'elles proviennent exclusivement des collèges. Les problèmes de société occupent le deuxième rang et les cartes sont à peu près également partagées entre les deux types d'institution. D'un côté, l'économie et le transport ont été traités exclusivement par les étudiants universitaires, et de l'autre, le tourisme semble avoir la faveur des étudiants des collèges; les questions urbaines, l'histoire, la criminalité sont assez bien partagées entre les deux groupes.

Ajoutons qu'il y a eu sept présentations de communications de la part des étudiants. Là aussi, les sujets étaient variés et les exposés étaient de toute première qualité.

Passons maintenant à la liste des cartes qui ont été sélectionnées.

Ainsi, les gagnants pour le concours du Prix du président sont par catégorie:

#### **Carte monochrome (cours d'introduction)/Monochromatic map (introductory course)**

*Africa: Transportation infrastructure in landlocked countries*, par Hans Beurskens and Steve Molsin, University of Victoria (C.-B.). Ils se méritent chacun un certificat et la somme de 25\$.

#### **Carte monochrome/Monochromatic map**

*Canada's export 1989*, par T. Leeney, Sir Sandford Fleming College, Lindsay, Ont.  
Il se mérite un certificat et la somme de 50\$.

### **Carte en couleur/Colour map**

*Saint Lucia*, par Glen Edwards, Sir Sandford Fleming College, Lindsay, Ont..  
Il se mérite un certificat et la somme de 50\$.

### **Carte journalistique/Journalistic map**

Trois cartes furent ex aequo:

*À la recherche de nouveaux habitats*, par Alain Landry et Julie Perron,  
Département de géomatique, CEGEP de Limoilou, Québec.  
Ils se méritent un certificat et se partageront la somme de 100\$US offerte par Time Magazine.

*Le noyau familial en mutation*, par Chantal Chenevert, Lucie Godin, et Sylvie Tétreault,  
Département de géomatique, CEGEP de Limoilou, Québec.  
Ils se méritent un certificat et se partageront la somme de 100\$US offerte par Time Magazine.

*Earthquake*, by Anne Munro, College of Geographical Sciences, Laurencetown, N. S.  
Elle se mérite un certificat et une somme de 100\$US offerte par Time Magazine.

### **Carte informatisée innovatrice/Innovative computer map**

*Plankton sampling: Labrador Shelf*, par Debbra Wilkinson, College of Geographical Sciences, Lawrencetown, N. S.  
Elle se mérite un certificat et la somme de 50\$.

### **Le meilleur exposé fait par un(e) étudiant(e)/Best student paper presentation**

Deux étudiantes furent ex aequo.

*Tactile maps from geographical information systems*, par Monika Reiger,  
University of Calgary. Elle se mérite un certificat et la somme de 25\$.

*Concept design and knowledge acquisition for the thematic map design advisory system (TMDAS)*, par Jun Yang,  
Carleton University, Ottawa. Elle se mérite un certificat et la somme de 25\$.

Personnellement et au nom de l'Association canadienne de cartographie, je tiens à féliciter tous les gagnants. et à remercier tous les participants au concours; vous avez présenté des travaux de très grande qualité; c'est grâce à vous que le concours fut un succès. Je vous invite à continuer d'exceller, à participer au concours de l'an prochain et à encourager vos amis à le faire. Également, je tiens à remercier aussi les membres du jurys qui n'ont pas eu une mince tâche de départager des gagnants. et à exprimer ma gratitude aux responsables de l'organisation de la conférence de Winnipeg et spécialement Marcia Faurer, l'âme de toutes ces activités.

En terminant, j'encourage tous les professeurs et les cartographes en herbe à se préparer pour le prochain concours et à porter attention à certaines modifications qui seront apportées aux catégories. Dans un autre ordre d'idée, il est à remarquer qu'un bon nombre de maisons d'enseignement ne se gênent pas pour inciter les étudiants à présenter des cartes pour le concours; bravo. Cependant, la participation des étudiants de plusieurs institutions, dont nous connaissons les compétences en matière de cartographie, fait vraiment défaut; ne faudrait-il pas qu'ils viennent se frotter un peu à la compétition?

Majella-J. Gauthier  
Responsable du concours  
Président sortant de l'ACC.

