

The Rock Record – February 2006

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*Please contribute to the SGS
Newsletter*

The SGS Newsletter is produced by the SGS executive. Letters, announcements, notices, comments, photos, news and information about SGS members, etc. are always welcome. Call an executive member or write to us at:

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www.sgshome.ca

All advertising inquiries should be directed to Jeff Coolican

In This Issue

- **Speaker Program Announcements & Abstracts** p. 1-3
- **Other Events, AGM Highlights** p. 3-4
- **CIM Uranium Field Conference Announcement** p. 5

SGS CURLING FUNSPIEL TARTAN CURLING CLUB FEBRUARY 4, 7:00

Tuesday, February 7th

STEPPING INTO DEEP WATER: INITIAL RESULTS FROM THE SO-167 LOUISVILLE CRUISE TO THE ACTIVE VALU FA RIDGE AND TONGA ISLAND ARC

**Harold Gibson
Mineral Exploration Research Centre
Laurentian University, Sudbury, ON**

Lancaster Room, Royal Canadian Legion
Cash Bar: 11:30; Lunch: 11:50
Meeting: 12:15 – 13:00
Members \$7.00, Non-members \$11.00
Contact: Cameron Bartsch 787-2506
By NOON, Monday, February 6th, 2006

Wednesday, February 22nd

Landslides with Slumps at Last Mountain Lake - Theory, Field Observations and Implications

**Dennis W. Lawson PhD, PEng, PGeo
Lawson Environmental Services, Regina**

Lancaster Room, Royal Canadian Legion
Cash Bar: 11:30; Lunch: 11:50
Meeting: 12:15 – 13:00
Members \$7.00, Non-members \$11.00
Contact: Cameron Bartsch 787-2506
By NOON, Tuesday, February 21st, 2006

Luncheon Talk Tuesday February 7th

STEPPING INTO DEEP WATER: INITIAL RESULTS FROM THE SO-167 LOUISVILLE CRUISE TO THE ACTIVE VALU FA RIDGE AND TONGA ISLAND ARC

**Harold Gibson
Mineral Exploration Research Centre
Laurentian University, Sudbury, ON**

and

**U. Schwarz-Schampera¹, P. Stoffers², R. Hekinian³, P. Herzig¹
Th. Kuhn¹, S. Fretzdorff^{1,2}, A. Kindermann¹, K. Schreiber¹**

¹TU Bergakademie Freiberg, ²C.-A. Universität Kiel, ³Ifremer Brest, France,

Dr. Gibson is one of the foremost Canadian experts in physical volcanology and volcanogenic-hosted massive sulphide (VHMS) deposits. He has worked extensively in the Precambrian shield of Canada (including Flin Flon), but is also involved in studying volcanic rocks presently forming on the ocean floor. Dr Gibson will be speaking to us about his experiences on an ocean-going research vessel where he was involved in studying ocean floor and island arc volcanism in the Pacific Ocean. The talk will cover not only the science and techniques involved in obtaining data from the depths of the ocean, but also anecdotes about life on board ship.

Luncheon Talk Wednesday, February 22nd

Landslides with Slumps at Last Mountain Lake

- Theory, Field Observations and Implications

**Dennis W. Lawson PhD, PEng, PGeo
Lawson Environmental Services, Regina**

The speaker facilitated a weekend *Living by Water* workshop in July, 2005 at the Resort Village of Kannata Valley on the lower east side of Last Mountain Lake. These workshops are sponsored by Nature Saskatchewan, hosted by Lake Stewardship groups, and deal with environmentally-friendly living along shorelines. Topics covered include shoreline construction (docks and retaining walls), erosion control (shorelines and slopes), cottage landscaping, water wells and septic fields. The focus is on reducing nutrient releases to lakewaters from cottage lots and conserving/protecting the littoral and riparian zones. This particular workshop also had to deal with the unique issue of recent slumps within older and ongoing landslides.

At Kannata Valley there is a series of some nine (9) en echelon landslide blocks in till and Cretaceous shale that form the valley wall. Cottages have been built along the lakeshore with access to the rear of the lots from a lakeshore road. A second row of cottages has been built along the other side of the road. Above the cottages there is common Village property in a park-like setting of walking trails through native shrubs and grasses. A railway has been built on the uppermost landslide block, just below the flat upland surface. The cottages and road are on, sometimes straddle, and parallel, the first two or three landslide blocks near the lake.

