


Cartouche

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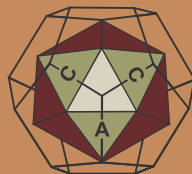
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Beginning in 2013 Natural Resources Canada launches its new GeoGratis website. See page 7 for details.

Newsletter of the
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EDITOR'S MESSAGE**Chris Storie****Welcome to the New Cartouche!**

Welcome to Cartouche. After producing Cartouche for the last several years the group at Natural Resources Canada led by Donna Williams has passed the baton to a new editorial team. The new editors and the entire Cartographic Community wish to extend our heartfelt thanks for a excellent job done over the last years. It is truly a labour of love and their dedication to producing a high quality newsletter is very much valued and appreciated.

Your new editorial team is housed in the Department of Geography at the University of Winnipeg and is comprised of Dr. Christopher D Storie (Vice-President of the CCA and an Assistant Professor) and Weldon Hiebert (Cartographer and long-time CCA member and former Cartouche editor!). Chris will be handling all content submission while Weldon will be handling the design, layout and production of the newsletter. We hope that we can follow in the footsteps of our predecessors.

A couple of administrative points. If you want to submit an article, announcement, idea, map or any content you feel would be value to Cartouche please contact Chris at vicepresident@cca-acc.org. We are always looking for new ideas and content for future issues. Additionally, this issue marks a change in the publication frequency of Cartouche. Like many newsletters it is hard to generate 4 issues a year while maintaining a highly level of quality. The decision was made to produce only 2 issues per year - a late Fall newsletter that would cover the post-conference until the end of the year, and an early summer newsletter that would cover the period from the start of the new year until just before the conference. Submissions for newsletters are gladly accepted whenever you want to submit. Calls for submission will come out in early Fall and early Spring respectively.

Lastly, we apologize for the lateness of this newsletter, we are new at this and we promise to get better over time.

We hope you enjoy.
Chris and Weldon.

Editor's Note: Cartouche will be distributed in digital form only. Printed copies will no longer be available from the editors.

"Love knows no boundaries. I wish I would have known that before I hired a cartographer to map out my romantic territory."

Jarod Kintz, *The Titanic Would Never Have Sunk if it Were Made out of a Sink.*

PRESIDENT'S MESSAGE

Anna Jasiak



The CCA in 2012 – Our current business with thoughts for our future

It was my pleasure to have been able to connect with so many familiar faces at the last CCA conference in May, 2012 in Kitchener and Waterloo – and to meet the many new faces as well. Since then, we as an organization have not had many formal communications of news until this issue of Cartouche – and that is primarily due to some of the internal changes within our executive and changes to roles and responsibilities.

I would like to take this opportunity to reflect on the current state of our association and some reflection on our future direction. Our new executive includes myself as president and welcomes newcomer Dr. Christopher Storie as our Vice President. Our Interest Group Chairs include:

- Data Quality, Geovisualization, and Map Design headed by newcomer Shawn Mueller;
- Cartography 2.0 (Emerging Mapping Technologies), headed by newcomer Cameron Wilson;
- Mapping History, headed by newcomer Andreas Korsos;
- Mapping and GIS Education headed by returning member, Dr. Julia Siemer;
- Mapping Technologies and Spatial Data, headed by returning member, Paul Wozniak.

We extend a warm welcome to all the new members on the executive, and fondly bid farewell to Donna Williams, past President and Janet Mersey our past Canadian liaison with the International Cartographic Association (ICA).

Much work has transpired since the last conference, specifically the work revolving around the CCA official website. The website host and administration has now been assumed by Dr. Christopher Storie and his colleagues at the University of

Winnipeg. The goal is to make available a website that is up to date and easily navigable. The work is ongoing and we hope to launch the new website in the next couple of months. Your comments and feedback would be much appreciated and may be forwarded to myself or Chris Storie directly.

In addition to the changes on the web, Chris has also taken on the role of Cartouche Editor Team Leader, bringing this edition of Cartouche online through the CCA Website. At this time we would like to thank the previous editors of Cartouche for the last two years – working closely with me were Diane Lacasse, Eric Kramers and Donna Williams. Thank you for your creative and informative newsletters!

At the last AGM and executive meetings held in the spring and fall, much discussion focused upon the future of the CCA – our wellbeing as an association as well as our future vision. There was agreement that the information provided on behalf of the CCA as a collective of experts in cartography and mapping, remained our primary role in the community of map makers and enthusiasts. What was identified as necessary for further discussion was the need to confirm our focus as an association for the future. What do we have to offer our future members? How may current and potential members be best served by the CCA? In other words – what do we do best? It was identified that we had the opportunity to offer to our association members and other audiences, specialized information with regards to cartographic standards and guidelines based on core cartographic principles. It is hoped that we will be able to develop an online inventory of such materials for access through the CCA website – a resource we plan to build over time through our collective knowledge, expertise and connections. You as members of the CCA and members of the cartographic community

“Our challenge, in order to remain current, will be to ensure we as an association also aim to deliver what we do best - providing expertise and linkages to advise on cartography, GIS applications and mapping in general.”

at large are welcome (and encouraged) to offer suggestions and submit ideas for resources that could be shared by students, persons developing cartographic products and geospatial databases.

As with my current workplace, the Federal Government, specifically Mapping Information Branch, the ways in which we deliver geospatial information and the way in which our audiences receive it or use it, is changing. With the dominance of the internet and social media we are able to connect easily with like minded people. Our challenge, in order to remain current, will be to ensure we as an association also aim to deliver what we do best - providing expertise and linkages to advise on cartography, GIS applications and mapping in general. I expect we will have many more discussions on this topic and I look forward to hearing your opinions directly or at the next AGM.

We have engaged with social media through our Facebook Page (<https://www.facebook.com/pages/Canadian-Cartographic-Association-lAssociation-Canadienne-de-Cartographie/177748108946882?ref=hl>) as part of our change in reaching a broader audience. I am happy to report, as co-administrator of this initiative, that there has been a strong and continued interest by members of our Canadian and International community, within academia, industry and private sector in our facebook presence. It is a venue that I encourage all members to visit – post ideas, events and share interesting links or information that would benefit the community as a whole. I am notified on a daily basis of new visitors to our site and am encouraged that we are indeed still relevant in the cartographic and mapping sphere of influence.

It is my hope that we will continue to feed on this momentum of change and our executive extends an invitation to all CCA members, to your academic colleagues, and to your connections in the discipline, to seriously consider participating at our next annual conference. The 2013 conference will be held at the University of Alberta in Edmonton from June 11-14, jointly hosted with the Association of Canadian Map Libraries and Archives (ACMLA). I am committed to ensuring that we are well represented at this conference, which would include our participation during the workshops proceeding the sessions, hosting one or more sessions with subject matter that would be of specific interest to both cartographers and map librarians and archivists, including the provision of a venue for student paper sessions. I have been working closely with the program committee and will share with you any announcements as they become available. For more information please visit the current

website in the next couple of months at <http://www.cca-acc.org/>.

For those of you that are in the academic world, whether it be University, College or a Technical Institution, please share with your academic colleagues and students of cartography, GIS and geography, that the map competitions will be taking place once again, where the winners will be announced at the 2013 conference. Julia Seimer has kindly taken the lead on developing the necessary competition guidelines for this year, which are made available in detail in this issue, and will be posted on our website shortly.

A recent announcement has been sent out by Fiona Ryle, reminding us all that it is now time to renew our CCA memberships. The membership entitles you to the quarterly Cartographica journals, discounted conference rates, access to the use of the listserv for your purposes to communicate with the membership community, and access to the Cartouche newsletter. Paul Heersink, our Treasurer, has developed an online form which can be submitted directly from the CCA website, for your convenience.

This has been a busy year thus far, and I am encouraged by the excellent support I continue to receive from my executive team, as well as members of the CCA (thank you Roger and Alberta!). Your comments and suggestions to us as your executive are most welcome.