Tableau no 1

**Les Cartes soumises au Concours pour le Prix du Président 1993**  
**Maps submitted for the 1993 President's Prize Competition**

**Provenance/School Type:**

C = College  
 U = Université

**Catégorie/Category:**

C = Couleur/Colour  
 M = Monochrome  
 I= Innovatrices informatisées  
 Innovative computer

**Sujets**  
**Subject**

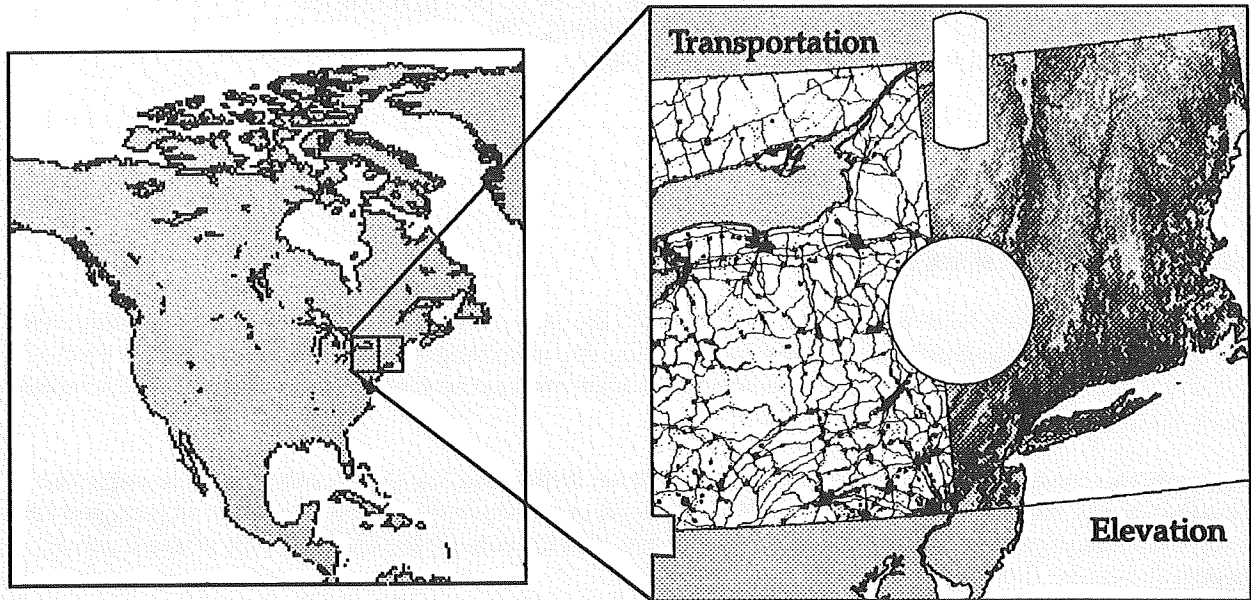
**Régions**  
**Subject Area**

|                                          |                       |     |
|------------------------------------------|-----------------------|-----|
| Criminalité                              | Winnipeg              | U/I |
| Criminalité                              | Comm. urb. de Québec  | C/C |
| Criminalité<br>(women murders)           | Calgary               | U/M |
| Économie<br>(Canada's exports)           | Monde                 | U/M |
| Économie<br>(Canada's exports)           | Monde                 | U/M |
| Économie (farming)                       | Ontario               | C/C |
| Économie (fishery)                       | Nouvelle-Écosse       | C/C |
| Économie<br>(gross domestic prod.)       | Monde                 | U/M |
| Économie<br>(Maastricht standards)       | Europe                | U/M |
| Environnement<br>(acid rain)             | Calgary               | U/M |
| Environnement<br>(industrial pollution)  | Québec                | U/M |
| Environnement<br>(nuclear explosion)     | CEI                   | U/M |
| Environnement<br>(recycl. and compost.)  | Lethbridge            | U/C |
| Environnement<br>(waste disposal)        | Québec                | U/M |
| Faune<br>(habitats fauniques)            | Québec                | C/C |
| Faune<br>(moose management)              | Québec                | U/C |
| Faune<br>(plankton)                      | Labrador shelf        | C/I |
| Géographie physique                      | McLabs Island         | C/I |
| Géographie physique                      | Kejimikujik Nat. Park | C/I |
| Géographie physique<br>(earthquake)      | Colombie-Britannique  | C/C |
| Géographie physique<br>(hurricane march) | Amérique du Nord      | U/M |
| Histoire                                 | Pologne               | C/C |

