



## NEWSLETTER OF THE CANADIAN GEOMORPHOLOGY RESEARCH GROUP

## BULLETIN DU GROUPE CANADIEN DE RECHERCHE EN GEOMORPHOLOGIE

Number 12

Jan 2000

### PRESIDENT'S MESSAGE - MOT DU PRÉSIDENT

#### Recent and Upcoming CGRG Activities

Welcome to the 21<sup>st</sup> Century! As I write this we seem to have survived Y2K, if not the flu bug that arrived with it. 1999 was a very good year for CGRG. It saw our first publication, a workshop in Vancouver in March, a fieldtrip in association with CAG in June and an excellent joint meeting with CANQUA in Calgary at the end of August. Despite the lack of on-campus accommodation (not the fault of the organising committee) Derald Smith and his co-workers ran an excellent meeting with several interesting innovations (free coffee and doughnuts to get the troops out in the morning, an informal, "grazing" style banquet and free mid-conference field trips). The major attractions were a symposium to honour Nat Rutter sponsored by CANQUA, the CGRG Session on "Geomorphic Response to Climate Variability and Extreme events: Records, Processes and Models from the Late Quaternary to the 21<sup>st</sup> Century" (organised by Steve Wolfe and Christian Bégin) and Cheryl McKenna-Neuman's Mackay lecture on "Particle supply restriction in aeolian transport systems: how damp, lumpy, crusty surfaces mess up sediment transport models". There were 146 oral and poster presentations and more than 180 attendees at the meeting. Over 190 people went on the 10 pre, post and mid-conference fieldtrips. Derald and his team are also to be congratulated for making the meeting a financial success as well as an academic one. Both CGRG and CANQUA welcome, and are grateful for, the generous donations made by the

Calgary organising committee.

As we enter the new century it is important to maintain our activity and visibility in the earth science community by spreading the word about CGRG. Our past president, John Clague did an outstanding job with reports on CGRG in *Geolog*, *Zeitschrift für Geomorphologie* and the Newsletter of the CGU in the last few months. We are planning a number of events for the coming year and beyond, to continue this level of activity. CGRG (with CGU and GAC) is sponsoring a special session at the GeoCanada 2000 meeting in Calgary on "Natural Hazards: Progress towards Characterization and Mitigation" (organised by Steve Evans and John Clague). We also hope to have copies of the special issue of *Geomorphology* entitled "Canadian Geomorphology 2000" (edited by Olav Slaymaker and John Clague) available at that time. Cheryl McKenna-Neuman and Bill Nickling will host a workshop on "Measurement and Simulation of Sediment Transport by Wind" at Trent University on September 17-18<sup>th</sup> where they will demonstrate and discuss a wide range of field and laboratory equipment. In August we will hold our first joint meeting with AQQUA in Montreal (August 22-27<sup>th</sup>). There will be a special Session on Wednesday 23<sup>rd</sup> with invited speakers on importance of the Québec and Canadian Contributions to studies of the Quaternary over the last 30 years. The special CGRG-AQQUA session on Global Change during the Holocene (organised by M. Lamothe and myself) will take place on the 24<sup>th</sup>, as will the J.R. Mackay

lecture and presentation. The CGRG AGM will follow the J.R.MacKay lecture.

The final day of papers will consist of papers on general topics. If individuals have interest in organising special sessions (e.g. on geomorphic processes) they should contact Michel Lamonthe as soon as possible.

In 2001 CGRG will meet with CAG during their 50<sup>th</sup> Anniversary meeting at McGill University. At the present time we are planning to organise several special sessions dealing with Geomorphology in Canada over the last 50 years. If you have ideas about potential speakers or programme items please contact me as soon as possible. CANQUA will also meet in 2001 in Whitehorse in early summer and it is likely that CGRG will organise a special session on permafrost related topics. Interested people should contact Dr. Chris Burn (crburn@ccs.carleton.ca)

### **Millennial Musings- Registration, Reallocation and the Future.**

I would like briefly to bring a couple of matters to your attention which will likely be of considerable significance to CGRG and its members over the next few years. CGRG is a young organisation that is interdisciplinary but has firm disciplinary roots and will face some identity crises in the next few years. Changes in funding priorities for both government and university sciences plus the rise of professional accreditation will lead to major new challenges. The registration issue for professional geoscientists has been a contentious debate for many years and the experience has differed radically between provinces. Alberta and BC have had professional registration for some time, though with quite different rules. The Canadian Council of Professional Geoscientists was formally established in 1997 and set up a Canadian Geoscience Standards Board to review the requirements for professional geoscience registration. This Board has now developed a draft set of guidelines for the academic background required to qualify as professional geoscientists. These are posted on their web site ([www.ccpge.ca](http://www.ccpge.ca)) and should be mandatory reading for all academic or professional geomorphologists. Three areas of specialisation are suggested- geology, geophysics and environmental geosciences with recommended syllabi for each. The present generation of geomorphologists have diverse disciplinary expertise that traditionally derives from geographical, geological or Quaternary backgrounds.

In future, most geomorphologists will qualify for professional registration through the environmental geoscience or geology section of the syllabus. It is clear from the CCPG documents that future professional practitioners of geomorphology will require a basic science degree with an earth science focus. As with various provincial guidelines (see Chris Burn's report on the Ontario situation in the June Newsletter), registration in environmental geosciences will not be equally accessible from different disciplines. This has profound implications for the organisation of some of our undergraduate programmes, especially in geography departments. Although registration remains a provincial matter, the need for transferability and portability will probably lead to some convergence in the requirements between provinces towards the nationally recommended models. Once these provincial and national guidelines become operational there will be a move to tailor programs to fit these requirements. All academic geomorphologists should look at the CCPG's recommended syllabi and examine the implications for their own programmes and students. Development of compatible undergraduate programmes will require compromise and collaboration between departments on every campus where geomorphology is a viable concern. It is bound to lead to difficult decisions about programs (as recent history demonstrates) that will change the face of our discipline over the next decade.

In a related matter, the two NSERC Earth Sciences Granting committees have not been very successful in the last two grant reallocation exercises. This is a matter of great concern to all geomorphologists who should make every effort to represent their views to the new Earth Sciences Liaison Committee (ESLC) recently struck by NSERC in preparation for the next reallocation exercise. I hope many of you responded to their initial questionnaire early in January. I anticipate there will be future "consultative meetings" organised by the Committee, for example at GeoCanada 2000.

The New Year is a time to face the future. The pundits suggest that the 21<sup>st</sup> century will be one of continuous change where everything that was familiar to us in our formative years will disappear during our lifetimes. With its new tools and approaches, geomorphology is stronger now than it has ever been, but it is the responsibility of all of us to carry our discipline forward through the challenging times that

lie ahead. I look forward to working with you for CGRG over the next year.



