

# THE MAIN THRUST

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

Fall/Winter 2005

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### **1. Change of Executives and Councillors**

At the business meeting held in May, 2005 (at the Halifax GAC-MAC), Dr. Joe White stepped down as the division chairman and Dr. Shoufa Lin was elected as the new chairman. Drs. Keith Benn, Bill Fyson and Shoufa Lin completed their terms as councillors, and Dr. Bruno Lafrance and Ms. Edith Martel were elected as new councillors. Dr. Joe White will serve as a councillor as the “past chairman”. We would

like to thank Drs. White, Benn and Fyson for their service to the SGTD. The current executives of the division are listed at the end of this Newsletter.

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## 2. SGTD/CTG Website Update

The SGTD/CTG (Canadian Tectonics Group) website ([www.brocku.ca/ctg/](http://www.brocku.ca/ctg/)) was updated by SGTD Secretary Jürgen Kraus. The website includes items such as Profile, News, Upcoming, E-mail list (SGTD/CTG listserver), Main Thrust (the SGTD Newsletter), Pictures, Members, Awards, Archive, Downloads and Links, and is a valuable source for information concerning past and present activities of SGTD and CTG.

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## 3. 2005 CTG Workshop, Orillia, ON

The 25th CTG meeting was held in the Orillia area, central Ontario, on October 28-30, 2005. It was organized by Fried Schwerdtner and Pierre Robin (University of Toronto), Dennis Waddington (Waddington Consulting Ltd.), and Vince Vertolli (Royal Ontario Museum). Over 50 delegates from as far as Vancouver in the west and Halifax/Boston in the east attended the meeting. A report on the meeting, prepared by Jürgen Kraus, has been published on GEOLOG and is available at [www.gac.ca/PUBLICAT/GEOLOG/geolog\\_vol34\\_no4.pdf](http://www.gac.ca/PUBLICAT/GEOLOG/geolog_vol34_no4.pdf). Program with abstracts, the field-trip guide and a series of photos from the meeting will be posted on the SGTD/CTG website ([www.brocku.ca/ctg/](http://www.brocku.ca/ctg/)).



#### **4. SGTD Business Meetings**

Two SGTD business meetings were held in 2005, at GAC-MAC 2005 in Halifax, NS and CTG 2005 in Orillia, ON. Minutes of the two meetings are appended to this Newsletter.

The next business meeting will be held at GAC-MAC 2006 in Montreal. Please attend.

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#### **5. Preview of Montreal 2006 GAC-MAC Joint Annual Meeting**

The SGTD will sponsor the following two sessions at the upcoming GAC-MAC meeting in Montreal (May 14-17, 2006):

(1) Orogenic fronts: definition and characterisation

Organized by Sandrine Caderon (MRNF), Phil Thurston (Laurentian U.) and Toby Rivers (Memorial U.).

(2) Secular change in tectonic processes

Organized by Andrew Hynes (McGill U.) and Tom Skulski (GSC-Ottawa).

Additional information is available on the GAC website [www.gac.ca](http://www.gac.ca). Abstract deadline is January 23, 2006.

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#### **6. Preview of the 2006 CTG Fall Workshop**

The 2006 CTG meeting will be held in the west at Crow's Nest Pass, AB, on Oct. 13-15, 2006. The principal organizer is Willem Langenberg with help from Deborah Spratt and Philip Simony. Updates on the meeting will be posted on the SGTD/CTG's website ([www.brocku.ca/ctg/](http://www.brocku.ca/ctg/)).

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#### **7. Preview of the Yellowknife 2007 GAC/MAC Joint Meeting**

Yellowknife 2007 will feature symposia and special sessions that highlight Canada's North: its climate, culture, mining heritage, and future. Session themes under consideration include:

- Geology of Canada's North
- Climate Change
- Precambrian Volcanism
- Mine Reclamation
- Northern Energy
- Resource Assessments
- Remote Sensing in Arctic and Sub-arctic Regions
- Recent Advances in the Geology of Laurentia

- Diamonds & Kimberlites
- Mackenzie Valley Geology
- Geo-Outreach: Challenges and Successes
- Permafrost Technical Section

*Ideas on additional special sessions are welcome.*

Information is available at [www.nwtgeoscience.ca/gac-mac](http://www.nwtgeoscience.ca/gac-mac).

