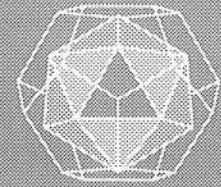
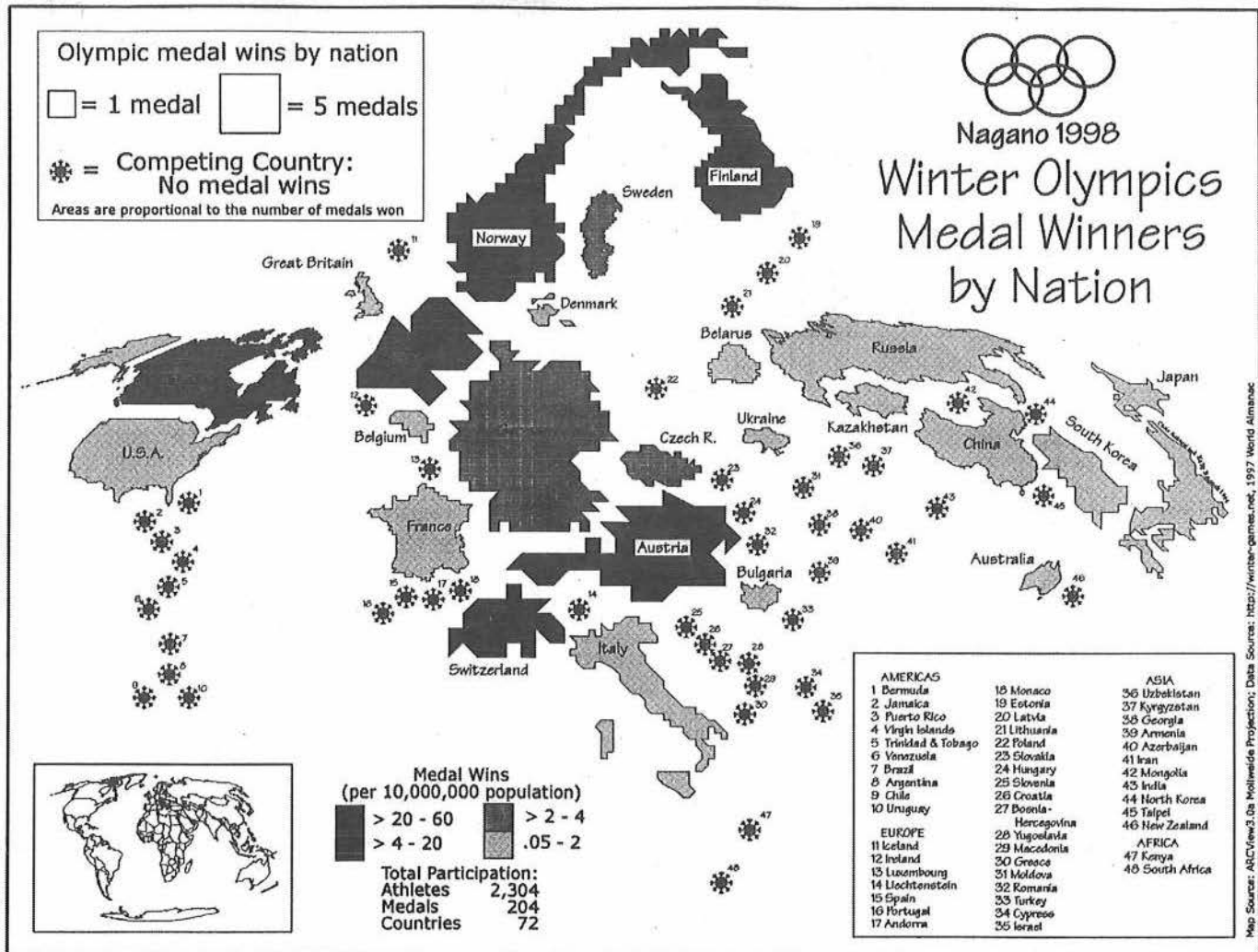


Cartouche



Newsletter of the Canadian Cartographic Association
 Bulletin de l'Association canadienne de cartographie

Number 31, Autumn, 1998
 Numéro 31, automne, 1998



This map, entitled *Nagano 1998: Winter Olympics Winners by Nation*, was the other winner of the President's Prize Competition (Monochrome Map - undergraduate) at this year's AGM in London, Ontario. The map was drawn by Chris Ashurst and Kelly Babcock, students at the University of Victoria. The winners of all the President's Prize categories can be found in *Cartouche* #30 on page 8.

