

SASKATCHEWAN GEOLOGICAL SOCIETY



Saskatchewan Geological Society

2015

Annual Report

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2. PRESIDENT'S REPORT

The Saskatchewan Geological Society ("Society") has had another busy and exciting year and this year-end report provides a comprehensive review of the Society's activities. Led by a diverse group of individuals from government (Ryan Morelli, Vice-President; Colin Card, Past President; Michelle Hanson, Treasurer; Bernadette Knox, Secretary; Ralf Maxeiner, President), industry (Jason Cosford, Program Chair), and academia (Monica Cliveti, Business Manager; Maria Velez, Co-Program Chair) the 2015 Executive organized and oversaw an equally diverse range of business and social activities. What follows is a brief overview of these undertakings; more detailed accounts are provided in the executive member's and committee chair reports.

The year began with the **2015 Annual General Meeting** (February 7, 2015), which was very well attended largely due to David MacDougall's efforts, who has been the organizer of the AGM for the past two years. David's idea to presell tickets for the meeting resulted in increased attendance. Ken Ashton's honour roll induction and the out-going President's address were the highlights of the evening. The Travelodge once again proved to be a good venue and consequently the executive decided to stay the course for 2016. This year's Annual General Meeting was again planned and organized by Dave MacDougall and the Executive is thankful for his continued commitment.

One of our two main social events of the year is the **Annual Curling Bonspiel**, which took place for the 11th time. This year's event was held at the Tartan Curling Club and as usual was co-hosted by the D.M. Kent Club of Geology. Our business manager Monica Cliveti put her heart and soul into organizing this event and securing a large variety of great prizes from local business sponsors. Unfortunately, the bonspiel was not well attended by our active members, but thanks to the seven student teams it was still a success. First place was fiercely contested and won by one of the student teams (John, Derek, Jared and Keane). A big thank you to Lynn Kelley for coming up with and overseeing the draw.

The **Core Workshop at the Williston Basin Petroleum Conference** (April 28-30) is a hugely important event for our Society, as it is a large revenue generator, which helps fund our regular luncheon speaker program, as well as some of our social events. With the conference in Regina this year (it alternates between North Dakota and Saskatchewan on a yearly basis), it was a committee of local volunteers that made the core workshop possible. The executive of the Society would like to extend a huge thank you to all the committee members led by Dan Kohlruss for donating their time and making this event a success.

Another event that was taken in by many Society members is the **APEGS AGM**, which took place on May 1-2 in Regina, where it is held every second year. Gavin Jensen and David MacDougall were on the organizing committee of that meeting. David MacDougall was instrumental in getting other Society members involved and in particular, he encouraged many of them to volunteer help chair the various technical sessions. A highlight of the event from the Society's perspective was the awarding of APEGS' Outstanding Achievement Award to Dr. Charlie Harper, the third geoscientist to have received this prestigious award.

This year's **Annual Geological Field Trip** ran from August 21-25 and went to western Montana. Led by John Lake, Mike Thomas and assisted by Brian Brunskill and Kim Kreis, 14 more Society members had the opportunity to visit the Archean Stillwater Igneous Complex, the late Devonian Sappington



Formation (Bakken equivalent), the Paleocene Shonkin alkaline laccolith and the Shonkin Sag (glacial spillway). The field trip was expertly guided by local geoscientists.

In late October, the Society published Saskatchewan's first **Geological Wall Calendar**. A committee had been struck earlier in the year to produce this calendar that would feature the province's geology from north to south, Archean to Quaternary, microscopic to landscape. The finished product is meant to educate members and the general public about the geological diversity of our unique province and of course it was also meant to be visually appealing. The idea for the calendar originally came from Germany, where one of the many geological society publishes a yearly geological calendar, with different themes each year. Whether the Saskatchewan Geological calendar will be published again in 2017 has yet to be determined.

The Society offered a great variety of professional development events this year. Our regular luncheon seminars, which were organized by Jason Cosford and Maria Velez, continue to be one of our most constant and important fixtures. They provide a great opportunity to maintain and enhance the geological knowledge of our members and this year in particular, we had a great variety of technical presentation ranging from talks about groundwater, amber research, shale gas, fracking, and Archean plate tectonics. Our business manager Monica Cliveti secured a new luncheon venue, the Artful Dodger, and despite some growing pains in regards to the audio-visual setup the Executive feels we may have found a new long-term home for the luncheon talks. The luncheon talks are a heavily subsidized event and the Artful Dodge will help us save a few dollars going forward as it is less expensive than the Ramada where the talks have been held in the last few years.

The Open House in Saskatoon, of which the Society is a co-host, went over very well and despite a very depressed minerals sector the conference saw near-record attendance. The technical program was diverse and provided a good overview of the province's mineral exploration activities. The public lecture, which is one of two that the Society puts on every year, was very well received. There were between 200 and 300 people in attendance, including many kids. Dr. Grant Zazula, paleontologist with the Yukon government, gave a fascinating and very entertaining presentation on Ice Age mammals. He even had 300 lbs worth of tusks, skulls, and bones on display. Great show and Grant was very engaged and forthcoming. Thanks to our sponsors of the Public Lecture, who support this event every year: APEGS, the Saskatchewan Mining Association and the Saskatchewan Geological Survey.

The Geological Open House has now been part of the Society's annual responsibilities for a few years and as a consequence the Treasurer's position has become increasingly busier and more challenging. Michelle Hanson has done an amazing job at fulfilling the duties of treasurer and it will be difficult to find someone equally dedicated when the time comes.

The Society had a booth at the Open House to sell the geological calendar and to inform delegates what the Society is all about. The executive had decided to produce **two retractable banners** for use at the Open House and these will be good to have for future conferences or other functions where the Society will be represented. One of the panels features the central portion of the Geological Highway Map, the other features the varied activities of the Society, in picture and word. Thanks to Maria Velez for taking



the lead on getting these banners made.

Another professional development opportunity and a first for the Society was a hard-rock short course entitled '**Athabasca Basin Drillcore Workshop**', which was held at the Regina core lab the day after the Saskatchewan Geological Open House on Thursday, December 3, 2015. This short course was the brain child of Colin Card and Sean Bosman, who were also the facilitators of the course. It was fully subscribed with 20 participants and because of the added sponsorship of APEGS was able to generate some much-needed revenue for the Society.

Our second main social event was the **Annual Golf Tournament** on September 11, 2015. In order to attract more interest, the executive had decided to play a 9-hole Texas scramble instead of the regular 18-holes and we picked the Sherwood Forest golf and country club as the venue. Our business manager Monica Cliveti did a great job organizing the tournament and Alice and David MacDougall once again graciously hosted the barbeque at their home. It was a successful event and because everyone liked the new format we will likely continue with 9-hole Texas scrambles.

In late September, Don Kent led about 18 Society members on a wonderful **fieldtrip of the Avonlea Badlands and Claybank icepush features**. We also visited the local museum. The weather was more than cooperative on this trip and the badlands presented themselves in wonderful fall colours.

As vice president, Ryan Morelli was in charge of membership and organizing all the mailouts, as well as always assisting me with much needed advice. Thanks to the efforts of Ryan and Jared Knoll (2015/16 President of D.M. Kent Geology Club), membership numbers remained strong and even increased for the 2015 calendar year. Corporate memberships are up, in part thanks to the Geological Calendar for which companies received a 2016 Corporate Membership. Advice was also received throughout the year from Colin Card (Past President), who was a difficult act to follow.

Our new website has now been mostly updated thanks to the work of our secretary Bernadette Knox, who was also diligent with taking minutes at all the executive meetings and taking care of the Society's publication sales. The Executive plans to continue to make use of our website website to help provide important information to the membership rather than sending the newsletter out as e-mail attachments. The executive meeting minutes are also posted to the website now.