Thank you,
Anna Jasiak



CCA President Anna Jasiak (right) and Vice President Dr. Christopher Storie (left).

VICE PRESIDENT'S MESSAGE

Chris Storie

Greetings From Your New VP



Greetings, I am your new Vice President. As a classically trained geographer I believe that cartography stills plays a vital role within our new electronic world. However, given the proliferation of GIS and Remote Sensing I also believe that cartography as we once knew it has changed. Virtually all geospatial practitioners produce maps; it is the nature of the data they work with and the way they communicate their information most effectively. However, this does not mean their maps are produced properly or effectively. This is the new future as I see it. 21st century map makers are GIS and Remote Sensing professionals. This is not to say that cartography is dead, in fact, I firmly believe that cartography is alive and well and has a more clearer role within modern day digital map production than it possibly has had over the last 15 years when GIS, remote sensing, and cartography were viewed as separate specialties. Today, at least within my department our students receive training in all three skills areas, with no one area being "valued" over another.

A little bit about myself. I got addicted to geography when I was a teaching assistant for a second year cartography class (manual in the first semester and digital in the second semester). While many of us remember Leroy lettering with a sense of fondness, I can truly say that I do appreciate not having to use them anymore. I earned a BA in geography from Laurentian University (Sudbury, Ontario) and an MA and PhD from Wilfrid Laurier University (Waterloo, Ontario). My graduate work focused on geospatial skills (then called spatial data handling) and their application to urban systems research. My passion is for remote sensing and that is where I spend most of my teaching and research time, but I always seem to come back to the map. Skills I learned as a second-year undergraduate still benefit me today. In fact, I would argue that because I had to make decisions regarding line weights, lettering sizes, colour, borders, neat lines, and every other cartographic element one can think of, my skills in the era of "click to make a map" I feel are that much more beneficial.

I am currently an Assistant Professor in the Department of Geography, at the University of Winnipeg. My teaching is primarily in GIS, Remote Sensing, urban and human geography. My research centers around the use of satellite imaging for urban structure mapping with a specific focus on areas of impoverishment.

My goal as Vice President is simple. To increase membership and exposure of the CCA. However, I feel that to effectively accomplish this task we need to achieve two goals (which will become my primary agenda over the coming months):

1. To attract the next generation. To connect with undergraduate and graduate students and encourage them to become members by demonstrating the value we as an association offer them. And, most importantly to demonstrate the value cartography has for their studies.
2. To reach out to those who identify as being a GISer or Remote Sensor. We all make maps, let's work together for mutual benefit.

I encourage people to contact me - vicepresident@cca-acc.org - with your ideas. If you want to start a student group on campus let me know and we can provide assistance. If you are not sure about becoming a member we can chat. If you have ideas about how we can grow and strengthen Cartography within this geospatially dominated world I would love to hear them.

Happy Mapping!
Chris

PAST PRESIDENT'S MESSAGE

Gerald Stark

Greetings fellow CCAers!!!

I trust that all of you have had a wonderful summer, and been able to get out and enjoy the great outdoors. My wife Diane and I did some travelling through the Rockies in August and we had the opportunity to drop in to the National Historic Site at Rocky Mountain House, Alberta (<http://www.pc.gc.ca/lnh-nhs/ab/rockymountain/index.aspx>). This location has an interesting display on one of Canada's pre-eminent cartographers – David Thompson. The importance of Thompson's role in the history of Canadian mapping cannot be understated, and I would encourage all cartographers to consider a visit to the Rocky Mountain House site.

As for myself, I think most of you are aware that I have now stepped down as your President. However, I shall remain on the CCA Executive for the next two years as I hand over the leadership of our organization to Anna Jasiak. Anna's enthusiasm for the field of cartography is well known and I am pleased to see the CCA presidency find its way to such capable hands.

As I reflect back over the last year I want to thank all of you for your support and encouragement. There have been many highlights during my tenure as CCA President such as our entry into the social media realm, a new look and feel to Cartographica, our AGM in Waterloo, Ontario and the new-comers to our Executive team: Chris Storie; Andreas Korsos; Cameron Wilson and Shawn Mueller.

Another item which bodes well for the CCA is the proposed re-vamp of our website. This should further the organization's exposure on the world-wide-

web. I wish to thank our new Vice-President, Chris Storie and his team for taking on this task, as well as assuming the role of editors for Cartouche.

I look forward to the upcoming year with the CCA. Our AGM in 2013 should prove to be a show-stopper in terms of cartographic content. I won't say any more here, as an official announcement has yet to be made, but I can tell you that for me, the distance I have to travel to next year's gathering will be very short.

That's about all for now, but I do want state again my appreciation for your continued support of the Canadian Cartographic Association.



The David Thompson display at the Rocky Mountain House National Historic Site visitor's centre. (Photo credit: Diane Stark)

FEATURE ARTICLE

Andrea C. Murray



The New GeoGratis Website: An Innovative Geospatial Platform for all Canadians!

In January 2013 Natural Resources Canada (NRCan) will be launching a new innovative GeoGratis website (<http://www.geogratiss.gc.ca>) which will provide a standards-compliant, single point of access to a broad collection of NRCan geospatial data, maps, images, elevation products and scientific publications. This information will be easy to use and allow users to search, view and download data or documents at no fee.

Using the old website, users seeking data products from NRCan were required to use multiple portals such as GeoPub and Mirage (Map Image Rendering Database for Geoscience). This new site offers one point of entry to all geo-products and services, including topographic maps at 1:50 000, Digital Geoscience Maps, and Atlas of Canada Maps. Several different formats are available to download the various products. Examples are: geopdf, geotiff, pdf, shape and tiff.

This new GeoGratis platform will offer users and developers alike a consolidated view of NRCan's Earth Sciences Sector's Geoscience and geospatial digital assets through various services and Application Programming Interfaces (API's). The Platform will support developers who want to build unique and innovative applications using data, images and documents that describe Canada's landmass. There are three web service interfaces to facilitate the creation of customized applications. These services include an API for metadata search, a Geolocation API and a renewed Canada base web map service (WMS), which includes The Canada Base Map – Transportation (CBMT).

The API's will allow developers to integrate the search, discovery and access capabilities of GeoGratis into new or existing applications (desktop, mobile or web). This technology will enable NRCan's information and data products to be discovered using accepted practices for information discovery and retrieval using readily available search engines.

The Geolocation API consolidates several location-based services including The Canadian Geographical Names Database (CGNDB), Atlas Gazetteer, Postal Codes and National Topographic System (NTS) Map lookups. The CGNDB manages names records for populated places and physical features across Canada. Users can search by geographic location using the map of Canada, name, physical feature, subject, NTS number or product title.

The Canada Base Map - Transportation (CBMT) web map service of the Earth Sciences Sector at NRCan is an Internet service that can be reused by map application users and developers. This service was created to provide locational context on which thematic information can be overlaid. The cartography (colour, symbology, etc.) of the base map was specifically designed so that thematic information can be overlaid or combined with locational information. The range of viewing scales for this service is between 1:200 000 000 and 1:10 000. Features from the following data sets are used by this service: CanVec, GeoBase, the National Topographic Data Base (NTDB) and base data from the Atlas of Canada National Scale datasets. This service is compatible with OpenGIS® Consortium (OGC) (<http://www.opengeospatial.org/>).

With the application programming interfaces, the new GeoGratis website is innovative and cutting-edge, and provides a one stop portal for discovery, access, and downloading of all of NRCan's Earth Sciences Sector's geospatial data, maps, images and scientific publications. As of January 2013, a link will be made available on the home page of <http://www.geogratiss.gc.ca>. Frequently Asked Questions, Featured Items, Information for Developers, Help for users and a Feedback form are all available to help facilitate navigation through the new site. GeoGratis will now be part of the world wide web instead of just being on it!