Cartouche is published quarterly by the Canadian Cartographic Association. Members are welcome to submit articles for publication. Articles and notices submitted for publication are subject to editorial approval. Please address your submissions to the editor. It is the policy of the editor to provide dual language copy for editorial content and journal mechanics. All other articles will appear in the language of submission. While every effort is made to ensure accuracy of content, the editor cannot be responsible for errors in compilation, or loss of any item submitted. Opinions expressed in the editorials, submitted articles and letters are not necessarily those of the Canadian Cartographic Association. The Canadian Cartographic Association gratefully acknowledges the financial support given by the Social Sciences and Humanities Research Council of Canada.

Cartouche est publié trimestriellement par l'Association canadienne de cartographie. N'hésitez pas à soumettre des articles que vous désirez publier dans le bulletin. Les articles et annonces soumis pour parution sont sujets à l'approbation de la rédaction. Veuillez les adresser à l'éditeur. Selon la politique en vigueur, l'éditeur publié, en français et en anglais, l'éditorial ainsi que la description du processus de publication du bulletin. Les autres articles paraîtront dans la langue dans laquelle ils ont été écrits. Bien que beaucoup d'efforts soient déployés en vue d'éviter de tels problèmes, l'éditeur n'est pas tenu responsable des erreurs de compilation ou de la perte d'articles que leur seront soumis. Les opinions exprimées dans le cadre des editoriaux, des articles et des lettres publiées dans le bulletin ne reflètent pas nécessairement celles de l'Association canadienne de cartographie. L'Association canadienne de cartographie remercie vivement le Conseil de recherches en sciences humaines du Canada pour son apport financier.

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La date limite pour la prochaine publication est:
15 janvier 1999



**Inside this issue /
 Sommaire....**

Messages / messages

President's Message /
 mot du Président 3
 Vice-President's Message /
 mot du vice-Président 4
 Past-President's Message /
 mot du Président-sortant 5

Interest Groups / Groupes d'intérêt

Analytical Cartography & GIS /
 Cartographie analytique et SIG 6

Features / Les articles

Geomatics Merger? 7
 GIS: Mapping the Big Picture 8
 Canadiana 9
 Welcome New Members 10

Other / autre

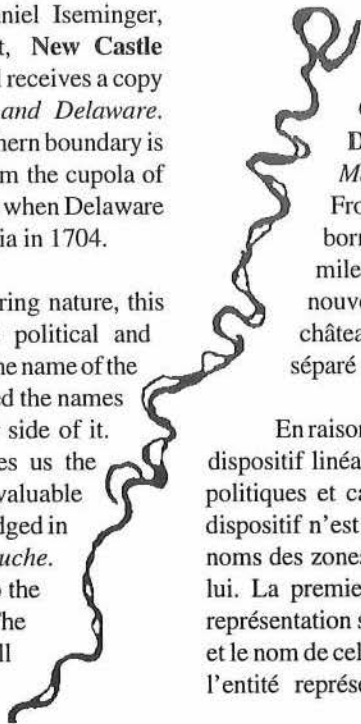
Maps on CD-ROM 3
 Symposium Proceedings 6
 MAPublisher 3.0 8
 WebCartography 8
 Calendar / calendrier 10

ISSN 1183-2045

Rorschack's Map

Congratulations to Daniel Iseminger, winner of last issue's blot, **New Castle County, Delaware**. Daniel receives a copy of *Frommer's Maryland and Delaware*. The arc delineating the northern boundary is a 12-mile radius drawn from the cupola of the New Castle court house when Delaware separated from Pennsylvania in 1704.

Because of its meandering nature, this linear feature has caused political and cartographic nightmares. The name of the feature is not enough. I need the names of the land areas on either side of it. The first person who gives us the correct answer will win a valuable prize and will be acknowledged in the next issue of *Cartouche*. Please send your answer to the editor (address above). The identity of this blot will be revealed in the next issue.



Carte énigmatique

Félicitations à Daniel Iseminger, qui a su trouver dans notre dernière énigme **Comté de New Castle, Delaware**. Il se mérite le livre *Maryland and Delaware* de Frommer. L'arc traçant la borne nordique est un rayon 12-mile tiré de la coupole de la nouvelle maison de cour de château quand le Delaware a séparé de Pennsylvanie en 1704.