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## **8. Winners of the 2004 Jack Henderson Best Thesis Awards**

### **Best PhD Thesis:**

*Dr. Joe English* of the University of Victoria

Thesis Title: Convergent Margin Tectonics in the North American Cordillera: Implications for Continental Growth and Orogeny

Supervisor: *Dr. Stephen Johnston*.

### **Best MSc Thesis:**

*Mr. Todd Noble* of Queens University

Thesis Title: Structural Evolution and Imaging of Fold-Thrust Structures in Analog Models deformed in a Large Geotechnical Centrifuge

Supervisor: *Dr. John Dixon*.

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## **9. Winners of the 2003 and 2004 Dave Elliott Best Paper Awards**

**2003** (announced at 2005 GAC-MAC in Halifax):

*Borradaile, G J and Lucas, K*, 2003.

Tectonics of the Akamas and Mamonia ophiolites, western Cyprus; magnetic petrofabrics and paleomagnetism

Journal of Structural Geology, vol. 25, no.12, pp.2053-2076

**2004 – Joint Award to 2 companion papers** (also announced at 2005 GAC-MAC in Halifax):

*Beaumont, Christopher; Jamieson, Rebecca A; Nguyen, Mai H; Medvedev, Sergei*, 2004.

Crustal channel flows; 1, Numerical models with applications to the tectonics of the Himalayan-Tibetan Orogen

Journal of Geophysical Research, vol.109, no. B6, 29 p.

*Jamieson, Rebecca A; Beaumont, Christopher; Medvedev, Sergei; Nguyen, Mai H*, 2004.

Crustal channel flows; 2, Numerical models with implications for metamorphism in the Himalayan-Tibetan Orogen  
Journal of Geophysical Research, vol.109, no. B6, 24 p.

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## **10. Call for Submissions for the 2005 Jack Henderson Best MSc Thesis Award and Best PhD Thesis Award, and Dave Elliott Best Paper Award**

We are calling for submissions for the Best MSc Thesis Award and the Best PhD Thesis Award. Theses completed in the 2005 calendar year are eligible. Submission deadline is January 31, 2006. A submission can be made by the thesis supervisor or by the student. It should include a “statement of nomination” letter from the supervisor, outlining what makes this thesis outstanding, and the key contributions that it makes to structural geology and tectonics. 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, as a form of quality control. Theses for which we receive no nomination letters will NOT be considered for an award. Please send the theses to Jim Ryan (SGTD Vice Chairman, GSC Vancouver, 101-605 Robson St., Vancouver, BC V6B 5J3; Tel.: (604) 666-7756; E-mail: [jryan@nrcan.gc.ca](mailto:jryan@nrcan.gc.ca) ).

We are also calling for submissions for the Best Paper Award. Submissions will be for papers published in the 2005 calendar year and submission deadline is also January 31, 2006. A submission should include a nomination letter and a PDF file of the paper (if available). Submissions by the authors will also be considered. These submissions should go to Shoufa Lin (SGTD Chairman) by e-mail ([shoufa@sciborg.uwaterloo.ca](mailto:shoufa@sciborg.uwaterloo.ca)) (Shoufa is on sabbatical in China).

The winners will be announced at the GAC Award Luncheon at the 2006 GAC-MAC annual meeting in Montreal.

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## **11. Financial Report from SGTD Treasurer Andy Okulitch**

The division's finances remain in good health at about \$7000. A detailed report will be presented at the next business meeting at GAC-MAC'2006 in Montreal.

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## **12. CTG T-shirts for Sale**

To celebrate 25 years of CTG and to promote SGTD/CTG, T-shirts bearing SGTG/CTG logos were designed by Jürgen Kraus. They were ready for sale at the 25<sup>th</sup> CTG meeting. It is available in sizes L and XL at \$13 plus postage and packaging. Please send inquiries to [jkraus@mac.com](mailto:jkraus@mac.com).

