

SASKATCHEWAN GEOLOGICAL SOCIETY



Annual Report, 2013

**ANNUAL GENERAL MEETING
AND
AWARDS DINNER**

Saturday, February 1, 2014

TRAVELODGE HOTEL

4177 Albert Street South Regina, Saskatchewan, S4S 3R6

Cocktails - 6:00 p.m.

Dinner - 7:00 p.m.

Awards and Business Meeting - 8:30 p.m.

Buffet supper and wine @ \$35.00 per person. Students \$15.00

If you plan on attending only the business portion of the meeting, there is no charge.

AGENDA

1. Bar Opens (6:00 pm)
2. Dinner (7:00 pm)
3. Student Awards (8:30 pm)

President's Award (best undergraduate student poster at the Saskatchewan Geological Open House): Justin Emberley, University of Ottawa. Runner-up: Taylor Haid, University of Regina

Lazlo Fuzesy Award – (best graduate student poster at the Saskatchewan Geological Open House): Rong Liang, University of Regina. Runner-up: Mary Devine, University of Ottawa

Robert Milner Award (outstanding 4th year geology student at University of Regina): Taylor Haid

Walter Kupsch Award (outstanding 4th year geology student at U. of Saskatchewan): Eli Wiens

4. Saskatchewan Geological Society Geoscience Honour Roll Awards
5. Induction of Lifetime Emeritus Members
6. Annual General Business Meeting – Call to Order
7. Approval of Minutes of the Annual General Meeting held January 26, 2013
8. Approval of Executive Reports for 2013

President: Lynn Kelley
Vice President: Dave Van Zeyl
Treasurer: Michelle Hanson
Business Manager: Kate MacLachlan
Program Chairs: Murray Rogers/ Kim Kreis
9. Approval of Committee Reports for 2013

Education and Outreach Committee: Kate MacLachlan
Field Trip Committee: John Lake
Open House Committee: Jason Berenyi
10. Update on Society's status as a corporation
11. Proposed revisions to Society by-laws
12. Business from the Floor
13. Election of the 2014 Executive
14. Transfer of Chair to the New President and Introduction of the 2014 Executive
15. Recess
16. Presidential Address
17. Adjournment of Meeting
18. Close Down (11:00 pm)



Saskatchewan Geological Society Corporate Members and Sponsors

The Society gratefully acknowledges the companies who helped the Society through the purchase of corporate memberships and donations. Continued corporate support is essential to maintaining and enhancing the Society's many initiatives and activities.

D.M. Kent Consulting Geologist

JD Mollard and Associates (2010)

**Association of Professional Engineers
and Geoscientists of Saskatchewan**

Wok Box South Albert

Aladdin Oil & Gas

**Petroleum Technology Research
Centre**

Fleet Energy

VALE Potash Canada Ltd.

Alltech Mining

Saskatchewan Mining Association

**A special thanks to Don Kent, who sponsored the wine
at your AGM table.**

Saskatchewan Geological Society

Annual General Meeting January 26th, 2013

Minutes recorded by Charla Philippon

Meeting called to order at 8:00 pm

Thanks extended to:

Don Kent for sponsoring the wine at the tables; and the staff of the Italian Club.

Announcements:

Kate MacLachlan (Business Manager) and Dave van Zeyl (Vice President) send their regrets for not being able to attend the AGM meeting.

Executive in attendance

Gavin Jensen (President), Murray Rogers (Past President), Lynn Kelley/Kim Kreis (Program Chairs), Michelle Hanson (Treasurer) and Charla Philippon (Secretary)

1) Student Awards

Robert Milner Award presented to the most outstanding 2013 graduating geology student at the University of Regina:

Presented by Dr. Hairuo Qing to Richard Boulding (University of Regina).

Walter Kupsch Award presented to the most outstanding 2013 graduating geology student at the University of Saskatchewan:

Presented by Murray Rogers to Andrew May (University of Saskatchewan)

President's Award presented to the best undergraduate student poster at the 2012 Saskatchewan Geological Open House:

Presented by Murray Rogers to Samantha Van De Kerkchove (University of Regina), and accepted by Gavin Jensen on her behalf.

Lazlo Fuzesy Award presented to the best graduate student poster at the 2012 Saskatchewan Geological Open House:

Presented by Murray Rogers to Ronald Ng (Queen's University), and accepted by Gavin Jensen on his behalf. Also noted that Krisztina Pandur (University of Saskatchewan) was second place, her award was also accepted by Gavin Jensen on her behalf.

2) SGS Geoscience Honour Roll Award & Special Mentions

This year's recipient: Dr. Robert Macdonald

Presentation made by Dave MacDougall. Robert gratefully accepted the award.

Jason Berenyi and Michelle Hanson were thanked and acknowledged for all their work on the 2012 Open House Geological Survey – Society co-sponsorship.

3) Approval of the 2012 AGM minutes:

Approval of the 2012 AGM minutes moved by Lynn Kelley, seconded by Charlie Harper.

Unanimous vote in favour of the motion.

4) Approval of the 2012 Executive Reports

Approval of the 2012 Executive Reports moved by George Sharpe, seconded by Lynn Kelley.

