

CGRG NEWSLETTER NO. 8

(January 1998)

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PRESIDENT'S MESSAGE

Fall 1997 witnessed two principal events and one significant development in the maturing of the CGRG and of geomorphology in Canada.

The events were the workshop on Geophysical Techniques in Geomorphic Research, held at Queen's University in September, and the publication of a thematic set of seven papers on eolian geomorphology in the November issue of the CJES. The workshop was a simply magnificent contribution from Bob Gilbert, who arranged a substantial program including theory, fieldwork, and data analysis, all with smooth logistics and a good dinner! The CGRG's thanks go to him, Larry Dyke (GSC), Christoph Hyde (GSC), Yves Michaud (GSC), and Stephen Robinson (McGill) for introducing us to electromagnetic methods, ground probing radar, and acoustic techniques. We look forward to a similar workshop at SFU in March 1998.

The publication of the eolian geomorphology set of papers marks the completion of the highly successful meeting on Eolian Processes and Environments held in 1996 at the CAG in Saskatoon. Both the meeting and the paper reviews were organized by Steve Wolfe (GSC), who has seen the project through in just 18 months. The papers are the first major compilation on eolian topics to emerge from Canada since the 1986 Binghampton Symposium.

The development concerns the considerable progress made in Ontario towards recognition of geomorphology as a legitimate category for professional registration. As I report elsewhere in this newsletter, a "Terrain Science" category is proposed, with geomorphology an integral component. We are not out of the woods on this one yet, but there is lots of light between the trees.

These three items have sprung from initiatives in Eastern Canada. Over the next months the CGRG's focus shifts west, towards a Special Session on the Little Ice Age on March 14th, and the workshop at SFU on March 20th. Further details on these events are announced in this Newsletter. In addition, the CGRG-Executive has two principal issues in its sights: a publications policy and our potential affiliation with CGU. There will be news on these items at the AGM, to be held in Ottawa in early June, and on increasing democratization of the Group. We also hope to present the J.R. Mackay Award in Ottawa.

May and June look to be meeting-intensive. We have special sessions at the CAG and GAC annual meetings, and then a major, implicit, effort at the International Permafrost Conference in Yellowknife. The paper reviews for the IPC have consumed many Canadian geomorphologists during the last two months, and we expect the final volume to be up to the usual standards of the IPA meetings.

My final note is a warning of a crisis looming in front of Canadian environmental science. The Polar Continental Shelf Project (PCSP-NRCan), without which there would be no arctic science in Canada, is about to come to a precipice. At the ACUNS (Association of Canadian Universities for Northern Studies) meeting at SFU in December, Bonni Hrycyk, Director of PCSP, announced that while PCSP had spent \$3M from its allocation on logistics support in 1997, only \$1.8M would be available in 1998 and \$1M in 1999. In 1997 \$1M was allocated to University-based projects. Realistically, we might expect a contraction of 60% in the parties supported in 1999 from 1997. The outlook for training of graduate students in arctic geoscience is disastrous, because such reductions will necessarily curtail such programs. We shall mount considerable efforts to try to change the situation, but please bear this in mind whenever you have an opportunity to influence opinion.

Mot du Président

L'automne 1997, fut témoin de deux activités majeures et d'un événement important dans le développement du GCRG et de la géomorphologie au Canada.

La tenue d'un atelier sur les techniques de géophysique appliquées à la recherche en géomorphologie à l'Université Queen's en septembre et la publication de sept articles sur l'activité éolienne dans le numéro de novembre du JCST sont les deux activités majeures. La coordination de l'atelier fut assurée par Bob Gilbert qui a organisé un programme substantiel incluant les aspects théoriques, de terrain et d'analyses de résultats, le tout agrémenté d'une solide logistique et d'un bon dîner. Le GCRG tient à remercier Larry Dyke (CGC-DST), Christophe Hyde (CGC-DST), Yves Michaud (CGC-Que) et Steve Robinson (McGill U.) pour leur démonstration des méthodes électromagnétiques, du géoradar et des méthodes acoustiques. Nous attendons avec enthousiasme la tenue d'un atelier similaire à l'Université Simon Fraser en mars prochain.