En raison de sa nature de méandre, ce dispositif linéaire a causé des cauchemars politiques et cartographiques. Le nom du dispositif n'est pas assez. J'ai besoin des noms des zones de terre de chaque côté de lui. La première personne à identifier la représentation se méritera un prix de valeur et le nom de celle-ci ainsi que la réponse sur l'entité représentée par l'énigme seront

connus dans le prochain numéro de la revue *Cartouche* à moins que personne n'ait trouvé la solution.

Faites parvenir votre solution le plus tôt possible à l'adresse de l'éditeur mentionnée à la page 2.

President's Message

Roger Wheate
University of Northern British Columbia

I look forward to serving the CCA as president for the next year and interacting with past-president Brian Klinkenberg, vice-president Michel Fournier and the entire executive and membership. It should be an exciting year culminating in the annual meeting in Ottawa to be held in conjunction with the International Cartographic Association, coming to Canada in August 1999. This will be a great opportunity to see more than the usual group of CCA members who regularly attend our annual meeting; in particular we look forward to seeing more members and old acquaintances from overseas and south of the border.

ICA / CCA Meeting 1999

Members will find the meeting fees to be somewhat higher than at a 'normal' annual meeting, but considerably less than if they were paying ICA standard meeting fees. While we will leave the customary cosy confines of a Canadian campus to the more costly conclaves of a convention centre, in return the 24 conference themes will cover all possible areas of cartography. For updated details, check the ICA conference web site at www.ccrs.nrcan.gc.ca/ica1999/ and also the CCA web site.

Certification and Unification?

Other issues that will arise during the year include the perceived need in some quarters for certification in GIS, and possible unification or greater integration of the various groups and societies involved in geomatics. More details on these were in Brian Klinkenberg's last "president's message" in *Cartouche* 29. One group we should be better connected with is the Association of Map Librarians and Archivists, (ACMLA) with whom we met jointly at our annual meetings in May; thanks again to the

organisers at the University of Western Ontario for a great meeting. Although it took us 25 years to do this, we will be repeating next year, as the ACMLA will also be meeting at the ICA conference. Hopefully our 'joint' conferences will become a regular event.



New CCA President Roger Wheate

The President's Prize

One of the President's prerogatives is to determine the structure of the "President's Prize" in his or her year of presidency. Usually, we leave it unchanged, but I would like to add a new prize in memory of two recent CCA Presidents who both passed away in recent years, while only in their 40s. Malcolm Brown and Marcia Faurer invited me to Winnipeg in May 91 to speak at the 'annual GIS symposium' they had organised. Together they brought a huge amount of enthusiasm into the mapping community, while as cartographers both had 'pet peeves' about

the quality of map output in the GIS industry. By the next symposium in 1992, Malcolm had died in a traffic accident and three years later, Marcia succumbed to cancer.

The new President's Prize category will be for the 'Best Map Output from GIS data' and unlike the other categories will be open to ALL CCA members (not just students). However, appropriate maps entered in the regular student categories will also be eligible in this competition. The judging emphasis will be on quality of output and evidence of 'GIS analysis or data processing'. Watch for further details in the next issue of *Cartouche*.

Finally please remember that this is 'your' newsletter; if you have any thoughts on your certification in GIS or any cartographic issue, please do not hesitate to drop a note to the editor, however informal, or even to contribute your own 'Rorshack'. 🌐

National Geographic Maps on CD-ROM

Last year for the first time, the National Geographic Society released their entire collection of magazines, from 1888 to 1996, on 30 CD-ROMs. An impressive collection by any right, but for the map aficionado it was a bit of a disappointment as it did not contain any of the foldout maps that accompanied many of the magazines.

This year the Society has put the smiles back on the faces of maplovers with the release of every foldout map produced by the Society on CD-ROM. The collection is available from the National Geographic Society for the price of \$118.50 Cdn. It should be available in stores soon.

Construire pour l'an 2000

Michel Fournier
Cartologique

Nous pouvons consulter des cartes tous les jours, soit dans des livres, des revues, des journaux, ou encore à la télévision. Les nouvelles technologies parmi lesquelles figure Internet, ajoute une nouvelle dimension à la cartographie cependant, cela nous ramène, pour certains aspects dont les règles sémiologiques et la définition d'image, à la fois plusieurs années en arrière et à la fois nous projette vers le futur. Nous ne pourrions certes pas, ni ne désirons arrêter ou ralentir l'évolution informatique de la cartographie. Nous devons toutefois être vigilant afin de maintenir un haut standard de qualité qui doit prendre racine dans un présent que nous devons consolider, malgré un chaos relatif quant à la réalité et la survie du cartographe.