Small slumps occur naturally in the first landslide block, with the toe of the slump at the eroding shoreline. These slumps form only a small volume of the landslide block, whose head is exposed and being built on by the cottagers, but whose toe is somewhere out in the lake, covered by lakewater. Hence shoreline erosion control structures (concrete and rock seawalls, stone revetments) weight the toe of slumps and provide slump stability; yet, at the same time, they weight the head of the first landslide block and could possibly lead to instability. Cottagers need sound geotechnical advice on these matters and are obliged to seek it via Village bylaws respecting building permits.

This informal, interactive talk will provide some technical drawings which illustrate the situation (plan views and cross sections) and some coloured slides which show the surface expression of landslide failure planes (ground cracks and strings of small holes, split tree trunks, cracked concrete fences, tilted walls, cracked foundations, tilted teleposts, etc.) and slumps (failure planes and groundwater seepage, etc.). The intent is to exchange ideas on what is going on and on various possible remedies. Some of the slides will be from the speaker's 2004 investigation of conditions at North Colesdale Park (further north of Kannata Valley) and vicinity, which show the construction of elevated staircases and entrenched stone paths across the potentially-unstable shoreline slope.

Other Events

SGS Curling Funspiel

The 2006 Funspiel will be held at the Tartan Curling Club on Broadway Avenue on Saturday Feb. 4th at 7:00pm. You can sign up individually or as a team. There will prizes and munchies (pizza and other finger food) available throughout the evening, so when you're not curling you can socialize (bar will be open). The cost will be \$10 per person, which includes brooms, sliders and munchies. To sign up, please contact Kate MacLachlan (kmaclachlan@ir.gov.sk.ca or 787-9059) or Jennifer Smith (jsmith@ir.gov.sk.ca or 787-9373). Hope to see you all there.

AGM

The SGS Annual Meeting was held January 28th at the Hotel Saskatchewan with approximately 65 in attendance. Among the highlights was the announcement of the annual SGS Award winners.

President's Award

David Lewis of the University of Saskatchewan was awarded Best undergraduate student poster at the 2005 SIR Open House

Lazlo Fuzesy Award

Sandor Sule of the University of Saskatchewan, and **Kim Bailey** of Laurentian University were awarded Best graduate student poster at the 2005 SIR Open House

Robert Milner Award

Jeanette Marcotte was awarded the Outstanding undergraduate geology student for 2005 at University of Regina

Walter Kupsch Award

Mary England was awarded the Outstanding undergraduate geology student for 2005 at University of Saskatchewan

The Saskatchewan Geological Society Honour Roll inductees for 2005 included:

Klaus Lehnert-Thiel

Biography read by Mr. Ron Nitoliski, Golden Band Resources

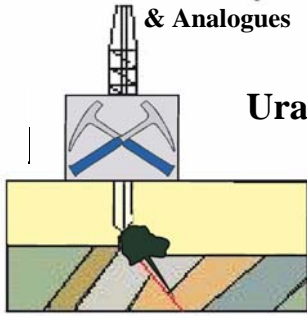
Earl Christiansen

Biography read by Dr. Jack Mollard, JD Mollard & Assoc.

Laurence Vigrass

Biography and introduction by Dr. Don Kent, U of R; DK Consulting Geologist Ltd.

Also, this is a reminder to please renew your memberships. Membership forms can be downloaded off the website www.sgshome.ca.



Uranium: Athabasca Deposits and Analogues
Field Conference: Saskatoon, Saskatchewan
September 10-12, 2006

Dear Colleague,

The Saskatoon Section of the Canadian Institute of Mining, Metallurgy, and Petroleum Geological Society is proud to announce the upcoming CIM Field Conference to be held in Saskatoon, Saskatchewan in September 2006. Approximately 400 delegates including the invited speakers, professional geoscientists, service companies, professors, students, and the general public will be attending.

The conference theme will focus exclusively on uranium deposits and the exploration for uranium, predominately in the Athabasca Basin, and is entitled, "Uranium: Athabasca Deposits and Analogues". Emphasis will focus on recent advances in technology, as well as contemporary advances in geological concepts related to exploration and mining through the participation of a large range of individuals and companies.

The conference will consist of two days of technical presentations, as well as post-conference field trips. There will be an accompanying trade show and poster presentation highlighting the advances in the service industry and uranium deposits in the Athabasca Basin and elsewhere. The conference will cover related topics such as geological, geophysical and geochemical exploration, diamond drilling, and computer modelling. Further details are available on our website at www.saskuranium2006.ca.

Sincerely,

Kelly Evans
W. K. (Kim) Mysyk
Co-Chairs Publicity/Sponsorship Committee
CIM 2006 Field Conference