Unanimous vote in favour of the motion.

5) Approval of the Committee Reports

Approval of the Committee Reports moved by Lynn Kelley, seconded by Murray Rogers.

Unanimous vote in favour of the motion.

6) Business From The Floor

- a) *George Sharpe mentioned his concerns toward the high cost of lunch at the Ramada (~\$25/person) as the Society only charges \$10.00/member.*

Suggestions that were made:

- i) Move the Location:
Shriner's Club? – refused due to liability concerns
German Club? Victoria Club? 13th Ave Community Center?
Don Kent stressed the importance of not moving the talks from the downtown area as this would discourage attendance.
- ii) Raise the price of lunch to \$15.

- b) *Gavin Jensen mentioned people may be interested in restructuring the AGM.*
- i) Not have it the same weekend as roundup – recommended to move it to the first week in February.
- c) *Williston Basin Conference*

Thanks to: Don Kent, Kim Kreis, Mick Frank, Chris Hartle and Mike Thomas for volunteering to organize the two WBPC workshops.

It is a great opportunity to provide major funding for the SGS to bring in high quality speakers and to pay for the ongoing activities of the Society. If anyone has any ideas for potential talks in the future, bring them to the attention of Murray Rogers, Kim Kreis or Gavin Jensen.

7) New 2013 Executive Introduced

Gavin Jensen announced the 2013 SGS Executive, after the membership approved the continuation of Michelle Hanson (3rd term - Treasurer), Kate MacLachlan (4th term - Business Manager), Dave van Zeyl (2nd term - Vice-President).

Moved by Melinda Yurkowski, seconded by Janis Dale. Approved.

Dan Kohlruss of the Subsurface Geological Laboratory was introduced as the new Secretary, Lynn Kelley as the new President, Gavin Jensen as the Past-President and Murray Rogers as the new Assistant Program Chair. Kim Kreis is continuing his term as Program Chair. Charla Philippon completed Andrew Morley's term as Secretary.

8) Talk was given by Gavin Jensen on his recent trip to Palau.

9) Adjournment

Gavin Jensen thanked the Italian Club.
SGS Annual General Meeting Adjourned @ 10:00 pm

PRESIDENT'S REPORT

2013 was an active year for the Saskatchewan Geological Society, with a full schedule of events and activities. The core of our activities is the luncheon speakers program, organized by our Program Chairs, Kim Kreis and Murray Rogers, who facilitated an outstanding array of speakers on a variety of topics throughout the year.

John Lake organized another successful annual field trip; this year to the Black Hills. A report on the field trip is included below.

Dave MacDougall chaired the AGM planning committee. Dave has worked tirelessly to promote the event, ably assisted by Kate MacLachlan and Michelle Hanson.

Virtually every event conducted by the Society is financially enabled and/or subsidized by the income derived from an annual constituent society grant from APEGS and workshops held bi-annually in conjunction with the Williston Basin Petroleum Conference. Two workshops were held around the May 2013 WBPC. The workshop committee included Mick Frank, Mike Thomas, Chris Hartle, Don Kent, Kim Kreis and Gavin Jensen. Thank you APEGS, and thanks to the workshop committee (and the many others who help with the workshops) for another job well done.

As you know, the Society is a co-host of the Saskatchewan Geological Open House. A report from the Open House committee can be found elsewhere in this annual report. I want to mention the outstanding job that Michelle Hanson, treasurer of both the Society and the Open House committee does in keeping our collective finances straight. The Treasurer's job seems to me 10 times more difficult with the addition of the Open House responsibilities, but she is able to wear both hats with composure and keep things organized and transparent. Thank you, Michelle.

The Society social events are always popular. The annual Curling Bonspiel was organized by Lynn Kelley and Kate MacLachlan and held at the Tartan Curling Club in March. We joined forces with the DM Kent club and had about 60 curlers. This non-competitive event was followed by a pizza dinner and was enjoyed by all. The annual Golf Tournament/BBQ, organized by Tom Love, took place in early September. It was well attended and everyone seemed to enjoy themselves.

The Society continued in its student outreach program by hosting Student Careers Nights at the University of Regina in the spring and in Saskatoon in conjunction with the Saskatchewan Geological Open House. The Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS) and AllTech Mining are thanked for co-sponsoring these events. The annual Student Poster Contest was also held in conjunction with the Open House, and winners and runners-up are noted on the AGM agenda.

The Society's website, www.sgshome.ca, has been kept regularly updated by Secretary Dan Kohlruss. Dan is working on a website makeover to update the look and feel and functionality of the site. The website contains a publication list, membership forms, merchandise with pictures, current and archived Rock Records, and much more. Please check it out.

Many people contribute their time and effort toward the Society's activities. To begin I would like to thank the 2013 Executive that worked with me over the past year: Dave Van Zeyl (Vice President), Michelle Hanson (Treasurer), Dan Kohlruss (Secretary), Murray Rogers and Kim Kreis (Program Co-Chairs), Kate MacLachlan (Business Manager), Gavin Jensen (Past President), and Ashlee

Latimer and Mark Matthews (U. of R. Don Kent Geology Club student liaisons) for their work for the Society, as well as their counsel and encouragement during my term.