Cheryl McKenna-Neuman admires the liquid part of the J. R. Mackay award.

### **Mot du président**

#### **Activités récentes et prochaines du CGRG**

Bienvenue dans le 21<sup>ème</sup> siècle! En écrivant ce texte, je me dis que nous avons été plus atteints par le bogue de la grippe que par celui de l'an 2000. L'année 1999 en fut une très bonne pour le CGRG. Elle a vu notre première publication, un atelier à Vancouver en mars, une excursion de terrain en association avec le CAG en juin et une excellente réunion conjointe avec la CANQUA à Calgary à la fin d'août. Malgré le manque de logement sur le campus (le comité d'organisation n'y est pour rien), Derald Smith et ses collègues ont organisé un excellent congrès avec plusieurs innovations intéressantes (café gratuit et beignets pour faire sortir les troupes le matin, un repas style banquet sans cérémonie, et les excursions de terrain gratuites). Les principaux événements furent un colloque en l'honneur de Nat Rutter commandité par CANQUA, la session du CGRG sur " la réponse géomorphologique à la variabilité du climat et aux événements extrêmes: enregistrements, processus et modèles du Tardi-Glaciaire au 21<sup>ème</sup> siècle " (organisé par Steve Wolfe et Christian Bégin) et la

présentation de Cheryl McKenna-Neuman pour le prix J.R. Mackay sur " La restriction d'approvisionnement de particules dans les systèmes éoliens de transport: comment les surfaces humides, grumeleuses et durcies gâchent les modèles de transport éolien". Il y avait 146 présentations orales et affiches et plus de 180 participants lors de la réunion. Plus de 190 personnes ont participé aux différentes excursions. Nous devons aussi féliciter Derald et son équipe pour avoir fait de la réunion un succès aussi bien financier qu'académique. Le CGRG et la CANQUA acceptent avec reconnaissance les généreux dons versés par le comité organisateur de Calgary.

En débutant ce nouveau siècle, il est important de maintenir nos activités et notre visibilité dans la communauté des sciences de la terre en faisant connaître le CGRG. Mon prédécesseur, John Clague a fait un travail exceptionnel en faisant publier des articles sur le CGRG dans le *Geolog*, *Zeitschrift für Geomorphologie* et le bulletin du CGU ces derniers mois. De nombreux événements sont prévus pour les années à venir de façon à maintenir ce niveau d'activités. Le CGRG (en collaboration avec le CGU et le GAC) commandite une session spéciale du congrès GeoCanada 2000 à Calgary sur "Les risques naturels: progrès vers la caractérisation et la rémediation" (organisée par Steve Evans et John Clague). Nous espérons également obtenir des copies de l'édition spéciale de *Geomorphology* intitulée "Canadian Geomorphology 2000" (éditée par Olav Slaymaker et John Clague) maintenant disponible. Cheryl McKenna-Neuman et Bill Nickling tiendront un atelier sur "Mesure et simulation du transport des sédiments par le vent" à l'Université Trent les 17 et 18 septembre où ils présenteront une grande variété d'équipements de terrain et de laboratoire. En août nous tiendrons notre première réunion conjointe avec l'AQQUA à Montréal (du 22 au 27 août). Une session spéciale aura lieu mercredi le 23 avec des conférenciers invités sur l'importance des contributions du Québec et du Canada aux études du Quaternaire depuis une trentaine d'années. Il y aura une session spéciale CGRG-AQQUA sur les changements climatiques pendant l'Holocène (organisée par M. Lamothe et moi-même) qui aura lieu le 24 et elle sera suivie de la conférence du prix J.R. Mackay et de l'AGM du CGRG. Les conférences présentés lors de la dernière journée porteront sur des sujets d'intérêt général. Les personnes intéressées à organiser une sessions spéciales (par exemple sur des

processus géomorphiques) devraient contacter Michel Lamothe le plus tôt possible.

En 2001 le CGRG se joindra au CAG pour son cinquantième anniversaire à l'Université McGill. Nous sommes en train de planifier l'organisation de plusieurs sessions spéciales traitant de la géomorphologie au Canada au cours des 50 dernières années. Si vous avez des conférenciers ou des thèmes à suggérer, contactez-moi aussitôt que possible. Le CANQUA se réunira également en 2001 à Whitehorse au début de l'été et il est probable que le CGRG organise une session spéciale sur des sujets associés au pergélisol. Les personnes intéressées devraient contacter le Dr Chris Burn ([crburn@ccs.carleton.ca](mailto:crburn@ccs.carleton.ca)).

### **Réflexions du millénaire - Accréditation, Redistribution et le Futur.**

Je voudrais porter brièvement à votre attention quelques sujets qui prendront probablement une grande importance pour le CGRG et ses membres au cours des années à venir. Le CGRG est une jeune organisation interdisciplinaire, qui a de fortes racines disciplinaires mais qui aura à faire face à quelques crises d'identité dans les années à venir. Les changements de priorités dans les fonds accordés pour les sciences au niveau gouvernemental et universitaire plus l'augmentation d'accréditations professionnelles mèneront à de nouveaux défis majeurs. L'accréditation des géologues professionnels a été un sujet de discussions controversées pendant plusieurs années et l'expérience a été vécue différemment d'une province à l'autre. L'Alberta et la Colombie-Britannique acceptent les professionnels depuis quelques temps avec cependant des règlements tout à fait différents. Le Conseil canadien des géologues professionnels a été officiellement créé en 1997 et a établi le Conseil des normes canadiennes en sciences de la terre pour réviser les conditions d'accréditation des professionnels en sciences de la terre. Ce conseil a ébauché un ensemble de directives concernant la formation académique requise pour être reconnu comme professionnels en sciences de la terre. Ces directives se retrouvent sur leur site Web ([www.ccpq.ca](http://www.ccpq.ca)) et devraient être obligatoirement lues par tous les géomorphologues qui enseignent ou qui travaillent dans ce domaine. Trois domaines de spécialisation sont suggérés- la géologie, la

géophysique et les sciences en environnement avec des programmes recommandés pour chacun. La génération actuelle de géomorphologues est multidisciplinaire, conséquence des études en géographie, géologie ou Quaternaire. Dans l'avenir, la plupart des géomorphologues seront accrédités comme professionnels par leur formation en sciences de l'environnement ou en géologie. Des documents émis par le CCPG, il ressort clairement que les futurs géomorphologues devront avoir acquis les connaissances de base en science avec une spécialité en sciences de la terre. À cause des différentes directives provinciales (voir le rapport de Chris Burn sur la situation en Ontario dans le bulletin de juin), l'accessibilité aux sciences de l'environnement ne sera pas la même pour toutes les disciplines. Cet état de fait complique l'organisation de certains de nos programmes de premier cycle, particulièrement dans les départements de géographie. Bien que l'accréditation demeure du domaine provincial, les besoins de déplacements mèneront probablement à une certaine convergence dans les conditions entre les provinces vers les modèles nationalement recommandés. Une fois que ces directives provinciales et nationales deviendront opérationnelles, on devra façonner les programmes de façon à les rendre conformes à ces conditions. Tous les enseignants en géomorphologie devraient consulter les programmes recommandés par le CCPG et prendre conscience des implications pour leurs propres programmes et étudiants. Le développement de programmes de premier cycle compatibles exigera des compromis et la collaboration de tous les départements concernés. Des décisions difficiles devront être prises concernant les programmes (comme l'histoire récente le démontre) qui changeront la face de notre discipline pendant la prochaine décennie.