La publication d'articles sur l'activité éolienne conclut l'excellente contribution offerte par la conférence sur les processus et environnements éoliens, tenue en 1996 lors du congrès de l'AGC à Saskatoon. La session spéciale et la révision des articles ont été supervisées par Steve Wolfe (CGC-DST), qui a vu s'écouler seulement 18 mois entre le début et la fin du projet. La collection d'articles est la première compilation majeure sur l'éolien en provenance du Canada depuis le symposium de Binghamton en 1986.

L'événement important concerne les progrès significatifs faits en Ontario vers la reconnaissance de la géomorphologie en tant que discipline pour l'accréditation professionnelle. Tel que mentionné ailleurs dans le bulletin, une catégorie intitulée "Science des terrains" a été proposée, incluant la géomorphologie comme élément principal. On n'est pas sorti du bois avec ce dossier, mais on aperçoit une lueur au fond du tunnel.

Ces trois faits rapportés nous viennent de l'Est du Canada. Dans les prochains mois, l'attention du GCRG se tournera vers l'ouest avec la présentation, le 14 mars, d'une session de conférences sur le Petit âge glaciaire et d'un atelier technique, le 20 mars, à l'Université Simon Fraser. De plus, le comité exécutif doit statuer sur une politique de publication et d'une affiliation probable avec le UCG. De plus amples détails seront fournis lors de la prochaine assemblée générale qui se tiendra à Ottawa au début juin. On souhaite aussi être en mesure de présenter le "J. R. Mackay Award".

Les mois de mai et juin prochains seront très fertiles en ce qui a trait au nombre de conférences. Nous avons une session spéciale au congrès Québec '98 du GAC/MAC, APGGQ, AIH et UCG et sommes grandement impliqués dans la Conférence Internationale sur le Pergélisol à Yellowknife. La révision des articles a occupé bon nombre des chercheurs canadiens depuis deux mois et on s'attend à ce que le volume des actes de la conférence rencontre les standards de qualité prescrits par l'AIP.

Le mot de la fin se veut, en fait, un signal d'alarme d'une crise imminente dans le monde des sciences environnementales canadiennes. L'Étude du Plateau Continental Polaire, sans qu'aucune recherche en milieu nordique ne serait possible au Canada, est au bord d'un précipice. Lors de la réunion de l'AUCEN en décembre dernier, Madame la directrice Bonni Hrycyk a annoncé que, même si l'EPCP avait dépensé \$ 3M en support logistique en 1997, seulement \$ 1,8M seront disponibles en 1998 et \$ 1M en 1999. L'an dernier, \$ 1M ont été alloués aux chercheurs universitaires. D'une façon réaliste, on doit s'attendre à une coupure d'environ 60 % des équipes supportées en 1999, en comparaison avec 1997. La perspective de formation de jeunes chercheurs dans le domaine des géosciences en milieu nordique est donc compromise. Nous devons mettre les efforts nécessaires pour surmonter cette situation et, s'il vous plaît, gardez cela en tête à chaque fois que vous pouvez passer un message.

Chris Burn

President,
Canadian Geomorphology Research Group

Canadian Geomorphology Research Group **Workshop on *Geophysical Techniques in Geomorphic Research***

The CGRG is sponsoring a two-day workshop to be held at Simon Fraser University, Harbour Centre Campus, Vancouver on March 7th and 8th 1998. The emphasis of the workshop will be on the application of ground-penetrating radar and high-resolution reflection seismic surveying to geomorphic problems. Speakers will include, among others, K. Russell (UBC), R. Knight (UBC), E. Hickin (SFU), S. Vanderburgh (UCFV), D. Smith (Calgary), and M. Roberts (SFU).

Itinerary:

Saturday March 7th 1998. 8.30 am

The sessions during the morning will deal with the application of geophysical techniques to geomorphic research.

Sunday March 8th 1998. 8.30 am

Field sessions using GPR and reflection seismic will be conducted on the Fraser Delta. Cores and cone penetration logs will be used for ground truthing.