Andrea C. Merry is a Geomatics Specialist in the GeoAccess Division of the Mapping Information Branch, Natural Resources Canada.

FEATURE ARTICLE

United States Proposal to Host the 2017 International Cartographic Conference in Washington, D.C.

Bid Summary

The United States proposes to host the 28th International Cartographic Conference (ICC) for the International Cartographic Association (ICA) in Washington, D.C., in July or August of 2017. There are many cartographic organizations and activities throughout the United States, and the Washington, DC, metropolitan area employs the highest concentration of cartographers in the nation. The area is home to dozens of federal agencies, private companies, and other organizations that have cartographic programs, often national or global in scope. The Geography and Map Division of the Library of Congress in Washington holds more than 4.5 million items. The National Geographic headquarters has a variety of exhibits and maps from around the globe. The Bureau of the Census and the U.S. Geological Survey, both based in the Washington area, have a long history of mapping and participation in the ICA. Numerous companies managing satellites and geospatial information are based in the DC area.

The United States proposal contains all the elements required by the ICA guidelines including development of a Local Organizing Committee (LOC) and supporting organizations from societies, government agencies, and the private sector. All elements of a typical ICC are planned and described in detail including the Scientific Program, the Exhibition of Childrens' Maps, the International Map Exhibition, an international technical exhibition and trade show, and a set of technical tours to cartographic and other organizations in the Washington, D.C. area. The proposal also documents plans for social functions and receptions, including opening and closing ceremonies, an accompanying persons program, exhibit reception, and a gala dinner.

The LOC has planned activities and events for establishing excellent communication through a proposed website. The process of abstract submission and review and final reviews and publication of conference papers, posters, and maps are included, but the details and final set of activities around the scientific program will be determined in coordination with Commission and Working Group chairs prior to the 2017 event.

The proposal documents a variety of hotel possibilities in the Washington area and the LOC has demonstrated with the United States

2015 bid, the ability to lock exceptional room rates in a venue that can accommodate the required display and exhibit space for the technical exhibition and for the Childrens' and International map exhibits. The LOC has secured letters of support for the 2017 ICC in Washington from a variety of strong cartographic and geospatial organizations. The LOC has also determined a conservative operating budget for the 2017 ICC that provides a registration fee similar to recent ICCs and maintains reduced rates for Africans and students.

Washington, D.C. provides an excellent venue for the ICC. The city itself is a major attraction for cartographers since it is a unique exercise in urban design and planning. The City of Washington was designed in 1791 by Pierre L'Enfant, mapped the following year, and the original design remains largely in place. Washington, DC, is also an international tourist destination with museums, galleries, theaters, historic monuments, and sporting events. The Smithsonian in Washington, D.C. is the world's largest museum and research complex, consisting of nineteen museums and galleries, the National Zoological Park, and nine research facilities. The National Air and Space Museum holds the world's largest collection of aircraft and spacecraft. There are numerous performing arts venues, including the Kennedy Center and Ford's Theater.

International participants in the ICC can travel to Washington, D.C. with three airport destinations serving the area. Additionally, Washington is served with modern rail and highway access and travel within the city is multimodal with a modern subway system as well as excellent taxi and shuttle services. However, one of the best and easiest ways to see the attractions of Washington is by walking in a safe and modern city.

The United States proposal for the 2017 ICC provides the ICA with the choice of an excellent modern city with strong cartographic traditions and modern geospatial activities. The proposal includes all traditional events of an ICC and provides a detailed plan to execute an exciting intellectual and financially successful 2017 ICC.

MAPPING and GIS EDUCATION INTEREST GROUP

Julia Siemer

Showcase Your Work



The mission of the Mapping and GIS Education Interest Group of the CCA is to promote cartographic and GIS education at all levels in Canada. Based on various applied, academic, research, and pedagogical interests shared by its members the interest group facilitates constructive dialog among its members and the larger cartographic and GIS community. The interest group strives to organize sessions and/or workshops at the CCA's annual meetings, in which all cartographers and GIS users including students as well as educators are encouraged to participate.

As incoming chair of the Mapping and GIS Education interest group I'd like to take this opportunity to promote active involvement in this interest group of all members of the CCA who are interested in cartographic and GIS education. As so many have expressed in Cartouche before, the association is what its members want it to be. Engaging, up-to-date education can be one way of attracting students to cartography and GIS and potentially to our association.

In the past years I have seen many examples of excellent output of cartographic and GIS education in Canada, often presented at annual meetings, for example talks and poster presentations given by students or map submissions to the CCA's various mapping competitions. Unfortunately, we have seen a sharp decline in numbers of such presentations and map submissions to the competitions at the last meeting in Waterloo.

During my tenure as chair of this interest group I'd like to increase presentations of educational topics and maps at the annual meetings again. I'd like to invite you all to share your experiences, opinions and thoughts on cartographic education matters in this section of Cartouche. Please consider submitting descriptions of successful or innovative approaches to teaching and learning of cartographic content in your classes or at your work place.

I remember listening to an interesting presentation by a cartography instructor at an international meeting a few years ago. The instructor shared her experience with a cartography course she designed after the American TV show "The Appren-

tice". Although students were not "fired" for submitting poorly designed maps, they had to display all map assignments in the hallway of their department and compete with fellow students for points assigned by a jury. This approach, although it sounded strange to me at first, was considered a fun component by the students and proved to be successful in encouraging them to spend more time and effort in designing their maps. Such an approach, as unorthodox as it sounds, attracted students to this class and can get them potentially hooked on cartography. Experiences like this, excellent maps by your students, challenges you faced with new software or other experiences with teaching cartography could and should be shared with others in Cartouche.

With your help, I am hoping that we could create a lively discussion on cartographic and GIS education that we are so passionate about. To submit articles, sample maps and commentaries for discussion, please e-mail me at julia.siemer@uregina.ca.

After serving as interest group chair for the last three years Julia has accepted to act as chair of the Mapping and GIS Education Interest Group (formerly Cartographic Education Interest Group).

Julia is currently an Associate Professor in the Department of Geography at the University of Regina. Prior to this position she was the map editor and chief cartographer of the GIS-based Demographic Atlas of Albania, a first volume of the National Atlas of Albania. She has also held positions as cartographer in publishing houses in Germany and Switzerland and has taught cartography, GIS, and geography courses at University of Potsdam, University of Applied Sciences Berlin, Germany, and the University of Regina.

Her current research interests lie in the field of thematic and atlas cartography in general, and medical/health mapping, cultural and population mapping, and visualization of topographic base data for use in flood control in particular. Her education comprises a three-year apprenticeship as cartographer at Falk-Verlag publishing house, Hamburg, a Dipl.-Ing. in cartography from University of Applied Sciences Karlsruhe and a Dr. rer. nat. in cartography from University of Potsdam, Germany.

MAPPING TECHNOLOGIES and SPATIAL DATA INTEREST GROUP

Paul R.J. Wozniak



The Open Data Train Has Arrived!

The emergence of Open Government, Big Data, Cloud Computing, and Online Collaboration has fostered development of a new infrastructure for creating and using maps. In this environment maps exist in the ambiguous cyberspace of the World Wide Web, with the roles of the cartographer and the cartographic discipline becoming increasingly difficult to define. This natural evolution of the map is driven by democratization of spatial data and accompanying technologies that will empower future generations to become global citizens that have greater awareness of their place in the world.

The Cyber Cartography Interest Group will present how advances in technology are creating and using digital spatial data content for producing and using maps. This will equip cartographers with the information needed to find their place in this new world of maps, and provide a frame of reference to identify how the cartographic discipline is responding to the changes that are shaping new perceptions of maps and mapping.