**Histoire**

|                                     |                      |     |
|-------------------------------------|----------------------|-----|
| (archeological guide)               | Grèce                | C/C |
| Histoire<br>(ethnic slavery)        | Jamaïque             | U/M |
| Histoire<br>(Historic Fort McLeod)  | Alberta              | U/C |
| Histoire<br>(seven world powers)    | Monde                | C/C |
| Nobel prizes                        | Monde                | U/M |
| Société (dépeuplement)              | Comm. urb. de Québec | C/C |
| Société (familles)                  | Comm. urb. de Québec | C/C |
| Société (familles)                  | Comm. urb. de Québec | C/C |
| Société (human rights)              | Amérique du Sud      | U/M |
| Société (langues)                   | Comm. urb. de Québec | C/C |
| Société (langues)                   | Comm. urb. de Québec | U/C |
| Société (life expectancy)           | Amérique du Sud      | U/M |
| Société (suicide)                   | Québec               | U/M |
| Société (suicide)                   | Québec               | U/M |
| Sports (golf)                       | Calgary              | U/M |
| Sports (Hockey NHL)                 | Amérique du Nord     | C/C |
| Sports<br>(stadiums & franchises)   | Amérique du Nord     | U/C |
| Topographie                         | Trois-Rivières       | C/C |
| Topographie                         | Bridgetown (Barb.)   | C/C |
| Topographie                         | St. Johns (Nfld)     | C/C |
| Topographie                         | Vermont (É.-U.)      | C/C |
| Topographie                         | Vermont (É.-U.)      | C/C |
| Topographie                         | Bangor (Irlande)     | C/C |
| Topographie                         | Berne (Suisse)       | C/C |
| Topographie                         | Chicoutimi-Jonquière | C/C |
| Topographie                         | Victoria (C.-B)      | C/C |
| Topographie (tourism)               | Sainte-Lucie         | C/C |
| Topographie (tourism)               | Sainte-Lucie         | C/C |
| Tourisme                            | Maine                | C/C |
| Tourisme                            | Sainte-Lucie         | C/C |
| Tourisme<br>(trekking guide)        | Népal                | C/C |
| Tourisme et SIG                     | Cape Breton          | C/I |
| Transport (Air Travel)              | Colombie-Britannique | U/M |
| Transport<br>(vehicle and risks)    | Canada               | U/M |
| Transport infrastructure            | Afrique              | U/M |
| Transport<br>(school bus accidents) | Québec               | U/M |
| Ville (city billboard)              | Québec               | U/C |
| Ville (city billboard)              | Québec               | U/M |
| Ville (street atlas)                | Manvers township     | C/I |
| Ville (street atlas)                | Peterborough         | C/I |
| Ville (street map)                  | Moncton              | C/M |
| Voie maritime du Nord               | Québec-Ontario       | C/C |

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## **POLICIES CONCERNING HONOURARY MEMBERSHIP, AWARDS OF DISTINCTION AND INFORMATION DISTRIBUTION TO INDIVIDUALS IN HIGH-PROFILE POSITIONS OF RELEVANCE TO CANADIAN CARTOGRAPHY**

*by/par*

*Peter Keller*

*Outgoing past-president*

### **BACKGROUND INFORMATION**

At the Executive Meeting held in Montreal, January 1992, the CCA Executive established an ad hoc committee to develop policies and procedures for the granting of honorary memberships and awards distinctions by the CCA. This committee was formed in response to unsolicited suggestions for nominations for honorary CCA membership by the general membership late in 1991.

The committee, consisting of *Claudette LeBlanc* (chair), *James Britton* and *Roy Doyon*, submitted a report to the Executive Committee held in Montreal, June 1992. Following executive discussion, the report was revised and drafted into policy format for presentation at the January 1993 Executive Meeting in Ottawa where it was approved.

The initial report has resulted in two separate policy documents entitled "CCA POLICY CONCERNING HONOURARY MEMBERSHIP AND AWARDS OF DISTINCTION" and "CCA POLICY CONCERNING INFORMATION DISTRIBUTION TO INDIVIDUALS IN HIGH-PROFILE POSITIONS OF RELEVANCE TO CANADIAN CARTOGRAPHY".

With respect to the first of the two policy documents, currently there are two honorary members of the CCA: *Bernard Gutsell* and *Lou Sebert* who were instrumental in founding the CCA in 1975. At present, the CCA has no other official mechanism for awarding distinction to the profession or society (with exception of the President's Prizes). The Executive debated the awarding of additional honorary memberships, criteria for such awards, and if other possible methods of award distinction existed.

Following lengthy discussion, there was agreement to hold at two honorary memberships, but to award a limited number of annual *awards of distinction* to recognise individuals who have made or are making exceptional professional contributions to the society, the advancement of cartographic research, or the practice of cartography.

The second policy document deals with an attempt by the CCA to increase its profile by reaching out to inform individuals in positions of influence of the society's existence and activities.

Subsequently, the executive gave unanimous approval to two policy documents to come into effect at the 1993 AGM in Winnipeg. The policy documents appear below. A call for nominations should reach you through *Cartouche*.