Registration: Registration before February 6, 1998

- \$50.00 for CGRG members, \$65.00 for non-members*
 - \$25.00 for student CGRG members, \$40.00 for non-members*
- (* includes one-year membership in CGRG)

-after February 6, 1998 add \$10.00

The workshop will be limited to thirty

Registration includes instructional material, coffee breaks and lunch on Sunday. To register for the workshop please send a cheque made payable to the Canadian Geomorphology Research Group along with your name, postal and e-mail addresses, telephone and FAX numbers to:

Michael C. Roberts
Earth Sciences Program
Simon Fraser University, Burnaby, BC V5A 1S6
e-mail: mroberts@sfu.ca

Second Circular/Call for Papers

CGRG Special Session

Joint meeting with the Canadian Association of Geographers Annual Meeting

Université d'Ottawa/University of Ottawa

June 2-6, 1997

The CGRG will host a special session on June 4, 1998, at the University of Ottawa in association with Canadian Association of Geographers. The scientific program of the session will emphasize the following themes.

Fluvial systems and environmental change - a Canadian perspective

- A. Flood and human impacts on fluvial systems
- B. Fluvial sediment response to long-term hydrologic forcing
- C. Floodplain dynamics (response to Holocene environmental change)
- D. River channel and valley development
- E. Theory and models for predicting river response to environmental change

Session Organizers

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CAG Special Sessions Coordinator:

Roger Needham

Tel: (613) 562-5800. ext. 1052

Fax: (613) 562-5145

e-mail: rdnad@uottawa.ca

Abstracts deadline for submission: February 23, 1998

All presenters must submit an abstract (in either English or French) of roughly 175 to 250 words that presents the purpose, methods, and conclusions of their research. In order to reduce the cost of producing the final program and to produce a superior product, *the abstract must be submitted to 'desloges@geog.utoronto.ca' through the Net in ASCII or WordPerfect 6.0 format (i.e., as an e-mail attachment). If this is not possible, a diskette (3.5") along with one paper copy of the abstract will be accepted. Please label the diskette with the last and first names of the presenting author and enclose in a hard (or padded) envelope to protect the diskette. Please send this package to Joe Desloges at his address listed above.*

The abstracts will not be edited. Authors are responsible for spelling, grammatical, and typographical errors. Type the title in upper and lower case, followed by the author(s), affiliation(s), and address(es). The name of the person who will present the paper should appear first in the case of co-authors. Do not underline or use boldface type. The body of the abstract should be single-spaced. In planning your paper presentation, please note that each speaker will be allotted 25 minutes, including time for questions and discussion. Overhead and 35mm slide projectors will be available as standard equipment. All other special audio-visual equipment (e.g. multimedia rooms) will be reserved on special request only. N.B. Participants are reminded that they are only allowed to present one paper. This does not preclude participation as a second author, session organizer, chairperson of a session, panel list or a discussant.

CAG/CGRG program

Tuesday, June 2:

Arrival of participants for the next morning field trips. Registration.

Wednesday, June 3:

Registration. CAG Executive meeting. Evening reception.

Thursday, June 4:

Registration. CGRG Paper session. CGRG Business meeting.

Friday, June 5:

Registration. Paper sessions CAG Annual General Assembly. Banquet.

Saturday, June 6: Paper sessions, poster sessions, displays, and workshops. Local excursions.

Publications

We are exploring several possibilities for publication of peer-reviewed papers.

Graduate students

The Geography Graduate Student Association of the University of Ottawa has asked the local organizers of the conference to maximize efforts to ensure student participation and provide meeting opportunities. An evening party for graduate students (although not exclusively) will also take place. The Association will do its best to billet students who are looking for places to stay in the area. Please contact: Richard Dugas, President of the Association: tel.; (819) 777-2951. e-mail: s1357463@uottawa.ca

Travel grants

Deadline for application: February 28, 1998. Each year, the Social Sciences and Humanities Research Council of Canada provides the Association with a grant to assist its members to attend the CAG Annual Meetings. In allocating these funds, priority is given to *members of the CAG*, particularly students, who are presenting papers. To be eligible, you must have been a CAG member in 1997. Since it is usually not possible to completely cover all the requests received, the amount of the grant will depend on the number of applicants. Application forms may be obtained from the CAG office: Valerie Shoffey, Canadian Association of Geographers, Burnside Hall, McGill University, 805 Sherbrooke Street West, Montreal, Quebec H3A 2K6 . Tel: (514) 398-4946 Fax: (514) 398-3594

e-mail: cag@felix.geog.mcgill.ca

Registration

The Official CAG '98 Registration form will be available in January 1998. Members of CAG will receive these automatically. Those who are not members should consult the CAG or CGRG Home Pages in late January at:

<http://aix1.uottawa.ca/academic/arts/geographie/cag98e.htm>

Western Division of the Canadian Association of Geographers (WCAG) Special Session

Little Ice Age Geomorphology in the Canadian Cordillera

A special paper session is being organized for the annual meeting of the Western Division of the Canadian Association of Geographers (WCAG). The session is sponsored by the Canadian Geomorphology Research Group (CGRG) and will focus on *Little Ice Age Geomorphology in the Canadian Cordillera*.

Potential speakers and participants are asked to contact Dan Smith (dsmith@office.geog.uvic.ca).

The annual meeting WCAG is being hosted by the Richmond campus of Kwantlen University College, March 12 to 14, 1998.

Summary of the Canadian Geomorphology Research Group Workshop on *Geophysical Techniques in Geomorphic Research*>

Queen's University, Kingston, Ontario

The first workshop sponsored by the Canadian Geomorphology Research Group was held in Kingston on September 20 and 21, 1997. The workshop, organized by Dr. Robert Gilbert at Queen's University, focused on three geophysical techniques and their application to geomorphic research.

The meeting opened with a classroom session which examined the theory behind ground penetrating radar, electromagnetic induction methods, and acoustic methods. The session leaders also discussed some of the ways in

which each technique could be applied to geomorphology, what its advantages were, what settings it could be used in, and any difficulties or limitations which they had encountered in its use. The 35 or so participants then broke into small groups and spent the afternoon and the next morning at field sites. We got the opportunity to set up and operate the equipment, and got a feel for what was involved in actually using it in the field. The final afternoon was dedicated to downloading and interpreting the data collected in the field. Throughout the weekend, representatives from several manufacturers and suppliers (Datasonics Inc., McQuest Marine Inc., and Sensors and Software Inc.) were on hand to answer questions. The wealth of theoretical and practical information provided, the small group size, and the sharp focus of this weekend-long workshop made it extremely satisfying for participants.

Thanks to session leaders Christopher Hyde and Larry Dyke (Terrain Sciences Division - Geological Survey of Canada), Yves Michaud (Quebec Geoscience Centre - Geological Survey of Canada), Stephen Robinson (McGill University), and Robert Gilbert (Queen's University), as well as to Datasonics Inc. for their efforts.

Le premier atelier parrainé par le Groupe Canadien de Recherche en Géomorphologie a eu lieu à Kingston, les 21 et 22 septembre 1997. L'atelier, qui fut organisé par Dr. Robert Gilbert de l'Université Queen's, se concentrait sur trois méthodes géophysiques et leurs applications en géomorphologie.

La conférence a débuté avec une séance en classe durant laquelle on a assisté à un exposé théorique sur le géoradar, les méthodes électromagnétiques, et les méthodes acoustiques. Les présentateurs ont aussi examiné comment ces techniques pouvaient être mises en application dans le domaine de la géomorphologie, les cadres dans lesquels on pouvait mieux les utiliser, les avantages de chaque technique, ainsi que les limitations et les difficultés qu'ils ont rencontrées. Les 35 participants se sont ensuite divisés en petits groupes et ont passé l'après-midi et le matin suivant sur le terrain. Nous avons eu l'opportunité de monter et faire fonctionner les appareils ainsi que de se familiariser avec leur mode de fonctionnement sur le terrain. Le dernier après-midi fut dédié à la téléchargement et à l'interprétation des données ainsi recueillies. Tout au long de la fin de semaine, des représentants de plusieurs fabricants et fournisseurs d'équipements (Datasonics Inc., McQuest Marine Inc., and Sensors and Software Inc.) étaient disponibles pour répondre aux questions. La richesse des informations théoriques et pratiques qui ont été fournies, la petite taille des groupes, ainsi que la spécificité de cet atelier l'ont rendu très satisfaisant pour tous les participants.