In the early 1990s the Government of Canada laid the groundwork for a cost recovery model that allowed production of what was to become Geomatics Canada's National Topographic Database (NTDB), the foundation for the recently completed 1:50 000 digital topographic CanVec coverage of Canada. At the same time the Geological Survey of Canada (GSC) was embarking on digital publication of geological maps that depend significantly on contour data for mapping interpreted contacts of geological map units. In 1992 digital topographic data was scarce and individual projects were independently paying ca. \$1,500.00 to have contours, hydrology, and roads digitized from 1:50 000 maps. The data was not standardized, acquisition of the data was not coordinated, and the data was not managed in a way that would ensure it could be shared between projects.

When I was asked to start managing acquisition of the data around 1993-94, Geomatics Canada's cost sharing arrangements for acquiring NTDB data became available. This service provided complete standardized topographic datasets for \$1,000.00 to end-users. The transfer of funds from one government department to another to achieve a common goal, where many users would have access to the data, was a change in the

right direction. Eventually I was able to convince our local management to allow work on a forward looking plan that identified future areas of geological mapping. We compiled a comprehensive list of map sheets that allowed Geomatics Canada to prioritize production of these datasets in their annual production plans and provide the data to the GSC at significantly reduced pricing, ca. \$500.00-\$300.00 per dataset. In total the Calgary Division of the GSC contributed ca. \$130,000.00 to the NTDB mapping initiative from the geological mapping projects under its responsibility.

Copyright and royalties for project partners wishing to disseminate the data were still issues in the late 1990s, but as the NTDB dataset content grew, the cost for adding the final datasets was reduced, and the necessity for cost recovery diminished. Subsequently the need for stringent licensing and restrictive limitations on reproduction and use could be relaxed. There is now open [unrestricted use of digital data](#) licensing attached to the CanVec version of the topographic data that is freely available from [GeoGratis](#). In recent years governments have been moving toward expanding public access to the data they produce, but it is important to recognize that there was an initial investment in creating these data, and early adaptors, including private industry and other government bodies, helped foot the bill.

The Government of Canada is now launching its [Open Data Canada](#) portal that will provide a single point of access to publicly available data. The portal's [Top 10 Most Downloaded Datasets](#) page includes interesting stats on the first year of use, with an average of ca. 85,000 visits per month in the last three quarters of the year. The two largest contributors to the site are Statistics Canada, which lists 8,741 datasets and Agriculture and Agri-Food Canada, which lists 3,198 datasets. Natural Resources Canada, which includes Geomatics Canada and the Geological Survey of Canada, only has 45 datasets listed on the portal, but many of the datasets from this department are available from sites like [GeoGratis](#), [GeoBase](#), [Atlas of Canada](#), [GeoCon-](#)

nections and [GEOSCAN](#) (GSC), which have a long established client base. Eventually access to these data will become fully integrated with the Open Data portal.

Canada is not the only country adopting an Open Data approach, which falls under the wider concept of Open Government that is associated with initiatives in several countries in the European Union, the United Kingdom, the United States, Australia, and Canada, to name a few. The road to [open data in the UK](#) followed a similar history to that of Canada's, where the [Ordnance Survey](#) digital topographic data was compiled using a cost recovery model, but is now available as [OS OpenData](#). The [DATA.GOV.UK^{Beta}](#) site has 8,818 datasets available through its portal. The site is in a beta version, but it lists data from the [British Geological Survey](#) including [water well data](#) that has been assigned a permanent URI link. Using this type of permanent or persistent link ensures end-users can always use the same link to access the data. The site also includes a [White Paper](#) that outlines this government's Open Data initiative.

Despite government efforts to democratize spatial data, there is still a move toward creating spatial data for the public, by the public, as demonstrated by the [OpenStreetMap](#) Community Collaboration project. The site states that it provides free geographic data, but this too is governed by a license, the [Open Database License](#). The OpenStreetMap (OSM) includes openly licensed data from national mapping agencies such as the De-

partment of Natural Resources Canada and the Ordnance Survey of the United Kingdom.

The OSM and its data have come a long way in a short time. When I first made reference to this data source about a year ago, presentation of the data was rudimentary at best, but cartographic rendering has since greatly improved, as indicated by the OSM [Image of the week for Nov. 26, 2012](#) (Fig. 1). The image displays a map that is being used for a new game called Train Lord. This map not only shows greatly improved cartographic rendering, but also demonstrates the creative or unexpected ways in which the map data from this source might be used. Indeed it seems that the Open Data train has arrived.

A name change to Cyber Cartography is proposed for this IG, but this proposal should be carried forward to the membership by the incoming Chair for the IG, expected to start in June 2013.

Paul graduated with a BSc. in Geography from the University of Calgary in 1987 and later returned to the University of Calgary Geoscience Department for his M.Sc. in Geology/Hydrogeology, 2011. He studied Cartography under Dr. Michael Coulson and Roger Wheate and was a student in the first GIS course offered by Nigel Waters in the University of Calgary Geography Department. His study of cartography and exposure to GIS in its early days has provided a more theoretical and forward looking appreciation of mapping concepts that he has applied to his work at the Geological Survey of Canada since 1988.

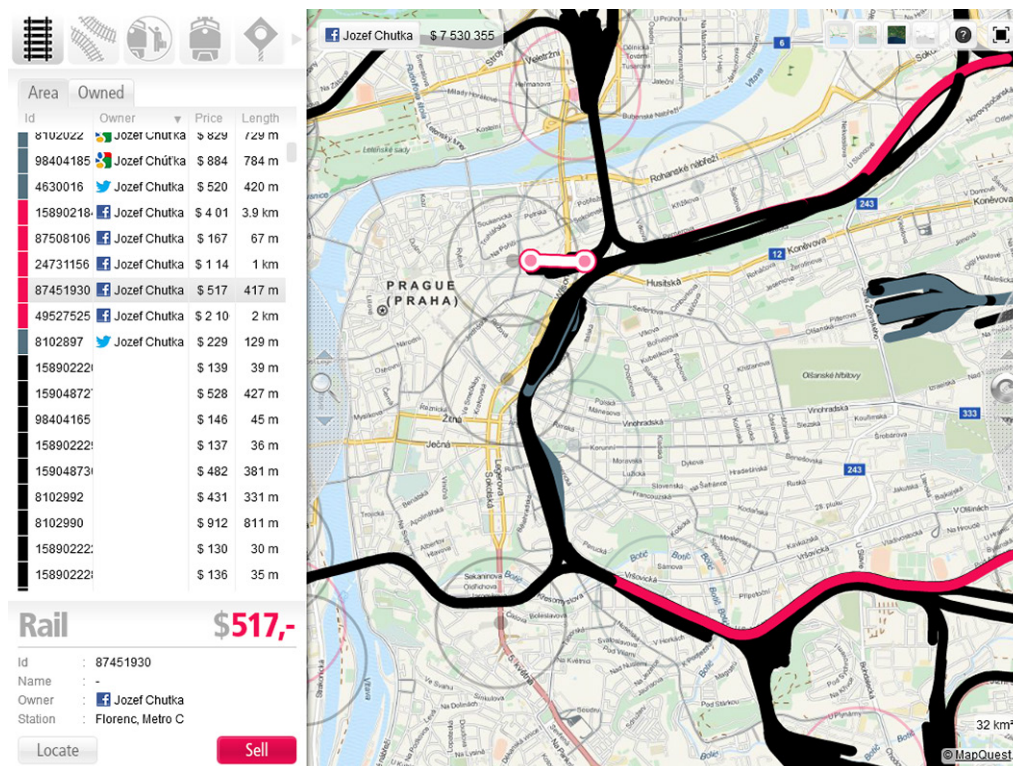


Figure 1: Map of OpenStreetMap (OSM) for Prague, Czech Republic.

DATA QUALITY, GEOVISUALIZATION, and MAP DESIGN INTEREST GROUP

Shawn Mueller

Integrating Visualization

The mission of the Data Quality, Geovisualization, and Map Design Interest Group of the Canadian Cartographic Association is to maintain visibility on the vital role that data quality plays in geovisualization and map design. Data quality determines what is available for analysis and representation. Therefore, this interest group is devoted to illuminating all facets of data quality, including, but not limited to, data collection, selection, augmentation, metadata, situate knowledge, and data ontology construction.

