

Elements



Volume 32, Number 1

January 2014

THE NEWSLETTER OF THE CANADIAN GEOPHYSICAL UNION

In this Issue

President's Column

The Essence of the Canadian Geophysical Union

The CGU / CSSS Joint Assembly, Banff 4-8 May 2014

Report: 2014 Joint Student Meeting of the CGU Hydrology and Biogeosciences Sections

List of officers of CGU

LE BULLETIN DE L'UNION GÉOPHYSIQUE CANADIENNE

President's Column

Welcome to 2014! I am sure that the vast majority of you are already well into your new year of teaching, research or other geophysical business. Likewise, the CGU has been engaged on your behalf, advocating for the geophysical sciences in Canada and on the international stage, and working hard on the organization of our upcoming meeting in Banff. This is shaping up to be an excellent meeting, as was our last joint meeting with the Canadian Society of Soil Science. We also look forward to welcoming our colleagues attending the Mantle Convection and Lithosphere Dynamics workshop. We will be trying some new things at this meeting, including entertainment provided by certain members of the CGU Executive...

You will notice a few other subtle changes, starting with the CGU Website. Our new webmaster Pokong Lai at University of Ottawa has been

gradually implementing a migration of the CGU website to a new platform. You will hopefully see increased functionality and integration across the Section pages. Thank-you Po! My gratitude to Dr. Gordon Young, our Executive Director for coordinating this important transition, as well as maintaining all of the other important business of the Union. As CGU evolves over the next few years to become unequivocally established as the leading Geophysical Society in Canada, we will have the establishment of the Executive Director position, and Gordon Young in that position, to thank for it. On behalf of the CGU Executive, best wishes for this upcoming calendar year, and we look forward to seeing you in Banff.

Brian Branfireun



Canadian Geophysical Union

Union Géophysique Canadienne

A strong CGU is a strong voice for Canadian geoscientists. The CGU represents the interests of Canadian geoscientists in many ways, such as in organized scientific meetings, interactions with funding agencies, and in advocacy of the role of science in society and policy-making.

Earth Sciences are key to Canada's prosperity, safety, sustainability and sovereignty. Understanding the processes involved in Earth Sciences forms the basis of efficient and effective management of Earth's resources and underpins modes of lessening threats of some devastating Earth processes.

Membership in CGU implies:

- Membership in an organization dedicated to the advancement and dissemination of geophysical research;
- Opportunity to nominate, recognize, and celebrate the achievements of other Canadian geoscientists and students through various awards;
- Eligibility for receiving prestigious awards – for well-established scientists, young scientists and graduate students, as detailed on the CGU website;
- Provision of connections within and between CGU Sections through newsletter and website;
- Opportunity for members to post job openings, especially important for graduate students;
- Affordable membership fees relative to many other organizations;
- Contributions towards developing the next generation of geoscientists;
- Possible participation in regional student and other conferences.

CGU Annual Meetings provide special opportunities:

- To present current research to the geoscientific community and learn about the activities of other scientists – something particularly important to students;
- To emphasize Canadian-focused research alongside research of more general interest;
- To attend presentations on leading edge research from renowned scientists;
- To interact with other Canadian geoscientists and special Invited Speakers;
- To attend information sessions held by granting agencies;
- To be more visible to fellow Canadian geoscientists as some of them would be reviewers of grant applications;
- To enlarge social networks as Annual Meetings are often held with other organizations.

Become a member of CGU and enjoy the benefits! www.cgu-ugc.ca

Joint CGU/CSSS annual meeting, Banff, 4-8 May 2014

General information: <http://people.ucalgary.ca/~cguconf/>

Deadline for abstracts: 14 February 2014 <http://people.ucalgary.ca/~cguconf/2014webs/Call4Abstracts.htm>

Information on Sessions:

Geodesy: <http://people.ucalgary.ca/~cguconf/2014webs/2014GEODESY.pdf>

Hydrology: <http://people.ucalgary.ca/~cguconf/2014webs/2014HYDROLOGY.pdf>

Biogeosciences: <http://people.ucalgary.ca/~cguconf/2014webs/2014BIOGEOSCIENCES.pdf>

Solid Earth: <http://people.ucalgary.ca/~cguconf/2014webs/2014SOLIDEARTH.pdf>

CSSS: <http://people.ucalgary.ca/~cguconf/2014webs/2014CSSS.pdf>

Session on Advanced Geocomputations and Related Web Services:

<http://people.ucalgary.ca/~cguconf/2014webs/2014OTHERS.pdf>

CIG Mantle and Lithospheric Dynamics Workshop:

<http://www.geodynamics.org/cig/events/CIGCGU>

Best Student Paper Awards

CGU offers **nine** awards to recognize outstanding performance in scientific research and presentation by students. <http://cgu-ugc.ca/awards/best-student-paper-awards/>

Student Travel Support: <http://cgu-ugc.ca/awards/student-travel-support/>



Canadian Geophysical Union
Union Géophysique Canadienne
www.cgu-ugc.ca



Canadian Society of Soil Science
Société Canadienne de la Science du Sol
www.csss.ca

ANNUAL MEETING / RENCONTRE ANNUELLE
under the theme
ADVANCES IN GEOPHYSICAL & SOIL SCIENCES
May 4-8, 2014
Banff Park Lodge, Banff, Alberta

CGU / UGC SESSIONS ...