I would also like to thank the Chairs of the Society's committees and sub-committees for their work and commitment: John Lake (Field Trip), Tom Love (Golf Tournament), Kate MacLachlan and Fran Haidl (Education and Outreach), Fran Haidl (Geoscape Saskatchewan), Lynn Kelley and Kate MacLachlan (Curling Bonspiel), Dave MacDougall, Don Kent, and Jim Christopher (Honour Roll), and Jason Berenyi (Open House).

Gavin Jensen, as past president helped keep me focussed and on task, and that ain't easy. Thanks for all your help!

Lastly, thank you to the public- and private-sector employers of the Society's executive members, including the Saskatchewan Geological Survey, Saskatchewan Ministry of Environment, JD Mollard and Associates (2010) Limited, and Association of Professional Engineers and Geoscientists of Saskatchewan. These agencies and businesses support their employees' work on matters related to the Society and other professional and civic organizations. They recognize that the Society's programs add value to their interests and the interests of our profession.

I would like to wish the 2014 Executive success in running the Society in the coming year.

Respectfully submitted,
Lynn I. Kelley, P. Geo.
President

VICE PRESIDENT'S REPORT

In 2013, there were a total of 160 memberships from all categories (see table below). The number of active members this year was up from last year perhaps partly due to greater effort made to remind delinquent members to pay their dues. Student memberships were also up this year over last year. Corporate memberships have not increased.

| Category | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Active/Lifetime | 102 | 100 | 87 | 105 | 97 | 106 | 107 | 66 | 87 |
| Student | 32 | 47 | 22 | 26 | 26 | 78 | 117 | 58 | 67 |
| Corporate | 7 | 25 | 20 | 18 | 10 | 8 | 6 | 3 | 2 |
| Amateur | 3 | 3 | 3 | 3 | 2 | 3 | 4 | 3 | 4 |
| Total | 144 | 175 | 132 | 152 | 135 | 195 | 234 | 130 | 160 |

Respectfully submitted,
Dave van Zeyl
Vice-President

BUSINESS MANAGER'S REPORT

This will likely be the last report from the Business Manager, as the executive is recommending that this position be replaced with a member-at-large. The role of Business Manager has continued to shrink. Most event functions have been booked by whoever is organizing them, and this is how we plan to operate in the future.

The SGS lunch talks are now being held at the Ramada Hotel because the Legion is no longer available. All the bookings for lunch talks are done by the program chairs. The Annual meeting is now being run by a committee who oversees all aspects of the event including booking of the venue. This year the committee consisted of Dave McDougall, Michelle Hanson and myself, and I would like to thank Dave and Michelle for their efforts in reviving the profile of the Annual Meeting and Awards Banquet this year.

Respectfully submitted,
Kate MacLachlan
Business Manager

TREASURER'S REPORT

The Profit and Loss Statement and the Balance Sheet are presented below. Please note that the value of our publications has been written down considerably to more realistically reflect their liquidation value. .

Respectfully Submitted,
Michelle Hanson
Treasurer

Saskatchewan Geological Society Incorporated
Profit & Loss

Accrual Basis

January through December 2013

| | Jan - Dec 13 |
|---------------------------------------|------------------|
| Income | |
| AGM Income | |
| Donations | 350.00 |
| Ticket Sales | 870.00 |
| Total AGM Income | 1,220.00 |
| Annual Field Trip Income | |
| Registration Fees | 5,510.00 |
| Total Annual Field Trip Income | 5,510.00 |
| Bond Market Increase | 830.18 |
| Curling Funaple Income | |
| Tickets | 780.00 |
| Total Curling Funaple Income | 780.00 |
| Golf Tournament Income | |
| Registration Fee | 1,830.00 |
| Sponsorships | 740.00 |
| Total Golf Tournament Income | 2,570.00 |
| Grants | |
| A.P.E.G.S. | |
| Membership Grant | 4,000.00 |
| Total A.P.E.G.S. | 4,000.00 |
| Total Grants | 4,000.00 |
| Luncheon Income | |
| Ticket Sales | 3,950.00 |
| Total Luncheon Income | 3,950.00 |
| Membership Dues | |
| Active | 1,715.73 |
| Amateur | 18.82 |
| Corporate | 195.80 |
| Lifetime | 350.00 |
| Student | 42.75 |
| Total Membership Dues | 2,324.10 |
| Merchandise Sales | |
| Datapages Royalty Fees | 3,291.39 |
| Postage and Handling | 112.47 |
| Promotional Materials | 10.00 |
| Volume Sales | 535.30 |
| Total Merchandise Sales | 3,949.16 |
| Misc. Income | 0.00 |
| Open House | |
| Career Night | |
| Sponsorships | 250.00 |
| Total Career Night | 250.00 |
| Public Lecture | |
| Sponsorships | 500.00 |
| Total Public Lecture | 500.00 |
| Total Open House | 750.00 |
| Open House Conference Income | 73,044.01 |
| Total Income | 98,927.45 |
| Cost of Goods Sold | |
| Cost of Goods Sold | 163.50 |
| Total COGS | 163.50 |
| Gross Profit | 98,763.95 |

Michelle Hanson

 These numbers have unusual decimal points because of the fee taken by PayPal when members pay online.