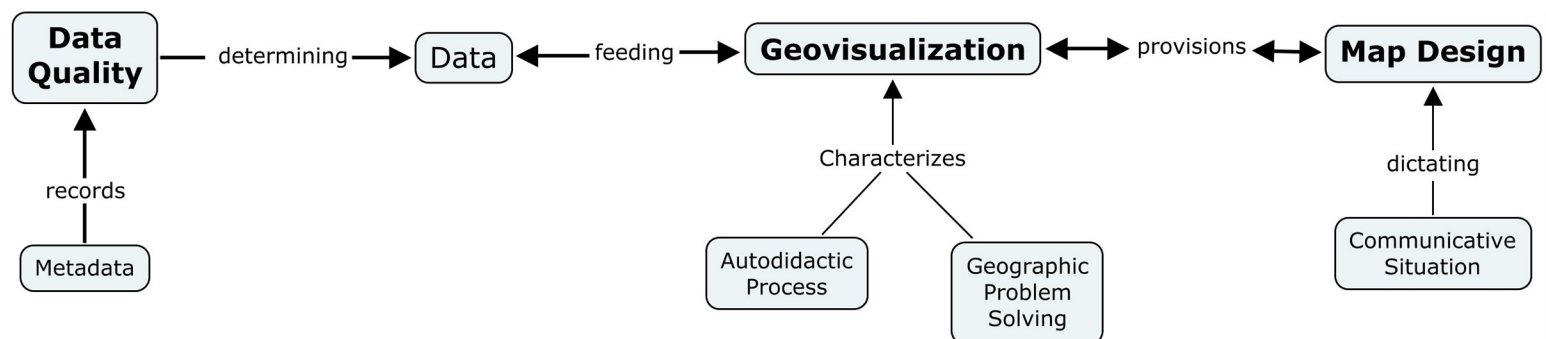
This interest group realizes the connection between geovisualization and data, and that geovisualization cannot function without sources of good quality data. Geovisualization provides views on data concerning the goals of analysis, so geovisualization as a generator of coherent representation and as a vehicle of geospatial data exploration is of major interest to this group.

This group also realizes that map design plays a vital role in this enterprise. Map design functions best when it refines the analytical and exploratory visualization in accord with the communicative situation. It is in this light that this interest group regards map design, acknowledging that it is through the auspices of map design that greatest consideration is taken for the map percipient.

In summary, this interest group of the Canadian Cartographic Association appreciates the relationship among data, geovisualization, and map design as a single entity, and that each is fundamentally incomplete without the other.

Data quality, geovisualization, and map design, despite appearances, are not the whole of the cartographic enterprise. These concerns work in concert with remote sensing, statistics, and GIS in the cartographer's toolkit. However, the strength of the linkage among the first three elements could be stronger than between the others. This was certainly the case as I worked on my Masters thesis, *Combining Dynamic Cartography and Temporal GIS to Visualize Industrial Development in Kitchener, Ontario, Canada*, (Mueller, 2003).

During that project, I constructed a dataset amenable to my subject area: specifically the longevity of industrial and manufacturing sites in the Kitchener. I collected spatiotemporal data from a variety of sources including extant maps, airphotos, high fidelity GIS data and map layers, back issues of civic directories, and North American Industry Classification System (NAICS) coded membership listings from the Chamber of Commerce. I walked the physical terrain of my study area. I took myriad photographs to ground-truth my data and to acquire a sense of place unavailable in the studio or laboratory.

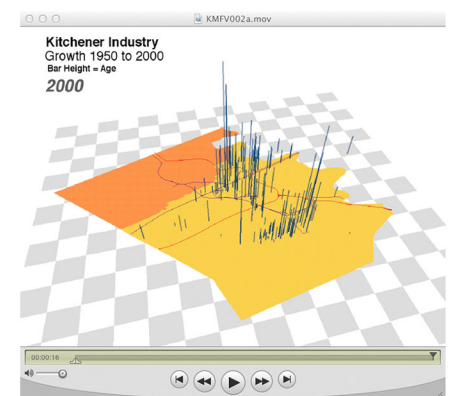
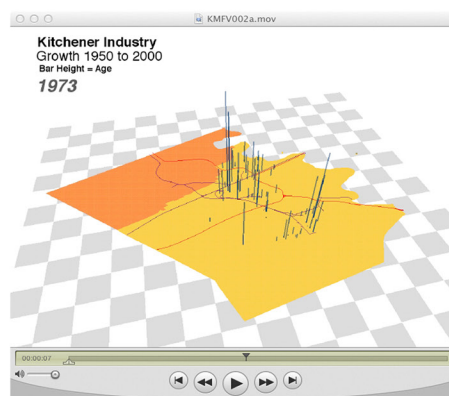
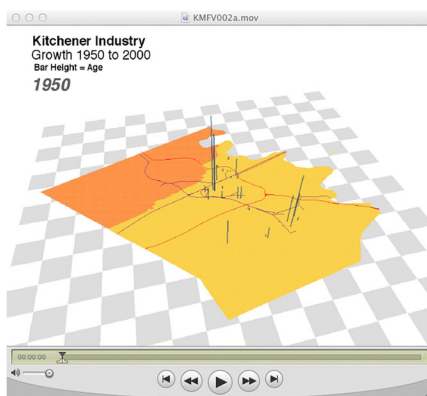
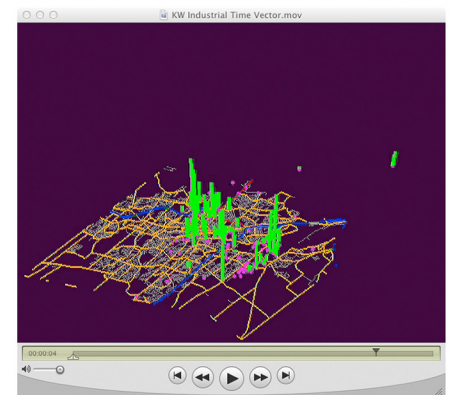
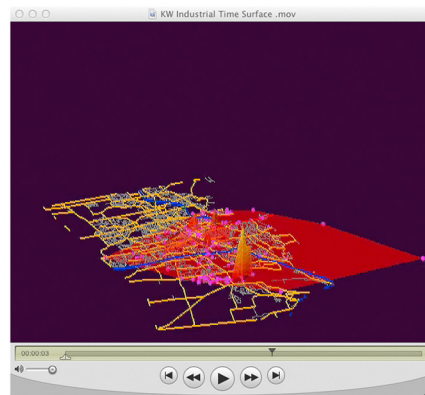
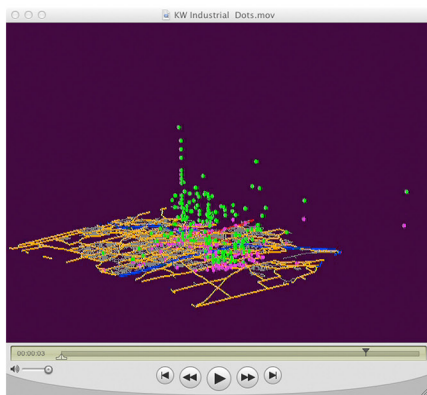


GVIS allowed me, through the auspices of various software applications, to integrate my data into a coherent resource. I intended to represent my findings with an animated map, so data that showed progression of features was essential. I was able to explore the data characteristics, construct an explanatory narrative of my observations, and experiment with different forms of representation. This was GVIS functioning in its most useful capacity: as cognitive tool and autodidactic environment.