Dans le même ordre d'idée, les deux comités subventionnaires en sciences de la terre du CRSNG n'ont pas remporté beaucoup de succès lors des deux derniers exercices de redistribution de subventions. Tous les géomorphologues devraient s'efforcer de faire connaître leurs points de vue au nouveau Comité de liaison des sciences de la terre (CLST) qui doit se représenter au prochain exercice de redistribution. J'espère qu'un bon nombre d'entre vous ont répondu à leur questionnaire en janvier. Je prévois de futures "réunions consultatives" organisées par le Comité, par exemple à GeoCanada 2000.

Le début de l'année est la période pour regarder vers le futur. Les grands pontifes prévoient que le 21ème siècle sera un siècle de changements continus où tout ce que nous avons appris et qui nous est devenu familier disparaîtra avec le temps. Avec ses nouveaux outils et ses nouvelles approches, la

géomorphologie est plus forte maintenant qu'elle ne l'a jamais été, mais chacun de nous a la responsabilité de défendre cette discipline et de surmonter les obstacles qui se dressent devant nous. Il me fera grand plaisir de travailler avec vous pour le CGRG tout au long de cette année.

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### SECRETARY-TREASURER'S REPORT

Membership in CGRG is slowly increasing, thanks to a large degree to demonstrated success stories in the form of meetings, field trips and workshops. Numbers now stand at 165. 81 joined through the GAC, 67 through CAG, 12 through AQQUA, and 23 directly with CGRG. Some people even joined twice. For all those who register directly through CGRG, **its time to renew your membership**. The application form is included in the newsletter, as is a list of members as of Dec 31. Please report any errors to me.

The executive had discussed whether to reduce dues or not, particularly for students; however, since the membership fee is not high, and since we are just breaking even on an average year, we decided to keep things as before. This past year we grossed \$4210,

and spent \$4328. However, we have since received an additional \$2370 from profits from the last, highly successful CANQUA-CGRG meeting. This money will go towards sponsoring other meetings and workshops.

How to reach us: You are encouraged to contact any of the executive about newsletter items at the addresses shown at the end of the newsletter, or by Email. Newsletter items should ultimately be sent to Lynda Dredge or Yves Michaud.

Lynda Dredge

### AN IMPORTANT MESSAGE FOR THE FASHION-CONSCIOUS

There are still a few T-shirts in stock, pale grey and proudly displaying the CGRG crest. There are several Large, and 8 that are XL. To order one, send an

Email to Lynda Dredge to check if any are still available. The cost is \$12. If there is sufficient demand, there will probably be a second printing.

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### THE CANQUA-CGRG MEETING: THANKS AND ADVICE FROM THE CHIEF-PUSH

On behalf of the Canadian Quaternary Association and the Canadian Geomorphology Research Group conference organizing committee, I personally want to thank all conference participants for their tremendous support in making this gathering so successful. The symposium in honour of retiring Dr. Nathaniel Rutter, organized by Norman Catto, David Liverman and Peter Bobrowsky, added considerably to the overall success of the meeting. The conference had 10 different well-attended field trips over 17 days, involving 196 persons. There were 146 oral and poster presentations and total attendance was 178, some from as far away as Australia and Sweden. Overall, I believe that this joint meeting was the most successful to date in terms of field trip offerings, numbers of papers presented, exceptionally high quality posters, attendance, benefits to participants and final financial balance (approximately \$7000

after expenses). The positive financial balance was made possible due to the generous volunteerism and "sweat equity" provided by the organizing committee and field trip leaders. While I realize that such efforts usually go unacknowledged and unrewarded, conference participants should be most grateful for their assistance.

#### Hot tips for others organizing conferences

1. Conferences should have an aggressive promotion, possibly by having a poster presented or flyers distributed at the CANQUA-CGRG joint conference two years in advance;
2. It is now quite easy and effective to advertise meetings on the CANQUA, CGRG, CAG, GAC, AMQUA, GSA (Quaternary Geology and Geomorphology Division) and INQUA listservers;

3. The method of electronic registration and abstract submission needs careful attention; abstracts need to be formatted consistently (fonts and letter sizes need to be uniform), and people need to state whether they are making oral or poster presentations then stay with their choice;
4. It is absolutely essential to have only one person look after registration and communication with registrants;
5. It is a good idea to have only one person handle finances, and they must co-ordinate with field trip organizers to secure vehicles and persons in charge of other activities;
6. Provide a lunch (pizza and refreshments) for general business meetings. People come to a 'free' lunch;
7. Try to avoid concurrent sessions, although some may be necessary for 3-day conferences;
8. Try to hold the conference at university facilities to reduce registration costs and maximize benefits to participants;
9. Set times for presenters to be at their posters for discussion questions;
10. A reception in lieu of a banquet should seriously be considered because it can greatly reduce the costs, by half; also, a reception can provide a more comfortable and congenial atmosphere especially with live music in the background.
11. Make sure on-campus housing is available

**Some of the conference activities that worked well at Calgary :**

1. a web site for all oral and poster session schedules and field trips;
2. e-mail to communicate with speakers and poster presenters;
3. the five day meeting with Wednesday, the middle day, set aside for field trips (5 one day trips, all free), possibly short courses, or a free day for people to relax and recharge their enthusiasm (strongly recommended); however, a 3-day format is still recommended
4. conference break refreshments and posters located in the same room(s);
5. all posters up for the duration of the conference;

6. an early morning (half hour before the first paper) free light breakfast available (coffee, tea, juice, muffins, bagels and cream cheese, donuts, etc.) in the poster room(s);
7. adequate signs on lawns and walls to direct participants to meeting sites and reception location;
8. all meeting rooms and poster sessions in the same building, and preferably on the same floor;
9. theme sessions with invited speakers (very successful)

From: Derald Smith, Chairman and Chief Push of the CANQUA-CGRG 1999 conference, at the University of Calgary.



Derald Smith and the crew of the 'African Queen' anastomose down the Columbia, while Rob Young's team are blown away atop the Hand Hills.