Les débouchés pour les cartographes, sur le marché du travail, s'amenuisent ou demeurent relativement faibles malgré les perspectives plus prometteuses que représente la géomatique. En dehors du cadre universitaire et des besoins ponctuels spécifiques des entreprises privés, il se publie annuellement plusieurs milliers de cartes à travers le pays mais cela n'augmente pas pour autant les possibilités d'emploi pour les cartographes car, ces cartes, pour une grande partie, sont réalisées par des non-cartographes qui ne sont pas toujours aguerris par le langage des cartes. La création de cartes qui ne reflètent pas le contenu d'un texte d'accompagnement ou encore qui deviennent illisibles suite à un traitement inadéquat de l'information résultent plus souvent qu'autrement en une banalisation de celles-ci. Ça c'est grave et dangereux car, la banalisation montre la porte de la disparition des cartographes et ouvre celle des cartes pré-fabriquées, bonnes pour tous usages et de qualité passable que les lecteurs que ne consultent pas ou peu.

Que pouvons-nous faire pour pallier à cette situation? Je vous propose, à vous fidèles lecteurs et membres de l'association,

la possibilité d'apporter votre contribution, aussi minime soit-elle à une vaste étude qui nous permettra d'en savoir plus sur l'origine de ce qui se publie et de ceux qui sont derrière. À mon sens, il est plus que temps de traquer la cartographie jusque dans ses moindres retranchements afin de se questionner sur l'usage que l'on en fait et où l'on veut se rendre. Qui sont ceux qui produisent toutes les cartes qu'arborescent les multiples dépliants publicitaires, les guides touristiques, les cartes d'accompagnement d'article de journaux, etc. Sont-ils géographes, cartographes, graphistes, infographistes, ou ...? Si l'on veut mieux contrôler notre destin, il faut bien connaître notre environnement tant au niveau de la production que des producteurs pour nous permettre de reprendre la place que nous devrions normalement occuper dans la société. Former des cartographes c'est une bonne chose mais encore faut-il qu'il y ait une demande.

L'étude se fera par étapes dont la première bien sûr, consistera à inventorier un maximum de données sur les producteurs de cartes et éventuellement sur une évaluation de leur travail puis, à la lumière des résultats obtenus, il y aura une synthèse des informations colligées et publication de ceux-ci dans Cartouche. De là, nous ajusterons notre tir afin de briser un certain nombre de préjugés qui ne sont pas nécessairement favorables à notre domaine et nous pourrions établir une stratégie de sensibilisation qui pourra notamment passer par notre site Internet et divers outils que nous développerons pour augmenter notre visibilité, rétablir notre rôle dans la société et par conséquent notre volume de production.

Afin de mener à bien cette tâche, je sollicite votre collaboration, peu importe où vous habitez au Canada, pour entrer en contact avec les rédacteurs en chef des journaux,

des revues, des guides touristiques, etc,... de votre région et de leur poser les questions suivantes:

- Identification de la publication
- Qui est responsable de la cartographie, quelle est sa profession?
 - cartographe infographiste
 - géographe autre (spécifier)
- Quelle est l'importance des cartes pour vous dans votre publication?
- Quelle est la profession de la personne qui réalise les cartes?
 - cartographe infographiste
 - géographe autre (spécifier)
- Quel est le délai moyen de réalisation des cartes?
 - 1 heure 2-4 heures 1 jour
 - plus d'un jour (spécifier)
- Vous arrive-t-il de consulter un cartographe?
 - oui (spécifier) non (spécifier)
- Que savez-vous sur le travail que peut faire un cartographe?
- Quels sont vos besoins en matière de cartographie?
- Utiliser-vous les services d'agence qui ont des banques de cartes?
- Si oui, laquelle (ou lesquelles)?
- Si vous aviez connaissance qu'il y a un cartographe à proximité, lui demanderiez-vous sa collaboration?
- S'il y a lieu, pour quelle(s) raison(s) rejetez-vous la contribution du cartographe?