Saskatchewan Geological Society Incorporated
Profit & Loss
January through December 2013

| | Jan - Dec 13 |
|---|-----------------|
| Expense | |
| AGM Expenses | |
| Catering | 1,066.32 |
| Plaque Enoravino | 213.15 |
| Total AGM Expenses | <u>1,279.47</u> |
| Annual Field Trip Expenses | |
| Accommodations | 3,754.23 |
| Fuel/Groceries | 781.33 |
| Miscellaneous | 2,299.42 |
| Registration Refund | 416.47 |
| Vehicle Rental | -525.00 |
| Total Annual Field Trip Expenses | <u>7,929.29</u> |
| Awards | |
| John Lawry Travel Grant | |
| Lazio Fuzary 2nd Place | 1,000.00 |
| President's Award | 100.00 |
| President's Award 2nd place | 300.00 |
| Robert Milner | 100.00 |
| Travel Expenses | 150.00 |
| Walter Kupach | 430.70 |
| Awards - Other | 150.00 |
| | <u>574.20</u> |
| Total Awards | <u>2,804.90</u> |
| Canada Post | |
| P.O. Box Rental | 180.60 |
| Speaker gift postage | 32.40 |
| Volume Postage | 154.93 |
| Total Canada Post | <u>367.93</u> |
| Curling Funaplel | |
| Catering | 635.00 |
| Ice Rental | 360.00 |
| Total Curling Funaplel | <u>995.00</u> |
| Devaluation of publications | 38,524.25 |
| Executive Meeting Expenses | |
| Food and Beverage | 420.56 |
| Total Executive Meeting Expenses | <u>420.56</u> |
| Federal Corporation Fee | 30.00 |
| Geoscience | |
| Open House Public Lecture | 2,567.81 |
| School lecture | |
| Bussing | 1,992.78 |
| Planning committee expenses | 262.13 |
| Speaker gift | 100.00 |
| Supplies | 61.58 |
| Total School lecture | <u>2,416.49</u> |
| Website | |
| Domain Name Registration | 13.60 |
| Hosting | 302.92 |
| Total Website | <u>316.52</u> |
| Total Geoscience | <u>5,300.82</u> |

Michelle Hanson

The SGS Executive decided to write-down the value of the publications in inventory by 90% given the assumption that we will never sell all that we have. This was applied to the following volumes: SP # 4, 5, 7, 10, 11, 13, 14, 15, and 19, as well as southern Geoscience posters.

Saskatchewan Geological Society Incorporated
Profit & Loss
January through December 2013

| | Jan - Dec 13 |
|---|-------------------|
| Golf Tournament | |
| Alcohol | 532.18 |
| BBQ Supplies | 167.82 |
| BBQ Venue | 615.00 |
| Booking Fee | 50.00 |
| Catering | 680.69 |
| Green Fees | 1,683.50 |
| Total Golf Tournament | 3,729.19 |
| Insurance | |
| Property Insurance | 400.00 |
| Total Insurance | 400.00 |
| Luncheon Expenses | |
| Catering | 4,257.85 |
| Speaker Expenses | 2,960.74 |
| Total Luncheon Expenses | 7,218.59 |
| Office Supplies | 232.43 |
| Open House Conference Expenses | |
| Conference venue & food | 48,306.68 |
| Display booth setup | 9,575.27 |
| Website | 2,591.33 |
| Total Open House Conference Expenses | 60,473.28 |
| Open House Expenses | |
| Student Career Night | |
| Student Travel Subsidy | 250.00 |
| Total Student Career Night | 250.00 |
| Total Open House Expenses | 250.00 |
| Regina Science Fair | |
| Earth Science Award | 350.00 |
| Total Regina Science Fair | 350.00 |
| Saskatchewan Incorporation Fee | 30.00 |
| SCHEMATIC \$ | 100.00 |
| SGS Website | |
| Domain Name Renewal | 13.60 |
| Hosting | 198.00 |
| Total SGS Website | 211.60 |
| WBPC talks grant | |
| Accommodation | 1,741.85 |
| Food | 6,724.19 |
| Misc. | 50.57 |
| Transportation | 2,181.16 |
| WBPC talks grant - Other | 393.91 |
| Total WBPC talks grant | 11,091.68 |
| Will. Baile, Pet. Conf. | |
| Core Workshop | |
| Catering | 405.82 |
| Total Core Workshop | 405.82 |
| Total Will. Baile, Pet. Conf. | 405.82 |
| Total Expense | 142,144.81 |
| Net Income | -43,380.86 |



Michelle Hanson

These expenses largely reflect payment of Open House 2012 bills in early January, 2013. The bills for Open House 2013 similarly were paid in January, 2014.