### **CCA POLICY CONCERNING HONOURARY MEMBERSHIP AND AWARDS OF DISTINCTION**

Policy to commence June, 1993

#### **RE. HONOURARY MEMBERSHIP**

It shall be policy of the CCA that the honorary membership distinction be limited to two individuals at any given time. When one of the positions becomes vacant, the CCA Executive Committee may fill the position following a request for nominations from the membership at large. The criterion used in the selection of individuals for honorary membership will be dedicated service of distinction to the CCA.

## RE. AWARDS OF DISTINCTION

It shall be policy of the CCA to recognize individuals who have made or are making significant contributions to Cartography or the society by granting them awards of distinction. The awards of distinction will consist of certificates designed specifically for the purpose. A Committee for Awards of Distinction will grant these awards. This committee will operate under the following Terms of Reference:

### TERMS OF REFERENCE FOR COMMITTEE FOR AWARDS OF DISTINCTION

1. A Committee for Awards of Distinction, hereinafter called the Committee, will be selected annually at the first Executive Meeting following the Annual General Meeting. The CCA President, in consultation with the other Executive Committee members, will appoint the Committee. The Committee will consist of two Executive Committee members in good standing and the immediate Past President who will normally serve as Chairperson.
2. The Committee will publish a general call for nominations from the general membership (full members only) in *Cartouche* (the issue immediately following the Annual General Meeting). The deadline for receipt of nominations will be December 31 of that year.
3. Nominations will be sought in three categories:
  - I. Individuals who have or are making exceptional professional contributions to the practise of Cartography;
  - II. Individuals who have or are making exceptional scholarly contributions to Cartography; and
  - III. Individuals who have or are making exceptional contributions to the CCA.
4. The Committee will meet in conjunction with the mid-year Executive Committee meeting (normally held in January) to select the award recipient amongst the nominations received. Up to a maximum of two individuals in each of the three categories identified in (3.) above may be granted awards per year. The awards may be granted posthumously. The Executive shall pass a motion to accept the Committee's selection at the mid-year executive meeting.
5. The Committee chairperson will inform the award recipients shortly thereafter and will invite them or representatives to receive the award at the following Annual General Meeting (AGM) or the associated banquet. In any event, the names of the award winners will be announced at the AGM. The CCA, however, will not reimburse the award winners or their representatives for their expenses in travelling to the AGM to receive the awards unless they qualify for reimbursement under the regulations of the CCA Travel Policy.
6. The names of the award recipients will be published in the first issue of *Cartouche* published after the AGM.

### CCA POLICY CONCERNING INFORMATION DISTRIBUTION TO INDIVIDUALS IN HIGH-PROFILE POSITIONS OF RELEVANCE TO CANADIAN CARTOGRAPHY

Policy to commence June 1993

The CCA should endeavour to inform individuals in high profile positions that have relevance to Canadian cartography (i.e., individuals who hold positions of great influence) of the existence and activities of the CCA. To this end, the following shall be policy:

1. A standing list of high profile positions that have relevance to Canadian Cartography shall be drawn up or reviewed annually by the incoming executive at their first Executive Committee meeting after the Annual General Meeting.
2. The individuals filling the twelve (or thereabouts) most influential positions identified by (1.) above shall be given a free subscription to *Cartouche* providing that these individuals are not members in good standing of the CCA. However, they will not be granted any of the other privileges associated with membership unless they apply for and obtain membership.

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## SYMPOSIUM ON CARTOGRAPHIC DESIGN AND RESEARCH

Ottawa, Ontario  
7 - 8 August 1994

### PRELIMINARY ANNOUNCEMENT and CALL FOR PAPERS

The SYMPOSIUM ON CARTOGRAPHIC DESIGN AND RESEARCH will be a two-day event sponsored by the Canadian Institute of Geomatics and dedicated to re-establishing the importance of cartographic design and research. During the last several years, map design and map design research, in particular, seem to have been relegated to a somewhat neglected status. Here's what some leading cartographers have said recently:

Borden D. Dent, Georgia State University, author of *Cartography: Thematic Map Design*, 3rd edition:

*I tend to agree that design has fallen somewhat into neglect — for reasons I'm not totally certain...*

Jacqueline M. Anderson, Concordia University:

*Today, map design and map design research appear to receive little attention both at conferences and in some of the cartographic journals.*

On the idea of having a map design symposium:

Robert B. McMaster, University of Minnesota: *...a good idea.*

Judy M. Olson, Michigan State University: *Interested, yes.*

Barbara P. Battenfield, SUNY-Buffalo: *...sounds interesting.*

D. R. Fraser Taylor, Carleton University: *...the idea is a good one...*

Michael Wood, Aberdeen University: *...great. Count me in...*

Patricia Gilmartin, University of South Carolina: *...idea sounds great...*

Janet Mersey, Guelph University: *...interested in participating...*

Carolyn C. Weiss, Statistics Canada: *...very interested in participating...*

This SYMPOSIUM, it is hoped, will serve as a vehicle to bring together persons interested in redefining the role and the direction that cartographic design and cartographic design research must take in the age of information, automation, and geographic information systems. The SYMPOSIUM will be scheduled in conjunction with a joint meeting of the Canadian Cartographic Association (CCA) and the North American Cartographic Information Society (NACIS). JOIN US FOR A FULL WEEK OF STIMULATING CARTOGRAPHY !!