Jared Noll and Shayna Glass (2014/15 President) of the D.M. Kent Geology Club participated and contributed to the executive meetings as student liaisons. I would like to thank the entire outgoing executive for their hard work and their commitment to the Society. And finally I would like to again thank all the committee chairs: John Lake (Field trip), Kate MacLachlan (Education and Outreach), Fran Haidl (Geoscape Saskatchewan), Dan Kohlruss, (Core Workshop, Williston Basin), Don Kent, Jim Christopher, and Dave MacDougall (Honour Roll), Jason Berenyi (Open House), Dave MacDougall (AGM), Ralf Maxeiner (Geological Calendar). Finally, I would like to thank all of our volunteers for this year's events. Thanks for helping the Society achieve its goals.

Respectfully submitted,
Ralf O. Maxeiner, P.Ge.
President



3. VICE-PRESIDENT'S REPORT

There were a total of 197 Saskatchewan Geological Society memberships for all categories for the 2015 calendar year. The breakdown by membership type for the past several years is shown in the table below:

Category	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Active/Lifetime/Emeritus	100	87	105	97	106	107	66	87	106	103
Student	47	22	26	26	78	117	58	67	80	65
Corporate	25	20	18	10	8	6	3	2	14	20
Amateur/Information/Honourary	3	3	3	2	3	4	3	4	7	9
Total	175	132	152	135	195	234	130	160	207	197

With the exception of a minor dip in student members, Society membership numbers for 2015 were very similar to those for 2014. Corporate members were solicited by way of a hard copy letter mail-out, which resulted in a small year-over-year increase in the number of corporate members. Corporate members for 2015 include those who contributed directly to the calendar project. I would like to thank all of our corporate members for their support of the Society this year, particularly given the difficult economic conditions in the petroleum and minerals industries at present. The 2015 corporate members are listed below:

Activation Laboratories Ltd.
Agrium, Vanscoy Potash Operation
Apache Canada Ltd.
APEGGS
Caprice Resources Ltd.
Claude Resources Inc.
D.M. Kent Consulting Geologist
Dension Mines Corp.
Discovery International Geophysics
Fission Uranium Corp.
Foran Mining Corp.

Gem Oil Inc.
Hudbay Minerals Inc.
Husky Energy
Hy-Tech Drilling
J.D. Mollard and Associates
Petroleum Technology Research Centre
Potash Corporation of Saskatchewan
Saskatchewan Research Council
Sphere Energy Corp.
Tundra Oil and Gas

Respectfully submitted,
Ryan Morelli
Vice-President



4. BUSINESS MANAGER'S REPORT

First of all, I would like to thank all the people that have guided my steps and helped me accommodate myself in this new position. As a brand new member of the executive I felt at times a little out of my element, but with the help of everyone we pulled it together. Thank you from the bottom of my heart.

The business year 2015-2016 started for me at the AGM on February 7, 2015 with the admission on the SGS executive. Shortly after that, I found out that I was supposed to organize a Curling Bonspiel for March 7. But again, with the help of everyone we figured it out and put together a successful Curling Bonspiel with large student participation. In fact, one student team won the tournament.

Later on that year we organized one of the biggest yet Golf tournaments in the history of SGS. 54 golfers teed-off at the Sherwood Forest Golf and Country Club, ready, willing and able to take on the challenge and to win the trophy. While most of the participants were geologists, we had a couple of teams from the "outside" world. The trophy was divided between two teams that scored the same amount. Later on that day, we ended the tournament with a delicious BBQ at Alice and David McDougall's place.

The other notable thing in the story of me being business manager was the finding of a new venue for the luncheon meetings. Although it is not perfect, I think it is working for now, and since November, the luncheons have been held at the Artful Dodger. Unfortunately, because of my teaching schedule, I was never able to assist with any of the luncheon talk set-ups or take advantage of the great food the Artful Dodger puts on for us.

That being said, I think it was a positive year for me, in which I have learned a lot about the Society, and I would like to thank all the people that helped me, in fact too many to be named, (but you know who you are). I would also like to thank the generous sponsors that made it possible for us to have prizes for all the curlers and all golfers.

Respectfully submitted,

Monica Cliveti; SGS Business Manager 2015-2016



5. TREASURER'S REPORT

The 2015 Profit and Loss Statement and Balance Sheet are presented at the end of the Treasurer's Report. What follows are the highlights of the Society's financial activity during the 2015 fiscal year, which ended on December 31st, including the following table that summarizes the net surplus/loss of our main events in 2015.

Event	Income	Expenses	Net
AGM/Awards Dinner	\$2050.00	\$3716.08	-\$1666.08
Athabasca Basin Drillcore Workshop	\$5582.62	\$1315.53	\$4267.09
Calendar	\$4173.60	\$4300.88	-\$127.28*
Bonspiel	\$705.00	\$763.92	-\$58.92
Field trip	\$6125.00	\$11,374.38	-\$5249.38
Golf tournament	\$2265.00	\$2039.91	\$225.09
Luncheon talks	\$3635.00	\$13,875.38	-\$10,240.38**
Merchandise/publication sales	\$4102.40	\$98.70	\$4003.70
WBPC Workshop	\$19,700.00	\$6148.80	\$13,551.20

* There is still income outstanding.

** This works out to an average subsidy of ~\$940 per talk.

Our significant sources of income in 2015 included:

- 1) the annual APEGGS Constituent Members grant (\$4000);
- 2) the Williston Basin Petroleum Conference Core Workshop—which is only offered every 2nd year—(\$13,551.20);
- 3) publication sales (\$4003.70), a significant portion of which is via online sales of digital publications through the AAPG Datapages website; and
- 4) the new Athabasca Basin Drillcore Workshop (\$4267.09).

Without these sources of income, the Society would not be able to subsidize some of its core events, such as the AGM, and the annual field trip, but most significantly, the luncheon talks, which were subsidized by \$10,240.38, or \$940 per talk, in 2015.

What follows are a few notes on money in the Society account that can only be used for specific purposes:

- 1) The *Saskatchewan Geological Open House* is meant to be run each year so that the event breaks even. The income and expenses for this event are separate from the main operating budget of the Society; any surplus from this event cannot be used toward regular Society business. Once all bills have been paid and the GST Input Tax Credit received, this account will contain \$34,222.25.
- 2) The one-time grant from the Williston Basin Petroleum Conference that the Society received in 2011 in order to bring in more high-profile speakers for petroleum-related talks has been nearly depleted; \$568.18 remains.
- 3) The one-time grant that comprises the *Geoscape* account will be depleted in the upcoming year; \$1925.58 remains. This account is used to fund educational and outreach programs, in particular the annual elementary school talk and the two annual public lectures in Regina and Saskatoon; it is also used to maintain the Geoscape website. The biggest projected expense from this account is transportation for the elementary school students to attend the annual talk, which is \$2000–3000 annually. Additionally, each public lecture commonly costs between \$600 and \$2600, depending upon the expenses of the speaker. Within the upcoming year, the Society will have to re-allocate funds to educational/outreach events, or locate another external source of funding.



For example, without covering the costs of the busses to the school lectures, we anticipate that attendance for this event will decrease significantly, perhaps to the point of having to cancel the event. The current and upcoming Executive would welcome any suggestions for funding or volunteers to aid in sourcing funding.

The Society thus has \$34,839.69 in its main account for Society events at the end of 2015.

The Society renewed its TD one-year cashable GIC in April. As of April, 18th, 2015, the GIC sits at \$31,578.22; the interest rate is 0.5% and it is cashable in full or part after 30 days without penalty. The GIC will renew automatically at the end of each term, unless we decide otherwise. The Executive decided to invest the money in a one-year cashable GIC is so that it can access the money quickly if needed.