Saskatchewan Geological Society Incorporated
Balance Sheet
As of December 31, 2013

Accrual Basis

Dec 31, 13

| | |
|---------------------------------------|--------------------------|
| ASSETS | |
| Current Assets | |
| Chequing/ Savings | |
| Geoscience | |
| Geoscience | 11,289.98 |
| SK Geological Open House | 66,262.80 |
| WBPC talks grant | 7,608.08 |
| Chequing- Other | 45,805.16 |
| Total Chequing | <u>130,966.00</u> |
| Patrol Cash | 300.00 |
| Total Chequing/Savings | <u>131,266.00</u> |
| Accounts Receivable | |
| Accounts Receivable | 530.40 |
| Total Accounts Receivable | <u>530.40</u> |
| Other Current Assets | |
| Inventory Asset | 15,298.55 |
| Undeposited Funds | 1,197.92 |
| Total Other Current Assets | <u>16,496.47</u> |
| Total Current Assets | <u>148,292.87</u> |
| Fixed Assets | |
| Dell Laptop | 1,768.05 |
| Total Fixed Assets | <u>1,768.05</u> |
| TOTAL ASSETS | <u><u>150,060.92</u></u> |
| LIABILITIES & EQUITY | |
| Equity | |
| Opening Bal Equity | 126,924.49 |
| Retained Earnings | 66,507.29 |
| Net Income | -43,380.86 |
| Total Equity | <u>150,050.92</u> |
| TOTAL LIABILITIES & EQUITY | <u><u>150,050.92</u></u> |

Michelle Hanson

Our Saskatchewan Savings Bonds matured and the amount was transferred to the Chequing account to be reinvested at a later date.

Michelle Hanson

The SGS Executive decided to write-down the value of the publications in inventory by 90% given the assumption that we will never sell all that we have. This was applied to the following volumes: SP # 4, 5, 7, 10, 11, 13, 14, 15, and 19, as well as southern Geoscience posters.

Michelle Hanson

The amount of Undeposited Funds is incorrect. There are two cheques that were accidentally recorded twice that I am not yet able to fix in the software.

Michelle Hanson

This Net Income value largely reflects the write-down of the publications inventory.

PROGRAM CHAIR'S REPORT

We would like to extend our thanks to all of the speakers in 2013 for the high quality of the talks, and to the members and guests who attended the talks. The luncheon talks will continue to be held at the downtown Ramada Hotel in Regina. We are always searching for speakers so if anyone has any suggestions please contact us. A total of 11 luncheon talks and two public lectures, one each in Regina and Saskatoon, were held and are listed.

Dr. Adam Lewis, North Dakota State University;
January 21, 2013
Freeze-Dried Findings Support a Tale of Two Ancient Climates

Mr. Chris Hartle, Vale Potash Canada Limited;
February 13, 2013
Nickel Laterites in Western Australia: A Review of the Kalgoorlie Nickel Project; and the Downfalls of Transitioning a Project from a Junior Explorer to a Major Miner

Dr. Galen Halverson, McGill University; GAC Hutchison Medal Lecturer;
March 5, 2013
The Neoproterozoic Record of Rodinia Break-up, Biospheric Evolution, and Climate Catastrophes in Northwestern Canada

Dr. Jeffrey May, AAPG Distinguished Lecturer;
April 16, 2013
Mudrock Reservoirs – Why Depositional Fabric & Sequence Stratigraphic Framework Matter

Dr. Jeffrey Hedenquist, Society of Economic Geologists Lecturer,
April 24, 2013
Active Hydrothermal Systems and the Formation of Copper-Gold Ore Deposits

Dr. Bruno LaFrance, Laurentian University;
May 8, 2013
The Enigmatic Sudbury Impact Structure

Mr. Greg Vogelsang, President, Geoscientists Canada;
September 17, 2013
An Overview of Geoscientists Canada, Current Objectives and Activities

Dr. Stephen Turner, Society of Economic Geologists, 2013 International Exchange Lecturer;
October 3, 2013
Discovery of the Mesel, Batu Hijau and Martabe Deposits, Indonesia: Results of Successful Greenfields Exploration

Dr. Andy Bajc, Ontario Geological Survey, 2012 Provincial Geologists Medal Recipient;
October 16, 2013
A Decade of 3-D Mapping of Quaternary Deposits in Southern Ontario: Protocols, Products and Applications

Dr. Jim Rice, Co-Investigator: Mars Exploration Rover Missions; Planetary Science Institute;
November 1, 2013
The Geology of Mars

Dr. Jim Rice, Co-Investigator: Mars Exploration Rover Missions; Planetary Science Institute;
November 1st, **Public Lecture**, Saskatchewan Science Centre, Regina
Spirit and Opportunity: Roving the Red Planet

Dr. Duane Froese, University of Alberta,
Geological Association of Canada, 2013-14 W.W. Hutchison Lecturer;
November 29, 2013
Lost World in Ancient Ice

Dr. Don Henderson, Curator of Dinosaurs, Royal Tyrrell Museum;
December 3, 2013, **Public Lecture**, Saskatoon
Alberta's Last Sea Dragon – the Lethbridge/Korite Elasmosaur

Respectfully Submitted,
Kim Kreis, Program Chair
Murray Rogers, Assistant Program Chair

COMMITTEE REPORTS

Education and Outreach Committee (EOC) Report

EOC Chair: Kate MacLachlan

Members: Fran Haidl

Dave MacDougall

Michelle Hanson

Geoscape sub-committee Chair: Fran Haidl

As chair of the committee I would like to thank all the committee and sub-committee members and volunteers who have helped to undertake our various activities and produce this report. I look forward to serving as chair again in 2014.