### SUGGESTED TOPICAL SUBJECTS FOR PAPERS (not intended to be a comprehensive list)

|                                                                                                                   |                                                         |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <i>perceptual and cognitive studies,</i>                                                                          | <i>color in cartographic design,</i>                    |
| <i>interactive cartography, its unique design considerations,</i>                                                 | <i>animated cartography and 'change' visualization,</i> |
| <i>scientific visualization,</i>                                                                                  | <i>map design and generalization,</i>                   |
| <i>knowledge representation - knowledge formulations,</i>                                                         | <i>automating the cartographic design process,</i>      |
| <i>expert systems for some aspects of map design,</i>                                                             | <i>rule-based (production) systems,</i>                 |
| <i>design capabilities of GIS programs on microcomputers,</i>                                                     | <i>map design in cartographic education,</i>            |
| <i>cartographic design challenges for computer and multi-media, or</i>                                            |                                                         |
| <i>any other topics that are directly related to map design and research in keeping with the symposium theme.</i> |                                                         |

### Application Procedures and Schedule

ABSTRACTS for papers should include a title, names of author and co-authors, address, telephone, FAX, and e-mail address (if available), approximately 300-500 words describing the work and the results, and must be submitted by 1 NOVEMBER 1993. Send four copies to:

Clifford H. Wood    Department of Geography, Memorial University    or  
St. John's, Newfoundland A1B 3X9, CANADA  
tel: (709) 737-8988    FAX: (709) 737-4000  
E-mail: CHWood@kean.ucs.mun.ca

C. Peter Keller  
*Address at right*

Acceptance - Notice of acceptance will be mailed by 15 December 1993. Papers accepted for presentation will be published in a hard-bound volume following the symposium, will include the discussions at the conclusion of each session, and will be included in the registration package. The final paper **MUST** be received by 1 JULY 1994.

A minimum of twenty papers will be accepted for the symposium, all of which will be published. Speakers will receive a discounted registration fee at a minimum.

Questions - Address additional questions concerning the SYMPOSIUM to Professor Clifford H. Wood or Professor C. Peter Keller at the above addresses.

A detailed Symposium Program and Registration package will be distributed early in 1994.

The symposium will precede the joint meeting of The Canadian Cartographic Association (CCA) and the North American Cartographic Information Society (NACIS) currently scheduled for 09 - 13 August 1994 in Ottawa.

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## **FIRST ANNOUNCEMENT!**

### **JOINT ANNUAL MEETING OF THE CANADIAN CARTOGRAPHIC ASSOCIATION AND THE NORTH AMERICAN CARTOGRAPHIC INFORMATION SOCIETY**

**UNIVERSITY OF OTTAWA, AUGUST 9-13, 1994**

For information contact:

David Douglas,  
Department of Geography, University of Ottawa  
Ottawa, Ontario, K1N 6N5  
Tel: (613) 564-4045 Fax: (613) 564-3304  
Email: dhdad@acadvm1.uottawa.ca

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## **FIRST CALL FOR PAPERS**

### **INTERNATIONAL CARTOGRAPHIC ASSOCIATION CONFERENCE ICA - BARCELONA - 1995**

and

### **SUBMISSIONS FOR THE FOUR YEAR REPORT CARTOGRAPHIC ACTIVITIES IN CANADA 1991-1995**

This is a first call for academic papers to be considered for inclusion in Canada's four year report of cartographic activities, 1991-1995, to be published as a special issue of *GEOMATICA*, the journal of the Canadian Institute of Geomatics (CIG). This also is a first call for submission of papers to be presented at the Barcelona meeting. To submit manuscripts or abstracts, or for further information, please contact:

C. Peter Keller      Department of Geography, University of Victoria  
Victoria, BC V8W 3P5 CANADA  
tel: (604) 721-7333      FAX: (604) 721- 6216  
Email: Seamus@UVVM.UVic.ca