**PROFESSIONAL REGISTRATION: THE STORY CONTINUES**

**Developments in Ontario licensure**

*Chris Burn recaps:* In the last newsletter I provided a short progress report on developments in Ontario and a letter to the Association of Geoscientists of Ontario

(AGO) regarding the curricular requirements, with suggestions for further improvements. The letter requested that applicants for registration as Environmental Geoscientists should have training in this area. Several points were made: (i) Soil Science should be a core requirement; (ii) distinctions should be made between hydrology and hydrogeology; (iii) those applying as "Geologists" should be recognised as distinct from "Environmental Geoscientists". The extent of elective choice means that a "Geologist" with very modest exposure to surficial earth science, could fulfill the requirements for "Environmental Geoscience registration". On June 24th, we received the following response from John Bowlby.

*John Bowlby replies:* There are several revisions to be made in the February 1999 draft in consideration of the comments received and to ensure that the Ontario position is commensurate with the recently revised national recommendations of the Canadian Geoscience Standards Board. The national recommendations are primarily to assist interprovincial mobility and transferability of professionals within Canada between the licensing jurisdictions.

A few brief responses to the items you raised.

1. Soil Science is not recommended to be included in the Core Requirements. However, it is identified in the Content Electives. An applicant may choose to use Soil Science to satisfy the qualifying content recommendation outside of the Core.

It is an opinion considered at the recent CGSB meeting that Structural Geology is important in many areas of contemporary environmental practice (e.g., contaminant migration, subsurface water supply) and that a first-level knowledge of structural geology is important to be competent in professional practice.

2. Hydrogeology and Hydrology are recommended to be kept as two separate content areas. This is because many departments provide courses in one or the other, but not both within the context of degree programs. By keeping the two separate, greater flexibility is given to the applicant. If an applicant has

both surface and subsurface knowledge, one may be designated as a Content Elective to satisfy requirements outside of the Core.

3. The distinction between different fields of professional geoscience is transparent in licensing. The preferred designation for a professional geoscientist in Ontario is "P.Geo.". This designation is to be awarded to all who meet the knowledge and experience criteria to be registered as a "professional geoscientist" with the proposed self-regulating organization, the Association of Professional Geoscientists of Ontario. Three dominant streams in geoscience, geology, geophysics and environmental geoscience, have been identified in the recommended Knowledge Requirements. The primary purpose for identifying the three streams was to make it easier for potential registrants to 'recognize' themselves within the wide area of geoscience practice. However, there are not to be separate identifying professional designations for each stream as there are also many other professional streams that could have been identified.

After registration, a member's adherence to the Code of Ethics of the professional Association will distinguish the stream or streams in which the "P.Geo." offers services. The obligation to the Association and peers is summarized in a Code of Ethics where an individual is responsible to only undertake work that he/she is properly qualified to do and has maintained competence to do. The onus is placed on the individual to be "a professional". A complaint from the public or another professional against a professional member, if found to be legitimate, could lead to a loss of privilege or license. From John Bowlby (V-P, AGO)

*Chris Burn comments:* This month (January 2000) we heard from John Bowlby that Provincial legislation for licensure of Professional Geoscientists in Ontario is being drafted. The Government of Ontario seems to be willing to introduce the legislation this year.

Submitted by Chris Burn, Department of Geography and Environmental Studies, Carleton University

## IAG NEWS

**The IAG-Symposium on Sediment Budgets in Geomorphic Systems** will be held in conjunction with the 29th International Geographical Congress in

Seoul, Korea. The Symposium will be held jointly with that of the IGU Commission on Land Degradation and Desertification. For specific

information regarding the Symposium, please contact Olav Slaymaker, E-mail: olav@geog.ubc.ca

**The IAG Working Group on Large Rivers  
Report: the International Symposium on  
Geomorphology and Palaeohydrology of the river  
Araguaia, 12-21 September 1999, Goiania, Brazil.**

The first meeting of the IAG Working Group on Large Rivers started with two full days of papers in Goiania, followed by a seven-day field excursion in the basin of the Araguaia, a river discharging into the Atlantic Ocean near the mouth of the Amazon. IAG thanks all those who were involved, especially E. Latrubesse, J.C. Stevaux, S. de Castro S. and A. Borges de Campos. The highlight of the field trip was the stay at the base camp of CENAQUA-IBAMA and the field work by means of small boats on the Araguaia, kindly made possible by the chief of the station, V.H. Cantarelli, and his colleagues.

The papers presented fell into two groups: a collection of case studies on rivers in South and Central America, and assorted papers on rivers outside this region. A striking proportion of the first group were given mainly by graduate students from Brazilian universities. The exchange of ideas and information with young geomorphologists was a characteristic feature of the meeting.

A number of incidents enlivened the field excursion: the sight of emus breaking into a rapid trot; fires destroying the cerrado vegetation caused by lightning; the reluctant disappearance of a wolf in the failing light; armadillos scrounging on distant slopes; termite mounds fluorescent in the dark; being pursued by a team of reporters from the local television station; capybaras crowding point bars; camera-carrying geomorphologists crowding a boa-constrictor on a rocky ledge; Araguaia dolphins somersaulting in the sunlight; and four crossings of the river in an open barge, three times in the company of ice cream vendors and the fourth one (on Sunday) in the company of a group of charismatic singers. Prof. Starkel was an enthusiastic participator on all occasions.

This, the first of several planned field meetings on large rivers, informed many of us about the hydrology and fluvial geomorphology of a large part of Brazil and provided a wonderful opportunity for contacts with local researchers. It is hoped that this will happen over and over again at future meetings. Attempts are being made to publish a collection of papers on the rivers of South and Central America.

from Avijit Gupta

Visit the IAG Web Site at:

<http://www.homepage.montana.edu/~ueswl/geomorphlist/index.htm>

## CONNECTIONS

### 1. CGRG website

<http://cgrg.geog.uvic.ca/>

The CGRG website has recently been updated by our web master, Dan Smith. It now serves an archival function (newsletters, past meetings) in addition to housing information on CGRG publications, the J. Ross Mackay Award, upcoming meetings, useful links and the increasingly popular Bibliography of Canadian Geomorphology. A CGRG registration form is also accessible at this site. The average number of visits to the CGRG web site currently exceeds 400 per day! This success is due in no small part to the effort, energy and commitment of Dan Smith. I would like to thank Dan on behalf of the CGRG Executive for this important service to CGRG and the geomorphology community at large.

From Tracy Brennand, CGRG Member-at-large, web liaison

### 2. CGRG Bibliography of Canadian Geomorphology

<http://cgrg.geog.uvic.ca/cgi-bin/search.cgi>

The Canadian Geomorphology Research Group Bibliography of Canadian Geomorphology is a searchable database dedicated to identifying publications describing the practice and application of geomorphology in Canada. Included within the database are annotated citations related to the fields of aeolian, applied, coastal, fluvial, glacial, hillslope, karst, periglacial, permafrost and offshore

geomorphology. The database also includes records describing Canadian Quaternary/Holocene environments and a substantial body of records related to Canadian hydrology.