At the end of this process, I had a meaningful representation of the lifespan of industrial activity in Kitchener/Waterloo, replete with intriguing patterns and cadence of spatiotemporal distribution. I turned to map design to clarify and refine my visualization. Application of recognized map design principles provided a necessary check on the assumptions regarding representation I had made during the GVIS process. Map design made me reconsider my representation for clarity, utility, and novelty. Non-

sequiturs, both visual and conceptual, were eliminated and central themes finalized and brought to the foreground. The final representation was nothing more or less than was required by needs of my thesis and my thesis committee.

Upon reflection, my early experience with data quality, GVIS, and map design reinforced my understanding of powerful linkages in the cartographic process. In my estimation, the wholeness of the process I describe is contingent on ensuring the quality of data either found or collected. As chair of the CCA Interest Group in this area, I encourage my fellow CCA members, cartographers, and geographers to similar regard for the wholeness of processes of geographic visualization. The data is not separate from the GVIS, nor from the requirements of map design, nor from the other aspects of the cartographic process. I have shared my experience, briefly, and look forward to contributions to this ongoing discourse from our members and other scholars within the pages of Cartouche.



HISTORY OF CARTOGRAPHY INTEREST GROUP

Andreas Korsos

Understanding a Continent

The mission of the History of Cartography Interest Group of the Canadian Cartographic Association is to promote the history and evolution of the cartographic process, reflect upon cartographic artifacts and historical maps, generated over time with special focus on, but not limited to, Canadian historic maps.

This group recognizes that historic maps are an invaluable complimentary tool for historic research as well as an important visual teaching tool for students of all ages. This group understands that historic maps are the earliest form of spatial data use, which has evolved into present day cartographic methodology. These cartographic products are a visual portrayal of our continued understanding of the ever changing spatial world we live in.

In the fall of 1974, an eight-year-old boy wandered through the library in search of a book at the instruction of his teacher. He wasn't really interested in the literature the other kids seemed content with, and the annoyed look on Mrs. Endo's face implied that he better find one quickly. Having trouble, the boy slipped from one aisle to the next in search of something, anything when the title "The Map-Maker" caught his eye. Satisfying his teacher with his choice, he began to read the book written by Kerry Wood and became immersed in the story of David Thompson, of his abilities as a 'Map-Maker' and of his adventures in the 'North West'.

The story of David Thompson has been told in many different ways. There is no doubt that Thompson through his adventures and surveys had a deep understanding of the continent of his time. With the exception of his own 'Narratives', Thompson's greatest contribution was his ability to communicate his understanding, in perhaps the best way he could, that being through the art of Cartography.

Shortly before his official retirement from the fur trade, Thompson immediately began his last tasks to fulfil his obligations to his employer, the North West Company. These obligations included the creation of a map of the country around Saleesh House, Spokane House, Kullyspell House, and Astoria. This was followed shortly thereafter by a map of the entire Northwest,

from Hudson's Bay to the Pacific. He revised this map in 1814 into what became known today as the 'Great Map of 1814' which not only portrayed the territory but every trading post therein as well.

When presented to William McGillivray, then the head of the North West Company, there can be no doubt that McGillivray just stared in awe, not moving a muscle as he scanned every square centimetre as the great map was hung in the Great Hall of Fort William. I wonder what was going through McGillivray's head. Could it be that distances that seemed immeasurable were suddenly measurable? Could it be that there was a sudden realization of immensity of area?

Although this was not the only map produced of the north-west in the early to late 19th Century, this was the first to accurately portray this portion of the continent from the Pacific to the Hudson's Bay at a large scale. Given the preciseness of his surveys, and his aptitude to combine his data with others, the 'Great Map of 1814' and later a later version in c.1826, validated Thompson's ability to understand the continent in terms of measured distance and area. The 'Great Map', measuring 2.25m x 3m, served as a magnet to those who endeavoured to understand the vastness of the territory that the North West Company traded throughout.

David Thompson would have a profound effect on many people of all ages, not only during his lifetime but as well, long after his passing. If I were to convey how David Thompson's story has contributed to my own understanding of the continent as a professional cartographer, I would write a short article that would begin with "In the fall of 1974, an eight-year-old boy wandered through the library in search of a book..."



ANNUAL MEETING RECAP

Roger Wheate

Annual Meeting, Wilfrid Laurier University, May 28 - June 2, 2012



The annual meeting of the CCA was held in conjunction with the Canadian Association of Geographers (CAG) within the much larger Annual Congress of 'Learned Societies', held jointly at the adjacent universities of Wilfrid Laurier (WLU) and Waterloo. The downsides of meeting thus include a slightly higher registration fee, more people milling around and greater organizational complexity. The upsides include a massive book show, more people milling around, and a beer tent (weather permitting). Any confusion was offset by omnipresent student volunteers for directions and advice at every corner – like collies herding the most sheepish of conference attendees.

Following the usual opening executive meeting, we headed over to the campus Turret Night Club for the ice breaker reception. The main innovation and highly successful event at this function was the inclusion of an awards ceremony, usually retained for the end of the conference banquet. CAG President (and historical cartographer), Anne Godlewska, made five presentations, including the 'Award for Geography in the Service of Government or Business' to CCA past-president Donna Williams, very deservedly for her longstanding and continuing promotion of geographic techniques and tools through the Atlas of Canada (Natural Resources Canada). Subsequently Donna presented Janet Mersey (University of Guelph) with the Award of Distinction for exceptional contributions to the CCA, focusing on her decades of service to the journal *Cartographica* and as the appointed Canadian delegate to the International Cartographic Association (ICA).

The program began in earnest ... mostly in the WLU Geography department, the next day. There were generally up to ten concurrent sessions though none specifically focusing on cartography per se; nevertheless there was plenty of brain fodder for those seeking mapping applications, and an excellent poster/map display in the department map library. Throughout the week, the local organizers Mary-Louise Byrne (WLU) and Jean Andrey (Waterloo) did a sterling job making things work

and rallying the student volunteers. Two papers were given by CCA interest group chairs: "Mapping sovereignty in the Oregon County: the impact of the war of 1812", by Ken Favrholt, outgoing chair of History of Cartography, and "Immersive panoramic photography as a tool for geographic investigation", by Shawn Mueller, incoming chair of Analytical Cartography/GIS.

The map library was also the setting for two CCA displays – one a general display showcasing to CAG delegates the CCA organizational information with Gerald Stark hosting the table. A poster session was also presented by Anna Jasiak and Donna Williams, in the context of their work at Natural Resources Canada (Mapping Information Branch) displaying the most recent maps published, including the new Northern Canada map and examples of recently published topographic maps of the north at 1:50 000 scale. Additional information was offered concerning online geospatial map and data resources and related services.

The AGM was well attended by the group fired up by the many contemporary developments on modern mapping. We welcomed incoming President Anna Jasiak (Mapping Information Branch, NRCan) and VP Chris Storie (University of Winnipeg). Chris will also be taking over the production of *Cartouche* and overseeing the redesign and updating of the official CCA website – to be launched this fall.; Gerald Stark moved on to the role of past-president and was thanked for his presidential role over the last year, and Donna Williams retires as past-president. Thanks also to outgoing interest group chairs Dawn Mooney and Ken Favrholt; and to Julia Siemer, Fiona Ryle, Paul Wozniak for their continuing contributions.

A highlight of our conferences since 1995 has been the Orienteering Challenge where cartographers show how their skills to make maps exceed their ability to read them. The weather conditions were perfect compared to last year's torrential rain, and the participants could enjoy Waterloo Park and this year's

crop of ducklings. Many thanks to Nick and Val Duca and the Stars Orienteering Club of Waterloo for making this happen (see photos).

Next year's meeting is set for Edmonton in early June in conjunction with the Association of Canadian Map Libraries and Archives (ACMLA). There will of course be another O-challenge and other activities (see elsewhere in this issue).



Donna Williams and Janet Mersey with Award of Distinction.



Ken Favrholt in his presentation on the war of 1812.