Votre court commentaire sur une carte ou une série de cartes produite(s) dans le médium relevé sera apprécié.

Vous pouvez me transmettre vos informations par courrier électronique (acsg_mtl@mblink.net), par télécopieur: (514) 522-6712 ou par courrier 1853 boulevard Pie-IX, Montréal, H1V 2C7. Je vous invite également à me faire parvenir des cartes qui ne respectent pas les règles de base

suite page 5

What Role Cartographers?

Brian Klinkenberg
University of British Columbia

What role do cartographers play in society? What roles could they play? It is my feeling that cartographers could and should play a far greater role in our society than they currently do. Our role is one that is already indispensable—without maps who knows where we would be! Maps were one of the first formal abstract representations of our world, and they have served ever since as powerful icons of knowledge, imagination and power. Although cartographers have played important roles throughout history, I think many of us have become complacent in our jobs, or at least reticent to speak loudly of our profession. We could be doing much more, becoming less reactive and more proactive in our cartographic lives.

I am not talking about the need to market our skills or cartographic enterprises. Customers and professional recognition will come if we demonstrate the benefits that maps can bring to society. Consider how many of today's 'hot topics' are spatial in nature—environmental issues, the delivery of health care services, social polarization, public transportation, and crime, to name but a few. Using maps to illustrate the spatial nature of the problem would elevate any discussion on any of those topics clearly. For example, is crime decreasing equally across a city, or are there areas where the trend is significantly different? Where are the hot housing markets, and how are prices in those areas changing relative to the rest of the market? Showing people where events are happening, and how the situation is changing over time, may help bring the facts down to earth. Maps can help bring an enhanced understanding to the patterns and processes in people's lives.

There are many ways of bringing maps into the public realm. For example, ask your local newspaper if they would consider including a special social / environmental map once a month. Many newspapers already

have an environmental map on Saturdays in which major events such as earthquakes, floods, and insect outbreaks are highlighted on a world map. Why not suggest they include an equivalent product for the local area, one that highlights a specific topic on each map. You could ask local environmental, social or neighbourhood groups for assistance in preparing the map. They could supply the data and background materials, and you could prepare the map. Once the ideas start rolling I am certain you will find no end of subjects offered to you. For example, in the past two weeks maps have been featured extensively in two major (full page) articles in our local newspaper, the Vancouver Sun—one on the possible futures for the state of the environment of the Greater Vancouver Regional District (GVRD), and the other on natural hazards in the GVRD.

Another option may be to establish a once-a-month 'meet your local cartographer' perhaps in your local library by setting up a display or, in today's environment, establishing a virtual presence on the web. Through the 'storefront' you could offer advice to people, illustrating how geography, and especially maps, might be useful tools in exploring solutions to problems they have, or illustrating how maps helped solve problems and spur exploration in the past. Mark Mommonier, for example, has published several books which contain numerous examples of maps being used in innovative ways, and you may find that your map archive also contains relevant examples. For those working within an academic environment, a special Co-op position could be established for just such a purpose. It may be possible to contact local software and hardware firms and local suppliers of spatial data with requests for donations, recognizing that those donations would be highlighted in the storefront operation.

Approaching your local television station is another possibility. Many stations have local pledge drives, or participate in national ones. Imagine the benefit that would derive, both to yourself and the station and/or charity, if, as the pledges were called in, a map was displayed showing the locations of those making donations. Areas with large numbers of people making donations would stand out. That could serve to attract even more donations from that area ("since all of our neighbours are making a donation, why don't we"), and get more people from other regions to call in ("we do not want our neighbourhood to be seen as a less-caring neighbourhood"). It seems to me that using maps in this situation would be a win-win situation for all involved. And, once you have established a relation with the station, they may seek your expertise in other situations.

If cartographers develop a reputation for being socially-responsible professionals, it can only serve our profession well. Given the many avenues open for us to demonstrate such a progressive attitude, we should do all we can to foster it. I look forward to seeing social / environmental maps becoming an everyday feature in our lives! 🌐

de la page 4

de la cartographie (indiquer la source) en tout ou en partie, elles me seront utiles lors de prochains ateliers de déconstruction/construction.