Geoscape Southern Saskatchewan

We continue to receive requests for the *Geoscape Southern Saskatchewan* poster, and for Word versions of our lesson plans and additional Earth Science information via our geoscapask website email address.

Fall School Lecture

After discussion with the Science Consultants from the various school divisions we made some changes to the timing and format of the school lecture in 2013. We decided to move it to the fall in the hopes of attracting more interest. Because of the requirement that there be a strong link between the school curriculum and the subject of the presentation, we have decided that going forward we will focus on Saskatchewan natural resources. This year the subject was Oil and Gas in Saskatchewan. Because we have the expertise “in house”, we decided to try doing two different age groups with different speakers. On Tuesday October 9th, Dan Kohlruss presented two lectures to grades 3 through 5. One Wednesday October 10th, Erik Nickel presented two lectures to grades 7 and 8. All lectures were held at Miller High School and attendance was excellent, with close to 800 on the Tuesday and about 400 on the Wednesday. This large turnout has been partially attributed to the fact the SGS volunteered to cover busing costs (not expecting this big a turnout). We plan to look for additional sponsorship for busing next year.

Public Lectures

This year the Regina public lecture was organized separately from the school lecture. This will likely continue to be the practice in the future, because the school lecture is so closely tied to the curriculum it significantly limits the scope of subject matter for the public lecture. We were thrilled this year to join forces with Jack Mollard and the Regina Chapter of the Royal Astronomical Society to bring in Dr. Jim Rice, Astrogeologist and former NASA scientist who worked on the Mars Rover programs. Jim gave both a public lecture on the Mars Rover Program and an SGS luncheon talk on Mars Global Geology. The Public lecture was held on November 1st at the Science Centre in the small auditorium. We had a fantastic turnout, with people sitting in the aisles and on the floor. We actually had to turn some latecomers away. Everyone including Jim agreed that it would be great to have him come back again. I would like to especially thank Jack Mollard who is a long time friend and colleague of Jim’s for suggesting the idea and helping to make it a reality, and the Royal Astronomical Society especially for their help in publicizing the event.

Once again the SGS organized a public lecture in association with the Geological Survey Open House in Saskatoon. This year we were very pleased to have Don Henderson, Curator of Dinosaurs at the Tyrrell Museum. His talk entitled “Alberta’s Last Sea Dragon – the Lethbridge/Korite elamosaur” was held December 3 at the Delta Bessborough Hotel in Saskatoon. Unfortunately due to a bad early winter storm Don was not able to get out of Drumheller and therefore had to give his talk by video conference. The talk was well attended and well received. Despite Don not being there in person many people stayed after the talk to ask questions. This talk was co-sponsored with the Saskatchewan Mining Association (SMA) and the Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS).

Earth Science in Saskatchewan Curricula

Several SGS members provided recommendations to the Ministry of Education re content of a new high school Earth Science course (Earth Science 30) that will be piloted in two high schools in February, 2014. Suggestions were also made re potential Earth Science content for Physics 30, Biology 30, Chemistry 30, and the new Environmental Science 20 and Physical Science 20 courses.

Other

The SGS Education and Outreach Committee is looking for volunteers to help run our activities in 2014. We are also hoping to continue to involve some external participants from the Boards of Education and the Saskatchewan Science Centre. If you would be willing to help out when you have time, interest or specific expertise for a given event, please contact the chair of the EOC (Kate MacLachlan at katem@apegs.sk.ca). Some of the events we are planning for 2014 include: 1) Fall school lecture; 2) Regina Public lecture; and 3) the Open House public lecture (Saskatoon).

Respectfully submitted,
Kate MacLachlan
EOC Chair

Open House Report

The 44th Annual Saskatchewan Geological Open House was held Dec. 2nd-4th at the Delta Bessborough Hotel in Saskatoon. Despite tough economic times the minerals industry is currently facing, the conference was very well attended with over 740 delegates and 59 exhibitors. There were 29 geologic posters on display with a record 17 student posters.

Over 50 students from U of R and U of S attended the conference most for the Student Night mixer, which is sponsored by the Society, APEGS and AllTech Mining.

2013 Annual Field Trip to the Black Hills Region of South Dakota and Eastern Wyoming



Thirteen SGS members, including two student members, participated in the annual field trip from August 25th to 29th. The trip to the Black Hills was expertly led by Dr. Alvis Lisenbee, a retired Professor from the South Dakota School of Mines. Day 1 (August 26) began with an examination of some Paleoproterozoic basement outcrops, representative of the rocks that core the Black Hills uplift. This was followed by a visit to the past-producing Etta lithium pegmatite mine,

Mount Rushmore, a cave tour at Wind Cave National Park which featured karst features, and ending with a visit to an active indoor mammoth excavation site at Hot Springs, S.D. Supper was provided by Respec Engineering.