## CARTOGRAPHIC SEMIOTICS - ALIVE AND WELL

by/par

Hansgeorg Schlichtmann  
University of Regina

The semiotic study of maps and other cartographic representations started a quarter of a century ago and continues to be of considerable international interest. Unfortunately the scholars involved (many of whom live in Eastern Europe) have had limited opportunity to meet for discussions. Recently J. Pravda (Slovak Academy of Sciences, Bratislava) and A. Wolodtschenko (Department of Cartography, Technical University of Dresden) decided to do something about it. They organized international correspondence seminars under the sponsorship of their respective institutions. The contributions to each seminar were collected in proceedings and these distributed to the participants (and some other interested persons). The participants live as far east as Tbilisi, Georgia and as far west as Regina, Canada (myself). The proceedings are titled (in German and Russian) *Kartosemiotik* /

*Kartosemiotika*. The issues 1-3, with 19 papers, have appeared in 1991-92; number 4, with six contributions, is scheduled to appear in summer 1993. Last May, at the 16th International Cartographic Conference in Cologne, Wolodtschenko and Pravda reported about the series in the poster paper "Cartosemiotics - ideas and inducements" (Proceedings, vol. 2, pp. 1235-1237). While issues 1-4 are in practice internal discussion documents, it is planned to continue *Kartosemiotik* as an officially registered series of occasional papers.

Further, at the 16th International Cartographic Conference, there were four relevant contributions: the poster paper already mentioned, two ordinary papers (by J. Pravda and D. Ucar, respectively), and J. Pravda's section "Map language" in the report of the ICA Working Group to Define the Main Theoretical Issues in Cartography (see *ICA Newsletter*, 20, pp. 14-18 and Proceedings, vol. 1, pp. 17-25).

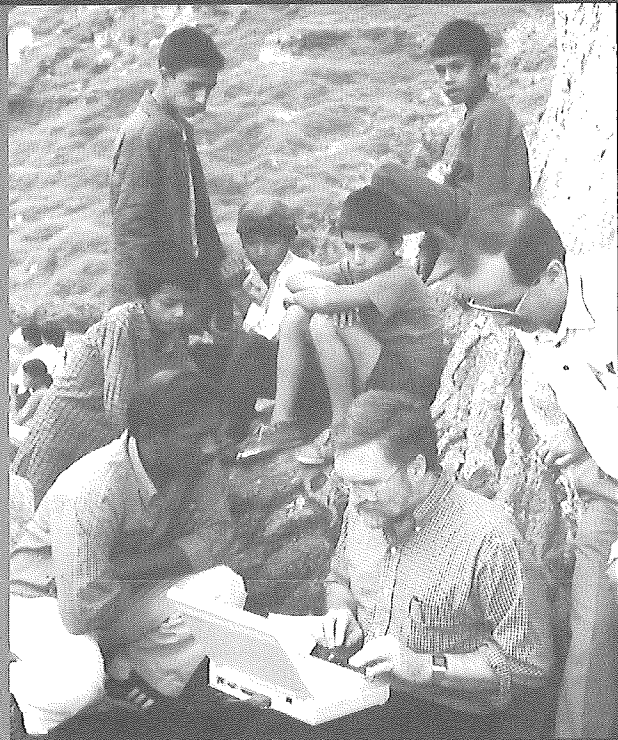
Finally, Garland Publishing Inc. is preparing an Encyclopedia of Semiotics. To this reference work I have contributed the chapter "Cartography".

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## STRESS ENVIRONNEMENTAUX

En 1985, à l'occasion du Centenaire des parcs nationaux du Canada un bilan de l'état de santé de l'environnement a été dressé par les citoyens du pays. Ce bilan a permis de constater que la capacité de renouvellement des ressources était de plus en plus faible.

En vue de faire connaître à la population l'ensemble des contraintes qui affectent les composantes de l'environnement ainsi que les efforts déployés en vue d'assurer la conservation des ressources, il a été convenu de préparer le guide cartographique des stress environnementaux du Québec.

Ce guide a été finalisé en 1992 avec la publication des six dernières cartes. Il est effectivement composé de 18 cartes au 1: 250 000. Au cours de 1986 et 1987, six cartes ont été réalisées correspondant aux régions de Québec, de la Mauricie-Bois-Francs, de Charlevoix, du Bas Saint-Laurent, du Pays de l'érable, et de la Sagamie. En 1989 et 1990 six autres cartes ont été préparées: Abitibi-Témiscamingue, Outaouais, Manicouagan, Gaspésie, Estrie, et Îles-de-la-Madeleine. En 1991 et 1992 les dernières qui ont été complétées sont: Duplessis, Nord-du-Québec, Richelieu-Rive-Sud, Lanaudière, Montréal, et Laurentides.

