

THE MAIN THRUST

NEWSLETTER OF THE STRUCTURAL GEOLOGY AND TECTONICS DIVISION OF THE GEOLOGICAL ASSOCIATION OF CANADA

Fall/Winter 2009/2010

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1. URGENT: Call for Submissions for the 2010 Jack Henderson Best MSc Thesis Award and Best PhD Thesis Award, and Dave Elliott Best Paper Award

These are your awards! They help to bring publicity and support the profile of structural geology and tectonics in Canada. Show that structural geology is alive and well! Nominate someone today!

Very few nominations have been received for these awards so far. Accordingly, we propose to keep nominations open for a little longer. The difficulty of obtaining nominations for these awards was discussed at the Pine Falls meeting and hope was expressed that more nominations might be forthcoming.

We are calling for submissions for the **Best MSc Thesis Award** and the **Best PhD Thesis Award**. Theses submitted to a Canadian university and successfully defended in

the 2009 calendar year are eligible. **Submissions must be received by March 31st, 2010.** A submission can be made by the thesis supervisor or by the student. It should include a “statement of nomination” letter from the supervisor, stating that the thesis was successfully defended in 2009, outlining the key contributions that it makes to structural geology and tectonics, and identifying a chapter or chapters in the thesis that are of particular excellence. In the case that the student submits a copy of the thesis, the onus is on the student to make sure that the supervisor (or a key member of the supervisory committee in the case that the supervisor is not available) submits the nomination letter. Theses for which we receive no nomination letters will not be considered for an award.

We prefer to receive theses as pdf documents by mail on a CD or DVD. Please send the theses to:

Bruno Lafrance (SGTD Vice Chair) Department of Earth Sciences Laurentian University Sudbury, Ontario, P3E 2C6 Telephone: (705)675-1151 ext 2264 Fax: (705) 675-4898 E-mail:blafrance@laurentian.ca.

We are also calling for submissions for the **Best Paper Award**. Papers written by authors based in Canada or dealing with Canadian topics and published in the 2009 calendar year are eligible. **Submission deadline is extended to March 31st 2010.** A submission should include a nomination letter and a PDF file of the paper. Submissions by the authors will also be considered. These submissions should go to:

John Waldron (SGTD Chair) john.waldron@ualberta.ca

The winners will be announced at the GAC Award Luncheon at the 2010 GAC-MAC annual meeting in Calgary.

2. Change of Chair

Shoufa Lin stepped down as chair and John Waldron of the University of Alberta was voted in as his successor. We would like to thank Shoufa Lin for his service to the SGTD. The current executives of the division are listed towards the end of this Newsletter.

3. 2009 CTG/SGTD Workshop, Manitou Lodge, Pine Falls, Manitoba

The 29th CTG meeting, co-hosted by the SGTD, was held at Pine Falls Manitoba. It was excellently organized by Chris Beaumont-Smith. The program with abstracts, the field-trip guide and a series of photos from the meeting will be available on the SGTD/CTG website. I am most grateful to Jurgen Kraus for the photographs below.



Photos: Jurgen Kraus

4. SGTD Business Meeting

A SGTD business meeting was held at SGTD/CTG 2009 at Pine Falls Manitoba. Minutes of the meeting are appended to this Newsletter.

The next business meeting will be held at GeoCanada 2010 in Calgary.

5. Preview of Calgary 2010 GeoCanada Meeting

The 2010 GeoCanada meeting will be held in Calgary from May 10 to May 14, 2010. GeoCanada will serve as the Annual Convention for:

- The Geological Association of Canada (GAC)
- The Mineralogical Association of Canada (MAC)
- The Canadian Society of Petroleum Geologists (CSPG)
- The Canadian Society of Exploration Geophysicists (CSEG)
- The Canadian Well Logging Society (CWLS)
- International Association of Hydrogeologists - Cdn. National Chapter (IAH-CNC)

The following sessions may be of particular interest to our division members.