Day 2 (August 27) started with an examination of the Precambrian/basal Cambrian Deadwood Fm. unconformity. This was followed through some of the day with an examination of outcrops of the entire Paleozoic section from Cambrian to Permian. Also included were stops at the world-class, past-producing, Precambrian Homestake open pit gold mine and an examination of rocks taken from the mine including from the mine ore formation. This was followed by a mine tour at the Tertiary Wharf epithermal open pit gold mine.



Day 3 (August 28) focused on the Tertiary alkaline intrusions and related mineralization of the northern Black Hills and westward into Wyoming. Outcrops were examined in the vicinity of the Bald Mountain REE deposit including K-metasomatized, fracture-filled U, Th, REE mineralization associated with recessive carbonatites. The day ended with a visit to the world famous Devils Tower which is a Tertiary phonolite intrusion with spectacular columnar jointing. On the return trip the final day a luncheon stop was made in the North Dakota badlands.

Thanks are extended to the many individuals who helped with organizing the trip or in the driving who include: Dr. Alvis Lisenbee, Chris Johnson (Respec Engineering), Gavin Jensen, Mike Thomas, Kim Kreis, and Colin Card among others.

John Lake
Field Trip Chair
(Assistance and photos from Murray Rogers)

Nominating Committee

The term of the 2013 SGS Executive ends with the AGM on February 1, 2014. The 2013 Executive puts forward the following candidates for the 2014 Executive:

| | |
|--------------------------|-----------------|
| President: | Colin Card |
| Vice-President: | Ralf Maxeiner |
| Treasurer: | Michelle Hanson |
| Secretary: | Dan Kohlruss |
| Business Manager: | Kate MacLachlan |
| Program Chair: | Murray Rogers |
| Assistant Program Chair: | Jason Cosford |
| Past President: | Lynn Kelley |

A motion will be made at the AGM to accept the full slate of candidates for 2014.

Respectfully submitted,
Lynn I. Kelley, P. Geo.
President



Student Awards

There are four student awards to be presented. In addition to the award each student recipient will receive a cheque for \$150 and their choice of a SGS publication or merchandise item.

The **President's Award** is presented to the best Saskatchewan undergraduate student poster at the Saskatchewan Geological Open House.

This year it is presented to Justin Emberley of the University of Ottawa for his poster titled: Origin of sulphide minerals in the McArthur River uranium ore deposit and their significance to the mineralization of uranium.

Second place went to Taylor Haid of the University of Regina for his poster titled: A petrographic and fluid inclusion study of the END deposit, Kiggavik: preliminary findings. Taylor received a cheque for \$100.

The **Lazlo Fuzesy Award** is presented to the best graduate student poster at the Saskatchewan Geological Open House

This year it is presented to Rong Liang of the University of Regina for his poster titled: Characterization of fluids associated with uranium mineralization in the Beaverlodge area, northern Saskatchewan.

Second place went to Mary Devine of the University of Ottawa for her poster titled: Mobility of radiogenic gases and metals from the Millennium uranium deposit, Slush Lake, Saskatchewan. Mary received a cheque for \$100.

Thanks to the three judges for the student poster contest, Dr. Kathy Bethune from the University of Regina, Tim Prokopiuk from the University of Saskatchewan, and Dr. Ryan Morelli of the Saskatchewan Geological Survey.

Student Awards, continued

The **Robert Milner Award** is presented to the top graduating undergraduate geology student at University of Regina

Robert Milner was a prominent Saskatchewan geologist who made significant contributions to the understanding of the sedimentology and stratigraphy of the Jurassic System in Saskatchewan, particularly units such as the Watrous, Gravelbourg, Shaunavon, Vangaurd formations.

This year the award is presented to Taylor Haid.

The **Walter Kupsch Award** is presented to the top graduating undergraduate geology student at University of Saskatchewan

Walter Kupsch was a geology professor at the U of S who made important contributions through his work in Quaternary geology, terrain analysis, and northern non-renewable resource development.

This year the award is presented to Eli Wiens.



Geoscience Honour Roll Citation – Tim Tokaryk

This evening's nominee for the Saskatchewan Geological Society Geoscience Honour Roll is Tim Tokaryk. Tim was born in Winnipeg. His early years were spent in a number of centres due to his father's profession, but he was able to obtain all of his secondary schooling at Ross Shepherd High School in Edmonton. Although he had some interest in science and history in school, he admits to having been more interested in sports, specifically football and hockey. His athletic prowess can be gauged by the fact that in grade 12 he was offered a post-secondary school hockey scholarship, but he was unable to accept due to a serious knee injury received during a football game that ended his sports career. One might speculate that had it not been for the injury and loss of the scholarship, his career might have taken a different path, and he might not have been at this induction.