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### 13. Seasons Greetings from All Current SGTD Executive and Councillors

**We wish you a Merry Christmas and a Happy New Year!**

**Chairman:** *Shoufa Lin*, University of Waterloo

**Vice Chairman:** *Jim Ryan*, GSC Vancouver

**Secretary:** *Jürgen Kraus*, Mortal Oil Ltd., Calgary

**Treasurer:** *Andy Okulitch*, GSC Vancouver

**Councillors:**

*Shaocheng Ji*, Ecole Polytechnique de Montreal

*Lori Kennedy*, University of British Columbia

*Bruno Lafrance*, Laurentian University, Sudbury

*Edith Martel*, Northwest Territories Geoscience Office, Yellowknife

*Joseph C. White*, University of New Brunswick

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### **Appendix A. Minutes of the SGTD Business Meeting at GAC/MAC 2005 in Halifax, NS**

*Chaired by Joe White*

*Minutes kept by Jim Ryan*

#### ***15 members in attendance***

Joe White, Jim Ryan, Andy Okulitch, Fried Schwerdtner, Phil Simony, Normand Goulet, Edith Martel, Shoufa Lin, Yvette Kuiper, John Waldron, Bruno Lafrance, Brian O'Brien, Paul Williams, Dahzi Jiang, Paul McNeill, Sharon Carr

*Normand Goulet*

Briefed the group on GAC-MAC Montreal 2006, invited us to sponsor sessions, and be willing to spend extra time in Montreal as part of the attraction for attending the meeting.

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*Edith Martel*

Briefed us on her involvement as part of the Yellowknife GAC-MAC 2007, and wanted to know what the SGTD can bring to Yellowknife. She would like to advertise the meeting in the SGTD Newsletter and Website

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*Andy Okulitch*

Briefed us on the SGTD finances. He says we are taking money in faster than we are spending it. Andy thinks we can, and should spend more.

***Action item:*** Andy will investigate interest earning on our principle.

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*John Waldron*

Suggested we could spend more on students by sponsoring attendance at short courses or field trips, or even the CTG.

*Shoufa Lin*

Interjected that sponsoring at the CTG makes sense from a cost point of view.

*Fried Schwerdtner*

Argued the CTG would be too expensive if it is held far across the country from the student.

**Motion:**

John Waldron moved, seconded by Paul Williams, for the SGTD to agree to sponsor a student to either the CTG or the GAC-MAC

**Carried:** unanimously

*Jim Ryan*

Reported that this year's Jack Henderson Prize for the Best PhD Thesis was awarded to Joe English from UVic (supervised by Steve Johnston)

Reported that this year's Jack Henderson Prize for the Best MSc Thesis was awarded to Todd Nobel from Queens U (supervised by John Dixon)

This years thesis reviewers were W. Bleeker, D. Gibson, C. Beaumont-Smith, D. Jiang, J. Waldron, and L. Goudin.

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President's Report by *Joe White*

1) CTG planning by Fried and others is going well.

- Fried Schwerdtner recommends people monitor the CTG/SGTD website for updates
- Info will be posted there as soon as Jurgen is back from a trip.
- Will be held at the Highwayman Inn, in Orillia Ont.

2) Thesis Prizes

- Presenting them at the annual GAC Luncheon has contributed to raising the profile of the of the award

3) Best Paper, Dave Elliot Prize

- 2003 –Went to Graham Borradaile and others
- 2004 – Went to Beaumont and Jamieson et al, for a pair of paper in JGR

These authors will receive a plaque and cheque

**Action item:**

Joe should act on getting the prizes out

4) Montreal 2006 Update

Joe White mentioned that several sessions remain un-sponsored, and that there is no cost implications to sponsoring. So the SGTD consider:

- Sponsoring some sessions
- Sponsoring a speaker
- Make suggestions on session chairs and organizers

5) Halifax 2005 Update

The SGTD had a full general session today, and Joe was very pleased with how it turned out. He was also very pleased with the special session on Transpression

#### 6) Current Activities

S. Cruden and S. Lin – Atlas of Structures: has no happened. Sandy Cruden was not able to come up with the time to do it. Larry Lane has said that if there is a will, he would be interested to take over as lead person to get it done.