Geodesy & Geodynamics
Hydrology & Cryosphere
Seismo-Tectonics & Imaging
Biogeosciences & Applications
Environmental Considerations
General Geophysics & more ...

... CSSS/SCSS SESSIONS

Pedology
Organic Amendments
Meta-Analysis & Scaling-Up
Climate Change & Soil Function
Land Reclamation & Remediation
General Soil Science & more ...

jointly with the

2014 Mantle Convection and Lithosphere Dynamics Workshop
Sponsored by Computational Infrastructure for Geodynamics

www.geodynamics.org



New/Joint Sessions: contact Rod Blais at blais@ucalgary.ca

Field Trip to the Columbia Icefields on 4 May / Mai 2014

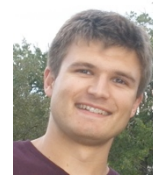
ABSTRACTS / RESUMES: 14 February / Février 2014

www.ucalgary.ca/~cguconf

Report: 2014 Joint Student Meeting of the CGU Hydrology and Biogeosciences Sections

The 2014 Joint Student Meeting of the CGU Hydrology and Biogeosciences Sections was held at the Bahen Centre on the University of Toronto campus on January 18. The meeting attracted nearly 100 attendees from 11 universities. Fifty oral presentations were given across 9 sessions, with an additional 21 posters presented. Student talks and posters were of exceptional quality. Prizes (travel mugs and iTunes gift cards) were given for exemplary talks in Hydrology and Biogeosciences, as well as for best poster.

Max Lukenbach from McMaster won the Hydrology prize for his talk
“Extreme burning in peatland margins of the Western Boreal Plain”



Honourable mention to Scott Ketcheson of Waterloo for his talk
“Snow hydrology of a constructed watershed”



Danielle Radu from Toronto won the Biogeosciences prize for her talk
“Soil porewater chemistry and phosphate mobilization during wetland restoration in a former agricultural field”.



Courtney Soden from Toronto won the poster prize for her contribution titled “Leaf hydrophobicity dynamics throughout the canopy of a mixed coniferous swamp”.



Special thanks goes to the graduate and undergraduate students in Carl Mitchell’s and Tim Duval’s research groups at the University of Toronto who organized the conference and helped make this year’s meeting a true success.

Carl Mitchell
Secretary, Biogeosciences Section

OFFICERS OF THE 2013-14 CGU EXECUTIVE COMMITTEE

PRESIDENT: Brian Branfireun, University of Western Ontario
Telephone: (519) 661-2111 ext. 89221

Email: bbranfir@uwo.ca

VICE-PRESIDENT: Claire Samson, Carleton University
Telephone: (613) 520-2600 ext. 4396

Email: claire.samson@carleton.ca

PAST PRESIDENT: Gail M. Atkinson, University of Western Ontario
Telephone: (519) 661-4207 ext. 84207

Email: gatkings6@uwo.ca

SECRETARY: Maria Strack, University of Calgary
Telephone: (403) 220-5596

Email: mstrack@ucalgary.ca

TREASURER: Richard Petrone, University of Waterloo
Telephone: (519) 884-0710 ext. 3744

Email: rpetrone@uwaterloo.ca

HYDROLOGY SECTION PRESIDENT: Sean K. Carey, McMaster University
Telephone: (905) 525-9140 ext. 20134

Email: careysk@mcmaster.ca

GEODESY SECTION PRESIDENT: Joseph Henton, Natural Resources Canada
Telephone: (250) 363-6658

Email: Joe.Henton@NRCan-RNCan.gc.ca

SOLID EARTH SECTION PRESIDENT: Philip McCausland, University of Western Ontario
Telephone: (519) 661-2111 x87985

Email: pmccausl@uwo.ca

BIOGEOSCIENCES SECTION PRESIDENT: Brett Eaton, University of British Columbia
Telephone: (604) 822-2257

Email: brett.eaton@ubc.ca

AWARDS COMMITTEE CHAIR: Cherie J. Westbrook, University of Saskatchewan
Telephone: (306) 966-1818

Email: cherie.westbrook@usask.ca

SCIENTIFIC MEETINGS COORDINATOR: Rod Blais, University of Calgary
Telephone: (403) 220-7379

Email: blais@ucalgary.ca

NEWSLETTER EDITOR: Gordon Young, Niagara on the Lake
Telephone: (905) 468-5896

Email: gordonyoung_wwap@yahoo.com

GAC GEOPHYSICS DIVISION CHAIR: Ian J. Ferguson, University of Manitoba
Telephone: (204) 474-9154

Email: ij_ferguson@umanitoba.ca

CGU WEB SITE ADDRESS: <http://www.cgu-ugc.ca>

Editor's Note: ELEMENTS, the newsletter for the Canadian Geophysical Union, is published and distributed to all CGU members twice each year; one Summer issue and one Winter issue. We welcome submissions from members regarding meeting announcements or summaries, awards, division news, etc. Advertisements for employment opportunities in geophysics will be included for a nominal charge (contact the Editor). Notices of post-doctoral fellowship positions available will be included free of charge.

Submissions should be sent to the Editor:

Gordon Young, Executive Director CGU, 34 Vincent Av., PO Box 878, Niagara on the Lake, Ont, L0S1J0; Telephone: 905 468 5896; email: gordonyoung_wwap@yahoo.com

Electronic submission is encouraged