From Dan Smith, CAGLIST Moderator. Email: smith@uvvm.uvic.ca

### 3. Go Dutch!

In December, 1999, the Royal Dutch Geographical Society (KNAG) opened an English-language website to provide maps, photos and information to teachers and researchers. We invite you to visit the website at [www.geography.nl](http://www.geography.nl). From J. Terwind

### 4. Canadian landscapes

<http://sts.gsc.nrcan.gc.ca/landf.htm>



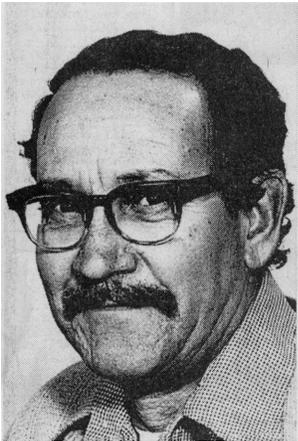
This growing collection of photos (more than 600) of Canadian landscapes and landforms is presented by Terrain Sciences Division to illustrate the great diversity of Canadian scenery. Brief explanations provide insight on how the features developed. The photos were taken by scientists of the Geological Survey of Canada during the last 30 years. Very few of these images have been published and rarely in colour. High resolution versions of many of the photos are also available.

From David Lemieux, Web Developer, Geological Survey of Canada. Email: dlemieux@nrcan.gc.c

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## PASSINGS

### Chester Broomell Beaty 1925-2000



Chester Beaty passed away on Jan 11 in Blairmore, Alberta. Dr Beaty was born in Chicago. He moved from the States to Alberta in 1969 to join the geography department at the fledgling University of Lethbridge. For the next 20 years the university was his headquarters for scholarly work, which included numerous journal articles and a book, *The landscapes of southern Alberta*. Since his retirement in 1990, Chip's interests in geography and geology were expressed in volunteer work at the Frank Slide Interpretation Centre at Crowsnest Pass. He is missed by the Alberta community.

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## NEW PUBLICATIONS

### Canadian Geomorphology 2000

"Canadian Geomorphology 2000" is a collection of nine papers, written by prominent geomorphologists,

providing state-of-the-art summaries of topics to which Canadians have given special attention over the years. The collection was sponsored by CGRG and edited by Olav Slaymaker and John Clague. It will be published by Elsevier as an issue of the journal *Geomorphology* in the spring of 2000, and will be available for sale at the Elsevier booth at GeoCanada 2000. CGRG is attempting to arrange a discounted price for members who wish to obtain the volume.

The following papers are included in "Canadian Geomorphology 2000":

- "Introduction" – John J. Clague and Olav Slaymaker
- "Chemical weathering studies and geomorphological research in southeastern" – Mireille Bouchard and Serge Jolicoeur
- "Physical controls and resulting morphological forms of ice-contact and sub-glacial volcanoes in western Canada" – Catherine J. Hickson

- "Deglacial meltwater drainage and glaciodynamics: inferences from Laurentide eskers, Canada" – Tracy A. Brennand
- "Forms, response times and variability of relative sea level curves, glaciated North America" – Arthur S. Dyke and W.R. Peltier
- "Environmental assessment from the sedimentary record of high-latitude fiords" – Robert Gilbert
- "Effects of environmental change on scree slope development throughout the postglacial period in the Chic-Choc Mountains in the northern Gaspé Peninsula, Québec" – Bernard Héту and James T. Gray
- "The Little Ice Age in the Canadian Rockies" – Brian H. Luckman
- "Soil erodibility and processes of water erosion on hillslopes" – Rorke B. Bryan
- "On large-scale flow structures in a gravel-bed river" – Thomas Buffin-Bélanger, André G. Roy, and Alistair D. Kirkbride

## UPCOMING MEETINGS

### 1. AQQUA-CGRG MONTRÉAL 2000

*The next Association Québécoise pour l'Étude du Quaternaire(AQQUA) Congress will be held at Université du Québec à Montréal, between August 22nd and August 27th, 2000. We are pleased to announce that the Canadian Geomorphology Research Group (GCRG/CGRG) has accepted to join AQQUA for the Annual Meeting. The scientific topics, field trips, and other activities are summarized in the preliminary programme*

Le prochain congrès de l'Association Québécoise pour l'Étude du Quaternaire (AQQUA) se tiendra dans les locaux de l'Université du Québec à Montréal, du 22 au 27 août de l'an 2000. Il nous fait plaisir de souligner la participation du Groupe Canadien de Recherche en Géomorphologie (GCRG/CGRG) qui tient, à cette occasion, sa réunion annuelle. Les thèmes scientifiques, excursions et autres activités sont résumés dans le programme préliminaire.

MARDI LE 22 AOÛT  
Excursion pré-congrès

TUESDAY, AUGUST 22ND  
*Pre-meeting Field Trip*

LA GÉOLOGIE ET LA GÉOMORPHOLOGIE QUATÉNAIRE DES BASSES LAURENTIDES (NORD DE MONTRÉAL)  
*QUATERNARY GEOLOGY AND GEOMORPHOLOGY IN THE LOWER LAURENTIANS  
(NORTH OF MONTRÉAL)*  
A. Bolduc et M. Ross (CGQ/GSC).

Réception de bienvenue

*Ice Breaker*

MERCREDI LE 23 AOÛT  
L'AQQUA: Rétrospective 1968-2000  
Les technologies du nouveau millénaire

WEDNESDAY, AUGUST 23RD  
*AQQUA : a 30 years retrospective  
New Millenium Technologies*

Assemblée générale AQQUA  
Médaille ANDRÉ-CAILLEUX  
Award

*General Meeting AQQUA  
ANDRÉ-CAILLEUX*

JEUDI LE 24 AOÛT  
Processus récents de surface  
et Changements Planétaires

THURSDAY, AUGUST 24TH  
*Recent Surface Processes  
and Global Changes*

Assemblée générale GCRG  
Médaille JOHN ROSS MACKAY

AGM CGRG  
JOHN ROSS MACKAY Award

*Banquet*

VENDREDI LE 25 AOÛT  
Session générale  
Séance d'affichage

FRIDAY, AUGUST 25TH  
*General Session*  
Poster session

"Pôt de cloture" & Prix de l'AQQUA

SAMEDI ET DIMANCHE  
26 ET 27 AOÛT  
Excursion post-congrès

SATURDAY AND SUNDAY,  
AUGUST 26TH AND 27TH  
*Post-meeting Field Trip*

LA STRATIGRAPHIE QUATERNAIRE DE L'ESTRIE, HAUTE VALLÉE DE LA RIVIÈRE SAINT-FRANÇOIS  
*QUATERNARY STRATIGRAPHY IN THE UPPER SAINT-FRANÇOIS RIVER VALLEY, EASTERN TOWNSHIPS*  
M. Lamothe, B. Rameseder (UQAM) et F. Hardy (CGQ)

LES RÉSUMÉS DOIVENT NOUS PARVENIR AVANT LE 1ER MAI, 2000

*ABSTRACTS ARE DUE FOR MAY 1ST, 2000*

Une invitation spéciale est lancée aux étudiants pour effectuer une présentation orale et ainsi se qualifier pour le prix de l'AQQUA d'une valeur de \$ 500 pour la meilleure contribution étudiante.