It is a suggested best practice that a non-profit organization such as the Society should have between three and six months of budgeted expenses as reserves. The projected expenses for 2016, without including Open House, and taking into account that we will deplete the Geoscape account and will have to start funding education and outreach, are ~\$53,610; thus, the Society needs between \$13,400 and \$26,800 in reserves. The Society currently has \$34,839.69 in its general account and \$31,578.22 in a GIC and thus has an acceptable amount of money going forward into 2016.

Please note, if you are interested in more regular financial updates, a year-to-date financial update is presented at most Executive Meetings and is included with the Executive Meeting Minutes on our website (www.sgshome.ca/business/meetings).

Respectfully submitted,
Michelle Hanson
Treasurer



Profit and Loss Statement – 2015

Accrual Basis

Saskatchewan Geological Society Incorporated Profit & Loss January through December 2015

INCOME		
<i>AGM Income</i>		
Donations		350.00
Ticket Sales		1,700.00
Total AGM Income		<u>2,050.00</u>
<i>Annual Field Trip Income</i>		
Registration Fees		6,125.00
Total Annual Field Trip Income		<u>6,125.00</u>
<i>Athabasca Basin Core Workshop</i>	2,000.00	→ <i>This amount does not show registration fees of \$4582.62.</i>
<i>Calendar</i>	3,631.78	
<i>Curling Funspiel Income</i>		
Tickets		705.00
Total Curling Funspiel Income		<u>705.00</u>
<i>GIC interest</i>	250.62	
<i>Golf Tournament Income</i>		
Registration Fee		2,265.00
Total Golf Tournament Income		<u>2,265.00</u>
<i>Grants</i>		
A.P.E.G.S.		
Membership Grant		4,000.00
Total A.P.E.G.S.		<u>4,000.00</u>
Total Grants		<u>4,000.00</u>
<i>GST</i>	3,177.29	
<i>Luncheon Income</i>		
Ticket Sales		3,635.00
Total Luncheon Income		<u>3,635.00</u>
<i>Membership Dues</i>		
Active	1,941.01	
Corporate	1,286.50	
Student	428.20	
Total Membership Dues		<u>3,655.71</u>
<i>Merchandise Sales</i>		
Access Copyright Income	50.19	
Datapages Royalty Fees	2,878.23	
Postage and Handling	149.17	
Promotional Materials	418.56	
Volume Sales	606.25	
Total Merchandise Sales		<u>4,102.40</u>
<i>Misc. income</i>	29.41	→ <i>Banking error on USD transaction that is rectified elsewhere.</i>



Saskatchewan Geological Society Incorporated
Profit & Loss
 January through December 2015

<i>Open House - Society related</i>	
Public Lecture	
Sponsorships	500.00
Total Public Lecture	<u>500.00</u>
Total Open House - Society related	500.00
<i>Open House Conference</i>	82,727.01 → <i>Includes \$1000 from Open House 2014.</i>
<i>Public Lecture - Regina</i>	
Sponsorships	500.00
Total Public Lecture - Regina	<u>500.00</u>
<i>Will. Basin. Pet. Conf. Income</i>	<u>19,700.00</u>
Total Income	139,054.22
<i>Cost of Goods Sold</i>	
Cost of Goods Sold	857.50
Total COGS	<u>857.50</u>
Gross Profit	138,196.72
EXPENSE	
<i>AGM Expenses</i>	
Catering	3,383.33
Door prize	18.85
Misc.	70.68
Misc. award	53.77
Plaque Engraving	64.80
Rock Hammer Purchase	124.85
Total AGM Expenses	<u>3,718.08</u>
<i>Annual Field Trip Expenses</i>	
Accommodations	4,803.33
Field Guide Preparation	748.83
Fuel	762.47
Groceries	1,220.51
Miscellaneous	603.15
Printing	23.88
Registration Refund	200.00
Vehicle Rental	2,738.67
Annual Field Trip Expenses - Other	273.54
Total Annual Field Trip Expenses	<u>11,374.38</u>
<i>Awards</i>	
Lazlo Fuzesy 2nd Place	150.00
President's Award	250.00
Robert Milner	250.00
Travel Expenses	284.69
Walter Kupsch	250.00
Total Awards	<u>1,184.69</u>
<i>Banners, retractable</i>	655.60



Saskatchewan Geological Society Incorporated
Profit & Loss
 January through December 2015

<i>Calendar, SGS publication</i>	
Mailing	134.08
Printing	4,166.80
Total Calendar, SGS publication	<u>4,300.88</u>
<i>Canada Post</i>	
P.O. Box Rental	180.60
Speaker gift postage	116.73
Stamps	142.80
Volume Postage	89.83
Total Canada Post	<u>529.96</u>
<i>Curling Funspiel</i>	
Catering	403.20
Ice Rental	315.00
Misc.	45.72
Total Curling Funspiel	<u>763.92</u>
<i>Executive Meeting Expenses</i>	
Food and Beverage	584.58
Total Executive Meeting Expenses	<u>584.58</u>
<i>Geoscape</i>	
Open House Public Lecture	837.02
Regina Public Lecture	544.53
School lecture	
Bussing	1,922.20
Lunch for volunteers	266.00
Planning committee expenses	245.46
Speaker gift	100.00
Supplies	189.92
Total School lecture	<u>2,723.58</u>
Total Geoscape	4,105.13
<i>Golf Tournament</i>	
Alcohol	391.04
BBQ Supplies	189.01
Catering	250.00
Green Fees	1,209.86
Total Golf Tournament	<u>2,039.91</u>
<i>GST Expenses</i>	3,794.01
<i>Insurance</i>	
Liability Insurance	1,207.00
Total Insurance	<u>1,207.00</u>
<i>Luncheon Expenses</i>	
A.A.P.G. Distinguished Lectures	1,470.33
Catering	7,428.84
Speaker Expenses	4,088.00
Speaker gifts	912.21
Total Luncheon Expenses	<u>13,879.38</u>
<i>Office Supplies</i>	107.58



Saskatchewan Geological Society Incorporated
Profit & Loss
 January through December 2015

<i>Open House - Soc. related</i>			
Booth-related expenses	1,242.16		
<i>Core workshop</i>			
Catering	491.15		
Printing	651.00		
Total Core workshop	1,142.15		
U. of R. Student Travel Subsidy	250.00		
Total Open House - Soc. related	2,634.31		
<i>Open House Conf.</i>		→	<i>Because some of the 2014 bills were paid in 2015 and some of the 2015 bills were paid in 2016, these numbers do not accurately reflect annual expenses.</i>
Conference venue & food	44,002.47	→	<i>2014; 2015 paid in 2016</i>
Displays	10,376.82	→	<i>2014; 2015 paid in 2016</i>
Door prize	262.74		
Misc. items	3,127.42		
Program printing	692.60		
Short Course	11,249.52	→	<i>2014 & 2015</i>
Signage	897.12		
Website	3,087.01		
Total Open House Conf.	73,695.70		
<i>Publication printing</i>	94.00		
<i>SCIEMATICS</i>	128.12		
<i>SGS Website</i>			
Development	68.76		
Hosting	660.00		
Total SGS Website	728.76		
<i>TD Bank Expenses</i>	36.67	→	<i>Rectification of banking error on USD transaction, noted above.</i>
<i>Will. Basin. Pet. Conf.</i>			
<i>Core Workshop</i>			
Audio Visual	561.80		
Catering	2,428.63		
Misc.	203.94		
Planning meeting catering	64.73		
Workshop volume printing	2,889.70		
Total Core Workshop	6,148.80		
Total Will. Basin. Pet. Conf.	6,148.80		
Total Expense	131,719.46		
NET INCOME	6,477.26	→	<i>Note that this number is not the same as on the Proposed Budget 2016 sheet under 2015 Actual because that sheet only takes into account major events/items.</i>



Balance Statement – 2015

Accrual Basis

Saskatchewan Geological Society Incorporated

Balance Sheet

As of December 31, 2015

Dec 31, 15

ASSETS

Current Assets

Chequing/Savings

Chequing

Deferred Revenue	461.91	→	2016 memberships paid for in 2015.
Geoscape	1,925.58		
SK Geological Open House	78,785.76	→	This account will be \$34,222.25 once all related accounts payable are paid in 2016 and GST Income Tax Credit is received.
WBPC talks grant	588.18		
Chequing - Other	34,839.09		

Total Chequing 116,581.12 → This will be \$72,017.61 once the Open House account is rectified.