Je vous remercie, tous, pour votre collaboration. Votre dynamisme sera garant des résultats que nous publierons et des moyens que l'association se donnera pour permettre à ses membres d'obtenir plus de visibilité et surtout un avenir à l'aube de l'an 2000. 🌐

2001: A Societal GIS Odyssey

Joe Piwowar
University of Waterloo

I can remember when I first got to use an IBM *Selectric* Typewriter. I was in heaven! I could make my documents look just like those the professional typesetters produced by using different fonts of different sizes. Heck - I could even type in *italics*! All this was accomplished through the magic of pulling out a little ball that held the impressions of all the characters in a given font and replacing it with another type-ball with a new font face. Ah, yes . . . the *Selectric* reigned supreme! However, where did they all go?

Some prognosticators believe that GIS will have the same fate. Not that GIS will disappear (after all typing is still here . . . for a while anyway!), but that it will become so ingrained and pervasive in our society that we will no longer think of overlays and buffers, or need training in spatial modelling to make effective use of our mapped information. "Societal GIS," or GIS for the masses, is just around the corner.

Perhaps the earliest example of Societal GIS is already here in the form of the interactive maps you can retrieve from the Web. You can ask MapQuest (www.mapquest.com) to give you directions from one street address to another without having any knowledge of street network files, route-finding commands, and varying network impedances. This is but a simplified example. Virtually everything we do is inherently spatial and it is this locational component that will be the key to combining data from many sources. A real-estate sales agent will soon be able to call up a property's registered survey, show a photograph of the property (perhaps even take a virtual tour), find the nearest school or school bus route, show the city's official plan zoning for the neighbourhood, find all properties that meet a purchaser's price and design criteria, and advise all affected utilities if a change of ownership occurs. This will not require any

more knowledge and training on the real estate agent's part than learning how to use a modern word processing program (hopefully even less!). Societal GIS will no longer be a tool for the mapping professional; it will be a product or a service that anyone can use.

The lure of Societal GIS will be its accessibility and availability. You will just pay for the service(s) used. A present-day analogy could be the use of cell-phones: many companies will give you a free phone - you just have to pay for the network charges.

The most advanced Societal GIS available today is currently under development in the State of Qatar (see www.gisqatar.org.qa). Suffering from a large and inefficient bureaucracy resulting from rapid and uncoordinated growth in the 70's the government decided to take the bull by the horns and develop a comprehensive, fully integrated, nationwide GIS. Today, sixteen government agencies are using a fully integrated GIS in their day-to-day activities. They share common data dictionaries and geodetic references, and are linked together through a high-speed fibre-optic network. Users can interact with the system either in English or Arabic. The goal of the Qatar Societal GIS project is to disseminate government information to any agency or individual who needs it, in every corner of the country.

Should students of GIS quit their studies in the despair of knowing that their skills will no longer be needed? I think not! After all, it still takes many programmers at Microsoft to make my text appear in *italics*, when I ask it to. It will still take a lot of trained spatial analysts to build Societal GIS's and keep them running. In fact skilled GIS professionals will be in more demand, not less. As the title of this column suggests, the future - and Societal GIS - is closer than you think! 🌐

The International Symposium for Spatial Data Handling, the primary international conference for Geographic Information Sciences, is held every second year in different parts of the world. This year (July 12-15, 1998), it was held in Vancouver. The Proceedings are now available at a price of Can\$70.- for individuals and Can\$150.- for Libraries. With packing and shipping, this comes to:

Canada:

Can\$ 77 (Can\$157 for Libraries)

USA:

US\$ 60 (US\$117 for Libraries)

Overseas:

Can\$85 or US\$65 (Can\$165 or

US\$120 for Libraries).

Full title:

Poiker, Thomas K. and Nicholas Chrisman (eds): *Proceedings, 8th International Symposium on Spatial Data Handling*. International Geographical Union, Geographic Information Science Study Group, 1998. 767 pp.

Copies of the proceedings can be obtained from: GIS Lab, Department of Geography, Simon Fraser University, Burnaby, B.C., Canada V5A 1S6. Telephone 1-(604) 291-4515 or 1-(604) 268-6604 Fax 1-(604) 291-5841 E-mail sdh98@sfu.ca

There is no ISBN number.

Note from Roger Wheate,
President, CCA:

This was an excellent conference and from my point of view, had some critical contributions in contemporary areas such as interactive mapping and digital elevation modelling.

Geomatics Merger?

David Broscoe
Algonquin College

A meeting proposing one organization to represent the Geomatics industry in Canada was held in Ottawa on June 12, 1998. I attended as a CCA representative. This meeting was sponsored by three organizations: Geomatics Industry Association of Canada (GIAS); Canadian Council of Land Surveyors (CCLS); Canadian Institute of Geomatics (CIG).