Les cartes contiennent les stress majeurs qui affectent les ressources de la région correspondant aux effets des activités économiques qui portent préjudice aux composantes du milieu naturel et aux populations humaines: coupe à blanc des forêts, pollution des rivières et des lacs par les eaux usées industrielles et domestiques et les pluies acides, flottage du bois sur les rivières, rejet de déchets toxiques ou dangereux à proximité des établissements humains, modifications des débits des cours d'eau avec la construction de barrages hydroélectriques, passage des lignes de transport d'énergie, &c.; elles contiennent également les espaces et les sites faisant présentement l'objet d'une certaine protection et représentent les sites à sauvegarder en vue de protéger les habitats essentiels de certaines espèces animales et le milieu de vie des habitants.

Les données représentées proviennent des rapports gouvernementaux et des propositions d'aménagement formulées par les municipalités régionales de comté, les municipalités, les groupes ou associations de citoyens et les organismes de conservation.

## Références:

Regroupement pour un Québec vert (R.Q.V.)  
155, boulevard Charest Est  
Québec, QC G1K 3G6 (418) 647-5862

## Co-producteurs et Distributeurs:

Les Laboratoires de géographie  
Le Groupe de recherche et d'intervention régionale (GR3IR)

Université du Québec à Chicoutimi  
555, boulevard de l'Université, Chicoutimi, QC  
(418) 555-5018 / 545-5371

## Coûts D'acquisition:

5\$ La Carte, 90,00\$ Le jeu (18 cartes); taxes non comprises.

## Financement:

La réalisation de ces cartes a été rendue possible grâce au Fonds des services aux collectivités du Ministère de l'Enseignement supérieur et de la Science.

## Supervision:

Jean Désy et Jules Dufour, géographes

## Coordination:

Carl Brisson

## Recherche et Cartographie:

Carl Brisson, Steeve Lemyre et Alain Cimon

## Conseils graphiques:

Majella-J. Gauthier, géographe et  
Claude Chamberland, technicien en cartographie.

## Editing Early and Historical Atlases

### the Twenty-Ninth Annual Conference on Editorial Problems.

University of Toronto, November 5-6, 1993.  
For more information, contact: *Joan Winearls*,  
U.of T.Library, Toronto, ON, M5S 1A5  
Tel: (416) 978-1958 FAX(416) 978-7653

## Corporate News

### CORPORATE MEMBERS

|                                         |                 |
|-----------------------------------------|-----------------|
| Bell Canada<br>(now Stentor Resources), | Toronto, ON     |
| DATAMAP                                 | Scarborough, ON |
| J. M. Ellis,                            | Metcalfe, ON    |
| Idrisi Project,                         | Worcester, MA   |
| Intergraph Canada,                      | Calgary, AB     |
| Intergraph Corp.,                       | Huntsville, AL  |
| Map Art,                                | Etobicoke, ON   |
| National Atlas Info. Services,          | Ottawa, ON      |
| PAMAP (now EPS Ltd.),                   | Victoria, BC    |
| Ph.D. Associates Inc                    | North York, ON  |
| Projections Mapping Group,              | Calgary, AB     |
| John Wiley and Sons,                    | Toronto, ON     |

*Geo/S&L LSC 241 GDE 90*

**PAMAP Technologies, GDE Systems and SUN Microsystems form partnership to provide solution for US Forest Service \$700 Million procurement.**

PAMAP Technologies Corporation is pleased to announce that they have formed a mutually exclusive partnership with GDE Systems Inc., who, together with Sun Microsystems, are pursuing the US Forest Service, Project 615 procurement (FEDCAC.107). The budget for the procurement is estimated to be in excess of 700 million \$US

PAMAP Technologies is a leading developer of Geographic Information System (GIS) software solutions for the natural resource market, with particular focus and experience in the forestry sector.

GDE Systems, Inc., of San Diego, California, (formerly the Electronics division of General Dynamics and now a member of the Carlyle Group of Companies), is a 300 million \$US high-technology company with an extensive and successful history as a prime contractor on large US federal procurements in both defense and civil sectors.

Sun Microsystems of Mountainview, California is a five billion \$US computer company and the world's leading vendor of workstation technology. Sun workstations dominate the GIS market worldwide.

The US Forest Service Project 615 procurement was issued to acquire state-of-the-art technology – primarily office automation and GIS software and hardware – for implementation throughout the US Forest Service. The budget allocation approved by the US Congress for this project is in excess of 700 \$US

million over the next eight years. With approximately 35,000 employees in 900 offices, the US Forest Service is responsible for managing 191 million acres of National Forest System lands. Project 615 represents the largest single procurement of GIS technology in history.

The selection of PAMAP as a mutually exclusive partner on a project of this size and profile, significantly enhances PAMAP's visibility and prestige in the US and world markets.

### **PAMAP to become EPS, announces version 4.0 release**

In more recent news, PAMAP Technologies Corporation has recently merged with Digital Resources in Nanaimo forming a new company, Essential Planning Systems Ltd. (EPS). With offices in Victoria, Vancouver, Nanaimo, and Washington, EPS will have three main product lines PAMAP, Terrasoft, and EPS Prime Meridian.