Pettie Cash 300.00

Total Chequing/Savings 116,881.12 → This will be \$72,317.61 once the Open House account is rectified.

Accounts Receivable

Accounts Receivable	2,920.64	→	This includes \$1000 owed to Open House that will be received shortly, and unpaid publication sales from 2009-2013; the Society has since instituted a pay-first policy for publication sales.
Total Accounts Receivable	2,920.64		

Other Current Assets

Inventory Asset	-818.75	→ (1)	(1) In 2014, the Executive decided to write down the value of its publications. The software thus currently thinks we do not have sufficient inventory to sell and makes this calculation. The Treasurer has yet to figure out how to address this in the software.
Undeposited Funds	4,132.40	→ (2)	(2) Undeposited funds includes the APEGS Constituent Members Grant and Calendar income that was received after Dec. 31, 2015.
Total Other Current Assets	3,313.65		

Total Current Assets 123,115.41 → (3) (3) Total Current Assets will be \$79,370.65 once Open House account is rectified.

Fixed Assets

Dell Laptop	1,768.05		
Total Fixed Assets	1,768.05		

Other Assets

TD GIC	31,578.22		
Total Other Assets	31,578.22		

TOTAL ASSETS 156,461.68 → This will be \$112,716.92 once the Open House account is rectified.

LIABILITIES & EQUITY

Liabilities

Current Liabilities

Accounts Payable			
Accounts Payable	47,065.25	→	\$46,195.25 of this is related to the Open House venue and was paid in early 2016.
Total Accounts Payable	47,065.25		
Total Current Liabilities	47,065.25		

Total Liabilities 47,065.25

Equity

Opening Bal Equity	126,924.49		
Retained Earnings	-24,005.32		
Net Income	8,477.26		
Total Equity	109,396.43		

TOTAL LIABILITIES & EQUITY 156,461.68



Proposed 2016 Budget

	2013 Actual		2014 Actual		2015 Actual		3-year average	2016 Proposed		NOTES
	Main	Sub	Main	Sub	Main	Sub		Main	Sub	
NET SURPLUS/LOSS	\$ 7,398.64		\$ (4,796.97)		\$ 9,458.34		\$ 4,020.00	\$ (12,560.00)		→ more commonly than not. It has run a deficit eight out of the last 13 years. Additionally, the presence or absence of the WBPC workshop income significantly affects the Net Surplus/Loss.
INCOME	\$124,153.26		\$109,010.53		\$140,109.63		\$ 124,424.47	\$125,800.00		
Annual General Meeting	\$ 1,220.00		\$ 2,205.00		\$ 2,050.00		\$ 1,825.00	\$ 2,100.00		
APEGS constituent society grant	\$ 4,000.00		\$ 4,000.00		\$ 4,000.00		\$ 4,000.00	\$ 4,000.00		
Athabasca Basin Drillcore Worksho	n/a		n/a		\$ 5,582.62		n/a	\$ 5,600.00		
Sponsorship					\$ 1,000.00		n/a	\$ 1,000.00		
Registration					\$ 4,582.62		n/a	\$ 4,600.00		
Calendar	\$ -		\$ -		\$ 3,711.40		n/a	\$ 4,200.00		
Sponsorship					\$ 2,032.10		n/a	\$ 2,500.00		
Sales					\$ 1,679.30		n/a	\$ 1,700.00		
Curling bonspiel	\$ 780.00		\$ 885.00		\$ 705.00		\$ 790.00	\$ 800.00		
Education & Outreach							n/a			
School talk bussing		\$ -		\$ -		\$ -	n/a	\$ 1,000.00		Estimated based on 16 regular participants at \$500 & two student participants at \$250.
Field trip	\$ 5,510.00		\$ 2,500.00		\$ 6,125.00		\$ 4,711.67	\$ 8,500.00		→
Golf tournament	\$ 2,570.00		\$ 1,275.00		\$ 2,265.00		\$ 2,036.67	\$ 2,100.00		
Luncheon meeting tickets	\$ 3,950.00		\$ 3,530.00		\$ 3,635.00		\$ 3,705.00	\$ 3,700.00		→ (1) Raising the cost of luncheon tickets to \$20 from \$15 for members, could increase income by ~\$1100. (2)
Membership Dues	\$ 2,324.10		\$ 4,233.04		\$ 3,655.71		\$ 3,404.28	\$ 3,500.00		→ Similarly, raising the cost of active memberships from \$25 to \$35 would
Merchandise/publication sales	\$ 3,949.16		\$ 3,432.49		\$ 4,102.40		\$ 3,828.02	\$ 3,800.00		
SK Geological Open House conferen	\$ 76,850.00		\$ 85,750.00		\$ 83,577.50		\$ 82,059.17	\$ 85,700.00		
City of Saskatoon grant		\$ 1,000.00		\$ 1,000.00	\$ 1,000.00		\$ 1,000.00	\$ 1,000.00		
Exhibitor booths		n/a		\$ 45,750.00	\$ 49,612.50		n/a	\$ 49,700.00		
Exhibitor booths/sponsorship		\$ 59,600.00		n/a	n/a		n/a	n/a		
Short course registration		\$ 16,250.00		\$ 17,500.00	\$ 10,965.00		\$ 14,905.00	\$ 13,000.00		
Sponsorship		n/a		\$ 21,500.00	\$ 22,000.00		n/a	\$ 22,000.00		
Sponsorships	\$ 500.00		\$ 1,200.00		\$ 1,000.00		\$ 900.00	\$ 800.00		
Corporate		\$ -		\$ 400.00			n/a	\$ -		
Open House Public Lecture		\$ 500.00		\$ 500.00	\$ 500.00		\$ 500.00	\$ 500.00		
Regina Public Lecture		\$ -		\$ 300.00	\$ 500.00		\$ 266.67	\$ 300.00		
WBPC workshop	\$ 22,500.00		\$ -		\$ 19,700.00		n/a	\$ -		
EXPENSE	\$116,754.62		\$113,807.50		\$130,651.29		\$ 120,404.47	\$138,360.00		
Accounting	\$ -		\$ 3,960.00		\$ -		n/a	\$ 4,000.00		→ This money is only necessary if the membership votes at the AGM to do a review engagement report. If the membership votes to do a financial audit, more money will be required.
Administrative	\$ 232.43		\$ 17.65		\$ 37.58		\$ 95.89	\$ 100.00		
Annual General Meeting	\$ 1,279.47		\$ 3,023.75		\$ 3,716.08		\$ 2,673.10	\$ 3,500.00		
Athabasca Basin Drillcore Worksho	n/a		n/a		\$ 1,355.53		n/a	\$ 1,400.00		
Catering					\$ 531.15		n/a	\$ 550.00		
Fees (Stripe)					\$ 142.38		n/a	\$ 150.00		
Printing					\$ 682.00		n/a	\$ 700.00		
Awards/Grants	\$ 3,354.90		\$ 2,459.65		\$ 1,434.69		\$ 2,416.41	\$ 2,900.00		
John Lewry Travel Grant		\$ 1,000.00		\$ 1,000.00	\$ -		n/a	\$ 1,000.00		
AGM awards		\$ 1,804.90		\$ 1,159.65	\$ 1,184.69		\$ 1,383.08	\$ 1,400.00		
Open House travel subsidy		\$ 550.00		\$ 300.00	\$ 250.00		\$ 366.67	\$ 500.00		
Banners	\$ -		\$ -		\$ 655.60		n/a	n/a		
Calendar (printing & mailing)	\$ -		\$ -		\$ 4,300.88		n/a	\$ 4,300.00		
Canada Post (postage & post box re	\$ 367.93		\$ 407.06		\$ 529.96		\$ 434.98	\$ 450.00		
Curling bonspiel	\$ 995.00		\$ 730.00		\$ 763.92		\$ 829.64	\$ 850.00		
Education & Outreach	\$ 7,039.62		\$ 4,616.66		\$ 4,583.25		\$ 5,413.18	\$ 7,600.00		
Open House Public Lecture		\$ 2,567.81		\$ 2,350.14	\$ 837.02		\$ 1,918.32	\$ 2,000.00		
School talk bussing		\$ 3,281.58		\$ -	\$ 1,922.20		n/a	\$ 2,600.00		
School talk misc.		\$ 423.71		\$ -	\$ 801.38		n/a	\$ 500.00		
Geoscape website		\$ 316.52		\$ 1,916.52	\$ -		n/a	\$ 750.00		
Regina Science Fair		\$ 350.00		\$ 350.00	\$ 350.00		\$ 350.00	\$ 350.00		
Regina Public Lecture		\$ -		\$ -	\$ 544.53		n/a	\$ 1,400.00		
SCIEMATICS		\$ 100.00		\$ -	\$ 128.12		n/a	\$ -		
Field Trip	\$ 7,929.29		\$ 4,919.01		\$ 11,374.38		\$ 8,074.23	\$ 11,300.00		→ Historically, the field trip is subsidized by ~\$2800 on average. Above that, participants may be expected to pay higher fees.
Golf Tournament	\$ 3,729.19		\$ 1,494.18		\$ 2,039.91		\$ 2,421.09	\$ 2,500.00		
Insurance	\$ 400.00		\$ 1,195.00		\$ 1,207.00		\$ 934.00	\$ 1,210.00		
Luncheon meeting (catering)	\$ 10,982.04		\$ 7,417.86		\$ 7,428.84		\$ 8,609.58	\$ 7,500.00		
Lunches for Executive Meetings	\$ 420.56		\$ 882.72		\$ 594.58		\$ 632.62	\$ 650.00		
Publications (printing)	\$ -		\$ -		\$ 98.70		n/a	\$ 100.00		
SK Geological Open House conferen	\$ 72,078.84		\$ 69,600.74		\$ 77,202.29		\$ 72,960.62	\$ 84,750.00		→ The Open House conference expenses are based on Open House income and will never run a deficit.
A/V		\$ -		\$ -	\$ -			\$ 7,500.00		
Conference venue & catering		\$ 46,482.58		\$ 45,878.14	\$ 46,195.25		\$ 46,185.32	\$ 46,500.00		
Displays		\$ 9,575.27		\$ 10,322.59	\$ 10,871.47		\$ 10,256.44	\$ 11,000.00		
Lanyards & badges		\$ -		\$ -	\$ 1,870.00			\$ 1,400.00		
Misc.		\$ 50.00		\$ 329.73	\$ 382.87		\$ 254.20	\$ 400.00		
Program		\$ -		\$ -	\$ 727.23		\$ 242.41	\$ 750.00		
Short course		\$ 10,573.67		\$ 4,723.66	\$ 7,065.24		\$ 7,454.19	\$ 7,500.00		→ The short course is run to break even. If enrolment is not high enough, the course will be canceled.
Signage		\$ -		\$ -	\$ 939.84			\$ -		
SK Geol. Society honorarium &		\$ 1,000.00		\$ 1,000.00	\$ 2,242.16		\$ 1,414.05	\$ 2,300.00		
Tote bags		\$ -		\$ -	\$ 1,293.60			\$ 1,300.00		
Fees (PayPal/Stripe)		\$ 1,805.99		\$ 2,465.36	\$ 2,380.61		\$ 2,217.32	\$ 2,500.00		
Website		\$ 2,591.33		\$ 4,881.26	\$ 3,234.02		\$ 3,568.87	\$ 3,600.00		
Speaker Expenses	\$ 7,327.93		\$ 6,790.70		\$ 6,450.54		\$ 6,856.39	\$ 4,500.00		→ The Society intends to focus more on local speakers in 2016, and thus has decreased proposed expenses in this
Misc. (honorariums, AAPG fees)		\$ 3,404.92		\$ 2,941.09	\$ 1,470.33		\$ 2,605.45	\$ 1,500.00		
accommodation		\$ 1,741.85		\$ 1,246.38	\$ 1,587.49		\$ 1,525.24	\$ 1,300.00		
food		\$ -		\$ 2,603.23	\$ 525.51		n/a	\$ 600.00		
transportation		\$ 2,181.16		\$ -	\$ 1,955.00		n/a	\$ 1,100.00		
speaker gifts		\$ -		\$ -	\$ 912.21		n/a	n/a		
Website	\$ 211.60		\$ 6,292.52		\$ 728.76		\$ 2,410.96	\$ 750.00		
WBPC Workshop	\$ 405.82		\$ -		\$ 6,148.80		n/a	n/a		