Finish List		
1	Paul W.	36.54
2	Paul W.	32.48
3	S. Thompson	32.52
4	Derrick	39.01
5	Sawn	41.01
6	Roger	41.04
7	Pam	42.13
8	Byron	47.13
9	Anna	74.08
10	Denna	74.09
11	Aile	74.07
12	Jan	74.11
13	Gerald	74.19
14	Zori	74.42
15	Alberta	78.43
16	cliff	78.51
	Kex	78.52

Orienteering results (Paul Heersink and Paul Wozniak #1 and #2).



Group photo – orienteering contestants.



Byron Moldofsky (U. Toronto) and Pamela Schaus (WLU) in a photo-finish.

Back to the Future

The continuing progressive achievements of two CCA past-presidents are featured in the December 2012 issue of Canadian Geographic as recent award winners for their work in cartography / geomatics. Both awards were presented during a ceremony on Nov. 7, 2012 at the Royal Canadian Geographical Society College of Fellows Annual Dinner in Ottawa.

The following text is edited from the Canadian Geographic text:

Dr. Fraser Taylor (below) is the recipient of the fourth annual 3M Environmental Innovation Award. Dr. Taylor is a CCA past-president (1978-80) and ICA past-president (1987-95). He is a Distinguished Research Professor in the Department of Geography and director of the Geomatics and Cartographic Research Centre, Carleton University, Ottawa. The centre aims to merge technology and cartography in new and interesting ways; Cybercartography, a term he introduced during a conference in 1997, has been accepted around the world. The approach blends digital online maps with location-specific cultural information and interactive tools, such as audio recordings and photographs, to enhance the cartographic information, creating what Taylor calls “living atlases”. So far, he’s produced nine, ranging from Antarctica to Latin America, and three of these — the Kitikmeot Place Name Atlas, the Arctic Bay Atlas and the Inuit Sea Ice Use and Occupancy Project — earned Taylor and his

team the prestigious award. Sponsored by 3M Canada in partnership with the Royal Canadian Geographical Society (RCGS), this celebrates individuals involved in a local, regional or national project, program or initiative that has provided innovative solutions that protect, restore or preserve the environment.

http://www.rcgs.org/awards/environmental_innovation/winner_2012.asp

Video: http://gcrc.carleton.ca/Fraser_CG_3M_2012_Award/

The Royal Canadian Geographical Society has announced the 2012 Literacy Award to **James Boxall** (below), director of the Geographical Information Sciences Centre at Dalhousie University, Halifax, and CCA past-president (2007-08). It includes a monetary award of \$5000, half of which is donated to a charity of his choice. James has expressed a desire to create a foundation to support k-12 teachers who wish to train in using GIS with their students. The Award is based on his work over the last 25 years to support and enhance geographic and spatial education at all levels; he co-founded the Canadian Council for Geographic Education in 1993.

http://www.rcgs.org/awards/geographic_literacy/winner_literacy2012.asp



2013 President's Prize Competition

The CCA President's Prize recognizes excellence in student map design and production and is open to all post-secondary students who have completed and produced a cartographic project in the preceding school year. The 2012 President's Prize Competition will consist of two prizes of \$200, one for entries from college-level or CEGEP students, and one for entries from university level undergraduate students in the following category:

A thematic map on any subject. A thematic map is a map that is meant to communicate a specific single subject matter within a particular geographic area. They are often defined as special purpose maps and can be either quantitative or qualitative in nature. The International Cartographic Association (ICA) defines the thematic map this way: "A map designed to demonstrate particular features or concepts. In conventional use this term excludes topographic maps" (Dent 1999, 8).

Entry Guidelines:

The cartographic project will consist of a single map. There are no restrictions on size but the project must have been completed and produced during the school year preceding the competition. Each entry must be accompanied by a clear and succinct statement of design objectives that will weigh heavily in the judges' decision.

Entries will be judged on the basis of creativity and overall effectiveness in communication as well as excellence in compilation, design, and layout.

Entries for 2013 are invited from all Canadian post-secondary students. All entries should be accompanied by an official entry form found on page 20 or on the CCA website (www.cca-acc.org). Check website for deadlines. Mail submissions to:

CCA President's Prize Competition
c/o Dr. Julia Siemer
Assistant Professor of Geography
Cartography and GIS
University of Regina
Department of Geography
3737 Wascana Parkway
Regina, Saskatchewan
S4S 0A2

Concours pour le Prix du Président 2013

Le Prix du Président de l'ACC reconnaît l'excellence dans la conception et la production cartographiques par des étudiants. Tous les étudiants du niveau postsecondaire qui ont terminé et produit un projet cartographique au cours de l'année scolaire précédente sont admissibles. Le concours pour le Prix du Président 2012 décernera deux prix de 200\$, un pour les soumissions de niveau collégial et un pour celles d'étudiants du premier cycle universitaire, dans la catégorie suivante:

Carte thématique de n'importe quel sujet. Une carte thématique, aussi appelée carte à sujet unique, est une carte qui met l'accent sur un thème spécifique ou unique dans une zone géographique particulière. Elles sont souvent définies comme des cartes à usage spécial et peuvent être soit quantitatives ou qualitatives. L'Association cartographique internationale (ACI) définit une carte thématique comme suit: «Une carte conçue pour démontrer des détails cartographiques ou concepts particuliers. Selon l'usage conventionnel ce terme exclut les cartes topographiques» (Dent 1999, 8).

Critères d'inscription:

Les projets cartographiques consisteront d'une seule carte. Il n'y a pas de restriction quant à la taille de la carte mais il faut que le projet ait été terminé et produit au cours de l'année scolaire précédant le concours. Chaque soumission devra être accompagnée d'un énoncé court et clair sur les objectifs de la conception de la carte. Cet énoncé sera crucial pour la décision du jury.

Les soumissions seront jugées selon la créativité et la façon dont le message est présenté ainsi que l'excellence de la préparation, la conception et la présentation du projet.

Le Président de l'ACC invite tous les étudiants canadiens de niveau postsecondaire à soumettre leur projet cartographique. Toutes les soumissions doivent être accompagnées d'un formulaire officiel de participation, disponible à la page 21 ou sur le site Web de l'ACC (www.cca-acc.org). Consultez le site Web pour les dates limites. Envoyer les soumissions à:

Prix du Président de l'ACC
a/s Dr. Julia Siemer
Assistant Professor of Geography
Cartography and GIS
University of Regina
Department of Geography
3737 Wascana Parkway
Regina, Saskatchewan
S4S 0A2

2013 Carto-Québec Prize

The CCA is pleased to announce the offering of the Carto-Québec Prize, a special annual competition for the best student-authored cartographic product created in French. The award has been established through a donation from the former Carto-Québec Association to promote and recognize excellence in map design.

The competition is open to all post-secondary students in Canada who have completed and produced a cartographic project in the preceding school year. The Carto-Québec Prize will consist of two awards of \$500, one for entries from college-level or CEGEP students, and one for entries from university-level undergraduate students.

Entry Guidelines:

Cartographic projects will consist of a map or a map series forming a coherent whole and may be submitted in any finished form (on paper or other medium). Entries submitted in electronic media, whether GIS or internet mapping applications, should not require specialized software for viewing.

There are no restrictions on the size of the map project or subject but the project must have been completed and produced during the school year preceding the competition. All documents must be in French.

Entries will be judged on the basis of creativity and overall effectiveness in communication as well as excellence in compilation, design, and layout.

Entries for 2013 are invited from all Canadian post-secondary students. They should be accompanied by an official entry form found on page 20 or on the CCA website (www.cca-acc.org). Check website for deadlines. Mail submissions to:

Carto-Québec Prize Competition
c/o Dr. Julia Siemer
Assistant Professor of Geography
Cartography and GIS
University of Regina
Department of Geography
3737 Wascana Parkway
Regina, Saskatchewan
S4S 0A2

Concours pour le Prix Carto-Québec 2013

L'ACC a le plaisir d'annoncer le Prix Carto-Québec. Ce concours annuel, ouvert aux étudiants postsecondaires à travers le Canada, sera décerné pour le meilleur produit cartographique créé en français.