*Students are strongly encouraged to submit an oral communication in order to participate to the "Prix de l'AQQUA" contest, where \$ 500 will given to the best presentation.*

Pour plus d'information, svp consultez le site web de l'AQQUA

*For more information, please visit the AQQUA web site*

<http://www.unites.ugam.ca/sct/AQQUA/bulle.htm>

Michel Lamothe

## **2. CAG2000 - Special session Coastal and Ocean Management Study Group**

The CAG Coastal and Ocean Management Study Group is pleased to sponsor a special session at the CAG 2000 conference to be held at Brock University from May 29 to June 3, 2000. The sessions will focus on all aspects of geographic research related to coastal and marine environments in Canada, including physical aspects, biology, human and resource uses, planning and management issues.

In addition, a set of papers from these sessions could be prepared for submission to a future special issue of an academic journal. Interested presenters should

submit copies of their abstracts to the CAG 2000 Conference Organizers as per instructions in the recent CAG Newsletter and by the deadline of February 15, 2000. For more information or to submit an abstract for this session please contact: Dr. Patrick Lawrence. plawren2@utnet.utoledo.edu

## **3. CAG2000 - Geography of the Great Lakes**

The Great Lakes Geographer is pleased to sponsor a special session at the CAG 2000 conference to be held at Brock University from May 29 to June 3, 2000. The sessions will focus on geographic research related to the Great Lakes.

Interested presenters should submit copies of their abstracts to the CAG 2000 Conference Organizers as per instructions in the recent CAG Newsletter and by the deadline of February 15, 2000. Please indicate on your submission form that the paper is intended for the " Great Lakes" special session. Also please send an email copy of your abstract to the Great Lakes special session chair, Dr. Patrick Lawrence.

For more information or to submit an abstract for the CAG sessions please contact: Dr. Patrick Lawrence  
plawren2@utnet.utoledo.edu

#### **4. The 30th International Arctic Workshop**

The workshop will be held on Thursday through Saturday, March 16-18, 2000 at the Institute of Arctic and Alpine Research, University of Colorado, Boulder, CO USA. The meeting will consist of oral and poster presentations covering all aspects of high-latitude environments, past and present. Please stay tuned to the Web Site:

<http://instaar.colorado.edu/AW2000/>

#### **5. The Canadian Water Resources Association**

(CWRA) will be holding their 53<sup>rd</sup> Annual Conference in Saskatoon at the Radisson Hotel on June 21 to 23, 2000. The conference theme is "PROMOTING EFFECTIVE WATER MANAGEMENT: SCIENCE MEETS POLICY". Information on the conference may be viewed on CWRA's website" <http://www.cwra.org/> Key themes include: Wetlands: Conservation and Drainage; Climate Change and Variability; and Riparian Management. Deadline for submissions of paper or posters is January 15, 2000. For more information on the technical program please contact Phil Adkins (306) 975-4693 or by e-mail [adkinsp@em.agr.ca](mailto:adkinsp@em.agr.ca)

From Virginia Wittrock, e-mail: [wittrock@src.sk.ca](mailto:wittrock@src.sk.ca)

#### **6. First Joint IAH-CNC and CGS Groundwater Specialty Conference**

Montreal, Quebec, Canada October 15 to 18, 2000

This specialty conference is jointly convened by the Canadian National Chapter of the International Association of Hydrogeologists (IAH-CNC) and the Canadian Geotechnical Society (CGS) as part of the 53rd Canadian Geotechnical Conference. The goal of the specialty conference is to provide an opportunity

for hydrogeologists, geotechnical engineers, and other geoscientists to share expertise and perspectives on current and emerging groundwater issues.

The themes of the conference are :

- \* The Role of Groundwater in Ecosystems
- \* Delineation of Groundwater Resources
- \* Use and Protection of Groundwater
- \* In-situ and Laboratory Characterization Techniques
- \* Strategies for the Remediation of Contaminated Groundwater
- \* Impacts of Urban Development
- \* Agricultural and Rural Issues

For further information, or to be added to the conference distribution list, please contact Pat Lapcevic, 905-336-4597, [pat.lapcevic@cciw.ca](mailto:pat.lapcevic@cciw.ca). Additional information on Montreal 2000: The 53rd Canadian Geotechnical Conference can be found at [:www.etsmtl.ca/cgs2000](http://www.etsmtl.ca/cgs2000).

From: secretariat IAH-CNC/CGS. E-mail:  
[andrew.piggott@cciw.ca](mailto:andrew.piggott@cciw.ca) Fax: 905-336-4400

#### **7. Symposium on the Role of Erosion and Sediment Transport in Nutrient and Contaminant Transfer**

International Association of Hydrological Sciences (IAHS) & International Commission on Continental Erosion (ICCE) & UNESCO 10-14 July 2000, University of Waterloo, Waterloo, Ontario, Canada

On a global scale, there is concern for the conveyance of sediment-associated nutrients and contaminants across eroding land surfaces and into receiving waters. The rates and magnitude of nutrient and contaminant transfer vary in space and time according to the nature of the erosion process, sediment sources as well as conveyance and in-stream processes. There is a lack of knowledge regarding spatial and temporal variation of sediment sources, properties and related transport processes. Such information is required to fully understand and model the source, transport and fate of sediment-associated contaminants for management purposes. The Waterloo Symposium will contribute to UNESCO IHP-V Project 2.1 - Vegetation, Land Use and Erosion, which explicitly addresses this theme. The symposium will concentrate on the transfer of sediment associated nutrients and contaminants in terrestrial and aquatic systems. Emphasis is given to studies on basic processes of erosion and sediment transport that will

advance our understanding of chemical transport at a range of spatial and temporal scales.

For more information contact: Dr. M. Stone, School of Planning and Department of Geography, University of Waterloo. Email: [mstone@fes.uwaterloo.ca](mailto:mstone@fes.uwaterloo.ca)

## CALENDAR

### 2000

#### *February*

February 17-22, **2000 Annual Meeting of the American Association for the Advancement of Science (AAAS)**, Washington, D.C., U.S.A. Information: Program Committee, AAAS, 1200 New York Avenue, NW, Washington, DC 20005, tel. +1-202-326-6450, fax +1-202-289-4021.