* Items in red are still outstanding and/or estimations at the time of budget production.

6. PROGRAM CHAIR'S REPORT

The SGS speaker program saw several changes and new initiatives in 2015. Responding to the comments and concerns of our members, the executive sought different venues for the luncheon talks, including a classroom at the University of Regina and on the stage at the Artful Dodger. The luncheon talks will continue to be held at the Artful Dodger. Another suggestion that we implemented this year was to resume an annual public lecture at the University of Regina (Dr. Francesco Berna spoke on the history of humans controlling fire). A total of 11 luncheon talks were held in Regina (several of which were given later to the Department of Geology at the University of Regina) along with one public lecture at the University of Regina and one public lecture at the SGS Open House in Saskatoon. We would like to extend our thanks to all of the speakers in 2015 for the high quality of the talks, and to the members and guests who attended the talks.

Following are a list of the talks hosted by the SGS in 2015:

Dr. Jean Bedard, GAC Howard Street Robinson Lecturer

January 22, 2015

Continental Drift on Subductionless Stagnant Lid Planets, the Archean Earth and Venus

Dr. Barry Katz, AAPG Distinguished Lecturer

January 22, 2015

Anatomy of a Petroleum Source Rock

Ms. Deb Shewfelt, North Rim Exploration

February 23, 2015

Saskatchewan Potash - Understanding and Ancient Dead Sea to Sustain Modern Life

Dr. Ali Polat, GAC W.W. Hutchison Lecturer

March 13, 2015

Convergent Plate Boundary Processes in the Early Earth: Evidence from West Greenland

Dr. Andrew Cohen, University of Arizona

March 19, 2015

Reflections on African Rift Lakes: A Journey Through The History of the World's Most Interesting Lakes

Dr. Taury Smith, AAPG Distinguished Lecturer

April 17, 2015

Environmental Implications of the Shale Gas Revolution

Dr. Ryan McKellar, Royal Saskatchewan Museum

May 6, 2015

Amber Research within Saskatchewan and Western Canada



Dr. Francesco Berna, Simon Fraser University
September 24, 2015
How and when did humans start controlling fire?

Dr. Edwin Cey, University of Calgary
October 7, 2015
Managing (ground)water resources: Are we getting it right?