Merci aux présentateurs, Christopher Hyde et Larry Dyke de la Division de la Science des terrains de la Commission géologique du Canada (CGC), Yves Michaud du Centre Géoscientifique de Québec (CGC-Québec), Stephen Robinson de l'Université McGill, Robert Gilbert de l'Université Queen's, ainsi qu'à Datasonics Inc.

Nicole Couture

Canadian Geomorphology 2000 Monograph

A monograph, tentatively titled "Canadian Geomorphology 2000", is being prepared for publication as a Geological Society of America Special Paper under the editorship of John Clague and Olav Slaymaker. The volume, which has the support of the Canadian Geomorphology Research Group, will showcase recent, international-caliber research by Canadian geomorphologists. Each of the approximately 15 chapters will be a review paper on a topic to which a Canadian scientist has made a significant contribution, in a field recognized by the international scientific community as one in which Canada has shone. The monograph will be in print by the time of the year 2000 meeting of CGRG in Calgary.

Professional Registration in Ontario

In mid-November, the Admissions Standards Sub-committee of the Association of Geoscientists of Ontario circulated a penultimate draft of the proposed academic syllabi contributing towards registration as a Professional Geoscientist in Ontario. Three categories of academic training are proposed: *Geology*; *Geophysics*; and *Terrain Science*. The latter concerns CGRG members working in Ontario.

The syllabus presented for the *Terrain Science* category is a substantial improvement on the draft circulated in the Spring, which was drawn from a Hydrogeology perspective. The present proposed syllabus will seem familiar to those from Universities that offer a joint Physical Geography/Geology BSc program. Hydrology is an explicit requirement, as is Quaternary/Glacial "Geology", Geomorphology/Soil Science, and Remote Sensing/Air Photography. A broad range of electives is tolerated.

A principal criticism is that Geomorphology/Soil Science are not alternatives, but individually necessary. Climatology is absent from the list of mandatory requirements. Mineralogy/Petrology is preferred in the proposal over Stratigraphy/Sedimentology as a mandatory requirement. These points may be adjusted by way of minor revision, and suggestions to this effect have been forwarded to the sub-committee. More fundamental is the capacity of persons trained as traditional bedrock geologists, through astute choice of courses, to register as Terrain Scientists with minimal exposure to surface earth science. This does not preclude persons easily recognised as Terrain Scientists from gaining the appropriate recognition, but it does open up a potential masquerade problem down the road. Again, the sub-committee has been appraised of this matter.

Overall, the sub-committee has incorporated many suggestions from geomorphologists into its deliberations and proposals, and should be congratulated at this stage. The job is not quite finished, but we have come a long way.

Proposed (Draft) Syllabus for Terrain Science, November 1997

A. Foundation Math and Science:

Mathematics 1
Mathematics 2
Mathematics 3 or Computing
Physics 1 or Biology 1
Physics 2 or Biology 2
Chemistry 1
Chemistry 2

B. Foundation Geoscience:

Physical Geoscience/Earth History
Mineralogy/Petrology
Quaternary/Glacial Geology
Geomorphology/Soil Science
Remote Sensing/Air Photography
Hydrogeology
Hydrology
Field School

C. Electives:

Various and wide-ranging

D. Complementary Studies:

Professional Practice/Law OR
Technical or Business Writing

There were 969 registrants from more than 70 countries assembled in Bologna from August 28-September 3, 1997 at the Fourth International Conference on Geomorphology, sponsored by the IAG. Sessions on Glacial Geom., Arid and Sub-arid Geom., Engineering Geom., Fluvial Geom., Tectonic Geom., Methods and Tools in Geom., Littoral and Submarine Geom., Tropical Geom., Geom. and Global Change, Landslide Management, Volcanic Geom., Karst, Weathering and Soils, Applied Geom., Geom. and Global Tectonics, Theoretical Geom., Periglacial Geom., Geomorphological Hazards, Antarctic Geom., Magnitude and Frequency in Geom. and Environmental Impact Assessment were held. Over 700 abstracts were published in Supplementary Volume III (1) of the journal *Geografia Fisica e Dinamica Quaternaria* and a Guide Book for 11 Field Excursions was published as Supplementary Volume III (2). Further details can be obtained from the Editor-in-Chief, Prof. P.R.Federici at the Department of Earth Science, Via S.Maria 53, 56126 PISA, Italy. Many of the papers will be published in forthcoming volumes of *Zeitschrift für Geomorphologie*, *Geomorphology*, *Earth Surface Processes and Landforms*, *Geomorphologie and Transactions of the Japanese Geomorphological Union* and in the Wiley IAG Book Series.