The two major agenda items were:

1. A proposed Geomatics industry sector study, to be undertaken by Human Resources Development Canada (HRDC) in conjunction with a Geomatics Industry Steering Committee
2. The proposed merger of Geomatics-related organization into one national organization, sponsored but not limited to the three organizations above.

Item one began with a presentation by a representative of HRDC, outlining the sector study proposal. There was general support for the proposed study, qualified by such questions as:

1. How much will it cost? (up to \$600,000, split 50/50 by government and industry. Most of the cost would be in-kind contributions such as time and travel, but 5% of the total must be hard-in-kind, in other words actual dollars, at about \$30,000)
2. Who will pay? (CIG has agreed to support the HRDC study, with not very specific backup from GIAC)
3. What's this going to do that previous studies didn't do and which are now out of date?
4. How long will the study take and will it be out of date by the time it is finished?

A resolution was put forward that such a study would be useful. The task force formed for item two below would either assemble a steering committee to work with HRDC or act as the steering committee for the sector study as well.

Item two began with a presentation entitled *An Evolution toward the Millennium:*

Building a New Association to Serve the Canadian Geomatics Sector, presented jointly by Doug Simmons (CCLS), Ed Kennedy (GIAC) and David McKellar (CIG). This concept was outlined in a previous email from the CIG. I have printed copies of the overheads presented at the meeting that I could forward to interested individuals. The proposed merger is sponsored by the three organizations CIG, GIAC and CCLS but is not necessarily limited to them. The proposal is still very vague, and a task force headed by Dr. John McLaughlin of the University of New Brunswick has been struck to flesh it out, after consultations with the stakeholders. I suggested that a list of organizations and individuals should be drawn up, circulated and amended to ensure that all interested parties are consulted.

Interest was expressed in this proposal, together with some skepticism and anxiety. The driving forces here seem to be economic, in that the Geomatics Industry in Canada is small and fragmented and is perceived to need a more unified voice to compete, especially internationally. A number of people mentioned that although Canada has been an innovator in Mapping and GIS Technologies, the infighting between organizations and levels of Government has prevented Canada from becoming a major player internationally. In addition, individuals are feeling that the combined fees for multiple organizations and multiple conferences are too high, consequently the membership numbers in individual organizations are suffering. It was suggested that a unified organization would actually benefit some of the sub-groups where numbers of practitioners are small.

On the other hand reservations were expressed about this same issue: a merger would mean a loss of identity for smaller organizations. Practical questions here in-

cluded the structure of conferences and the number and scope of publications supported by a merged organization. There was a concern from academics about the absence of R&D in the proposed mandate. To what extent would this organization be industry-driven? To what extent would it be an organization of academics? Is there compatibility between the various factions within the Geomatics sector?

Also unclear was the manner in which existing Memoranda of Understanding (MOU) would function in an amalgamated organization. For example, the CIG already is an umbrella organization with a MOU with the CCA. Would that arrangement continue or would the CCA amalgamate and lose its individual identity? What's in it for us either way? At this point there are no answers to these questions.

The final issue was certification. There was plenty of debate here, mostly subliminal, surfacing as part of the agenda items. The pro-certification side was represented(?) by Hugh O'Donnell of the AOLS, the anti-certification side represented most strongly by Fraser Taylor wearing his academic hat. It seems likely that in a unified Geomatics organization, with a large representation of Land Surveyors and Professional Engineers, and an industry focus on the export market, the pressure for some type of certification will intensify. As a member of the CCA and as an academic in GIS, I see certification as a major issue.

In the end a task force was assembled to flesh out the details of the proposal, which are to be presented back to the various stakeholders. That's where it stood at the end of the meeting and I have heard nothing since. The task force is to report back by mid-October. The CCA should be consulted as part of the process. As one individual said, the devil is in the details, and those details should emerge. ☉

GIS: Mapping the Big Picture

Media and Public Relations,
Simon Fraser University

Geographic Information Systems, the electronic storage, analysis and mapping of statistical and geographic data, is one of the modern tools available to every kind of planner, manager and consultant searching for the right answer to all kinds of spatial questions.