Dr. Stew Hamilton, CPTG Lecture Tour (Ontario Geological Survey)
October 18, 2015
The Advantages of Wide-Spectrum Geochemical Sampling of Groundwater: 101 Uses Beyond "Water Quality Data"

Dr. Stephen Piercey, Howard Street Robinson Distinguished Lecturer
November 24, 2015
Zn-rich Volcanogenic Massive Sulphide (VMS) Deposits

Dr. Grant Zazula, Government of Yukon
December 1, 2015
Saskatchewan Geological Open House Public Lecture, Saskatoon
Mammoths, camels and lions, oh my! - Ice Age Mammals of Northern Canada

Mr. Ralf Maxeiner, Saskatchewan Geological Survey
December 18, 2015
SGS Montana Field Trip: Stillwater Complex, Sappington Formation, and Shonkin Sag and Laccolith

For the upcoming 2016 session, check for dates and locations of the following speakers:

Julia Wellner – AAPG Distinguished Lecturer; January 25th (Antarctic sedimentary archives)

Luc Chabanole – University of Saskatchewan (Bakken Formation)

Joyce McBeth – University of Saskatchewan (Microbiology of mine sites)

William McKinnon – University of Missouri (Pluto)

Mike Demuth – NRCan (State of Canadian glaciers)

Colin Card – Saskatchewan Geological Survey (Uranium mineralization)

Kate McLachlan – APEGS (Ethics in geoscience)

We are always looking for speakers so if anyone has any suggestions please contact us.

Respectfully submitted,
Jason Cosford, Program Chair
Maria Velez, Assistant Program Chair



7. COMMITTEE REPORT'S

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 2016.

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 geoscapesk email address. The geoscapesk website has been transferred to the main SGS website and we plan to update and improve the site, including the many broken links. However, funding for geoscape-related activities is running out and we are looking for new funding sources.

School Lecture

In 2015 the school lecture moved back to the spring from the fall. The event was separated into two different talks for grades 4 and 5 and grades 7 and 8, on different days with different speakers. The lectures were held on April 21st and 22nd, 2015 at Miller High school. The topic was gold and base metals in Saskatchewan and the speakers were Ryan Morelli and Colin Card from the Saskatchewan Geological Survey. Approximately 800 students attended over the two days. In addition to the presentations there were six hands-on activities that the students participated in. We could not have managed this without U of R geology student volunteers who helped run the activities. The event was well received and we plan on a similar format and time frame for the 2016 school lecture, which will be on uranium in Saskatchewan. We were not successful in obtaining additional funding for bussing this year, but we will continue to look for other opportunities.

Public Lectures

The public lectures were organized by the Program Chair and Program Co-chair. The lecture in Regina and was entitled "How and when did humans start controlling fire?" The talk was given by Dr. Francesco Berna, Department of Archaeology, Simon Fraser University on Thursday Sept 24th 7:00 p.m. It was held at the University of Regina and co-sponsored with the Biology and Geology departments. The talk was well received and well attended.

The Saskatoon public lecture was held in association with the Saskatchewan Geological Open House. This year we were very pleased to have Dr. Grant Zazula, Paleontologist with the Yukon Government present a talk entitled "Mammoths, Camels and Lions, Oh My!" Tuesday December 1st, at the Delta Bessborough Hotel. The talk was excellent and very well attended and attendees really appreciated getting to look at some of the fossils that were on display before and after the talk. This talk was co-sponsored by the Saskatchewan Mining Association (SMA) and the Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS).

Other



The SGS had a booth at Sciematics 2015 at University of Regina, but unfortunately traffic from teachers was very limited and it may not be worth participating in this event again in the future. In October 2015 many SGS members volunteered at a one day “MAP” (Minerals and Products) event for grade 7 and 8 students in Regina, organized by Saskatchewan Mining Association.

The SGS Education and Outreach Committee is looking for volunteers to help run our activities in 2016. 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.ca).

Respectfully submitted,
Kate MacLachlan
EOC Chair

Field Trip Committee Report

EOC Chair: John Lake
Members: Mike Thomas
Kim Kreis

Eighteen lucky geologists and students attended the SGS Field Trip to Montana from August 21-25, 2015. We spent three days looking at rocks ranging in age from Early Precambrian to Pleistocene. Dr. Ennis Geraghty (Stillwater Mining Co.) showed us the Precambrian Stillwater Layered Igneous Complex. The intrusion has a long history of base metal, chromium, and now rare earth element mining. Dr. Michael Hoffman and his graduate students (University of Montana, Missoula) showed us outcrops of the Devonian Sappington Formation (Bakken equivalent). Chris Croff (Geological Engineering Consultant) and Ron Lang (local rancher whose family has homesteaded in the Great Falls area since 1874) showed us the Palaeogene Shonkin Sag Alkalic Laccolith as well as the effects of Glacial Lake Great Falls on the topography in the Highwood Mountains. All of the field trip leaders showed us excellent hospitality and we were seriously considering changing our name to the Montana Geological Society in recognition of the magnificent and varied geology and scenery on display there. Many thanks to these leaders and to the participants for making the trip another unforgettable one for the Society.

And it should be noted that it was with great sorrow that we learned of the recent passing of Dr. David Baker of Monarch, Montana, a close associate and friend of Chris’s and Ron’s. Dr. Baker, a self-proclaimed “tectonophysicist”, became somewhat of a legend in our Society when, during the 1992 field trip to the Great Falls area, he saw us staring at some roadside outcrops and proceeded to “highjack” the trip. For the next 2 days, he led us around to some spectacular outcrops, accompanied by equally spectacular commentary from a man who knew the country intimately. He is greatly missed both by those who knew him well, and also by those who may have come to know him more haphazardly, during chance “highjackings” and such.

Respectfully submitted,
John Lake, SGS Field Trip Coordinator



Geological Calendar Committee Report

Chair: Ralf Maxeiner

Members: Jason Cosford
Bernadette Knox
Michelle Hanson
Monica Cliveti
Ken Ashton
Janis Dale

As a first in 2015, the Society undertook the production of a 2016 geological wall calendar designed to educate the general public about Saskatchewan geology and its impact on our lives and prosperity. Monthly photos feature various scenes from the 3.4 billion years of Earth history thus far recorded in the province from outcrop scale to landscape views spanning the Precambrian Shield in the north to the southern prairies. The creatively designed wall calendar has four educational pages at the beginning that briefly highlight the geological time scale, the province's geology, mineral resources and the varied jobs that geologists hold. The main monthly photographs were donated by Society members and are varied and visually appealing, all highlighting various geological appealing features.

The 2016 Geological Calendar is available for the prize of \$10 for individual copies and at a reduced rate if purchased in multiples. At the time of writing in January, the calendar had failed to break even, although it came close. We had printed 1000 calendars, and we were left with about 300 calendars most of which were distributed for free to Regina and surrounding schools. I think the calendar fits the purpose of what the Society is all about, which is to promote the study and practice of the earth sciences and to promote the earth sciences among the general public. Provided the committee is committed to continue on and provided the next Executive approves it, I would be willing to try a 2017 edition of the calendar, now that we know how to go about it.

The following sponsors are thanked for their generous contributions towards the 2016 Geological Wall Calendar: The Saskatchewan Mining Association, Activation Laboratories Ltd., Caprice Resources Ltd., D.M. Kent Consulting Geologist, Denison Mines Corp., Discovery Int'l Geophysics, Foran Mining Corporation, Hudbay Minerals Inc., Hy-Tech Drilling, J.D. Mollard and Associates, Petroleum Technology Research Centre, Rio Tinto Canada, Saskatchewan Research Council, Western Potash Corp.

INCOME	\$4173.60		EXPENSE	\$4300.88	
Sponsorship	\$2032.10		Printing	\$4166.80	
Sales	\$2141.50		Mailing	\$134.08	
					NET = -\$127.28

Respectfully submitted,
Ralf Maxeiner
Geological Calendar Chair



Geological Open House Committee Report

Chair: Jason Berenyi

Society reps:

Ralf Maxeiner

Colin Card

Michelle Hanson

Murray Rogers

Survey reps:

Keara Lueke

Thomas Love

Deirdre O'Donohoe

Dustin Zmetana

The 46th Annual Open House was held Nov. 30th – Dec. 2nd, 2015 at the Delta Bessborough Hotel in Saskatoon. Despite the tough economic times that the minerals industry is currently facing, the conference was very well attended with over 750 delegates and over 60 exhibitors. There were 38 geologic posters on display with 21 student presenters.