The new Executive, elected to serve for four years (1997-2001) is as follows:

President: Olav Slaymaker (Canada)
Vice-President: Mario Panizza (Italy)
Secretary General: Piotr Migon (Poland)
Treasurer: Bernard Dumas (France)
Publications Officer: Christine Embleton-Hamann (Austria)
Members without Portfolio: Albert Pissart (Belgium)
Denise Reed (USA)

The Fifth International Conference on Geomorphology will be held in Tokyo, Japan in 2001.

UPCOMING CONFERENCES

Quebec'98 GAC/MAC'98, APGGQ, IAH and CGU joint meeting Quebec City, 18-20 May 1998

Abstract deadline January 15, 1998
Contact: Département de géologie et de génie géologique, Université Laval,
Sainte-Foy, Qc, G1K 7P4
phone: (418)656 2193; fax:(418)656 7339

<http://www.ggl.ulaval.ca/quebec1998.html>
e-mail: quebec1998@ggl.ulaval.ca

- a special session on *Relative sea-level variations and isostatic recovery across Canada, from Late Wisconsin to Present day* is being organized by J.-C. Dionne (U. Laval) and Y. Michaud (GSC-Quebec) and sponsored by AQQUA, CGRG and CANQUA.

- a symposium on *Aquifer management and remediation* being organized by R. Martel (INRS-Géoressources) and sponsored by IAH.

- a field-trip on *Relative sea-level variations during the Holocene, St. Lawrence Estuary* being organized by J.-C. Dionne (U. Laval) and M. Garneau (GSC-TSD)

- a short-course on *Land use planning and geosciences* being organized by Y. Michaud (GSC-Quebec) and sponsored by APGGQ and AQQUA.

7th International Conference on Permafrost Yellowknife, N.W.T., Canada, June 23-27, 1998

Contact: Alan Heginbottom, Terrain Sciences Division, Geological Survey of Canada, 601 Booth Street, Ottawa, On, K1A 0E8

http://www.nrcan.gc.ca/gsc/permaf_e.html (English)

http://www.nrcan.gc.ca/gsc/permaf_f.html (Français)

Canadian Association of Geographers 1998 Annual Meeting - University of Ottawa

You are invited to submit titles and abstracts representing the results of geographic research by February 28, 1998. All fields of Geography will be considered. Participants are invited to use posters for their presentations when appropriate, especially if the material lends itself more to a visual presentation. Abstract deadline February 28, 1998.

For more information check out the website:
<http://aix1.uottawa.ca/academic/arts/geographie/cag98e.htm>

General Sessions/Poster Sessions:
Coordinator: Marc Brosseau
Tel: (613) 562-5800, ext. 1058
Fax: (613) 562-5145

CONTRIBUTIONS TO FUTURE CGRG NEWSLETTERS

The CGRG newsletter is published twice annually. As with all such newsletters, its success is directly dependent upon the contributions that we receive. CGRG welcomes contributions to future newsletters from any of our members. These should be of interest to the Canadian geomorphology community and could include discussions, commentaries, reviews of regional or national meetings and field trips, summaries of issues pertinent to geomorphology, and announcements of future meetings and workshops. Please forward your contributions to ymichaud@nrcan.gc.ca

CANADIAN GEOMORPHOLOGY RESEARCH GROUP
Member Registration Form
1998

Name: _____

Address: _____

Postal Code: _____

Phone numbers: (Home) _____ (office) _____

(FAX) _____

e-mail address: _____

Institution: _____

Annual dues: \$15

Please make cheque or money order to the Canadian Geomorphology Research Group

(Photocopy application form as necessary)

Send completed form and cheque to: Greg Brooks, Secretary-Treasurer CGRG, Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8