Many of these professionals are already using the GIS software, but what they are looking for, says Tom Poiker, Simon Fraser University geography professor, is the opportunity to widen their skills and knowledge by studying the theoretical and technical fundamentals of GIS. Poiker, one of the founders of geographic information systems, has been teaching GIS courses since 1969. He has recently developed North America's first interactive distance learning certificate in geographic information systems.

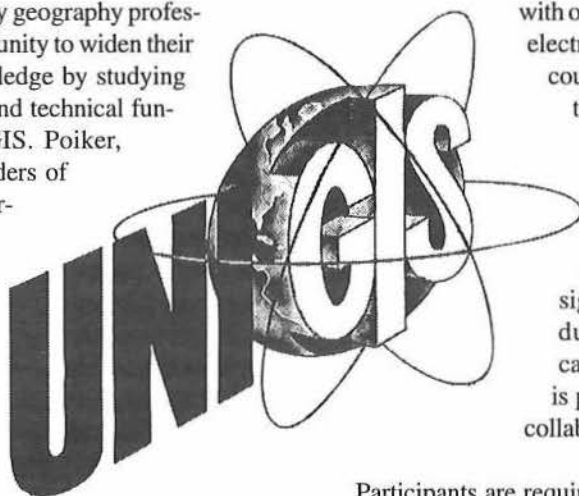
"The new SFU UniGIS program is designed for professionals working with GIS and individuals wishing to increase their career prospects in the field, and focuses on the design and implementation of GIS in real-life situations," says Poiker. "An added benefit is that participants can take the program at home, on their own schedule, with no loss

of salary and the advantage of university affiliation."

The two-year program is organized in 12 interactive courses, covering topics such as data input, modeling, cartographic output and project management. Each module requires 70-85 hours of study over a two month period, with on-line help from instructors and technical support staff. There are opportunities for collaboration

with other students both electronically in each course and during a three-day seminar.

All teaching, with the exception of the study materials, seminars and the larger assignments, is conducted electronically and emphasis is placed on student collaborations.



Participants are required to have a PC, modem and Internet access, and Windows software. Cost of the program is Cdn\$8,000 (US\$6,000). The next session starts September 1998. Given sufficient demand, another class will start in March 1999. For more information contact: UniGIS Program, Continuing Studies, Simon Fraser University at Harbour Centre, 515 West Hastings Street, Vancouver, BC, Canada V6B 5K3 (tel: 604-291-5095/4515, fax: 604-291-5098, E-mail: unigis@sfu.ca or website: www.sfu.ca/gis/unigis/unigis.htm). ☉

MAPublisher 3.0 Comes with GPS Extension

Avenza Software has announced a new GPS extension to its MAPublisher 3.0. MAPublisher-GPS will allow any GPS receiver to be connected to a laptop or other computer running MAPublisher and MAPublisher-GPS in order to plot points, map in real-time or to track movement, based on signals received from GPS satellites, all inside Adobe Illustrator.

The software allows for real-time (Differential) GPS positioning via an additional plug-in for interfacing directly to GPS hardware. Other new features of MAPublisher 3.0 are:

- Merge and link of existing map data to external databases
- Export to Arcview shape and MapInfo mid/mif formats
- Output to special MAPublisher PDF format
- Automated raster image registration
- Automated Legend tools
- Automated Scale and Projection conversions
- WINDOWS Adobe Illustrator now available

WebCartography Courses Organized by ITC

Courses on WebCartography are to be organized by ITC's Division of Geoinformatics, Cartography and Visualization, Enschede, The Netherlands from February 8-12, 1999. Using the Web as a means of publishing cartographic products has become popular in a short time. This is due to the fact that Web information is virtually platform-independent, unrivalled in its capacity to reach many users at minimal costs and easy to update. Last but not least, the Web allows for a dynamic and interactive dissemination of spatial data. The course offers participants both a theoretical as well as a hands-on experience with maps on the Web. For more information, contact Mr. Menno-Jan Kraak, ITC, Department of Geoinformatics, P.O. Box 6, 7500 AA Enschede, The Netherlands, <http://www.itc.nl/~carto/webcar>

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Welcome New Members

Monika Rieger
Cartologique

It has been a long time since I have been able to acknowledge our new members (my apologies). Many have joined since the last list was published in *Cartouche* #27 — the majority of new members can be attributed to the recent conference in London, Ontario. The CCA would like to welcome the following new members to the Association:

Chris Ashurst	VICTORIA BC	Larry W Laliberte	LONDON ON
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