Four technical sessions were held from Dec. 1st and 2nd and featured 29 geoscience talks by Survey staff, industry and academic researchers. Thirty-four delegates attended a terrain analysis short course instructed by J.D. Mollard and Associates Ltd and 18 delegates attended a uranium drill core logging workshop hosted by the Society and sponsored by the Ministry of the Economy and APEGS. We were pleased to once again be able to offer our delegates affordable geoscience learning opportunity hosted in Saskatchewan.

A break-down of the income and expenditures related to the conference is included below courtesy of Michelle Hanson and Deirdre O'Donohoe.

The Saskatchewan Geological Survey and the members of the Open House Organizing committee would like to thank the Society for its continued involvement in, and support of, the province's premier geoscience conference.



Open House 2015 Summary			
INCOME	Amount		
Item	(including GST)	GST collected	Notes
Exhibitor booth fees (63 @ \$750 + \$37.50 GST)	\$ 49,612.50	\$ 2,362.50	
Short course fees (35*\$300 + \$15 GST)	\$ 10,965.00	\$ 465.00	Four Saskatchewan government employees did not pay GST
Sponsorship			
Conference level sponsor (15 @ \$500)	\$ 7,500.00		
Major level sponsor (6 @ \$1250)	\$ 7,500.00		
Other (City of Saskatoon)	\$ 1,000.00		
Premier level sponsor (4 @ \$1750)	\$ 7,000.00		
Subtotal	\$ 83,577.50	\$ 2,827.50	
<i>Carry-over from 2014</i>	\$ 27,215.30		
Subtotal	\$ 110,792.80		
EXPENSES	Amount		
Item	(including GST)	GST paid	
Displays	\$ 10,871.47	\$ 494.65	
Fees (PayPal/Stripe)	\$ 2,380.61		
Miscellaneous			
Door prize	\$ 275.25	\$ 12.51	
Lanyards & badges	\$ 1,870.00	\$ 85.00	
Office supplies	\$ 107.62	\$ -	
Signage	\$ 939.84	\$ 42.72	
Tote bags	\$ 1,293.60	\$ 58.80	
Program	\$ 727.23	\$ 34.63	
SK Geological Society honorarium & expenses	\$ 2,242.16	\$ 54.70	
Short course	\$ 7,065.24	\$ 336.44	
Venue & catering	\$ 46,195.25	\$ 2,192.78	
Website	\$ 3,234.02	\$ 147.01	
	\$ 77,202.29	\$ 3,459.24	
	Income before GST remittance	GST to remit	
	\$ 6,375.21	\$ (631.74)	
<i>with 2014 carry-over</i>	\$ 33,590.51		
	Income after GST remittance		
	\$ 7,006.95		
<i>with 2014 carry-over</i>	\$ 34,222.25		

Respectfully submitted,
Jason Berenyj; Open House Committee Chair



8. SASKATCHEWAN GEOLOGICAL SOCIETY AWARDS

Honour Roll Committee Report

Honour Roll Citation for Kenneth E. Ashton, Ph.D., P.Geo. - inducted at the AGM on Feb. 7, 2015

PROLOGUE

On September 6, 1952, in Toronto Ken Ashton was born to Earl and Edith Ashton. It was the year that King George VI died and Elizabeth II became Queen. In Argentina, Eva Peron died. The Cold War had become a grim reality, the Korean War was in full swing and the Vietnam War was just beginning. In that same year, Helsinki hosted the games of the XV Olympiad and in the United States, former general and supreme allied commander Dwight D. Eisenhower won the presidential election in a landslide victory. And on the high seas, the new superliner United States won the Blue Riband on her maiden voyage.

THE EARLY YEARS...

The family moved to Scarborough when Ken was about 2 and the family home was there until Earl moved to a Nursing home in Guelph, where Ken's younger sister Jan and family now live.

It was at their cottage on the lake that the family spent many happy summers and where Ken got his interest in geology. It was in the Precambrian Shield surrounded by bare outcrops of high grade Precambrian rocks. When he was about nine his parents took him to the local Bancroft Jamboree, a huge rock and mineral show. From then on he was truly hooked!

Later, when the cottage was sold, his parents bought a trailer. Over the next decade they travelled all over North America, from Mexico to BC to PEI across Canada and the United States. Ken's mother greatly encouraged him in his interest in rocks. She would get his father to stop the car with trailer in tow, so Ken could look at rock exposures! His father made special rock crates for Ken's collection: he had many crates of rocks in the family garage.

He also had an interest in Ham Radio and had his Operator's Licence and call sign. Later, like every teenager of the times, he got his first car and played hockey

Having developed a great love of the outdoors and natural history as a young man, Ken spent one summer as a Junior Ranger in Northern Ontario, along the bleakest part of the TransCanada at Dryden. At that time he was thinking about working for the National Parks Service as a career.

I DON'T KNOW THE SAME THING YOU DON'T KNOW... (EDUCATION)

After attending Winston Churchill High School in Scarborough, Ken entered the University of Toronto where he gained a B.Sc., in Geology. This was followed by a Masters' thesis from the University of Saskatchewan entitled *The Geology of the Milton Island Map Sheet (East Half), Saskatchewan (64D/10E)* and a Ph.D., from Queens University in Kingston on the subject



Precambrian geology of the southeastern Amer Lake area (66H/1) near Baker Lake, N.W.T.

As most grad students do he supplemented his income teaching field and lab classes.

At last came the last of several Graduations.

A FINE ROMANCE...

It was while completing his Ph.D., that he met his future wife Janis, who was herself taking a doctorate in geography. She assisted in hand-colouring with pencil crayons the six or seven copies of each of the maps that were to accompany the final copy of Ken's thesis. To quote Janis: "He was very particular and it took hours. I knew he must really like me because I mis-coloured a small 1/2" square of the large map and he had to start all over again!!! And he was still nice to me afterwards (i.e. I am still alive!)."

They had been introduced by a mutual friend, sedimentologist Dr. Brian Zaitlin who was about to leave for Australia. He thought neither of the two of them would have anyone to talk to once he had left. So Dr. Zaitlin arranged a skiing date for them after Chinese New Year assuring Janis that it would be a group going. However, according to Janis, Ken showed up the next morning alone. On the trip, they not only fell on the slopes but also fell for each other.

They were married two years after they first met, on October 22, 1988, a cold freezing rainy day. Janis started the day with a flat tire on the way to get her hair done and Ken started the day with his two nervous groomsmen, Brian Zaitlin his best man and Alaine Leclair a dear friend, arguing over which ties to wear. Ken was typically unflappable, even when Janis arrived late. Both Brian and Alaine were convinced she had changed her mind.

WORKING IN GEOLOGY...

From 1974 to 1984 while working on his M.Sc and Doctorate Ken held various summer jobs as geological assistant mainly with Geological Survey of Canada.

His first full mapping contract with the Geological Survey of Canada was to commence after his Ph.D. Both he and Janis were working three months of every summer in the field for the next three years. During his time with the Geological Survey of Canada, both as a summer field assistant and contract geologist Ken worked all over the Northwest Territories, in the Arctic on the Melville Peninsula and Bathurst Inlet, also on the Gaspé Peninsula in Quebec and in Newfoundland.

Janis recalls he had a great field crew in those years, who were amazing musicians (Ken plays the guitar), one whom is now a professional folk singer. They used to play and sing in the evenings.

From 1988 to 1989 Ken worked for Manitoba Energy and Mines as a contract geologist, continuing his mapping of the Kisseynew Gneisses and adjacent terrains in both Saskatchewan and Manitoba.