- General Structure and Tectonics
- Cratons, Kimberlites and Diamonds
- Tectonostratigraphy
- Interplay between Thermodynamics, Kinetics and Deformation in Metamorphism
- Paleoproterozoic tectonic Assembly of the W. Canadian Shield: New Findings & Implications for Palecontinental Reconstruction
- Cordilleran Magmatism, Tectonics and Resources
- Cordilleran Fold and Thrust Belt Structural Geology and Geophysics
- Early Crust Evolution
- Geological Processes over time in Central Canada
- Meteorites
- Planetary Evolution
- Stress, Strain, Anisotropy and Natural Fractures

Several field trips may also be of interest CTG/SGTD members

- CSPG02FT Structures and Hydrocarbons in the “Undeformed” Southern Plains
Leader: Marian Warren. Dates: May 4 - 5, 2010.
- GAC010FT Barrovian and Buchan Metamorphism and their Tectonic Juxtaposition, southeastern British Columbia. Leader: David R.M. Pattison, David P. Moynihan & Christopher R.M. McFarlane. Dates: May 13 - 16, 2010.
- CSPG13FT Turtle Mountain (Crownsnest Pass) Structure trip “The Rise and Fall of Turtle Mountain” Leader: Willem Langenberg & Tim Hartel. Dates: May 14 (pm) - 15, 2010
- CSPG16FT From Turner Valley to the Calgary Landslide: Three Ages of Deformation Laramide, Pleistocene and Present. Leader: Peter Jones. Dates: May 17, 2010

Additional information and registration are available on the GeoCanada Web site at <http://www.geocanada2010.ca/>

6. GAC/MAC Joint Annual Meeting Ottawa 2011

We received the following from Mike Villeneuve, Short Course Organizer for the 2011 meeting:

As you know, the Ottawa 2011 GAC-MAC-SEG-SGA is less than one and a half years away and, as short course coordinator, I am now actively soliciting plans for short courses or workshops to precede or follow the meeting.

As a division in GAC, I am hopeful that CTG/SGTD will be contributing a short course or as an alternative, a workshop which is a format that we are encouraging in order to test their utility and viability for future meetings. At this stage, it

would be useful to simply have a title, organizer(s) and one paragraph description so that the information could be provided for the second circular and at this year's GAC-MAC meeting.

While short courses and workshops will need to be financially self-sustaining, I am here to help facilitate the local planning aspects and help ensure their success.

Thanks very much and I look forward to hearing from you.

Mike Villeneuve

If anyone has any ideas for short courses or workshops, feel free to send them to us or directly to Mike Villeneuve: Mike.Villeneuve@NRCan-RNCan.gc.ca. If your idea is for something that falls within the area appropriate for the Structural Geology and Tectonics Division, pass it on to one of your councillors or to the chair (john.waldron@ualberta.ca) and we can discuss it at the May meeting or before.

7. 2010 CTG/SGTD 30th Anniversary Fall Workshop (British Columbia)

The 2010 CTG/SGTD meeting will be held in British Columbia, in the Okanagan area, looking at low-angle fault zones. It will be organized by Lori Kennedy (UBC) and the field trip will be led by Sarah Brown, who did her Ph.D work in the area. Updates on the meeting will be posted on the SGTD/CTG's website.

8. Winners of the 2009 Awards

The award for best PhD thesis was given to Stefan Kruse, who also has won the Governor General's Gold Medal of the University of New Brunswick. The title of the thesis is "Structural Evolution of the northern Thor-Odin Culmination, Monashee Complex, southern Canadian Cordillera." It was supervised by Paul Williams. The Jack Henderson Award for Best M.Sc. Thesis was not awarded because of the small number of submissions received. Submissions in 2009 will be carried over to the 2010 competition.

9. New Web Site

Following last fall's recommendation, our fearless webmaster Jürgen Kraus is working on a revamping of the CTG - SGTD website. GAC divisions are eligible for space on the GAC servers at Memorial University. CTG material can also be housed there, and the new site should be much easier to update than the old. The new site should be active soon, with url: <http://gac.esd.mun.ca/sgtd>

We will of course leave an appropriate automatic redirection in place at the old site for as long as necessary.