#### *March*

March 5-10, **International Tree Ring Conference**, Mendoza, Argentina. Information: R. Villalba, Departamento de Dendrocronologia e Historia Ambiental, IANIGLA – CRICYT, C.C. 330, (5500) Mendoza, Argentina, tel. +54-61-287029, ext. 33, fax. +54-61-287370, e-mail [ricardo@lab.cricyt.edu.ar](mailto:ricardo@lab.cricyt.edu.ar), website <http://www.cricyt.edu.ar/congresos/dendro/index.html>.

March 16-18, **30<sup>th</sup> International Arctic Workshop**, Boulder, Colorado. Information: website <http://instaar.colorado.edu/AW2000/>

March 27-30, **Environmental Changes in Holocene Sequences – Methods, Processes, and Correlation**, Seville, Spain. Information: D. Faust, tel. +49-0-8421-93-1391-1302, e-mail [dominik.faust@ku-eichstaett.de](mailto:dominik.faust@ku-eichstaett.de).

#### *April*

April 12-16, **2<sup>nd</sup> International Symposium on Tillage Translocation & Tillage Erosion**, Leuven, Belgium. Information: D.A. Lobb, Land Resources Branch, Department of Agriculture and Rural Development, P.O. Box 6000, Fredericton, New Brunswick E3B 5H1, tel. +1-506-453-2109, fax +1-506-457-7267, e-mail [dlobb@gov.nb.ca](mailto:dlobb@gov.nb.ca).

April 24-28, **5<sup>th</sup> International Conference on Environmental Geochemistry**, Cape Town, South Africa. Information: Department of Geological Sciences, University of Capetown, Private Bag, Rondebosch, 7701 South Africa, fax. +27-21-650-3783, e-mail [5iseg@geology.uct.ac.za](mailto:5iseg@geology.uct.ac.za).

April 27-29, **Geological Society of America Cordilleran Section, Annual Meeting**, Vancouver, B.C. Information: P. Mustard, Department of Earth Sciences, Simon Fraser University, Burnaby, B.C. V5A 1S6, tel. +1-604-291-5389, e-mail [pmustard@sfu.ca](mailto:pmustard@sfu.ca), website <http://www.eos.ubc.ca/cordgsa2000/>

#### *May*

May 21-24, **AMQUA, 16<sup>th</sup> Biennial Meeting; Landscape and Biotic Responses to Climatic Variability: Future Impacts and Past Lessons**, Fayetteville, Arkansas. Information: M.J. Guccione, Geosciences Department, OZAR-113, University of Arkansas, Fayetteville, AR 72701, tel. +1-501-575-3354, e-mail [guccione@comp.uark.edu](mailto:guccione@comp.uark.edu), website <http://vishnu.glg.nau.edu/amqua>.

#### *May-June*

May 28 – June 2, **Offshore and Polar Engineering , ISOPE-2000, International Conference and Exhibition**, Seattle, Washington, U.S.A. Information: J.S. Chung, ISOPE, P.O. Box 1107, Golden, CO 80402-1107, tel. +1-303-273-3673, fax +1-303-402-3760.

May 29 – June 2, **GeoCanada 2000**, Calgary, Alberta, Canada. Information: G. Mossop, Geological Survey of Canada, 3303 – 33<sup>rd</sup> St. N.W., Calgary, Alberta T2L 2A7, tel. +1-403-292-7049, fax +1-403-292-5377, e-mail [mossop@gsc.nrcan.gc.ca](mailto:mossop@gsc.nrcan.gc.ca), website <http://www.geocanada2000.com>.

May 30 – June 3, **AGU Spring Meeting**, Washington, D.C., U.S.A. Information: AGU

Meetings Department, 2000 Florida Avenue, NW,  
Washington, DC 20009, tel. +1-202-462-6900, fax  
+1-202-328-0566, e-mail  
[meetinginfo@kosmos.agu.org](mailto:meetinginfo@kosmos.agu.org), website  
<http://www.agu.org/meetings>.

### June

June 1-3, **Paleo-Grassland Research**, Westbrook,  
Connecticut. Information: K.R.M. Beuning,  
Department of Earth and Environmental Sciences,  
265 Church Street, Middletown, Connecticut 06459-  
6067, e-mail [kbeuning@wesleyan.edu](mailto:kbeuning@wesleyan.edu).

June 2-4, **Midwest Friends of the Pleistocene**,  
Beatrice, Nebraska. Information: R. Mandel,  
Department of Geography, University of Kansas,  
Lawrence, Kansas 66045-2121, tel. +1-785-228-  
0571, fax +1-785-228-0587, e-mail  
[mandel@falcon.cc.ukans.edu](mailto:mandel@falcon.cc.ukans.edu).

June 2-6, **Circum-Arctic PaleoEnvironments**,  
Kirkjubaejarklaustur, Iceland. Information:  
<http://www.ngdc.noaa.gov/paleo/cape/cape.html>.

June 18-23, **Radiocarbon Conference**, Jerusalem,  
Israel. Information: 17<sup>th</sup> International Radiocarbon  
Conference, P.O. Box 29041, Tel Aviv 61290, Israel,  
tel. +972-3-517-5150, fax +972-3-517-5155, e-mail  
[trgt@netvision.net.il](mailto:trgt@netvision.net.il), website  
<http://www.radiocarbon.co.il/>.

June 18-24, **International Glaciological Society:  
Sea Ice and Its Interactions with the Ocean,  
Atmosphere, and Biosphere**, Fairbanks, Alaska,  
U.S.A. Information: M. Jeffries, Geophysical  
Institute, University of Alaska, 903 Koyukuk Dr.,  
P.O. Box 757320, Fairbanks, Alaska 99775-7320, tel.  
+1-907-474-5257, fax +1-907-474-7290, e-mail  
[martin.jeffries@gi.alaska.edu](mailto:martin.jeffries@gi.alaska.edu), website  
<http://www.gi.alaska.edu/>.

June 26-30, **Weathering 2000**, British  
Geomorphological Research Group. Information: W.  
Brian Whalley, e-mail [bwhalley@qub.ac.uk](mailto:bwhalley@qub.ac.uk), website  
<http://boris.qub.ca.uk/bgrg/diary/weathering2k.html>.

June 26-30, **Landslide Symposium**, Cardiff, Wales.  
Information: C. Summers, Cardiff School of  
Engineering, P.O. Box 917, Newport Road, Cardiff  
CF2 1XH, Wales, tel. +44-0-1222-874421; e-mail  
[SummersC@Cardiff.ac.uk](mailto:SummersC@Cardiff.ac.uk).

### July

July 16-22, **19<sup>th</sup> Congress, International Society for  
Photogrammetry and Remote  
Sensing: Geo-Information for All**, Amsterdam.  
Information: K.J. Beek, 4P.O. Box 6, 7500 AA  
Enschede, The Netherlands, tel. +31-53-4874214, tax  
+31-53-4874200, e-mail [beek@itc.nl](mailto:beek@itc.nl).