*Sharon Carr*

Interjected that a web-based collection of photos would be worthwhile.

*Shoufa Lin*

Says there should be specifications on what structural features we are looking for.

*Jim Ryan*

Interjected it is not easy to get people to submit photos

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#### ***Action Item:***

Executive should call for an Editor for the Atlas first, then talk to people who might be interested in submitting. Select from them, then ask for submissions. Joe White will speak to Larry Lane first.

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#### 7) Elections

Fried Schwerdtner nominated, seconded by Paul Williams, Shoufa Lin for a 3 year terms as Chair of the SGTD

#### ***Carried:***

Change of councilors:

- Shoufa Lin, Keith Benn and Bill Fyson are finished
- Bruno Lafrance and Edith Martel added
- Joe White suggested that past Chair stay on as councilor to maintain corporate memory
- Shaocheng Ji and Lori Kennedy have 1 more year as councilors

Andy Okulitch moved, seconded by John Waldron to accept the slate of councilors

#### ***Carried***

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*Fried Schwerdtner*

Updated further on the CTG meeting. He wants an early registration at a 15% reduction. There is pressure on the number of rooms. He wants everyone in the same hotel, and needs to know about car rentals. Abstract deadline will be late.

*Paul Williams*

Asked if we have decided on a best paper award



**Motion:**

John Waldron moved, seconded by Shoufa Lin, to award the Elliot Prize at the AGM GAC Luncheon

*Carried:* unanimously

Andy Okulitch moved to adjourn

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**Appendix B. Minutes of the SGTD Business Meeting at CTG 2005 in Orillia, ON**

*Chaired by Jürgen Kraus*

*Minutes kept by Lori Kennedy*

Members in attendance: Dick Bailey, Kathryn Bethune, Alfredo Camacho, Simon Craggs, Manuel Duguet, Frank Fueten, Felix Gervais, Laurent Godin, Dazhi Jiang, Becky Jamieson, Dawn Kellett, Lori Kennedy, Jürgen Kraus, Tom Krogh, Yvette Kuiper, Bruno Lafrance, Willem Langenberg, Kyle Larson, Yvon Lemieux, Jennifer Marsh, Andy Parmenter, Pierre Robin, Fried Schwerdtner, C. Schrank, M. Schweinberger, Philip Simony, Bob Stesky, Joe White, Paul Williams.

Meeting called to order at 8:38 pm

1. Adopt minutes of the SGTD meeting in Halifax. Approved by Sharon Carr and seconded by Fried Schwerdtner. Vote was unanimous.
2. GAC/MAC 2007. Jürgen asked for possible special session themes for the 2007 GAC/MAC. There were several suggestions:
  - a. Kimberlite intrusion mechanisms. Proposed by Sandy Cruden and Willem Langenberg. Lori Kennedy will talk to Kelly Russell.
  - b. Fried Schwerdtner proposed a session regarding greenstone belts.
  - c. Kathy Bethune suggested that we talk first to Wouter Bleeker re: ideas.

Sandy Cruden proposed that we advertise earlier (e.g. via email to remind members) for ideas regarding special sessions so we can be more prepared. Seconded by Lori Kennedy.

3. The Main Thrust – what should we put into the main thrust:
  - a. The 2006 CTG will be in Crowsnest Pass, Alberta.
  - b. The call for nominations of the best 2005 theses would be out in a month with the deadline likely being the end of December 2005. The best-paper prize for 2005: call for nominations/submissions.
  - c. Best paper award for 2005 will be announced at 2006 GAC/MAC . Becky Jameison proposed that there be an “official” notification for winners.
4. Subsidies for student travel to the CTG. Organisers of the annual CTG are to decide how much to charge students versus non-students. Joe White mentioned that students are generally subsidized at CTG meetings both through registration

fees and sometimes airfares. He emphasized that fees and subsidy issues have always been decided by the organizers.

5. We have ~ \$8000 for student and paper prizes.

Sandy Cruden motioned to adjourn the meeting, Sharon Carr seconded.

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