10. Greetings and a belated 'Happy New Year' from All Current SGTD Executive and Councillors

Chair: *John Waldron*, University of Alberta

Vice Chair: *Bruno Lafrance*, Laurentian University

Secretary: *Jürgen Kraus*, Mortal Oil Ltd.

Treasurer: *Andy Okulitch*, GSC (Vancouver)

Councillors:

Dan Gibson, Simon Fraser University

Lyal Harris, Institut national de la recherche scientifique

Edith Martel, Northwest Territories Geoscience Office

Joseph C. White, University of New Brunswick

Appendix. Minutes of the SGTD Business Meeting at CTG/SGTD 2009, Pine Falls MB

Structural Geology and Tectonics Division of the Geol. Assoc. of Canada

Meeting held at Manitou Lodge, Pine Falls, Manitoba, during the 29th annual joint fall workshop of the Canadian Tectonics Group

Chaired by SGTD chairman Shoufa Lin

Minutes recorded by SGTD secretary Jürgen Kraus

11 members in attendance:

Chris Beaumont-Smith, Sharon Carr, Dazhi Jiang, Marie Louise Hill, Lori Kennedy, Jürgen Kraus, Willem Langenberg, Shoufa Lin, Fried Schwerdtner, Philip Simony, Paul Williams.

Meeting called to order at 20:43 pm

Agenda:

1. Turtle Mountain field trip for GAC/MAC 2010 Calgary
2. CTG/SGTD website: hosting and software
3. Sponsoring students for CTG/SGTD workshops
4. Jack Henderson award Best PhD thesis
5. Jack Henderson award Best MSc thesis
6. SGTD medal for lifetime achievement
7. Election of new SGTD chairman
8. 2010 workshop in B.C.

1. Turtle Mountain field trip for GAC/MAC 2010 Calgary

Willem Langenberg offered to lead a field trip to the Frank Slide (with Tim Hartel). Paul Williams supported it and it was adopted unanimously.

2. CTG/SGTD website: hosting and software

Jürgen Kraus suggested to purchase labour-saving software for \$100 USD (Rapidweaver) for the CTG/SGTD website, and inquire to move the website to the GAC server – including obtaining server access. Both were adopted.

3. Sponsoring students for CTG/SGTD workshops

Fried Schwerdtner suggested partial funding for a reasonable number of graduate students to attend the CTG/SGTD fall workshops. It was discussed to fund a maximum number of three students with a total of \$1000 annually. Focus should be on local graduate students.

The money should come in equal parts from CTG/SGTD workshop surpluses and from the SGTD funds. The division's annual income is \$800-900 from \$10 per person membership fees. Chris Beaumont-Smith seconded the motion and it was adopted unanimously.

4. Jack Henderson award Best PhD thesis

The award was given to Stefan Kruse, who also has won the Governor General's Gold Medal of the University of New Brunswick. The title of the thesis is "Structural Evolution of the northern Thor-Odin Culmination, Monashee Complex, southern Canadian Cordillera." It was supervised by Paul Williams.

5. Jack Henderson award Best MSc thesis

Not awarded this year. There was only one submission and the committee felt strongly to carry the thesis over into next year's pool. Better advertising for this competition was recommended.

6. SGTD medal for lifetime achievement

Shoufa Lin proposed a medal for lifetime achievement jointly awarded by the CTG/SGTD annually.

- Recipients must be based in Canada or others who have made outstanding contributions to Canadian Structural Geology and Tectonics
- Make the dinner at the annual CTG/SGTD workshop as an award dinner in honour of the recipient. Alternatively, the workshop itself can be held in his/her honour.
- Details to be worked.

Designing the medal costs about \$1500 and additional copies are rather inexpensive. Lori Kennedy seconded and it was adopted unanimously.

7. Election of new SGTD chair

Shoufa Lin stepped down as chair and John Waldron of the University of Alberta was voted in as his successor – unanimously. Chris Beaumont Smith suggested the candidate and Philip Simony seconded it. Thank you Shoufa! Welcome John!

8. 2010 workshop in B.C.

Lori Kennedy volunteered to co-host the next meeting in B.C., possibly with Dan Gibson, in the interior (Kelowna area). Stay tuned!

The meeting was adjourned at 22:45.