EPS also announced that PAMAP version 4.0 running under Microsoft Windows 3.1 is in the quality assurance stage. Release notes on v4.0 are available from Teresa Moir at (604) 652-8895.

### **Department of National Defence Brings to Canada State of the Art Digital Mapping System from Intergraph**

Intergraph Canada Ltd. has been selected by the Canadian Department of National Defence to provide the Canadian Forces with its first fully integrated digital map production system, the Canadian Digital Production System (CA DPS), the first DIGEST compliant implementation in the world. The system's value is estimated at 8.7 million \$CDN and represents an important high tech initiative and technology transfer which will benefit governmental users of geographical information as well the Canadian digital mapping community as a whole.

CA DPS will provide state of the art mapping and charting support to Canadian Forces worldwide. By converting existing map and chart separates into digital form and storing them in a database, data can be easily, quickly and accurately accessed and updated for a variety of military, industrial and other purposes. In addition, the role of Canadian Forces in peacekeeping and other UN sanctioned operations requires that maps and charts be readily available to support rapid troop deployment, logistics and other activities.

A second key benefit of CA DPS is that it provides the Department of National Defence (DND) with a production system compatible with other geographical information systems (GIS) because CA DPS will import digital data from the Department of Energy, Mines and Resources, the Canadian Hydrographic Service and NATO allies.

The third benefit of CA DPS is the role it will play in the further development of Canada's world class expertise in mapping and charting technology. In meeting the military's need for accurate, timely and secure data, CA DPS will enable industrial, scientific and other users to benefit from the advances being made by Intergraph in GIS as well as other computer-aided design, engineering and publishing requirements.

The system is built around DIGEST, the new international data interchange standard for digital geographic information. "Digital Geographic Information Exchange Standard is the first internationally accepted standard for the exchange of digital geographic information" said David McKellar of the Directorate of Geographic Operations at DND. "We are excited about the opportunity Canada has to implement the first end-to-end production system based on DIGEST".

The DIGEST family of standards was developed and approved by the multi-national Digital Geographic Information Working Group. These standards ensure interoperability and increase productivity by facilitating the exchange of digital geographic information amongst countries.

The first stage of the CA DPS implementation includes delivery of 12 Intergraph workstations as well as precision scanners and software to begin building the CA DPS database. In late 1993 this will be followed by the delivery of additional computing resources, specialized software, and customized training courses.

Intergraph Canada's Federal Application Services Division plays a central role in the project. "Canada has always been a major player in the mapping industry and this project will serve to further that expertise" said Mark Doherty, manager of the division. "We consider it an exciting and challenging opportunity to be involved in the development of a leading edge digital mapping system. Intergraph anticipates that this will promote further software development and systems engineering projects for Canada."

CA DPS will be the first project initiative of Intergraph Canada's new Software Development Centre (SDC), a part of the Federal Application Services Division. The SDC is the first research and development installation in Canada for Intergraph Corp. and its focus, GIS products, will have a worldwide product mandate. This represents a significant commitment on Intergraph's part as well as an opportunity to further develop Canadian expertise in digital mapping.

CA DPS will be based on Intergraph's suite of mapping products which include MGE, Intergraph's Modular GIS Environment, a set of software tools used to store, analyze, interpret, and display geographic information.

### **Ph.D. Associates joins the CCA.**

We are pleased to welcome our newest corporate member, Ph.D. associates. With offices in Toronto, Ontario, Calgary, Alberta, and Princeton, New Jersey, Ph.D. has been specializing in scientific applications of computing for software design, instrument control and data analysis since 1974. In programs with the Canadian Atmospheric Environment Service (AES) of Environment Canada, the company has prepared and installed micro-computer controlled radiometers and data acquisition systems in Canadian and US field sites and aboard a Canadian ice breaker.

### **Ph.D. Land and Oceanographic Products**

Ph.D. provides operational satellite data analysis and mapping of imagery from US Navy satellite Defense Meteorological Satellite program (DMSP) Special Sensor Microwave/Imager (SSM/I) and uses their Geographic Analysis and Display System (GADS) in providing near-realtime monitoring of parameters for land and ocean applications. Ph.D. also provides oceanographic weather map products and sea ice map products to users in a variety of formats in either an operational mode or using historical archived information.

### **Digital Chart of the World data**

One of the company's newest products is data from the Digital Chart of the world (DCW) global dataset packaged in five degree tiles in ASCII format, also available with conversion software to a number of commonly used geomatics systems.

*See page 15 for more information on DCW data. -Ed.*