IT'S A GREAT BIG PLACE, FILLED WITH NOTHING BUT SPACE... (SASKATCHEWAN)

When the initial mapping of Saskatchewan got underway in the 1960s and early 1970s it might be said that geologists were describing the face of the clock. By the late 1970s geologists became more and more interested in the workings beneath the face. Traditional mapping and presentation of two-dimensional bedrock geological maps was by now giving way to three-dimensional syntheses of the structure and geological history of the ground beneath. This has been Ken's major contribution to the geology of northern Saskatchewan; the synthesis and integration of not only his own work, but the work of others and of the results of the increasing number and variety of geophysical, geochemical surveys and accurate age dates.

Ken started his career at the Survey focussed on the Reindeer Zone of the Trans-Hudson orogen northwest of Flin-Flon where he had worked before under the auspices of the Geological Survey of Canada and the Manitoba Survey. He commonly concentrated on "difficult" rocks, either high-grade, highly deformed or both and as a result, he developed a good working relationship with Dr. John Lewry. His mapping projects in Saskatchewan commenced in 1990 in the Snake Rapids - Wildnest-Attitti Lakes areas, and continued through the Hanson Lake Block and neighbouring Flin Flon Domain, investigating such major structures as the Sturgeon Weir Shear Zone and the Pelican Decollement.

Projects such as Lithoprobe, a joint-venture between the Geological Survey of Canada and the provincial surveys aimed at providing a geophysical transect across the continent, and the GSC-Manitoba-Saskatchewan NATMAP Shield Margin Project were now an integral part of map interpretation. Ken was heavily involved with both projects, publishing papers based on the synthesis of all his previous work in a variety of journals or reports annually.

To his continuing interest in the Trans-Hudson Orogen was added in 1998 an excursion into the Rae Province northeast of Lake Athabasca. This was a prelude to another exercise of three-dimensional synthesis of composition, structure and history that became the Uranium City and Fond-du-Lac Projects. Ken was drawn to the area by the similarity between supracrustal rocks of the Murmac Bay group and those of the Woodburn Lake group, surmising that they might have been equivalent, which in the end turned out not to be the case. He continues to work on these areas to this day.

In his twenty-five years with the Saskatchewan Geological Survey Ken has mapped vast tracts of land: over 5,500 square kilometres covering much of eighteen 1:50,000 topographical sheets at scales between 1:20,000 and 1:100,000. That's equivalent to nearly 5 per cent of Saskatchewan's shield area and about the size of Prince Edward Island or Trinidad & Tobago. In pursuit of his work in Saskatchewan he has probably spent an aggregate of three entire years of his life in the bush. He has published over sixty papers, reports and maps as sole author or principal author and more than another seventy as a subsidiary contributor in collaborative omnibus papers.

CAP AND GOWN



Among his other duties, Ken is an Adjunct Professor at the University of Regina Department of Geology, currently teaching Geology 315 Metamorphic Petrology, Geology 810 Advanced Metamorphic Petrology and giving various graduate reading classes. In addition, he assists with the supervision of those undergraduate and graduate theses with Precambrian themes.

SOCIETY MATTERS

Ken became involved with the Saskatchewan Geological Society in 1993 as Assistant Program Chair, followed that with Program Chair in 1994 and then took over as President in 1995. After a further year on the Executive as Past-President he served as Editor for the Saskatchewan Geological Society Special Publication MinExpo '96: Advances in Saskatchewan Geology and Mineral Exploration. After that he was wise enough to run away!

He is a member of the Association of Professional Engineers and Geoscientists of Saskatchewan, and a Fellow of the Geological Association of Canada (currently a Councillor for the Precambrian Division).

He was a founder member of the Friends of the Reindeer Zone and organized a major field trip through the area. Despite rumours to the contrary, it's not dead, but like the parrot 'just resting'.

A MAN FOR ALL SEASONS...

For someone who is a Macgyver in the field, who can fix anything, and often takes the most troublesome outboard motors, Ken likes a simple streamlined camp. Why put a tarp over the biffy when it blocks ones view of the stars? Why buy a spade for the garden, when the snow shovel would do perfectly well?

Ken had his ham operator licence and still has two Russian tank radios somewhere in the basement He still remembers Morse code, which is why one of his favourite shows is the BBC Inspector Morse mysteries. (The name of the criminal is spelt out in Morse code at the end of the show). And how could one look on the bright side of life without Monty Python? Ken loves hiking, skiing, both downhill and cross-country, hockey, bird watching and plant identification, all adjuncts of that love of the Great Outdoors and its Natural History that led him to geology.

REAL FAMILY...

Two of the best memories Ken and Janis share is the arrival of their two children, Stuart (now 19) and Heather (now 15). They heard about their son on a Monday, drove to Saskatoon on Wednesday night, chose names using the map light in the car on the drive up and drove home on a Thursday with 2 month old Stuart. Four years later Ken was in the bush in the lake for his nightly swim when he saw a float plane coming in to land. It taxied in and after pleasantries and news, the pilot said, "Oh yeah, by the way, you have to come home: something about a baby girl?" Janis had taken possession of 10 day-old Heather.

Being proud parent of a young family has put the drifting continents in their place and given Ken



and Janis many happy times to look back on and much to hope for in the future.

Compiled and written up for the Saskatchewan Geological Society Honour Roll Committee,

January-February 2015 by D. G. MacDougall, P.Geo., from the following sources:

(i) Saskatchewan Geological Survey Reports and Summaries of Investigations

(ii) Ashton-Dale Family notes, photographs and reminiscences

(iii) Information supplied by Colin Card

(iii) Saskatchewan Geological Society Special Publications

2016 Honour Roll Inductee Dr. Tom Sibbald

Dr. Tom Sibbald is the 2016 inductee into the Society's Honour Roll for his contribution to our understanding of the Precambrian Geology of northern Saskatchewan and for being a co-founder of the Athabasca Basin U-unconformity deposit model. A detailed citation will be provided on the evening of the Annual General Meeting.

Respectfully submitted,
Don Kent; Honour Roll Committee Chair

2015 Student Awards

The Society presents four awards each year in recognition of the hard work of up and coming geoscience students. In addition to the award each student recipient will receive a cheque for \$250.

The **President's Award** is presented to the best Saskatchewan undergraduate student poster at the Saskatchewan Geological Open House. There were six posters in this category. This year it is presented to **Brodie Stroh** of the University of Regina for his poster titled: Field, petrographic and fluid inclusion studies of gold mineralization in the Tantato Domain, northern Saskatchewan.

The **Lazlo Fuzesy Award** is presented to the best graduate student poster at the Saskatchewan Geological Open House. There were 14 posters in this category. This year it is presented to **Dillon Johnstone** of the University of Regina for his poster titled: Structural controls of uranium mineralization in the Kiggavik East Zone, Central Zone, and Main Zone deposits and their potential extensions to the northeast. Second place in this category went to **Zenghua Li** of the University of Regina for his poster titled: Numerical modelling of structural controls on fluid flow during compressional basement fault reactivation in the Athabasca Basin, Canada. Zenghua received a cheque for \$150.

The three judges for this graduate student category were Dr. Joyce McBeth (University of Saskatchewan), Dr. Jeanette Roelofsen (University of Regina), and Lynn Kelley. The judge for the undergraduate student category was Murray Rogers.

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, and Vanguard



formations. This year the award is presented to **Brodie Stroh**.

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 **Todd LeBlanc**.



9. NOMINATING COMMITTEE

The term of the 2015 SGS Executive ends with the AGM on February 6, 2016. The 2015 Executive puts forward the following candidates for the 2016 Executive:

President:	Ryan Morelli
Vice-President:	Monica Cliveti
Treasurer:	Michelle Hanson (year 2/2)
Secretary:	Bernadette Knox (year 2/2)
Business Manager:	Maria Velez
Program Chair:	Jason Cosford
Assistant Program Chair:	Mike Thomas
Past President:	Ralf Maxeiner

A motion will be made at the AGM to accept the full slate of candidates for 2016.

Respectfully submitted,
Ralf Maxeiner
President