Ce prix a été établi grâce à un don de l'ancienne Association Carto-Québec pour promouvoir et reconnaître l'excellence dans la conception des cartes. Le Prix Carto-Québec comprendra deux prix de 500\$, l'un pour les soumissions de niveau collégial et l'autre, pour le niveau du premier cycle universitaire.

Critères d'inscription:

Les projets cartographiques comprendront une carte ou une série de cartes formant un ensemble cohérent et pourront être soumis en version imprimée ou autre. Les soumissions électroniques, qu'elles comportent des applications SIG ou de l'Internet, ne doivent pas nécessiter de logiciel spécialisé pour les visualiser. Il n'y a aucune restriction concernant la taille ou le sujet de la carte, mais le projet doit avoir été fait au cours de l'année scolaire précédant le concours. Le projet doit être produit en français.

Les soumissions seront jugées selon la créativité et la façon dont le message est présenté, ainsi que l'excellence de la préparation, la conception et la présentation du projet.

Le Président de l'ACC invite tous les étudiants canadiens de niveau postsecondaire à soumettre leur projet cartographique.

Toutes les soumissions doivent être accompagnées d'un formulaire officiel de participation, disponible disponible à la page 21 ou sur le site Web de l'ACC (www.cca-acc.org). Consultez le site Web pour les dates limites. Envoyer les soumissions à:

Prix Carto-Québec
a/s Dr. Julia Siemer
Assistant Professor of Geography
Cartography and GIS
University of Regina
Department of Geography
3737 Wascana Parkway
Regina, Saskatchewan
S4S 0A2

CCA Prizes Entry Form 2013

Award:

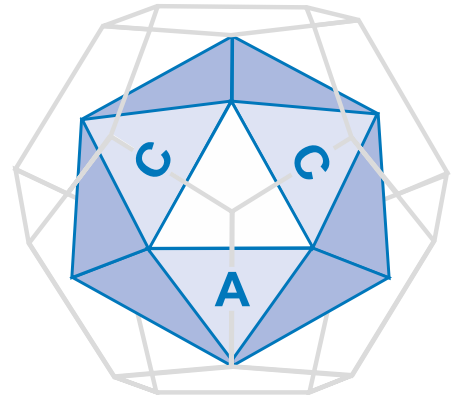
- ☐ President's Prize ☐ Carto-Québec Prize

Post-secondary category:

- ☐ College or CEGEP Year or Level: 1 2 3 4 5
☐ University

President's Prize Category:

- ☐ Thematic Map



Instructor's name and course name/number: _____

In a clear and concise manner, state your design objectives of your project and provide a rationale for your design choices:

In order to be eligible, this form must be submitted with your entry. Check website for deadlines.
 Send entries to:

CCA President's Prize or Carto-Québec Prize
 c/o Julia Siemer
 Assistant Professor of Geography
 Cartography and GIS
 University of Regina
 Department of Geography
 3737 Wascana Parkway
 Regina, Saskatchewan
 S4S 0A2

Formulaire de participation des Prix ACC 2012

Prix:

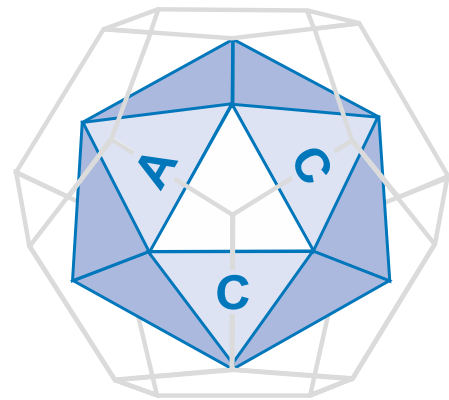
- ☐ Prix du Président ☐ Prix Carto-Québec

Catégories post-secondaires:

- ☐ Collège ou CEGEP année ou niveau 1 2 3 4 5
☐ Université

Catégorie Prix du Président:

- ☐ Carte thématique



Noms de l'instructeur et du cours numéro: _____

Dans un style clair et concis, indiquez vos objectifs de conception de votre projet et fournissez une justification de vos choix de conception:

Pour être admissible, ce formulaire doit être soumis avec votre inscription. Consultez le site Web pour les dates limites.

Envoyer les soumissions à:
ACC, Prix du Président ou Prix Carto-Québec
a/s Julia Siemer
Assistant Professor of Geography
Cartography and GIS
University of Regina
Department of Geography
3737 Wascana Parkway
Regina, Saskatchewan
S4S 0A2

Norman Nicholson Scholarship

The purpose of the award is to recognize and encourage exceptional student achievement and ability in any aspect of cartography. The award consists of a certificate and a cheque for \$500.

Eligibility:

The award shall be made to a student in good standing who is registered full-time in a recognized college or university program. The student must be a Canadian citizen or landed immigrant.

The student should have the following student status: entering the final year of a community college or CEGEP program in cartography, OR entering the final year of an undergraduate honours program with a concentration in cartography, OR a student accepted into or enrolled in a graduate program with a concentration in cartography.

Any student awarded this scholarship is not eligible in any subsequent year. The award is tenable only in the year in which it is granted.

Application:

A student member who wishes to compete for the award will submit an application consisting of the following:

- An official transcript of all college or university courses completed and grades received.
- Letters of recommendation from two faculty members who are familiar with the student's work and capabilities. Letters of Recommendation are to be sent directly to the Awards Committee.
- A one-page statement from the student regarding plans for continuing education in cartography.

The application will be submitted to the Awards Committee of the Canadian Cartographic Association by March 15th of the year in which the award is to be granted.

Your application and all letters of recommendation should be sent to:

Elise Pietroniro
Secretary, Canadian Cartographic Association
708 Paul Metivier Drive,
Nepean, Ontario
K2J 2T4

For more detailed information concerning the Norman Nicholson Scholarship please read the following:
<http://www.cca-acc.org/norman-nicholson.asp>

Bourse Norman L. Nicholson

Le but de ce prix est de reconnaître et d'encourager les étudiants qui ont fourni un accomplissement et une compétence exceptionnels dans un aspect de la cartographie. Ce prix consiste en un certificat ainsi que d'une bourse d'études de 500\$.

Éligibilité:

Ce prix sera remis à un étudiant en règle inscrit à temps plein dans un programme collégial ou universitaire reconnu. Cet étudiant devra être citoyen canadien ou résident permanent.

Cet étudiant devra être dans l'une des situations suivantes: entrer dans la dernière année d'un programme en cartographie d'un collège communautaire ou CEGEP, OU entrer dans la dernière année d'un programme universitaire de premier cycle spécialisé avec concentration en cartographie, OU un étudiant qui a été accepté ou qui est inscrit dans un programme d'études supérieures avec concentration en cartographie.

Tout étudiant qui recevra cette bourse d'études ne pourra être éligible pour une année ultérieure. Ce prix n'est valide que pour l'année de son attribution.

Poser sa candidature:

Un étudiant membre de l'Association qui désire concourir pour cette bourse d'études doit soumettre sa candidature comprenant les éléments suivants:

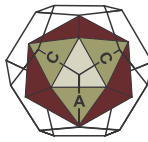
- Un relevé de notes officiel de tous les cours collégiaux ou universitaires complétés dont les notes ont été reçues.
- Une lettre de recommandation de deux membres de la faculté qui sont familiers avec le travail et les capacités de l'étudiant. Les deux lettres de recommandations doivent être directement envoyées au Comité du Prix Norman L. Nicholson.
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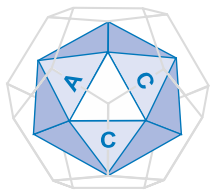
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