### August

July 31 – August 4, **Joint World Congress on  
Groundwater**, Fortaleza, Brazil. Information:  
ABAS, Ceara Chapter, Avienda Santos, Dumont,  
7700 Papicu, Tortaleza, CEP 60, 150-163, Brazil, tel.  
+55-85-2651288, fax. +55-85-2652212

August 6-17, **31<sup>st</sup> International Geological  
Congress: Geology and Sustainable Development,  
Challenges for the Third Millenium**, Rio de  
Janeiro, Brazil. Information: Secretariat Bureau, 31<sup>st</sup>  
International Geological Congress, Av. Pasteur, 404,  
Anexo 31 IGC, Urca, Rio de Janeiro, RJ, CEP  
22.290-240, Brazil, tel. +55-21-295-5847, fax +55-  
21-295-8094, e-mail [31igc@31igc.org.br](mailto:31igc@31igc.org.br), website  
<http://www.31igc.org>.

August 14-18, **29<sup>th</sup> International Geographical  
Congress**, Seoul, South Korea.

August 20-24, **8<sup>th</sup> International Paleolimnology  
Symposium**, Kingston, Ontario. Information: J.P.  
Smol or B. Cummings, Paleocological  
Environmental Assessment and Research Laboratory  
(PEARL), Department of Biology, Queen's  
University, Kingston, Ontario K7L 3N6; fax +1-613-  
553-6617, e-mail [SmolJ@Biology.QueensU.Ca](mailto:SmolJ@Biology.QueensU.Ca),  
[CummingsB@Biology.QueensU.Ca](mailto:CummingsB@Biology.QueensU.Ca),  
website <http://biology.queensu.ca/~pearl/>

August 20-28, **4<sup>th</sup> International Meeting on Global  
Continental Palaeohydrology (GLOCOPH 2000)**,  
Moscow and central part of Russian Plains.  
Information: A. Georgiadi and A. Chepalyga,  
Laboratory of Hydrology, Institute of Geography,  
Russian Academy of Sciences, GLOCOPH 2000,  
Staromonetny per., 29, 109017 Moscow, Russia, fax  
095-959-00-33. e-mail [geography@glasnet.ru](mailto:geography@glasnet.ru) or  
[georg@ipcom.ru](mailto:georg@ipcom.ru).

**AQQUA**, Montreal, Québec. Information: M. Lamothe, Département des sciences de la Terre, Université du Québec à Montréal, C.P. 8888, Succursale Centre-ville, Montréal, PC H3C 3P8, e-mail [lamothe.michel@uqam.ca](mailto:lamothe.michel@uqam.ca)

### *September*

September 4-8, **International Symposium on Mountain Lakes and Streams**, Innsbruck, Austria. Information: e-mail [hmls2000@uibk.ac.at](mailto:hmls2000@uibk.ac.at), website <http://zoology.uibk.ac.at/congress>.

September 17-27, **Karst 2000**, Marmaris, Turkey.

### *October*

October 23-27, **30<sup>th</sup> Congress, International Association of Hydrologists**, Cape Town, South Africa. Information: website <http://dec01.ngu.no/iah/>

October 23-29, **Aeolian, Fluvial, and Lacustrine Geomorphic and Sedimentary Systems**, Desert Studies Center, Zzyzx, California. Information: N. Lancaster, Desert Research Institute, Reno, NV, e-mail [Nick@dri.edu](mailto:Nick@dri.edu).

### *November*

November 13-16, **Geological Society of America Annual Meeting**, Reno, Nevada, U.S.A. Information: GSA Meetings, Box 9140, Boulder, Colorado 80301-9140, tel. +1-303-447-2020, fax +1-303-447-1133, e-mail [meetings@geosociety.org](mailto:meetings@geosociety.org), website <http://www.geosociety.org/meetings/index.htm>.

### 2001

### *August*

August 23-28, **5<sup>th</sup> International Conference on Geomorphology**, Tokyo, Japan. Information: K. Kashiwaya, Department of Earth Sciences, Kanazawa University, Kanazawa, 920-1192 Japan, e-mail [kashi@kenroku.kanazawa-u.ac.jp](mailto:kashi@kenroku.kanazawa-u.ac.jp).

August 27-31, **3<sup>rd</sup> International Conference on Cryogenic Soils**, Copenhagen, Denmark. Information: B.H. Jakobsen, Institute of Geography, University of Copenhagen, Oster Volgade 10, 1350 Copenhagen K, Denmark, tel. +45-35322500, fax +45-35322501, e-mail [bhj@geogr.ku.dk](mailto:bhj@geogr.ku.dk).

**2000 Friends of the Pleistocene Field Trips** (see AMQUA website for up-to-date information on Friends trips: <http://vishnu.glg.nau.edu/amqua/>)

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## CONTRIBUTIONS TO FUTURE CGRG NEWSLETTERS

The CGRG newsletter is published twice annually. As with all such newsletters, its success is directly dependent on 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 either: [ldredge@nrca.gc.ca](mailto:ldredge@nrca.gc.ca), or [ymichaud@nrca.gc.ca](mailto:ymichaud@nrca.gc.ca)

CGRG was established in 1993 at the International Association of Geomorphology Congress in Hamilton, Ontario. It provides a strong voice for geomorphology in Canada. Its objectives are to advance the science of geomorphology in Canada by 1) organizing and sponsoring technical sessions, workshops, and field trips, 2) publishing newsletters twice a year, 3) operating a listserver (CANGEORG) which maintains a comprehensive bibliography of Canadian geomorphological, Quaternary, and environmental geoscience publications, 4) supporting publication of technical reports and field guides, 5) presenting the J. Ross Mackay Award in recognition of a significant achievement by a

young geomorphologist in Canada, and 6) cooperating with related earth science associations within Canada (GAC, AQQUA, CAG, CANQUA). We encourage all earth scientists with an interest in geomorphology to join CGRG

**CGRG EXECUTIVE 1999-2000**

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**CANADIAN GEOMORPHOLOGY RESEARCH GROUP**

**Registration Form**

**1999**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Postal Code: \_\_\_\_\_

Phone numbers: (Home) \_\_\_\_\_ (office) \_\_\_\_\_

e-mail address: \_\_\_\_\_

Institution: \_\_\_\_\_

Annual dues: \$15

New member \_\_\_\_\_; membership renewal \_\_\_\_\_ *Please check one*

Student \_\_\_\_\_ Academic \_\_\_\_\_ Government \_\_\_\_\_ Industry \_\_\_\_\_ *Please check one*

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

(Photocopy application form as necessary)

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

**MEMBERSHIP LIST FOR CGRG TO DECEMBER 31, 1999**