While still in high school, Tim's interest in science led him to volunteering as a paleontology lab technician at the Royal Alberta Museum. About the time that Tim finished his secondary school education the Royal Tyrrell Museum in Drumheller was about to commence operations, and he applied there for an advertised position as a paleontology lab technician. It was during the time spent at the Tyrrell that he began honing his skills in vertebrate paleontology. Tim left the museum in 1984 to take the position of head earth science technician at the then Saskatchewan Museum of Natural History. In addition to doing the usual laboratory technical work of collecting, preparing, cataloguing, and replicating fossil vertebrate bones, he also supervised the excavation of several vertebrate sites. During his tenure in this position he was the discoverer of a new species of *Pseudotomus timmys* from the Late Eocene as well as the first recorded occurrence in Saskatchewan of a fossil Cretaceous bird. In 1991, Tim was appointed assistant curator of vertebrate paleontology at the Royal Saskatchewan Museum, continuing his involvement in excavations and discoveries. One of the long term excavations that he supervised was the *T. rex* discovery made in 1991 by him, Dr. John Storer and former Eastend high school principal, Robert Gebhardt. This discovery and the ensuing lengthy period of excavation led to the establishment of the Royal Saskatchewan Museum Fossil Research Station at Eastend, Saskatchewan, and the appointment of Tim as the paleontologist at this facility. Field research at the Station under his direction has led to vertebrate discoveries that included, a brontothere skeleton, two *Triceratops* skulls, a large theropod coprolite, a short-necked plesiosaur (*Dolichorhynchops herschelensis*) skeleton, and thousands of small skeletal and microvertebrate remains. In 2009, Tim was appointed head of the paleontology program at the Royal Saskatchewan Museum in Regina as well as Royal Saskatchewan Museum's *T. Rex* Discovery Centre in Eastend. He presently is still in this position, and his duties include administrating, curating, involvement in outreach projects as well as some time in the field.

Tim was registered with APEGS as a Professional Geoscientist in 1999. In addition, he has combined adjunct professor appointments in the Departments of Biology and Geology at the University of Regina. He has given lectures in both departments as well as co-supervising 4th year Bachelors theses in both biology and geology at the University of Regina. In addition to being an advisor to student research projects at the University of Saskatchewan. He is also, presently, co-supervisor of a Master's thesis at the University of Regina. Tim's publication citations include authorship or co-authorship of 20 refereed papers, 80 non-refereed papers and 20 published abstracts of presented conference papers. He has also reviewed some fifty published articles on a variety of topics. Within his list of refereed publications are the taxonomies of 11 new taxa, included among them are new species of two Plesiosaurs, a crocodile, a rodent, two toothed birds, three sharks, a mammal and Late Cretaceous plant seeds.

Tim's enthusiasm for various aspects of vertebrate paleontology, and his contributions to that field in Saskatchewan make him an ideal nominee for induction into the Saskatchewan Geological Society's Geoscience Honour Roll.



Lifetime Emeritus Memberships Presentations

According to the Society Bylaws, Lifetime Emeritus Memberships may be conferred by the Executive Committee from time to time upon past or present Active Members who have pursued a full career in the earth sciences, and who have contributed distinguished services to the Society.

There are currently only three Lifetime Emeritus Members in the Society, Les Beck, Jim Christopher, and Don Kent.

Tonight we are conferring new Lifetime Emeritus Memberships on three members, Fran Haidl, John Lake, and Bob Troyer. All have contributed long-term services to important activities of the Society.

Fran Haidl, a geologist with the Saskatchewan Geological Survey, has been a Society member since 1975, serving on the Executive as Program Chair in 1982 and 1986 and as President in 1989. But the reason that she is being recognized is for her long-standing activities in geosciences education. Beginning in 1987 she was the inaugural Chair of the Education and Outreach Committee and held that position for about two decades. She continues to be a committee member. Other current activities include as co-chair of the Geoscape sub-committee, and involvement in the Geovistas project and in the Canadian Geoscience Education Network or CGEN. She was the President of CGEN from 2006 to 2009, Chair of the National EDGEO Workshop program from 1995 to 2002 and a member of the Society Geological Highway Map committee from 1998 to 2002, among many other related activities.

John Lake, a geological consultant and a long-time Society member, has been the Chair of the Society's Field Trip Committee since 1995, organizing, often with the help of others, the annual field trips that have toured throughout many of the northern and western States and neighboring provinces. The highlight was the 10-day trip in 2008 through the Colorado Plateau in the southwest U.S. John's emphasis has always been that a geologist needs to look at the rocks. As well, John has always been among the first to volunteer to present and provide papers at the petroleum conferences that the Society used to host and more recently at the conference workshops that provide most of the income to the Society to carry out its many activities.

Bob Troyer retired in 2012 after 36 years with the provincial government. All of that time with the Ministry of the Economy and its predecessors, and since 1985 as the Manager of Sedimentary Geodata. Bob was a long-time Society member and served as the Committee Chair and chief organizer of the Society's annual, well-attended Golf Tournament and BBQ, beginning in 1985 up until his retirement in 2012. Not to be overlooked, Bob also served as the Secretary-Treasurer on the Society Executive off and on for many terms and was the Treasurer for many of the Society-hosted petroleum conferences.